

FOREWORD

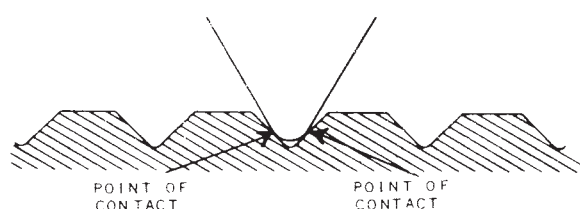
This catalogue has been designed to give you a better insight in what a phonograph needle is — how it works, to what exterior details you must pay attention in order to identify it and with which needle you may eventually replace it. The few minutes of your time that you devote to studying these pages will have a stimulating influence on your turnover in phonograph needles, as well as on the satisfaction of your customers.

The groove of a record contains a multitude of small zig-zag sinuosities. The record player 'translates' these zig-zags of the groove into sound.

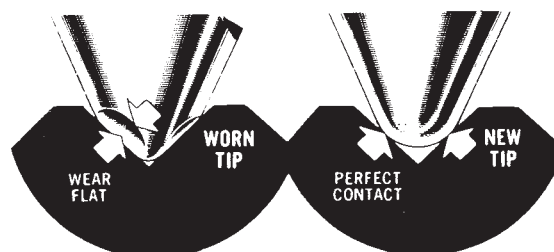
This is done by tracking the groove with a phonograph needle. The zig-zag movements that the needle makes as it travels along the groove are transmitted to a pick-up cartridge. This cartridge produces a small electrical current, the strength of which varies according to the movements of the needle. This continually varying current passing through an amplifier is commuted into variations of a scale sufficient to enable a loudspeaker to produce sounds.

We particularly stress the fact that the only link between the record and the cartridge is the needle. If the needle is worn out or damaged, this will result in sound which is either only partially reproduced, or distorted. This is one of the reasons why it is so important that the needle be in good condition.

Now, let us examine the needle more closely. Seen in cross-section, the groove of a record with the needle on it looks about like this:



As you can see, the tip of the needle doesn't have a sharp point but a rounded one. The needle makes contact only with the two sides of the groove. As the record turns, the needle glides along these two zones of contact. The originally rounded surface of the tip will, in the long run, wear away flat (See drawing.)



On the tip, at the place where the still rounded and the already flat-worn surfaces meet, a sharp edge begins to form which, in its turn, wears off the walls of the groove. The groove loses part of its strongly accentuated zig-zag shape. Since it is this very zig-zag shape that carries the 'information' for the sound in all its aspects (high and low tones, timbre, differentiation of instruments, etc.), any damage caused to it by a worn needle means in fact that sound is being rubbed off the record and irretrievably lost.

The consequence is that even the most expensive equipment and records become worthless when used with a worn needle! **EVERY NEEDLE MUST BE CHANGED REGULARLY.** (More about this further on).

We now know how a phonograph needle works and why it must be changed. What must we do to give our customers the right replacement needle?

There is nowadays a great variety of needle types. Each type has been designed for a specific cartridge and, in most cases, fits only that particular one. Some needles are more 'popular' than others because the cartridges in which they fit are used by many manufacturers of record-decks; hence there is a relatively high demand for those needles. You will probably notice that these 'popular' needles (some 12 to 16 types) will account for about 75% of your turnover in needles. Therefore you must get thoroughly acquainted with these 'popular' types.

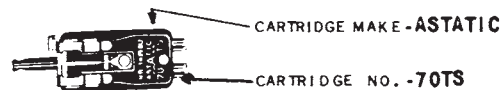
Most customers do not know which needle fits in their hi-fi system. In that case, you will have to explain to your customer which precise information he must give you, to enable you to supply him the right needle.



1. The easiest and most direct manner to find out what type of needle he needs is to ask him to tell you the brand and the model number of his cartridge.

You then look up the name of the manufacturer in the alphabetical listing. When you have found it, you look for the correct cartridge number in the small headings above the drawings.

Try it with the Pathé Marconi MUCS. If you have proceeded correctly, you will find our order number 240.



Tonar replacement types for: **PATHE MARCONI**

51	53	MUCS; MCS	RC 5/6	STC-7; STC-S; STC-41	STEREO	ST-10 J	STC-2000 D
154 	155 	240 	156 	157 	158 	771 	157
		T-H 5 S	T-H 5 E				
917 	885 	904 	904 DE 				

2. Another way to find a needle type is to ask your customer to bring his old needle and to tell you the brand of his record player. By comparing the drawings in the alphabetical listing with the customer's needle, you may often be able to identify it.
3. You could also ask your customer what were the brand and the number of the needle he bought previously — or what needle number is mentioned in the owner's manual which came with his equipment.
4. If your customer has already bought a TONAR needle in the past, then he knows the number.

441	Ronette CMT-102
442	B.S.R. ST-16/17
	Fidelity
	Schneider ST-16/17
443	Dual CDS-650; 651; 660; 661
	Dual CDS-670; CDS-671
	Dual DN-6; 8; 62; 63; 64; 65; 85
	Perpetuum Ebner PE-3000; CDS-650;
	CDS-651
444	Clean CM-500
	Hape
	Piezo Y-930; YM-101
445	Kenwood N-23
	Trio N-23
446	Teppaz MT-30



You can look up this number in the numerical list and you will see what type of needle it is.

With the help of these four methods, you will, in most cases, be sure to sell a needle. There will be instances, however, where you still won't be able to determine what needle your customer needs, whether through lack of, or wrong information. Do not let yourself be discouraged on the odd time that this happens. For the most part you will have success and, as you acquire more experience, you will find selling needles becoming easier and easier.

And now a few hints concerning the life of a needle.

People quite often ask how long a needle can be used and what are the signs which indicate that it is wearing out. Unfortunately, the fact is that as soon as one hears a high, sharp noise in the record, it is already too late — the harm is done. A better way to ascertain how far a needle is worn is to keep track of the number of hours that it has been in use. To make a reasonable estimate of the expected life of a needle, one must take many factors into account: the weight of the tone arm, the condition of the record, the quantity of dust in the air, whether one has a monaural or a stereo needle and of what material its tip is made — all those things affect the life expectancy of the needle.

When the above circumstances do not depart too much from the average, one can expect a needle to give approximately the following number of hours of use:

Point made of:	Number of hours of use:
Sapphire	40 - 60 hours
Diamond	400 - 600 hours



N.B. — Your proficiency in the selling of needles will increase significantly as you become more conversant with your TONAR catalogue and as you acquire more experience in reading cartridge and needle numbers.

We advise you to 'practise' whenever you get the opportunity — for instance, by lifting the arm of the record-players that you have in your store and noting the brand and type number of the cartridge. Then take your TONAR catalogue and identify the needle that is required.

This way, you will soon become the 'needle expert' in your neighbourhood. This will not only benefit your needle sales but, because it will attract to your store a larger clientele, it will also augment the turnover in your other merchandise.

INFORMATION CONCERNING THE CODES ON INVOICES AND PACKAGING

The list below shows the codes we use on needle boxes as well as the ones we use for the invoices.

CODE ON THE BOX	DESCRIPTION
SS	SAPPHIRE STEREO
SN	SAPPHIRE NORMAL (78 RPM)
DS	DIAMOND STEREO
DN	DIAMOND NORMAL (78 RPM)
DE	DIAMOND ELLIPTICAL (BI-RADIAL)
HYPEL	DIAMOND HYPER ELLIPTICAL (BI-RADIAL)
ES	DIAMOND LINE CONTACT
SHIBA	DIAMOND SHIBATA CUT
D-SAS	DIAMOND NAKED BLOCK D-SAS CUT

Some of the needle types packaged by us, are, in fact, original needles (manufactured by the factory which designed them).

These needles can be recognized by the codes.

CODE ON THE BOX	DESCRIPTION
DS-OR	DIAMOND STEREO ORIGINAL EQUIPMENT
DE-OR	DIAMOND ELLIPTICAL ORIGINAL EQUIPMENT
SHIBA-OR	DIAMOND SHIBATA CUT ORIGINAL EQUIPMENT

In the past, many crystal and ceramic pick-up cartridges had turnover needles. There was a stereo tip on one side and a 78 rpm one on the other side. Later, when 78 rpm records became obsolete, people asked whether a second stereo tip could not be mounted in the needle instead of the little used 78 rpm one.

Since this didn't increase the cost of production, it was done accordingly and this is how the 'double stereo needles' originated. The most popular among these needles are now delivered 'double stereo' as a matter of course, and only upon special request with a 78 rpm tip. The less popular types are still delivered with one stereo tip and one 78 rpm tip.

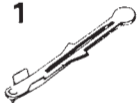
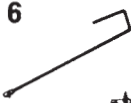
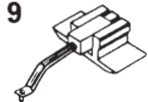
CODE ON THE BOX	DESCRIPTION
SN/SS	SAPPHIRE NORMAL (78 RPM) / SAPPHIRE STEREO
SS/SS	SAPPHIRE STEREO / SAPPHIRE STEREO
SN/DS	SAPPHIRE NORMAL (78 RPM) / DIAMOND STEREO
SS/DS	SAPPHIRE STEREO / DIAMOND STEREO

Our delivery program has been divided into a number of article groups. From the article number you can see immediately to which group an article belongs.

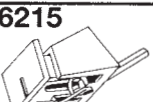
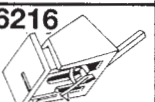
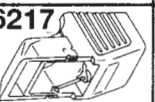
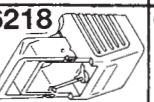
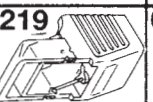
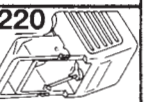
ARTICLE NO.	ARTICLE GROUP	DESCRIPTION
1 - 1999	0 OR 1	TONAR DIAMOND STYLI
6000 - 6999	0 OR 1	TONAR DIAMOND STYLI
2000 - 2999	2	PHONOGRAPH CARTRIDGES
9100 - 9999	2	PHONOGRAPH CARTRIDGES
3000 - 5999	3	ACCESSORIES

Into our catalogue we have inserted many O.E.M. styli with their numbers in order to facilitate finding the needle. However, our complete program of O.E.M. styli is much more extensive. Regularly we issue a special list with the complete delivery program and the prices.

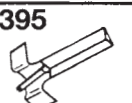
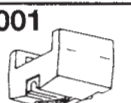
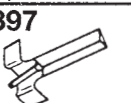
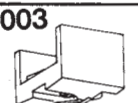
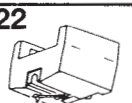
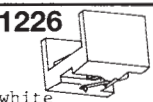
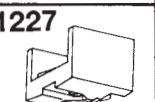
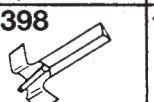
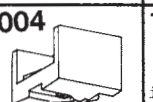
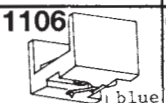
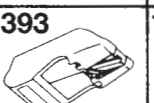
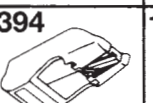
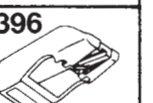
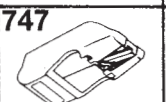
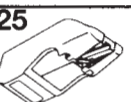
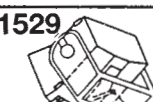
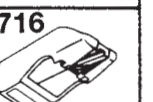
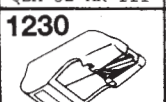
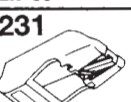
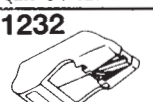
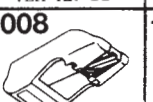
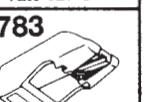
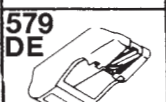
Tonar replacement types for: ACOS

GP-19 8 	GP-29 3 	GP-33 7 	GP-37 2 	GP-59 1 	GP-65; GP-67 5 	GP-71/3 6 	GP-73/1; 73/3 4 
GP-79 307 	GP-81 9 	GP-91 246 	GP-91-1-2-3 SC 353 	GP-93-94 364 	GP-95-96 377 	GP-104 392 	GP-104 455  transcription
POWER POINT 339 	M-6 632  white	M-6 E 633 DE  red	M-6 E/X 634 ES  yellow	M-7 756  red	M-7 E 756 DE  yellow		

Tonar replacement types for: ACUTEX

M-106 6201  white	M-110 E 6202 DE  dark red	206 II 6215  white	207 II 6216  dark grey	310 III 6217  orange	312 III 6218  red	315 III 6219  blue	320 III 6220  black
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Tonar replacement types for: A.D.C.

R-7 E 1395  copper	R-9 E 1001  blue	R-1; R-10 I; I Mark II 1397  copper	R-12 E 1002  no longer available	R-15 E 10 E Mark IV 1003  black	R-20; 220 422  red	R-20 X; 220 X 560  ivory	R-20 XE 220 XE 564 DE  ivory
R-25; 25 1225  blue dot black	R-251; 25 1224  red	R-253; 25 1226  white dot black	R-26; 26 1227  white	R-27; 27 1228  beige	R-3; R-30 3; 3 Mark II 1398  copper	R-50 XE 550 XE 1004  ivory	R-60 XE 1392  ivory yellow dot
R-90 XE 1106  ivory blue dot	660 631  grey	770 361  red	R-778 78 r.p.m. 1786  l. blue	K-series 624  dark blue	R-K 3 E 1393  blue	R-K 7 E 1394  blue	R-K 8 E 1396  blue
P-series 747  grey	Q-series 625  l. blue	R-LM-1; R-ML-1 1529  black	R-LMA-1; LMA-1 accutrack 1117  black	R-LMA-3; LME-3 accutrack +6 1765  black	QLM-30 MK II 1718  grey	QLM-30 MK III 1229  grey	QLM-32 MK II 1716  grey
R-SQ-32 QLM-32 MK III 1230  grey	R-SQ-33 QLM-33 MK III 1231  grey	R-SQ-34 QLM-34 MK III 1232  grey	R-QLM-36 QLM-36 MK II 1391  grey	R-Q-36 QLM-36 MK III 1068  grey	VLM 580  black	R-VL VLM MK II 1008  black	R-SV VLM MK III 1783  black
XLM 579 DE  black	R-XL XLM 1009  black	R-ZD XLM MK II 1235  black	R-ZL SUPER XLM MK II 1100  black	R-SX; XLM MK III XLM MK 3 impr. 1233  black	R-YX YX MK III 1635  black	R-X-4 XL-400 1633  black	R-XT II XT series II 1785  black

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Tonar replacement types for: A.D.C.

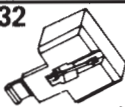
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R-Z 10 ZL-1000	R-SZ; ZLM ZLM improved	R-78, 78-RPM for: K;P;Q;QLM;XLM;VLM	R-L-3; L-3	R-L-4; L-4	R-L-5; L-5	R-Q-3; Q-3	R-Q-4; Q-4
1634  black	1234  black	1236  red 78 r.p.m!	1251  blue	1400  blue	1435  red	1385  blue	1401  red
R-S1 phase I Digital ser. 1	R-S2 phase II Digital ser. 2	R-S3 phase III Digital ser. 3	R-S4 phase IV Digital ser. 4	R-XM 1 INTEGRA XLM-1	R-XM 2 INTEGRA XLM 2	R-XM 3 INTEGRA XLM 3	R-SA ASTRION
1413  grey	1414  black	1415  black	1416  black	1800  black	1801  black	1802  black	1787  tr. clear
R-SX 5; SX-5	R-SX 5 E SX-5 E	R-PSX-10 PSX-10	R-PSX-20 PSX-20	R-PSX-30 PSX-30	R-PSX-40 PSX-40	R-TRX-1 TRX-1	R-TRX-2 TRX-2
6150  black	6150 DE  blue	1386  blue	1417  red	1418  white	1419  tr. blue	1430  gold	1431  gold
R-DC 90 S DC-90 S	R-XT III XT series III	R-XT IV XT series IV					
1670  grey	1803  black	1804  black					

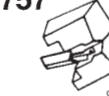
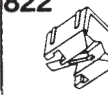
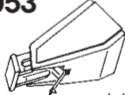
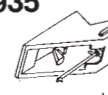
Tonar replacement types for: ADMIRAL

409 B 19-8							
10 							

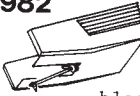
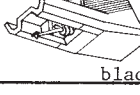
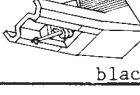
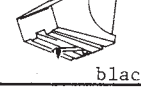
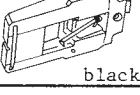
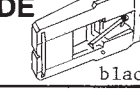
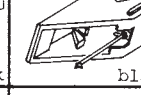
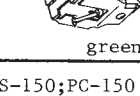
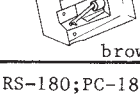
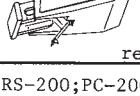
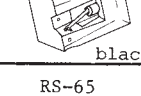
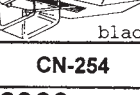
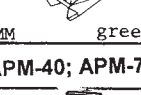
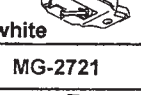
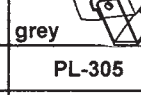
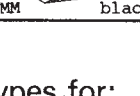
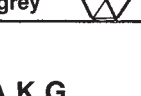
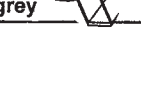
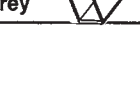
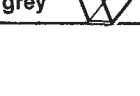
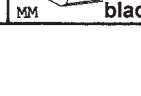
Tonar replacement types for: AIMOR

532  red							
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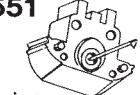
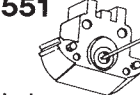
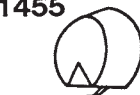
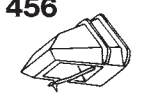
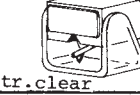
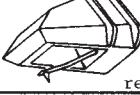
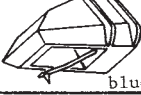
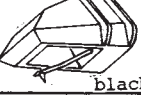
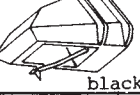
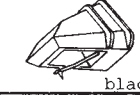
Tonar replacement types for: AIWA

AN-1 A	AN-2	STYLUS 5	AN-5; RN-5	AN-6	AN-7	AN-10	AN-F 10
813  red	6156  black	1319  black	832  red	757  green	831  yellow	6148  grey	6208  blue
AN-11	AN-20	AN-30	M-32	AN-35	AN-36	AN-87-43	AN-87-45
6263  l. grey	980  red	6014  blue	660  green	813  red	822  white	691  orange	753  black
AN-50	AN-60	AN-70	AN-71	AN-77 DY	AN-5080	AN-110	AN-501 C
957  black	953  white	935  black	758  black	6156  black	6344  black	6036  black	813  red

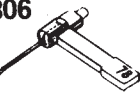
Tonar replacement types for: AKAI

APN-2	RS-3 J	APN-4	APN-5 CN-2398	Stylus 5; LMB-5	RS-5; SMB-5	RS-7; PC-7	RS-10; PC-10
571  white	889  black	323 ES  4-channel	677  yellow	1319  black	1319  black	982  black	6161  black
Stylus 12 LMB-12	RS-33; PC-33	RS-35; PC-35	RS-38	RS-41	RS-50; PC-50	RS-50E; PC-50E	RS-77
1318  black	6049  black	6049  black	753  black	1318  black	6152  black	6152 DE  black	935  black
RS-82	RS-83	RS-84	RS-85; PC-85	RS-90; PC-90	RS-95; PC-95	RS-100; PC-100	RS-120; PC-120
990  green	897  brown	926  red	933  black	831  yellow	896 DE  black	734  black	734 DE  black
RS-150; PC-150	RS-180; PC-180	RS-200; PC-200	RS-65			ATN-3609 YL	CN-246
899 DE  black	6142 DE  black	1243  black	808  green	981  white	6166  yellow	6345  yellow	6353  grey
ATN-3606	APM-395	CN-254	APM-40; APM-70	MG-2721	APM-550	APM-600	PL-305
6237  grey	6260  blue	6366  black	6353  grey	6353  grey	6353  grey	6353  grey	6360  black

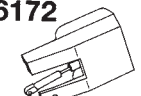
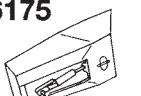
Tonar replacement types for: A.K.G.

X2R; PU-2R	X3E; PU-3E	X-4; P-4; P-4 DP	X-4E; PU-4E	X-5ED; P-5 ED	X6R; P6R	X6E; P6E	X7E; P7E
551  beige	551  beige	1455  black	1180  black	1456  black	1294  red	1295  black	1296  tr. clear
X8E; P8E	X8S; P8ES	X-10 S P-10 ED; P-10 S	X-15 S P-15 MD; P-15 S	XD-20; P-20 MD REVOK	X-25 S / P-25 S X-25 MD-24 / .35	X-8 ES P-8 ES Super Nova	X-10 ST P-10 ED STUDIO
6367 DE  tr. clear	1298  tr. clear	1676  red	1677  blue	1677  black	1678  black	1673  black	1675  red

Tonar replacement types for: ALLPHON

66	69	JEUNESSE	PC-1				
306 	404 	425 	369 				

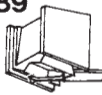
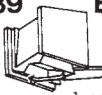
Tonar replacement types for: AMSTRAD

T-30 MS T-30 MD			TS-51/55	TM-77	N-900 C 900 C	N-900 D 900 D	N-900 EX 900 EX
980  red	948  blue	6016  blue	6172  red	6175  red	725  .6 mil orange	6256  .5 mil grey	725 DE  yellow

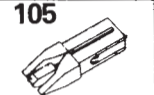
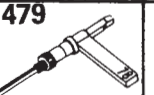
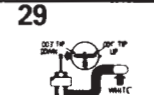
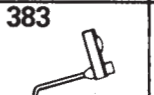
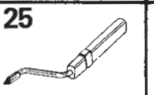
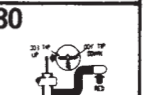
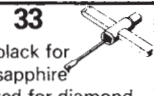
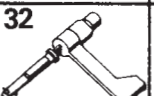
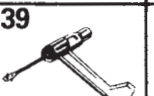
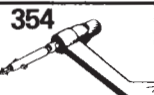
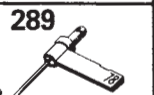
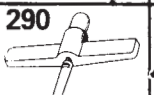
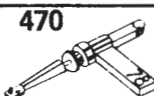
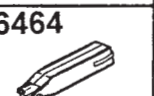
Tonar replacement types for: ANDANTE

P-38	P-76						
6270  black	6272 DE  tr. clear						

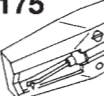
Tonar replacement types for: A + R / CAMBRIDGE

P-77	P-78						
789  red	789 ES  brown						

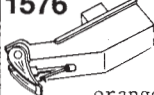
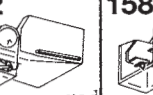
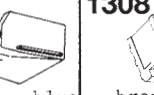
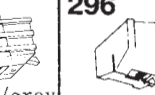
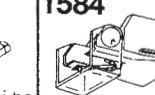
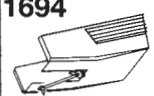
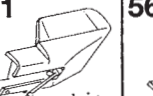
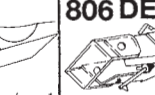
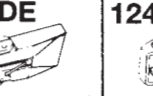
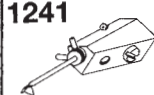
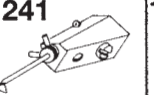
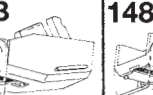
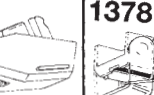
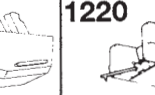
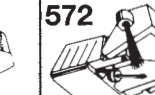
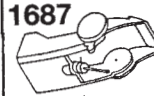
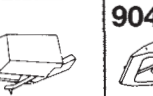
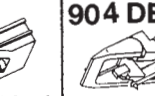
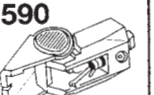
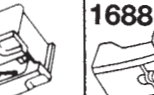
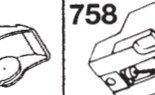
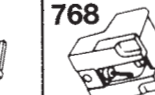
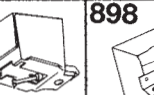
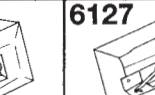
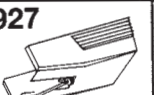
Tonar replacement types for: ASTATIC

13 T	81-T	91-T	N-7	N-8	N-14/215	N-17; 207	N-19; 223
35  green	37  black	105  white	27 	28 	495 	479 	480 
N-29; G	N-30; 55; GCD	N-31; K	N-34; Q	N-35; R	N-36; L; T	N-37; U	N-38; 57; GC
24 	29 	26 	22 	383 	25 	36 	30 
N-39; A	N-41; N 42; 17-D	N-43; 15-D	N-45; 45-D	N-50; N-51; 133	N-52; N-53	N-54; N-55	N-56
23 	31 	33  black for sapphire red for diamond	34  gold	32 	39 	40 	41 
N-60	N-64	N-72	N-74	N-76	N-79	N-81	N-83
38 	248 	354 	289 	290 	312 	313 	314 
N-85	N-89/205	N-687	81T; 89T	81T; 89T			
355 	470 	271 	6464  red	6465 DN  green 78 RPM			

Tonar replacement types for: AUDIO EMPIRE, See: EMPIRE SCIENTIFIC
Tonar replacement types for: AUDIO SONIC

456  blue	651  MM black/white	524 	734  black	6175  red			

Tonar replacement types for: AUDIO TECHNICA

ATP-1	ATX-1	ATP-2	AT-3	ATP-3	AT-VM-3	ATX-3E	AT-3-5 D
1197  white ATN-UL 3 AT-UL 3	1306  red/grey AT-4-7 D	1198  white/blue AT-4-7 D	780  white ATP-N 4 ATP-4	1199  white/red ATP-N 5 ATP-5	671  yellow ATX-5 E	1307  blue/grey AT-6	6270  yellow ATP-N 6 ATP-6
1576  orange ATP-N 8 EP	6236  black ATP-N2	6280  orange ATN-DS3 YL	1582  red ATN-DS3	1583  blue ATN-DS7	1308  bronze/grey ATN-G5	296  white ATS-12 C	1584  caramel ATN-DS3 YL
1695  l. blue ATP-N 7	6870  black AT-7	6872  yellow VM-8 7D MG-35 V	6874  black AT-10	6876  black AT-11	6878  red AT-11 E		1840  brown AT-11 S
1694  red AT-12 E	729  black AT-12 S	571  white AT-12 Sa	568  red AT-12 XE	677  yellow AT-13 E	741 DE  green AT-13 Ea	894  white AT-13 Ea/X	847  grey AT-14 S
748 DE  blue AT-14 Sa	620 shibata  ivory AT-15 S	782 shibata  white AT-15 SS	781 DE  l. brown AT-15 XE	783 DE  orange AT-20 SL	794 DE  orange/red AT-20 SLa	806 DE  green AT-20 SS	619 ES  red AT-21
796 shibata  lilac AT-22; 23a	1239  black AT-24	1239  black AT-25	709 DE  black AT-30	1240  black AT-30 E	1240  black AT-30 HE	398 DE  grey AT-31 E	1269  silver AT-33; AT-35
1241  silver AT-VM 35	1241  silver ATN-E 50	1243  black AT-51 E; 52 E; 53	1243  silver AT-55	1481  grey AT-55 XE	1378  blue AT-57 XE	1220  yellow AT-59 XE	572  red ATN-61 AT-61
1687  met. green ATN-61 E AT-61 E	904  black ATN-61 XE AT-61 XE	904 DE  black AT-66	542  white ATN-70 AT-70	904 DE  black ATN-70 L AT-70 L	904 DE  black ATN-E 70	904 DE  black ATN-71 AT-71	1585  grey ATN-71 E AT-71 E
1586  grey ATN-72 AT-72	1590  grey ATN-72 E AT-72 E	398  grey ATN-90 AT-90	795  red ATN-E 90 AT-E 90	915  white ATN-91 AT-91	1688  met. blue ATN-93 AT-93	758  yellow ATN-95 E AT-95 E	768 DE  green ATN-101 P AT-101 P
895  brown ATN-101 EP AT-101 EP	760 DE  blue ATN-102 P AT-102 P	6182  grey ATN-102 EP AT-102 EP	1776  met. red ATN-102 EP AT-102 EP	974  yellow ATN-102 EP AT-102 EP	898  yellow ATN-102 EP AT-102 EP	6127 DE  green ATN-102 EP AT-102 EP	6126  yellow ATN-102 EP AT-102 EP
6189 DE  green ATN-102 EP AT-102 EP	927  grey ATN-102 EP AT-102 EP	986 DE  green ATN-102 EP AT-102 EP					

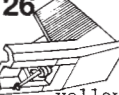
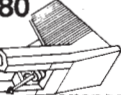
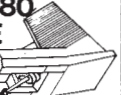
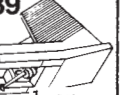
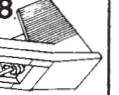
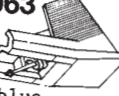
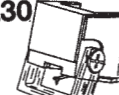
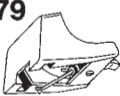
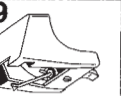
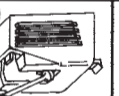
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Tonar replacement types for: AUDIO TECHNICA
CONTINUED

AT-103 soundurger	ATN-105 AT-105	ATN-110 E AT-110 E	ATN-112 EP AT-112 EP	ATN-115 E AT-115 E	ATN-120 E AT-120 E	ATN-122 EP AT-122 EP	ATN-122 LP AT-122 LP
871 red	867 yellow	868 DE blue	979 DE blue	6120 DE smoke grey	6891 DE caramel	6109 DE brown	6110 ES ivory
ATN-125 LC AT-125 LC	ATN-130 E AT-130 E	ATN-132 EP AT-132 EP	ATN-135 E AT-135 E	ATN-140 LC AT-140 LC	ATN-140 ML AT-140 ML	ATN-ML 140	ATN-142 LP AT-142 LP
870 ES ivory	871 DE orange	1376 red	1594 blue	872 ES burgundy	1604 purple	1771 met. dk. blue	1596 blue
ATN-150 E AT-150 E	ATN-ML 150	ATN-152 LP AT-152 LP	ATN-152 MLP AT-152 MLP	ATN-155 LC AT-155 LC	ATN-160 ML AT-160 ML	ATN-ML 170 AT-ML 170	ATN-ML 180 AT-ML 180
1608 black	1772 met. dk. grey	1377 black	1624 brown	873 ES black	1480 dk. brown	1773 beige	1774 gold
ATN-201 P AT-201 P	ATN-201 EP AT-201 EP	ATN-211 EP AT-211 EP	ATN-216 EP AT-216 EP	ATN-221 EP AT-221 EP	ATN-231 LP AT-231 LP	ATN-261 AT-261	ATN-113
1587 grey black	1588 grey ivory	1589 grey orange	1590 grey caramel	1591 grey yellow	1592 grey blue	1693 red/red	6348 orange
ATN-312 EP AT-312 EP	ATN-312 HEP AT-312 HEP	ATN-312 PBK AT-312 PBK	ATN-420 E AT-420 E	ATN-422 EP AT-422 EP	ATN-430 E AT-430 E	ATN-432 EP AT-432 EP	
1409 grey orange	1593 grey red	1407 black green	1778 caramel	1779 caramel	1780 orange	1781 orange	
AT-100 E	AT-150 MLX	AT-440 MLa	ATN-360	ATN-361	ATN-362		
6897 red	1949 black	6838 purple	6394 yellow	6395 green	6396 DE blue		
ATN-750	ATN-750	ATN-750	ATN-750	ATN-770			
864 grey	903 blue	865 orange	866 black	6181 red			
ATN-770 L	ATN-771	ATN-936	ATN-936	ATN-936	ATN-952	ATN-952	AT-892
850 grey	828 yellow	676 white	778 orange	785 black	771 black	764 orange	928 black
ATN-2001 AT-2001	ATN-2002 AT-2002	ATN-2003 AT-2003	ATN-2004 AT-2004	ATN-2005 AT-2005	ATN-3050 AT-3050	ATN-3070 AT-3070	
6048 violet	6178 blue	6188 blue	990 green	981 ivory white	1691 yellow	1692 red	
ATN-3100 AT-3100	ATN-3100 E AT-3100 E	ATN-3100 XE AT-3100 XE	ATN-3100 XE/II AT-3100 XE/II	ATN-3150 AT-3150	ATN-3150 E AT-3150 E		
1372 black	1603 black	1605 black	1607 blue	1614 white	1615 white		
ATN-3200 AT-3200	ATN-3200 E AT-3200 E	ATN-3200 XE AT-3200 XE	ATN-3200 XE/II AT-3200 XE/II	ATN-3230 AT-3230	ATN-3250 AT-3250	ATN-3250 E AT-3250 E	
1609 black	1598 black	1446 black	1562 grey	976 black	1563 ivory	1595 ivory	

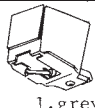
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Tonar replacement types for: AUDIO TECHNICA
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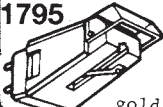
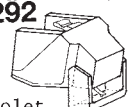
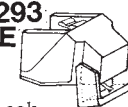
ATN-3400 AT-3400	ATN-3400 C AT-3400 C	ATN-3401 AT-3401	ATN-3410 AT-3410	ATN-3450 AT-3450	ATN-3450 C AT-3450 C	ATN-3450 L AT-3450 L	ATN-3451 AT-3451
832  red	6186  dk. grey	851  grey	898  yellow	832  red	6186  dk. grey	851  grey	898  yellow
ATN-3451 E AT-3451 E	ATN-3452 E AT-3452 E						
6127 DE  green	6008 DE  blue	925  tr.violet					
ATN-3472 P AT-3472 P	ATN-3472 EP AT-3472 EP	ATN-3482 P AT-3482 P	ATN-3492 P AT-3492 P	ATN-3492 EP AT-3492 EP			
6111  ivory	6111 DE  ivory	6126  yellow	6180  orange	6180 DE  orange	6189  l. green	6159  dk. green	6158  dk. blue
6154  red	6063  l. blue						
ATN-3600 AT-3600	ATN-3600 C AT-3600 C	ATN-3600 L AT-3600 L	ATN-3601 AT-3601	ATN-3626 AT-3626	ATN-3650 AT-3650	ATN-3650 C AT-3650 C	ATN-3650 L AT-3650 L
917  red	991  dk. grey	981  ivory	974  yellow	981  ivory	917  red	991  dk. grey	981  ivory
ATN-3651 AT-3651	ATN-3651 E AT-3651 E	ATN-3652 AT-3652	ATN-3652 E AT-3652 E				
974  yellow	6179 DE  green	6187  brown	6178 DE  blue	6193  turquoise	6048  dk. violet		
ATN-3660 YL	ATN-3663	AT-1059	AT-3609 GY	AT-3651 F	AT-3609 YL		
6203  yellow	6315  yellow	6230  blue	6237  grey	6166  yellow	6345  yellow	6334  black	
ATN-3710 AT-3710	ATN-3710 L AT-3710 L	ATN-3711 AT-3711	ATN-3711 E AT-3711 E	ATN-3712 AT-3712	ATN-3712 E AT-3712 E	ATN-3721 AT-3721	
879  red	942  ivory	831  yellow	922 DE  green	849  brown	848 DE  blue	900  yellow	
ATN-3830 AT-3830	ATN-3831 AT-3831	ATN-3851 AT-3851					
957  black	957  black	935  black					
AT-91 78 RPM	AT-3400 78 RPM	AT-3472 78 RPM	AT-95 78 RPM				
6378 DN 	6439 DN 	6436 DN 	6439 DN 				

Tonar replacement types for: **AUREX, See: TOSHIBA**

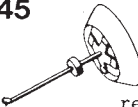
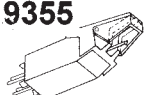
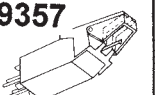
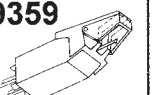
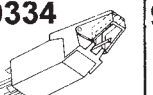
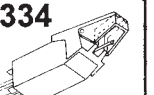
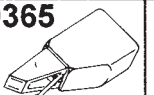
Tonar replacement types for: **AVNET**

ATN-3626							
981  l.grey							

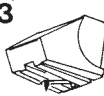
Tonar replacement types for: **AZDEN**

GM-1 E	YM-10 C	YM-10 E	YM-10 VE	YM-P-20 E	YM-P-50 C	YMP-50 E	YMP-50 VL
1795  gold	6292  violet	6293 DE  black	6294 DE  purple	1796  blue	6295  clear	6318 DE  tr.blue	6319 ES  tr. red

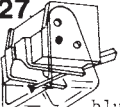
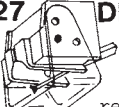
Tonar replacement types for: **BANG & OLUFSEN**

B & O	PROFESSIONAL	350 R; 72	SP-I; SP-II	SP-6/7	SP-6/7	SP-8/9	SP-8/9
42 	43 	44 	45  red	315  stylus only black	340  complete nickle	315 DE  stylus only black	340 DE  complete gold
SP-10	SP-12	SP-14	MMC-1	MMC-2	MMC-3	MMC-4	MMC-5
843  naked diamond	844 DE  naked elliptical	845  black	9355  black	9357  black	9359  black	9334  black	9334  black
MMC-10 E (MMC-20 S)	MMC-20 S (MMC-3000)	MMC-20 E (MMC-4000)	MMC-20 EN (MMC-5000)	MMC-20 CL (MMC-6000)			
9248  nickle	9248  nickle	9248  nickle	9363  nickle	9365  nickle			

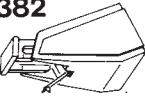
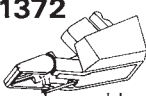
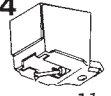
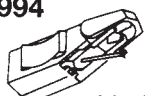
Tonar replacement types for: **BARCO**

753  black							

Tonar replacement types for: **BELLEX**

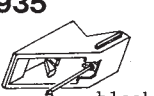
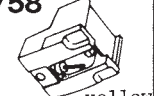
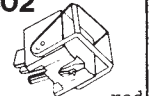
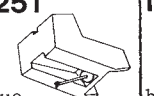
BX-50	BX-50 E						
827  blue	827 DE  red						

Tonar replacement types for: **BLAUPUNKT**

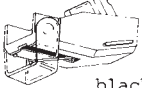
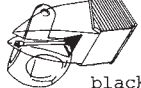
EM-240	P-60	305 M	ATN-3100	CN-5431		GP-330	
757  tr.green	651  MM black/white	382  blue	1372  black	832  red	974  yellow	994  black	

Tonar replacement types for: **BOHLAND AND FUCHS, See: SUPRAPHON**

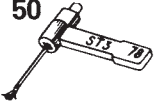
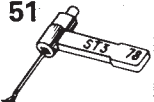
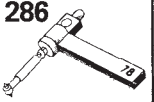
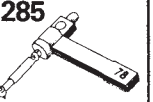
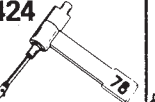
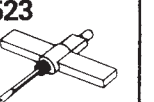
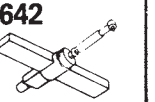
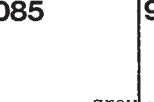
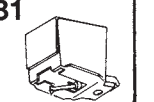
Tonar replacement types for: **BRANDT**

				FF-15 O MK II	QLM-30 MK III	L-3	L-4
904 DE  black	935  black	758  yellow	917  red	802  red	1229  grey	1251  blue	1400  blue

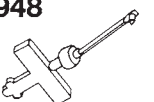
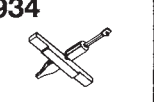
Tonar replacement types for: **BRAUN**

MAG 1 E	MC-1 E MC-2 E	MAG 2 E					
776 DE  black	1243  black	1445  black					

Tonar replacement types for: **B.S.R.**

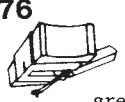
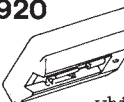
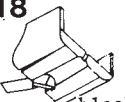
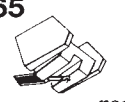
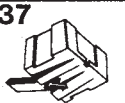
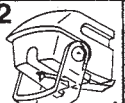
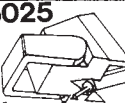
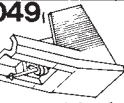
ST-3; ST-4	ST-5; ST-6; ST-7	ST-8; ST-9	ST-10	ST-12/14/15	ST-16/17	ST-19; ST-22	ST-20/21
50  ST 3 70	51  ST 5 70	286  70	285  70	424  70	442  ST 16 70	523 	556  ST 20 70
TC 4	TC 8	TC 8 STEREO	TC 12	ST-23		S-1; SN-1	ATN-3600 L
48 	46 	47 	49 	642 	725  red	6085  grey	981  grey

Tonar replacement types for: **BYNATONE**

948 	934 						

Tonar replacement types for: **CAMBRIDGE, See: A + R / CAMBRIDGE**

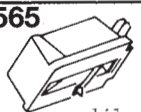
Tonar replacement types for: **C.E.C.**

RS-3	MC-5	MC-6 S	MC-7	MC-8	MC-10	MC-11	MC-16
965  tr. green	576  grey	920  white	577  black	320  red	818  black	665  red	753  black
MC-17	MC-20	MC-45	ST-630	ATN-750		MC-20 ES	N-103
909  black	637  red	952  red	6025  clear IM	866  black	6051  white	6146 DE  black	6049  black

Tonar replacement types for: CLEAN

CM-500							
444  white							

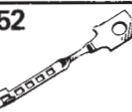
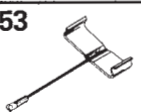
Tonar replacement types for: CLIFTON

clifton	CLIFTON						
1108  black	565  lilac						

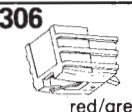
Tonar replacement types for: COBRA

250	520						
920  white	920  white						

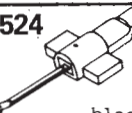
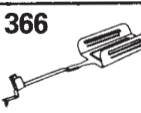
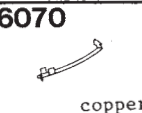
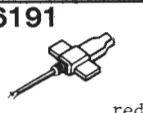
Tonar replacement types for: COLLARO

PX	STUDIO						
52 	53 						

Tonar replacement types for: COMPASS

ATX-1	ATX-3 E	ATX-5 E					
1306  red/grey	1307  blue/grey	1308  bronze/grey					

Tonar replacement types for: CONER

RCS STEREO	RCQ MONO	TESTINA RC-1	R-608 RCS				
524  black	366 	6070  copper	6191  red				

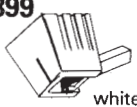
Tonar replacement types for: CONNOISSEUR

SCU-1							
358 							

Tonar replacement types for: CONVER

B-60-100	STEREO						
394 	252 						

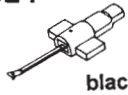
Tonar replacement types for: CORAL

V-7000; V-30 D	555-5	666 EX					
399  white	334  black	6005 DE  white					

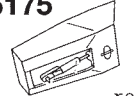
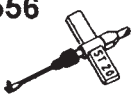
Tonar replacement types for: COSMO

COSMO	COSMOS G 62-30 M 23	G 62-30 M 23					
252 	394 	563  short tube					

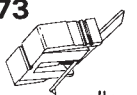
Tonar replacement types for: CONTINENTAL EDISON

758  yellow	832  red	781 DE  brown	885  clear	935  black	524  black		

Tonar replacement types for: **CROWN**

DT-36			ST-21 D; SHC-6100				
813  red	801  black	6175  red	556 				

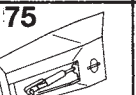
Tonar replacement types for: **CYBERNET**

573  yellow	822  white	832  red					

Tonar replacement types for: **DAEWOO**

974  yellow	6175  all plastic	6240  dark blue					

Tonar replacement types for: **DARLING**

M-22	ATN-3660 YL		DL-32 E	ATN-3663			
6242  yellow	6203  yellow	6175  red	974  yellow	6315  yellow			

Tonar replacement types for: **DECCA**

H	XMS	FF SS	DERAM				
56 	55 	1326* NO LONGER AVAILABLE	6006  blue				

* = Naaldreplacering voor deze elementen zijn alleen leverbaar na inlevering van het oude element.
Replacement needles for these cartridges are only available when the old cartridge is returned to us.

Tonar replacement types for: **DENON, See: JAPAN COLUMBIA**

Tonar replacement types for: **DIATONE, See: MITSUBISHI**

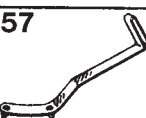
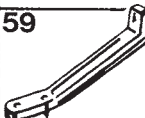
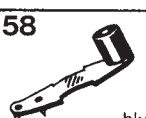
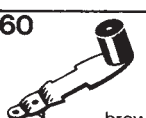
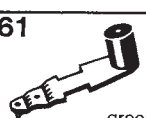
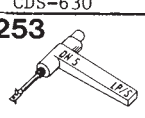
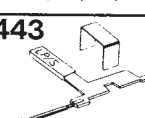
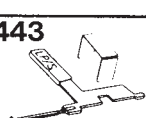
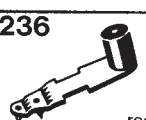
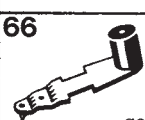
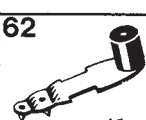
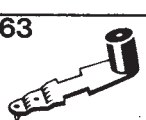
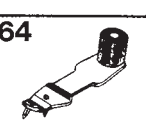
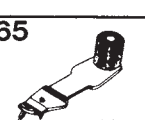
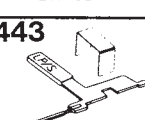
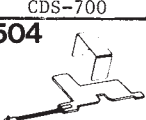
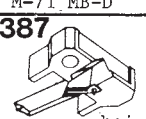
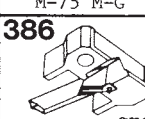
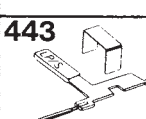
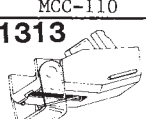
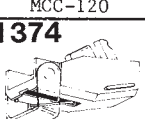
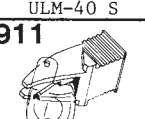
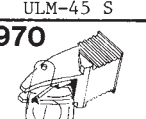
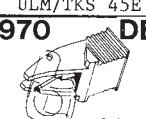
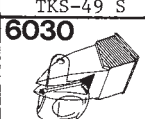
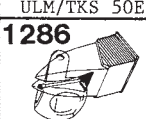
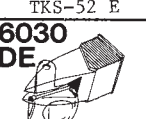
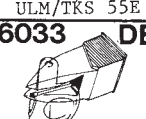
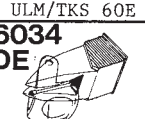
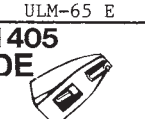
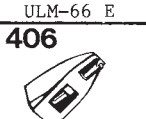
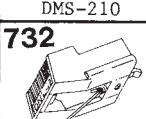
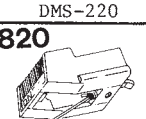
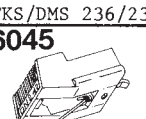
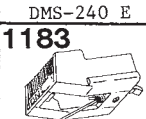
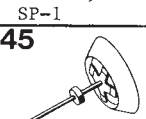
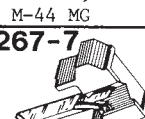
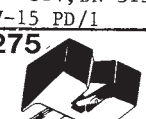
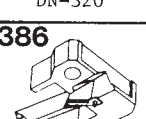
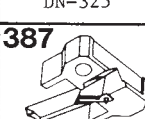
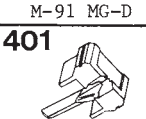
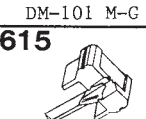
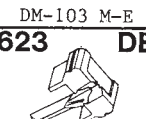
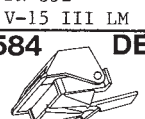
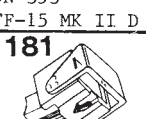
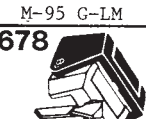
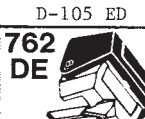
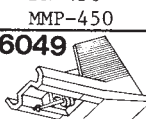
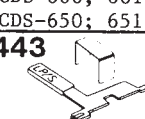
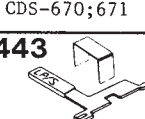
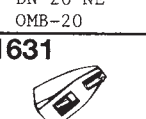
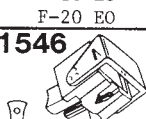
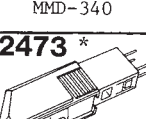
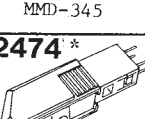
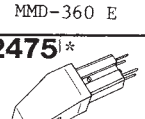
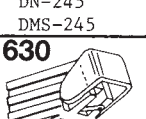
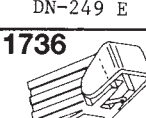
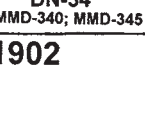
Tonar replacement types for: **DIGITRACK (BY: ORTOFON)**

25 S	25 SP	50 E	50 EP	DIG 280 E	DIG 380 NE	DIG 450 SE	S
1740  black	1741  black	1743  black	1742  black	1649  black	1650  black	1651  black	1805  black

Tonar replacement types for: DREHER + KAUF

101							
1093  black							

Tonar replacement types for: DUAL

CDS-1	DN-1	CDS-2/3	DN-3	DN-4	DN-5;55;56 CDS-630	DN-6;62;63;64	DN-8
57 	59 	58  blue	60  brown	61  green	253 	443 	443 
DN-22	DN-23; 43	DN-24	DN-26; 45	DN-32	DN-34	DN-65	DN-70 CDS-700
236  red	66  gold	62  silver	63  red	64  red	65  silver	443 	504 
M-75 type D M-71 MB-D	M-73 M-G M-75 M-G	DN-85	DN-90; 95 DN-96	DN-110 MCC-110	DN-120 MCC-120	DN-140 S ULM-40 S	DN-145 S ULM-45 S
387  beige	386  grey	443 	67  red	1313  black	1374  grey	911  black	970  black
DN-145 E ULM/TKS 45E	DN-149 S TKS-49 S	DN-150 E ULM/TKS 50E	DN-152 E TKS-52 E	DN-155 E ULM/TKS 55E	DN-160 E ULM/TKS 60E	DN-165 E ULM-65 E	DN-166 E ULM-66 E
970 DE  black	6030  black	1286  black	6030 DE  black	6033 DE  black	6034 DE  black	1405 DE  black	1406  black
DN-201 DMS-200	DN-202 DMS-200	DN-211 DMS-210	DN-212 DMS-210	DN-221 DMS-220	DN-222 DMS-220	DN-235 DMS-235	DN-236 TKS/DMS 236/238
1012  red	1285 DN  78 R.P.M.	732  black	1411 DN  78 R.P.M.	820  red	1328  78 R.P.M.	981  white	6045  black
DN-237 TKS-237	DN-239 DMS-239	DN-241 DMS-240 E	DN-242 DMS-242 E	DN-301;302 SP-1	DN-305;306 M-44 MG	DN-311 V-15 D/AC	DN-314; DN-315 V-15 PD/1
969  black	981  white	1183  orange/brown	821DE  green	45  red	267-7  white	465  grey	275  black
DN-320	DN-325	DN-330 M-91 MG-D	DN-340 DM-101 M-G	DN-345 DM-103 M-E	DN-350 M-20 E	DN-352 V-15 III LM	DN-353 FF-15 MK II D
386  grey	387  beige	401  grey	615  red	623 DE  yellow	1036  black	584 DE  black	1181  red
DN-360 M-95 G-LM	DN-362 D-105 ED	DN-380 E TKS-380 E	DN-390 E TKS-390 E	DN-450 MMP-450	CDS-660; 661 CDS-650; 651	CDS-670;671	DN-20 NE OMB-20
678  grey	762 DE  black	537DE  black	6046 DE  black	6049  black	443 	443 	1631  black
N-20 EO F-20 EO	DN-105 soundburger	DN-167	DN-411	MMD-340	MMD-345	MMD-360 E	DN-245 DMS-245
1546  black	1529  black	1558 DN  black	1549  black	2473 *  black	2474 *  black	2475 *  black	1630  black
DN-249 E	DN-251 S	DN-251 E	DN-163 E	DN-166E; DN-168E	DN-34 MMD-340; MMD-345		
1736  black	1829  black	1831  black	1405  black	1406  black	1902  black		

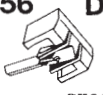
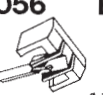
Tonar replacement types for: EAGLE

P 750 E							
734  DE black							

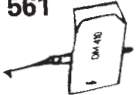
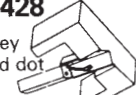
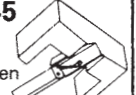
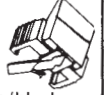
Tonar replacement types for: EDEN

CLARVILLE	OLD MODEL	STEREO	59	62			
72 	68 	70 	69 	71 			

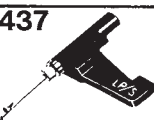
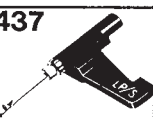
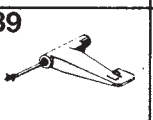
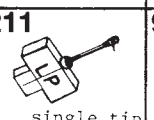
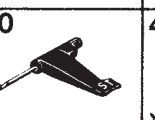
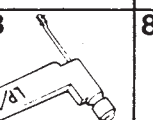
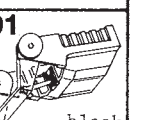
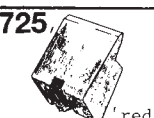
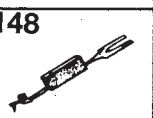
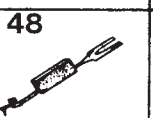
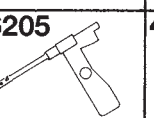
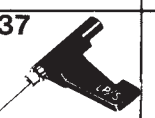
Tonar replacement types for: E.E.I.

EEI-300 H	EEI-400	EEI-500	EEI-700	EEI-800			
6056  naked diamond green	6056 DE  green	6056 ES  yellow	6057 ES  black naked diamond	6162 ES  tr. red			

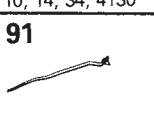
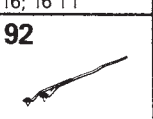
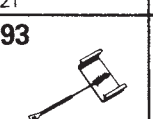
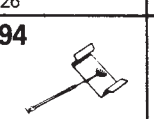
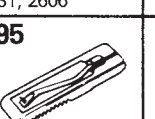
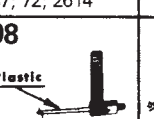
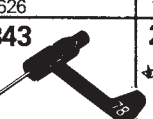
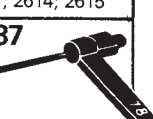
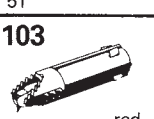
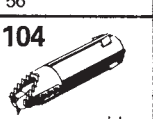
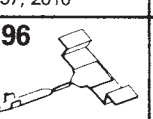
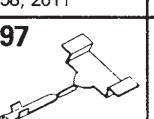
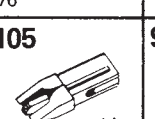
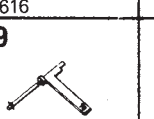
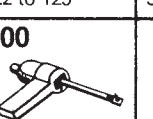
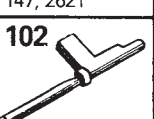
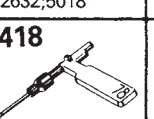
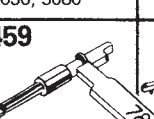
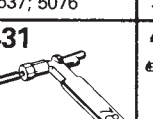
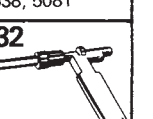
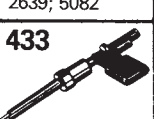
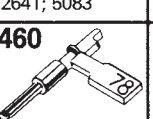
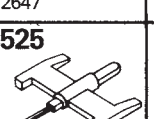
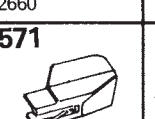
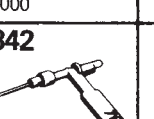
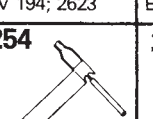
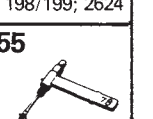
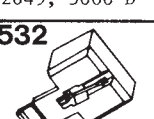
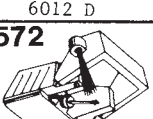
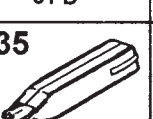
Tonar replacement types for: ELAC

DM-240	DM-410	KST-2	MST-2	SM-101	SM-103	SM-107; SM-110	SN-11
341 	561 	75 	87 	77  stereo	79  stereo	82 	569  single tip
SN-12	SNM-9; SMM-9	SNM-14	SNM-100	SNM-102	SNM-104	SNM-106; 112; 406; KST-112	SNM-402
74 	73 	81 	76  stereo/ standard	78  stereo/ standard	80  stereo/ standard	84 	86  stereo/ standard
STS-210	STS 244-C D 244-C	STS 244-17 D 244-17	STS-322 STS-310	STS 344 D 344	STS 444 D 444	STS 144-17 D 144-17	STS 155-17 D 155-17
83 	427  grey	428  grey red dot	85 	429  white	430  black	745  green	750  black
STS 255-17 D 255-17	STS 355-17 D 355-17	STS 455-12 D 455-12	STS 455-E D 455-E	STS 555-12 D 555-12	STS 555-E D 555-E	STS 655 D-4 D 655 D-4	ESG-792 E DN-792 E
751  green/black	752  red/black	6384  gold/black	6384 DE  gold/black	6385  gold/green	6385 DE  gold/green	6386  SHIBA	6041 DE  black
ESG-793 (E) DN-793 E	ESG-794 (E) DN-794 E	ESG-795 (E) DN-795 E	KST-115	DN-796 H shibata	D-155 S	DN-791	D-355 S
6377  black	1382  black	6370 DE  black	82 	6419  blue gold	1702  black white	6375  silver black	1704  black white

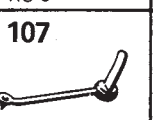
Tonar replacement types for: **ELECTRONIC REPRODUCERS**

ERC-2 SB	ERC-2 SX	ER-5 MX	ER-5 MX 1	ER-5 SB	ERC-5 MB	ER-60	ER-312 X
437 	437 	89 	211  single tip	90 	437 	88  S/d1	891  black
450 M	ERC-750	ERC-800	ERC-900	ERC compat C			
725  red	148 	148 	6205 	437 			

Tonar replacement types for: **ELECTRO VOICE**

10; 14; 34; 4130	16; 16 TT	21	26	31; 2606	37; 72; 2614	37; 38; 47; 72 2626	47; 2614; 2615
91 	92 	93 	94 	95 	98  Plastic	343 	287 
51	56	57; 2610	58; 2611	76	117; 131; 148 2616	122 to 125	32; 141; 149; 2617
103  red	104  blue	96 	97 	105  white	99 	100 	101  Metal
147; 2621	169; 2622	2630; 5015	2632; 5018	2634; 5051	2636; 5080	2637; 5076	2638; 5081
102 	237 	407 	418 	408 	459 	431 	432 
2639; 5082	2640; 5078	2641; 5083	2647	2660	5000	EV 194; 2623	EV 198/199; 2624
433 	434 	460 	525 	571 	342 	254 	255 
2649; 5600 D	2671 D 6012 D	81 D					
532  red	572  red	35 					

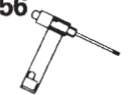
Tonar replacement types for: **E.M.I.**

MULTIPLAY	RS 3						
106 	107 						

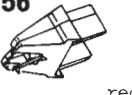
Tonar replacement types for: EMPIRE SCIENTIFIC (AUDIO EMPIRE)

SBC-1	SC-1	SE-1	S-3 D	EDR-7	EDR-9	EXL-10	10 PK
1346 yellow	6072 black	6072 DE black	6297 l. grey	1460 black	1219 black	1208 red	1721 black
10 PE	15-C	MC +2G	25 E	S-40	S-45 E	66/X	66 E/X
1722 black	6311 black	1463 gold	6312 DE blue	6298 blue	6299 DE yellow	626 red	627 DE black
66 QE/X	80 EE	88	90 EE/X	100 S	SBC-100	S-105	108; 108 P
1072 purple	365 DE black	249 black	1021 orange	968 tr. yellow	1723 black	6300 DE black	250 white
S-111	140 C	150 C	150 KC	190 LT	195 LT	200 E	SBC-200
6221 tr. clear	6302 blue	6072 black	6313 clear	1461 clear	6304 tr. yellow	968 DE tr. blue	1717 clear
S-205	S-245 E	S-250 E	S-250 KE	S-290 LT	S-295 LT	S-300 ME	S-300 ELT
6301 white	6303 DE yellow	6072 DE black	6314 DE blue	1462 blue	6305 DE tr. blue	1342 tr. brown	6309 DE red
S-333	S-390 LT	S-395 LT	S-400 TC	S-440 D	S-485 LT	S-500 ID	S-500 PEX
6222 tr. blue	1462 blue	6306 DE smoke	1343 tr. red	1075 blue	6307 DE tr. red	1344 tr. purple	6310 DE red
S-580 LT	S-600 LAC	S-800 UFR	S-800 II		S-808	S-808 E	880 P; 880 PE
1466 gold	1345 black	1466 gold	1457 black	1338 green	365 black	365 DE black	251 nickle/green
888 series	S-900 II	S-900 Mark 2	S-900 GT	S-909 E/X	S-980 LT	S-999 /X	S-999 E/X
345 brown	1458 black	1145 black	1464 black	1022 red	1464 brown	1023 green	1204 green
S-999 PE/X	S-999 SE/X	S-999 TE/X	S-999 VE	S-999 VE/X	S-1000 ZE/X	S-1000 GT	S-1000 GT II
1266 yellow	1024 blue	1104 white	346 DE purple	1025 purple	1026 black	1465 black	1459 black
S-1000 Mark 2	S-1080 LT	S-1085 LT	S-2000	S-2000 E	S-2000 E/I	S-2000 E/II	S-2000 E/III
1309 blue	1465 black	6308 ES black	856 smoke	857 DE tr. red	859 DE green	860 DE blue	667 DE clear
S-2000 T	S-2000 X	S-2000 Z	S-3000	S-4000 D/I	S-4000 D/II	S-4000 D/III	S-5000
947 DE silver	924 DE met. red	793 DE gold	1460 black	858 DE black	861 DE yellow	668 DE white	1219 black

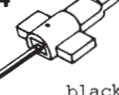
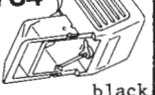
Tonar replacement types for: EUPHONICS

E-1	U-1; J-13 HC	U-8/9	U-8 RB/U-9 RB	U-10/11	U-10 RB U-11 RB	U-12/13	U-15-2
108 	109 	110 	409 	111 	410 	112 	411 
U-15/16	U-17/19						
256 	288 						

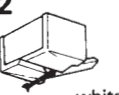
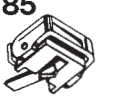
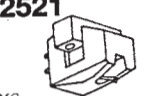
Tonar replacement types for: EUROFUNK

EF-85	EF-404	EF-505	EF-606	EF-707			
756  red	756  red	792  yellow	792 DE  tr. red	792 ES  tr. clear			

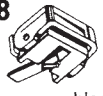
Tonar replacement types for: EUROPHON

148 	374  black	524  black	974  yellow	734  black	6191  red	951  white	

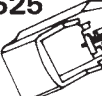
Tonar replacement types for: EXCEL

ES-70 E	ES-70 EX	ES-70 EX-4	ES-70 F	ES-70 S	ES-70 H	QD-700 CR	QD-700 ER
528 DE  red	529 DE  transp. grey	530 ES  red 4-channel	527  yellow	526  blue	680  red	608  blue	609 DE  orange
QD-700 XR	QD-700 FR	ME-35	ME-45	ME-55	ME-65	ESP-300 C	ESP-300 E
610 ES  4-channel yellow	670  green	632  white	809  blue	837  red	921  clear	6026  tr. grey	6025 DE  tr. clear
ESP-300 X	S-75 CR ME-75	S-700 DR ES-700 D	S-65 XR ME-65 X	S-75 QL	ES-750 L	MC-100 E	ESP-250
6025 ES  tr. purple	6184 	6185 	6231 ES  tr. purple	6232 ES  yellow	6275  yellow	2521  black	6261  orange

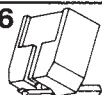
Tonar replacement types for: EXPERT

EXPERT		popular	ellipse	disco	quadro	super	78 RPM needle for: DISCO and SUPER
555  green	738  black	555  green	555 DE  black	728  blue	550 ES  white	684 ES  black	736  green
78 RPM needle for: popular ellips and quadro							
737  green							

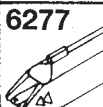
Tonar replacement types for: FIDELITY

			F	T-50 HS			
801 DS  black	625  blue	442  516 TP	1093  black	6038  grey	6175  red		

Tonar replacement types for: FIDELITY RESEARCH

S-5	FR-5 E	FR-101	FR-6 SE				
1365  black	1366  black	1447  black	1467  black				

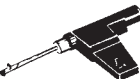
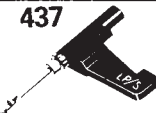
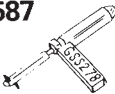
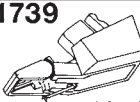
Tonar replacement types for: FISHER, See: SANYO
Tonar replacement types for: FISHER PRICE

power point	power point						
6277  green	6277  red						

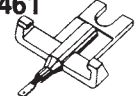
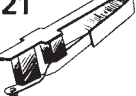
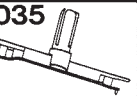
Tonar replacement types for: FONICA

UF-50	UF-70						
299  red	6262  red						

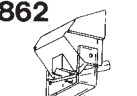
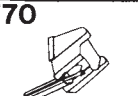
Tonar replacement types for: FUJIYA AUDIO, See: N.E.C.
Tonar replacement types for: GARRARD

GC-2	GC-8	GC-12	GCM-21-22; GKM-22	GCM- 21 T-22 T; GCS-23 T; TS-1; TS-2-3		GCM-31; GSS-1; GCS-35/36	GCS-10
113 	116 	118 	436 	438 		435 	117 
GCS-23; GKS-25-26	GCS-38; GSS-2	KS-40 A	KS-41 B	KS-41 C	TOM-1	TOM-2	GMC-50 C
437 	587 	462 	585 	586 	114 	115 	830  blue
ATN-936	GS-22	GS-22 E	GC-11	GA-150	GSN-66 E gradiente		
676  white	904  black	904 DE  black	6004  blue	831  yellow	1739  black		

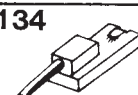
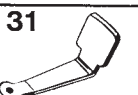
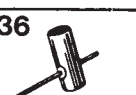
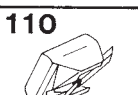
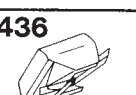
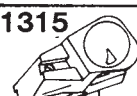
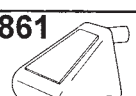
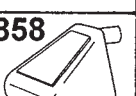
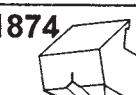
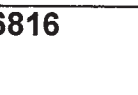
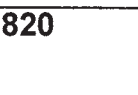
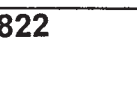
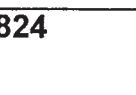
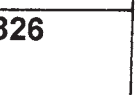
Tonar replacement types for: GENERAL ELECTRIC

C-100	C-200	C-500	C-650	C-660	GC-7	RPJ-047	RPX-040
126 	127 	129 	300 	461 	124 	121 	119 
RPX-047; 050	VR-II/G-15	VR-II; 4 G	VR-22	VR-1000-7	VR-II/G-16		
120 	122  G-15 only!	123 	125 	128 	6035  G-16 only!		

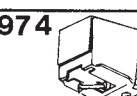
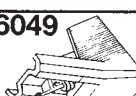
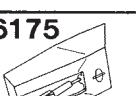
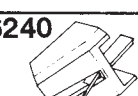
Tonar replacement types for: GLANZ

MG-20 R	MG-30 R	MG-50 R	MG-55 R	MG-70 R			
862  orange	888  red	730  white	711  blue	770  red			

Tonar replacement types for: GOLDRING

MX 1/2	SX-10	CM-60; CS-80	CS-90; CS-91 E	200	500	580; 600	700
133 	351 	135 	134 	131 	130 	132  red	136 
NG-2	NG-2 E	G-800	G-800 E	G-800 Super E	G-800 H	G-820	G-820 DJ
1108  black	1109  beige	352  white	594 DE  grey	593 DE  grey	476  red	565  lilac	1314  DISCO DUTY red
G-820 E	G-820 SE	G-850	G-850 E	G-900 SE	G-900 IGC	G-910 IGC	G-920 IGC
682 DE  beige	1317  yellow	463  red	463 DE  grey	1110  grey	1316  tr. green	1436  tr. orange	1410  tr. purple
G-950	G-950 E	EPIC	G-900 SE MK II	1010; 1012GX	1020; 1022GX	1040; 1042	1006
1315  yellow	1429  grey	1449  black	1492  black	1859  black	1860  black	1861  black	1858  black
G-900 SR	EPIC DJ-E	ELECTRA	2100	2200	2300	2400	2500
1699  tr. green	1706  red	1874  black	6816  black	6820  black	6822  black	6824  black	6826  black

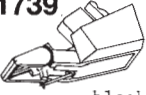
Tonar replacement types for: GOLDSTAR

974  yellow	6049  black	6175  red	6240  purple IM				

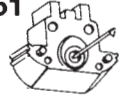
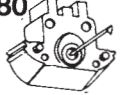
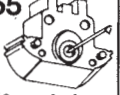
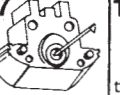
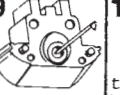
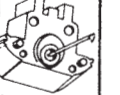
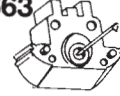
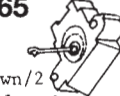
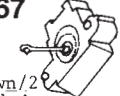
Tonar replacement types for: GRACE

F-8; F-21	F-9 L						
502  clear	1636  clear						

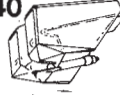
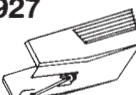
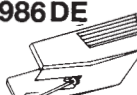
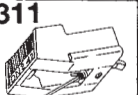
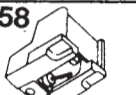
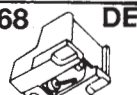
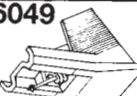
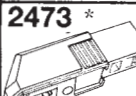
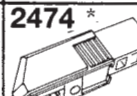
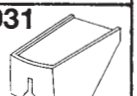
Tonar replacement types for: GRADIËNTE

GSN-66 EMC							
1739  black							

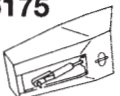
Tonar replacement types for: GRADO

B-SERIES	F-SERIES	FE-SERIES	MTE +/S	MTE +1/S	MF 3E +/S	MF 2 +/S	MF 1 +/S
468  grey	551 	1180  tan	1655  tan/2 red dots	1656  tan/2 silv.dots	1657  tan	1659  tan/2 white dots	1661  tan/2 blue dots
M +/S	M 1 +/S	M 2 +/S	GTE +/S	black; green			
1663  brown	1665  brown/2 yellow dots	1667  brown/2 gold dots	1669  78 r.p.m.	551 DE			

Tonar replacement types for: GRUNDIG

P-24	ATN-102	ATN-102 EP	DN-235	DN-236	GP-500 MK II		
940  tr.orange	927  grey	986 DE  green	981  white	1311  black	534  black	758  yellow	768 DE  green
		DN-239		MG-44 J	MMD-340	MMD-345	P-30 S
832  red	910  red	981  white	6049  black	6063 	2473 * 	2474 * 	6031 
MG-45	GP-330						
6063 	994 						

Tonar replacement types for: HAITAI

					ATN-3651 F	3609 GY	
6175  red	974  yellow	6049  black	758  yellow	6164  orange	6166  yellow	6237  grey	

Tonar replacement types for: HANDIC

V-307							
769  blue							

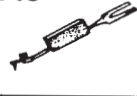
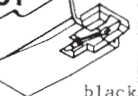
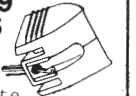
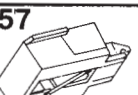
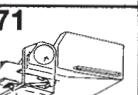
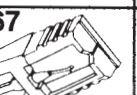
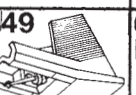
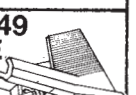
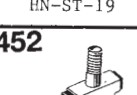
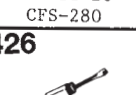
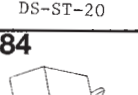
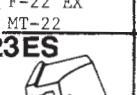
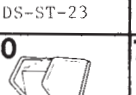
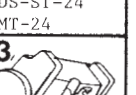
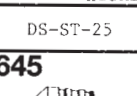
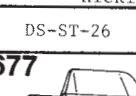
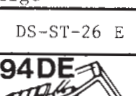
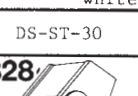
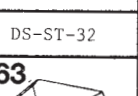
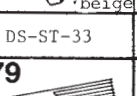
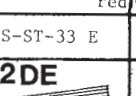
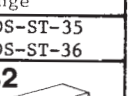
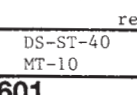
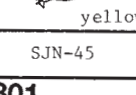
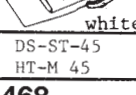
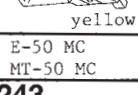
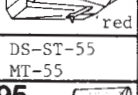
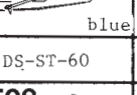
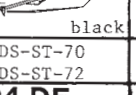
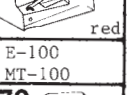
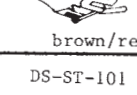
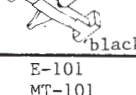
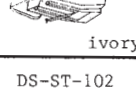
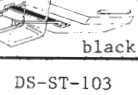
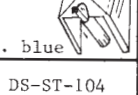
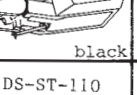
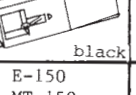
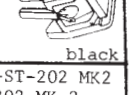
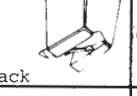
Tonar replacement types for: HAPE

MD-4							
725  red	444  white						

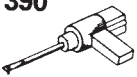
Tonar replacement types for: HENFAI

372 							

Tonar replacement types for: HITACHI

DS-ST-2 148 	DS-ST-3 MFS-170/171 296  white	DS-ST-5 596  white	HN-ST-6 6001  white	HN-ST-7 681  black	DS-ST-7 974  yellow	DS-ST-9 148 	F-11 MT-11 F 509 ES  white
DS-ST-12 DS-ST-14 581  grey	DS-ST-13 MT-13 986DE  green	DS-ST-15 939  white	DS-ST-16 957  black	DS-ST-17 871  red	SJN-18 767  white	DS-ST-18 R 6049  black	DS-ST-18 6049 DE  black
HN-ST-19 452  nickle	HN-ST-20 CFS-280 426  nickle	HT-20 S 978  beige	DS-ST-20 784  white	DS-ST-20 E	F-22 EX MT-22 723ES  beige	DS-ST-23 770  red	DS-ST-24 MT-24 763  orange
DS-ST-25 645  red	DS-ST-26 677  yellow	DS-ST-26 E 894DE  white	DS-ST-30 828  yellow	DS-ST-32 963  red	DS-ST-33 979  blue	DS-ST-33 E 982DE  black	DS-ST-35 DS-ST-36 832  red
DS-ST-40 MT-10 601  brown/red	SJN-45 801  black	DS-ST-45 HT-M 45 1468  ivory	E-50 MC MT-50 MC 1243  black	DS-ST-55 MT-55 695  tr. blue	DS-ST-60 1598  black	DS-ST-70 DS-ST-72 294 DE  black	E-100 MT-100 1470  black
DS-ST-101 607  ivory	E-101 MT-101 1469  black	DS-ST-102 711  blue	DS-ST-103 734  black	DS-ST-104 748 DE  blue	DS-ST-110 1093  black	E-150 MT-150 1484  black	DS-ST-202 MK2 E-202 MK 2 1472  black
RT-8500 6180  orange				DS-ST 8 6180  orange	HT-300 6348 orange  orange		

Tonar replacement types for: H.M.V.

HMV-1	HMV-2						
390 	391  long arm, double tip						

Tonar replacement types for: INKEL

PD-40	PD-607	JB-2000	JB-4000 JB-5000	ATN-3710		ATN-102 P	ATN-122 EP
832  red	904  black	865  orange	956  red	879  red	895  brown	927  grey	6109 DE  brown
ATN-3482 P	PD-608						
6126  yellow	917  red						

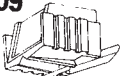
Tonar replacement types for: INTEL

374  black							

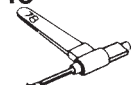
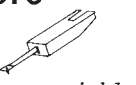
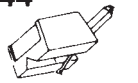
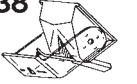
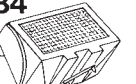
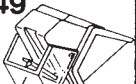
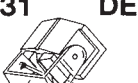
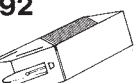
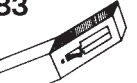
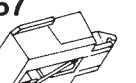
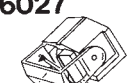
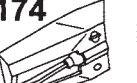
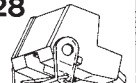
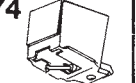
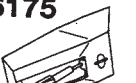
Tonar replacement types for: ISKRA

180 							

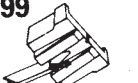
Tonar replacement types for: I.T.T. - GRAETZ

ME-45-77	AT-70	AT-71	AT-12 XE	AT-13 E	ATN-50		ST-30
809  blue	795  red	758  yellow	781 DE  l.brown	794 DE  orange	904  black	832  red	6016  blue
			AP-591	ST-40			
673  red	6239  blue	6259  red	6208  purple	917  red			

Tonar replacement types for: JAPAN COLUMBIA (DENON)

DSN-1; SJN-1	JTS-1/5; DTS 1/5	JTS-3	DSN-3	DTS-4	DSN-4	DSN-5	DSN-6
148  nickle	349  nickle	272  nickle	6073  nickle	6074  nickle	6075  nickle	6076  nickle	6077  white
DSN-7 DSN-8	DSN-9	DSN-10; DSN-13	DSN-11	DSN-14	DSN-16; SJN-16	DSN-22	DSN-24; GN-20
6078  white	6192  white	296  white	6087  grey	644  red	452  nickle	786  grey	499  red
DSN-28	DSN-32	DSN-34	DSN-35	SJN-18 DSN-38	DSN-39	DSN-40	DSN-41
677  yellow	6079  orange	705  ivory	371  white	767  white	758  yellow	6080  white	772  tr. black
DSN-42	DSN-44	SJN-45 DSN-45	DSN-46	DSN-47	DSN-48	DSN-50	DSN-51
892  black	823  black	801  black	6351  white	937  orange	938  tr. orange	834  orange	949  orange
DSN-54	DSN-55	DSN-57	DSN-60	DSN-61	DSN-62	DSN-63	DSN-85
741DE  green	475  orange	980  red	931  white	692  grey	983  grey	957  black	6910  white
DSN-65	DSN-66	DSN-67	DSN-68	DSN-69	DSN-70; SJN-68	DSN-71	DSN-72
6027  brown	6016  blue	6233  blue	6084  red	877  orange	6174  red	828  yellow	974  yellow
DSN-73	SJN-75	JN-78 K	DSN-80 DL-80 A	DSN-25	ATN-3400	DSN-36	DSN-81
885 DE  tr. clear	6175  red	974  yellow	1672  red	6269  orange	832  red	6349  white	6353  grey

Tonar replacement types for: JELCO

MCI-5	SMC-101	MC-9	MC-12	MC-14	MC-15	4C-1X	D
538  grey	533  grey	573  brown	699  red	637  red	700  green	701  yellow 4-channel	637  red
MC-45 D	D	MC-29		TC-812 E	MC-50 D		
952  red	908  black	6255  red	6268  black	792 DE  red	6274  black		

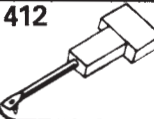
Tonar replacement types for: **JENSEN**

409C; 64-1	J-2T		B-2735				
276 	343 		42 				

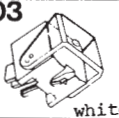
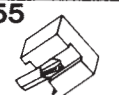
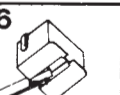
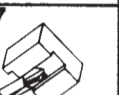
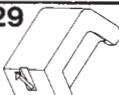
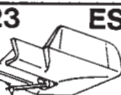
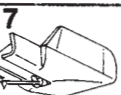
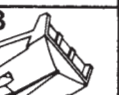
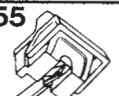
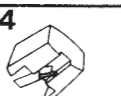
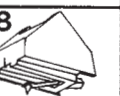
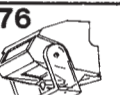
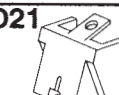
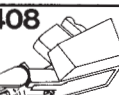
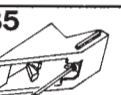
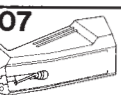
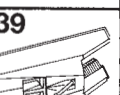
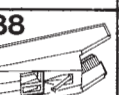
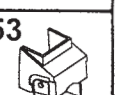
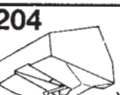
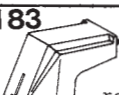
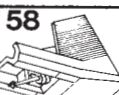
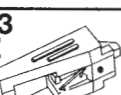
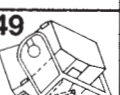
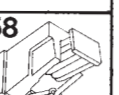
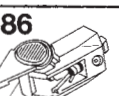
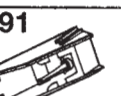
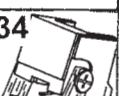
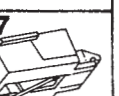
Tonar replacement types for: **J.V.C., See: NIVICO**

Tonar replacement types for: **JUKEBOXES, See: N.S.M., Schuman, Seeburg, Zenith types**

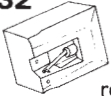
Tonar replacement types for: **K.D.**

69							
412 							

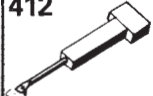
Tonar replacement types for: **KENWOOD**

N-6 AT	N-11	N-15 O MK II	NF-15 O MK II	N-20	N-23	N-25	N-26
296  white	758  yellow	803  white	802  red	780  white	445  grey	654  l. grey	771  black
N-30	N-31	N-32; N-33	N-34	N-35	N-36	N-37	N-38
654  l. grey	655  black	571  white	541  white	686  brown/silver	656  dark grey	657  red	325  scarlet
N-39	N-39 MK II	N-39 MK III	N-40	N-41	N-42	N-43	N-44
326  orange	958  black	829  black	323 ES  4-channel	677  yellow	323 ES  4-channel	658  blue	688 ES  4-channel
N-45	N-46	N-47	N-48	N-49	N-50	N-51 E	N-52
1493  MC	755  black	730  white	758  yellow	764  orange	908  black	908 DE  black	6008  blue
N-53/V-53	N-54	N-55	N-56; N-56 B	N-57	N-58	N-59	N-77
876  black	6021  blue	1408  MC blue	935  black	1407  green/black	6139  IM black	6138  MM dark grey	6353  grey
N-61	N-62; V-62	N-63	N-64	N-64 C	N-65	N-66	N-67
6204  MM blue	6183  red blue	6158  blue	393  black	393 DE  black	6249  green	6257  MM red	6258  MM red
N-68	N-69	N-70	N-71	N-72	N-73	N-74	N-75
6283  blue MM	6259  red	1586  grey	6291  black	6335  blue	6204  MM purple/blue	6334  black	957  black

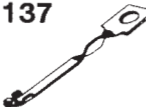
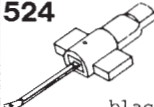
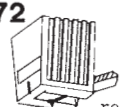
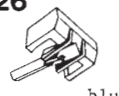
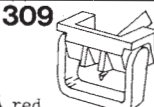
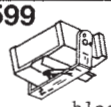
Tonar replacement types for: **K.L.H.**

832  red							

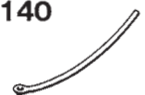
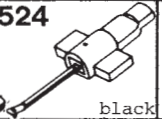
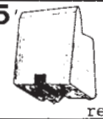
Tonar replacement types for: **K.S.M.U.**

0261	KD-69						
448 	412 						

Tonar replacement types for: **LENCO**

single	double	RCS Pop Stereo	M-94	M-95	M-100	M-100	M-150
137  M-200	138  M-300	524  black M-350	672  red OMB-20	463  red GS-11	526  blue M-400; M-550	527  yellow L-3807 USB	565  purple L-3866 USB
309  red	1599  black	1599  black	1253  black		1835  black	6259  red	6259  red

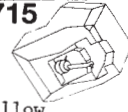
Tonar replacement types for: **LESA**

A	B	C-1	D	E	F-3	F-5	K-2
139  K-3	140  K-3 New Version	512  S	137  U	141  U-2	344  W	310 	212 
592 	368  black	144 	142 	143 	257 	524  black	725  red

Tonar replacement types for: LESON

LESON							
434  grey							

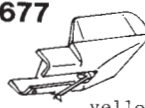
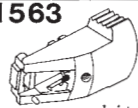
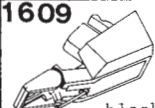
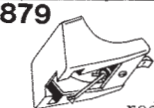
Tonar replacement types for: LIN SONDEK

K-5	K-9 4-channel	K-18 4-channel					
1793  grey	1715  yellow	1794  grey					

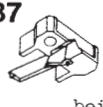
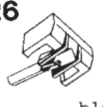
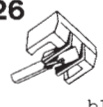
Tonar replacement types for: L.O.D., See: HITACHI
Tonar replacement types for: LUSTRE

L-1							
457 							

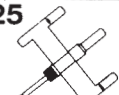
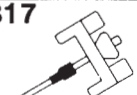
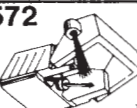
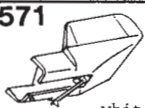
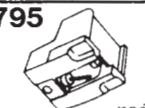
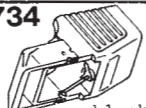
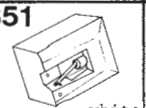
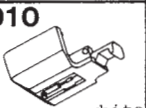
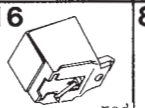
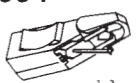
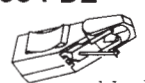
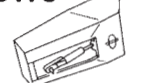
Tonar replacement types for: LUXMAN

	ATS-11	ATN-71 E	N-310 C	N-320 C	ATN-3710		
974  yellow	677  yellow	768 DE  green	1563  white	1609  black	879  red	957  black	6156  black

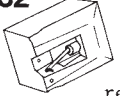
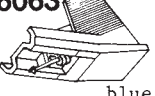
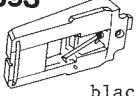
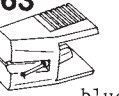
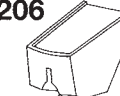
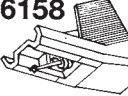
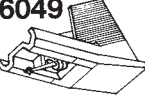
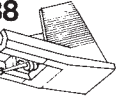
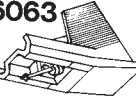
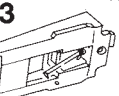
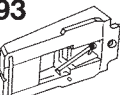
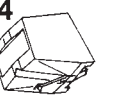
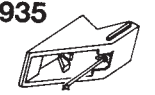
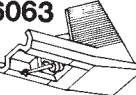
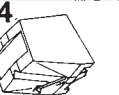
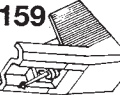
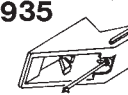
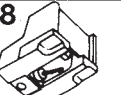
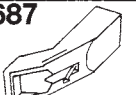
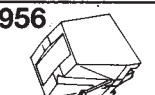
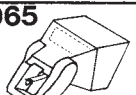
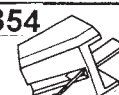
Tonar replacement types for: LUXOR

3200	3823	3831; 3833	8000	36200	65977	72411	72786
465  grey	387  beige	526  blue	802  red	526  blue	148 	145 	146 
74916							
147 	758  yellow						

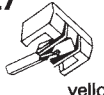
Tonar replacement types for: MAGNAVOX

560101	560151/560133	560161	560247	560305	560344/45	560347-1	560348
150 	149 	151 	200 	277 	303 	525 	317 
560398	560356	560369	560418	560429	560434	25130071	5604370033
572  red	571  white	795  red	734  black	851  white	910  white	916  red	801  black
25130079	25130081		5690300003	5604370111			
994  black	994 DE  black	6175  red	6172  red	6111  white			

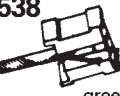
Tonar replacement types for: **MARANTZ**

CT-5 S	CT-6 S	CT-100	TT-130 TT-221	TT-140	TT-143	TT-151	TT-151
832  red	922 DE  green	993  tr. clear	384  black	6063  blue	393  black	981  white	6163  blue
TT-153	CT-165	TT-170	TT-185 CTS-165	TT-221	TT-240	TT-243	TT-251
6206  orange	6158  blue	6049  black	388  dk. blue	384  black	6063  blue	393  black	6163  blue
TT-253	TT-275	TT-285	CT-300 TT-320	TT-333	CT-340; TT-340 TT-440	TT-351	CTS-420
393  black	6234  IM red	957  black	384  black	935  black	6063  blue	6163  blue	384  black
TT-430	TT-433 TT-443	TT-451	500	CS-500	TT-520	TT-525	TT-530
6159  dk. green	935  black	6163  blue	758  yellow	973  white	687  blue	687  blue	6026  grey
TT-551	CT-551	TT-553	TT-873				
6163  blue	6260  MM blue	935  black	957  black	956  red	965  tr. green	6354  black MM	

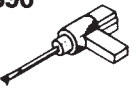
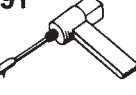
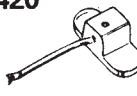
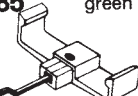
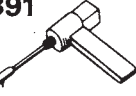
Tonar replacement types for: **MARLUX**

NM-106	MC-500	NM-33			SX-50S	MX-66	
661  grey	666  green	296  white	527  yellow	789  red	792  tr. yellow	1108  black	

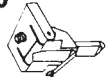
Tonar replacement types for: **MASTERCRAFT**

MCI-5	SJN-1	SMC-101					
538  green	270 	533  grey					

Tonar replacement types for: **MERULA**

FANFARE	HMV-1	HMV-2	SC-474	SK 451	SK 452	SK 453	SK 456; STK 494
182 	390 	391 	153 	183 	184 	185 	186 
STC-480	STC-485/486	STC-487	STC-488	STK-490	STK-495/1	STC-481	
420 	414  Jupimatic	493  black	685  green	152 	239 	391 	

Tonar replacement types for: MICRO

SC-301	M-207	V-2100	V-3100	V-3200	V-3300/7	V-307; V-7000	VP-1; V-8; V-10; V-70
359  new yorker	399  white	598  red	400  grey	636  red	735  black	769  turquoise	775  black
V-5	V-20	V-40	V-7; LF-7	V-307 IM type	V-3200 E V-3200 XE	V-1100 V-1110	
776  blue	777  black	852  black	918 DE  black	6013  IM beige	636 DE  red		

Tonar replacement types for: MICRO ACOUSTICS

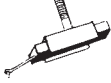
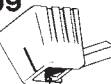
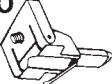
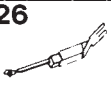
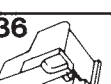
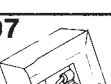
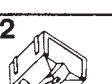
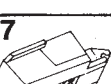
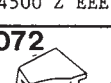
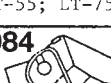
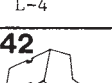
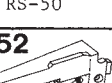
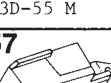
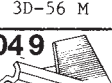
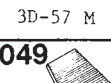
(STYLI AVAILABILITY IS ERRATIC)

QDC-1E; QDC-1S 282 E; 530 MP	MA-282 E	QDC-1E; QDC-1S	309; 382; 3002 630; 830 CSA	50-PE (T4P)	100 E	2002 E	
1754  black	1754  black	1754  black	 no longer available	6310  red	 no longer available	1754  black	

Tonar replacement types for: MISSION

773 MM	774	SOLITAIRE					
637  red		6268  black					

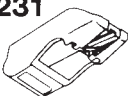
Tonar replacement types for: MITSUBISHI

MD-1	3D-MM 1	MD-2	3D-MM2	STYLUS 5 LMT-5	3D-20 M; ST-15; SP-16	SJN-16	SJN-18
649 DE  beige	6121  black	649  brown	1276  black	1319  black	148  black	452  black	767  white
3D-23 M	3D-24 M	3D-25 M	3D-26 M	3D-28 M	3D-29 M	3D-30 M	3D-31 M
399  white	399  white	566  white	1490  white	400  ivory	6088  white	647  green	646  green
ST-11; 3D-32 M	3D-33 M	3D-34 M	3D-37 M	3D-38 M	3D-40 M	3D-42 M	3D-44 M
426  black	582  green	674  green	649  brown	706  green	571  ivory	936  black	771  black
3D-45 M	3D-46 M	3D-47 M	3D-48 M	3D-50 M	3D-51 M	3D-52 M	3D-54 M
936  black	6009  brown	897  brown	822  white	913  black	957  black	985  blue	935  black
4500 Z EEE	LT-55; LT-75	STP-607 M	L-4	RS-50		3D-55 M	3D-56 M
1072  purple	6084  red	 red	6042  blue	6152  black	6144  smoke grey	957  black	6049  black
3D-57 M							
6049  black	981  white						

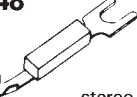
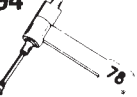
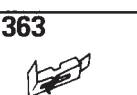
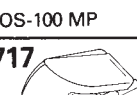
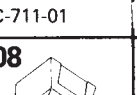
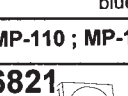
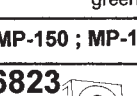
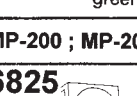
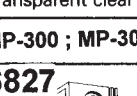
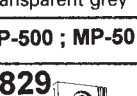
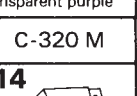
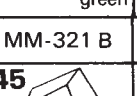
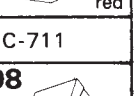
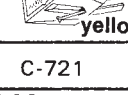
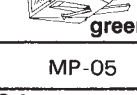
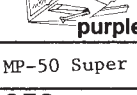
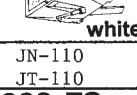
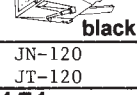
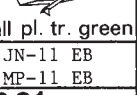
Tonar replacement types for: MULTITECH

M-22							
6242  yellow							

Tonar replacement types for: N.A.D.

NAD 9100	NAD-9200	NAD-9300	TT-533	520			
1231  grey	1231  grey	1391  grey	1874  red	1834  red			

Tonar replacement types for: NAGAOKA

JT-311	JT-322	NC 100; 202; 203 NC 505; 400; 400H	NC 202; 203; 400 NC 400 H	NC-700	NC-770	NM-11 A	NM-22
555  green	550 ES  4-channel white	27 	148  stereo	494 	270 	222 	263  white
NM-33	NM-33-A	NM-66	NR-1	JT-333	JT-511	JT-555	JT-511 BE
296  white	453  blue	447 DE  grey	363 	683 ES 	664  red	684 ES  black	746 DE  yellow
JT-511 DJ	78 RPM needle for: JT-511 series; JT-555	78 RPM needle for: JT-311; JT-322	OS-100 MP	OS-200 MP	OS-300 MP	C-711-01	MP-100 ; MP-10
728  blue	736  green	737  green	717  transparent clear	719 DE  transparent grey	721 DE  solid black cantilever transparent purple	808  green	6819  red
MP-110 ; MP-11	MP-150 ; MP-15	MP-200 ; MP-20	MP-300 ; MP-30	MP-500 ; MP-50	C-320 M	MM-321 B	C-711
6821  yellow	6823  green	6825  purple	6827  white	6829  black	914  all pl. tr. green	945  tr. green	808  MM green
C-721	MP-05	MP-50 Super	JN-110 JT-110	JN-120 JT-120	JN-11 EB MP-11 EB		
943  IM green	944  purple	1250  black	6003 ES  black	6151 	1601 		
NMP-1.0 MIL	NMP-2.0 MIL	NMP-2.5 MIL	NMP-3.0 MIL	NMP-3.5 MIL	NMP-4.0 MIL		
6837  MONO	6839  78 RPM	6845  78 RPM	6835  78 RPM	6841  78 RPM	6843  78 RPM		

Tonar replacement types for: NATIONAL (PANASONIC, TECHNICS)

EPS-02 C-103 6123 	EPS-04 LP EPC-27 WTGS 5 148 	EPS-04 ST EPC-29 TTGS 1 148 	EPS-04 ST EPC-29 TTBS 4 148 	EPS-04 ST EPC-69 STA;STC 148 	EPS-04 STSD EPC-29 TTES 5 148 	EPS-05 EPC-05; EPC-08 269  nickle	EPS-05 ST EPC-01 TTC 269  nickle
EPS-05 ST EPC-30 TTA 269  nickle	EPS-08 397  black	EPS-10 EPC-83 SMAD 397  black	EPS-10 STDD EPC-83 SMED 397  black	EPS-11 EPC-81 STSD EPC-95 SSAD 648  nickle	EPS-11 STSD EPC-81 STBD 648  nickle	EPS-12 397  black	EPS-13 EPC-34 TTAD 372  black
EPS-13 TT EPC-35 TTA 372  black	EPS-13 TTSD EPC-35 TTAD 372  black	EPS-14 ST EPC-34 STC 374  black	EPS-14 STSD EPC-34 STCD 374  black	EPS-14 STSD EPC-34 STBD 374  black	EPS-18 ST EPC-34 STFA 618  white	EPS-18 STSD EPC-34 STFAD 618  white	EPS-19 EPC-40 STBD 606  black
EPS-19 STSD EPC-40 TTBD EPC-40 STBD 402  black	EPS-22 CS-1025 426  nickle	EPS-22 ES EPC-P 22 S 885 DE  tr.clear	EPS-22 ES EPCP 202 CBK 885 DE  tr.clear	EPS-23 CS EPC-P 23 S;SK 885  tr.clear	EPS-23 CS; ES EPC- P 23 885  tr.clear	EPS-24 CS EPC- P 24 940  tr.orange	EPS-24 STSD EPC-95 SSED 451  nickle
EPS-25 EPC-42 516  grey	EPS-25 CS EPC-U 25 S;SK 6023  tr.brown	EPS-25 CS U-25; H-25 6023  tr.brown	EPS-25 STSD EPC-42 STAD 516  grey	EPS-27 EPC-09 STAD 842  white	EPS-27 CS EPC-P 27 959  tr.yellow	EPS-28 EPC-96 SS 600  yellow	EPS-28 CS EPC-P 28 959  tr.yellow
EPS-30 STSD EPC-82 SMAD 677  yellow	EPS-30 CS EPC-P 30 6031  blue	EPS-31 SPSD 741  green	EPS-31 STSD EPC-82 SMBD 571  white	EPS-33 ES EPC-P 33 6032  grey	EPS-34 STSD EPC-78 SMAD 748 DE  blue	EPS-35 STED 748 DE  blue	EPS-35 STSD EPC-78 SMBD 568  red
EPS-36 STSD EPC-05 STA 629  white	EPS-37 EPC-37 376  white	EPS-39 STSD 850  white	EPS-41 STSD EPC-41; EPC-13 951  white	EPS-43 STSD 991  grey	EPS-45 STQD EPC-450 C 630 ES  4-channel grey	EPS-46 STSD EPC-460 C 650  yellow	EPS-46 STQD EPC-460 C 4 621 ES  4-channel grey
EPS-50 EPC-84 SM 759 DE  black	EPS-51 EPC-85 SM 759 DE  black	EPS-51 CS EPC-P 51 S 6117  red	EPS-52 EPC-86 SNAD 599  orange	EPS-53 EPC-87 SMAD 6119 DE  tr.clear	EPS-P 53 CS EPC-P 53 S 6118  tr. red	EPS-54 EPC-88 SMAD 759 DE  black	EPS-56 EPC-79 SMAD 749  blue
EPS-74 STED EPC-74 SMED 760 DE  blue	EPS-74 STSD EPC-74 SMAD 758  yellow	EPS-75 SMLD 6064  orange	EPS-75 STSD EPC-75 SMAD 832  red	EPS-75 STCSD EPC-75 851  grey	EPS-75 STHSD 991  dark grey	EPS-75 TFSD 898  yellow	EPS-76 STED 851  grey
EPS-76 STSD 831  yellow	EPS-90 SMAD 986 DE  green	EPS-90 SMBD 927  grey	EPS-90 STGD 927  grey	EPS-90 STGED 986 DE  green	EPS-91 SMAD 581  white	EPS-100 ED 2 1369  black	EPS-100 ED 4 EPC-100 C MK 4 1501  black

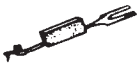
CONTINUED

Tonar replacement types for: NATIONAL (PANASONIC, TECHNICS)

CONTINUED

EPS-P 100 ED 4 EPC-P 100 CMK 4	EPS-202 ED EPC-P 202 C	EPS-205 ED EPC-205 C II S	EPS-205 ED EPC-205 C2 LKX	EPS-205 ED EPC-205 C2 SKX	EPS-205 EX EPC-205 C II	EPS-205 ED 3 EPC-205 C MK 3	EPS-205 ED 4 EPC-205 C MK 4
1502  tr.clear	885 DE  tr.clear	759 DE  black	766 DE  gold	766 DE  gold	766 DE  gold	766 DE  gold	1503  gold
EPS-P205 ED 3 EPC-P205 C MK 3	EPS-P205 ED 3 EPC-P205 C3K	EPS-P205 ED 4 EPC-P205 C MK 4	EPS-206 C	EPS-206 ED EPC-206 CK	EPS-207 C	EPS-207 ED EPC-207 C	EPS-207 ED EPC-207 C II
1504  tr.clear	1504  tr.clear	1504  tr.clear	886  black	886 DE  black	841  black	841 DE  black	841 DE  black
EPS-207 ED EPC-207 CK	EPS-270 SD EPC-270 CK;CX;	EPS-270 SD EPC-270 C; D	EPS-270 ED EPC-270 C II	EPS-270 ED EPC-270 C2K-X	EPS-270 ED EPC-271 C	EPS-270 ED EPC-271 CES	EPS-270 ED EPC-271 CS-X
841 DE  black	757  tr.green	757  tr.green	757 DE  tr.green	757 DE  tr.green	757 DE  tr.green	757 DE  tr.green	757 DE  tr.green
EPS-275 EPC-09 STAD	EPS-290 SD EPC-290 C	EPS-310 MC EPC-310 MC	EPS-310 MC 2 EPC-P 310 MC 2	EPS-405 QD EPC-405 C	EPS-440 QD EPC-440 C	EPS-450 QD EPC-450 C II	EPS-451 QD EPC-451 C
842  white	599  tr.orange	1521 No longer available	2237 No longer available	759 ES  4-channel, black	599 ES  4-channel, clear	1544  clear 4-channel	628 ES  4-channel, red
EPS-510 CS EPC-P 510 S	EPS-520 ES EPC-P 520	EPS-530 ES EPC-P 530	EPS-540 ES EPC-P 540	EPS-550 ES EPC-P 550		EPS-24 ES EPC-P 24	
6031  green	6031 DE  blue	6340 DE  grey	6341 DE  gold/black	6342 DE  red gold		940 DE  tr. orange	
P-30 S	EPC-P 328	EPC-P 511 S	EPC-01 WTB	SPJ-4	EPS-55 CS	P-34; EPS-34CS	EPS-1200 CS
6031  blue				148 	6284  tr. green	6049  black	6855 (DJ)

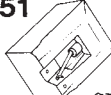
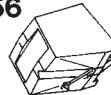
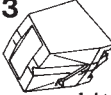
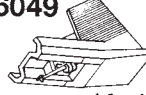
Tonar replacement types for: NEAT

N-100	VS-700; V-70; VS-90	VS-80					
148 	389 	526 	533  grey				

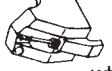
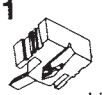
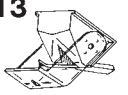
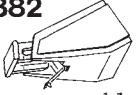
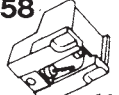
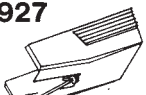
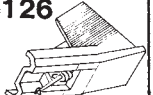
Tonar replacement types for: NEUFUNK

368 	293 						
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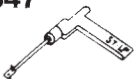
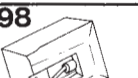
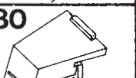
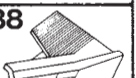
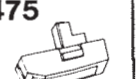
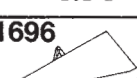
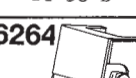
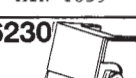
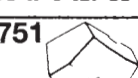
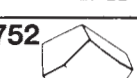
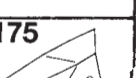
Tonar replacement types for: NIKKO

851  grey	956  red	973  white	801  black	6049  black	6239  blue		
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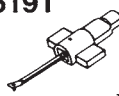
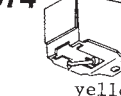
Tonar replacement types for: NIPPON ELECTRIC COMPANY (N.E.C.)

LP-5 D; SP-5 S	LP-10 D	SP-15 S; LP-15 D	LP-20 D	LP-25 D	LP-30 D	LP-35 D	LP-40 D
269 	397  black	148 	296  white	367  white	786  grey	653  black	456  white
LP-45 D	LP-50 D	LP-55 D	LP-60 D	LP-65 D	LP-70 D	LP-75 D	LP-305 M
641  black	711  blue	578  black	822  white	730  white	834  orange	813  red	382  blue
LP-310 D	LP-335 D LP-355 D	LP-735 D	LP-5100 D	LP-6000 D	LP-6100 D	LP-6300 D	LP-7000 D
937  orange	832  red	758  yellow	651  MM	760  blue	726  green	726  1. brown/green	568  red
LP-8000 D	LP-8300 D	AT-3472 P					
741  green	637  red	581  white	927  grey	673  red	956  red	6126  yellow	

Tonar replacement types for: NIVICO

DT-1	DT-2	DT-7	DT-11; SS-11	DT-12	DT-13	DT-15	DT-16
347  ST-17	348  black	148 	510  white	6089  white	6090  white	6093  nickle	296  white
DT-17	DT-18	DT-19	DT-20	DT-21	DT-22	DT-23	DT-25 H
348  black	6094  white	6091  MM white	426  nickle	6108  IM blue	6092  white	659  black	552  IM red
DT-26	DT-27	DT-29	DT-30 S	DT-31	DT-32	DT-33 G	DT-33 H
639  white	596  IM red	595  MM red	853  IM blue	571  white	660  green	640  green	545  yellow
DT-33 S	DT-34 S	DT-36	DT-37 MD-1034	DT-38	DT-39 E	DT-41 LE-500;LE-600	DT-45
509  white	720  black	813  red	906  blue	898  yellow	923  black	930  purple	388  dark blue
DT-45 E	DT-50	DT-51	DT-55	DT-55 W	DT-55 MK2	VPF-96	DT-100 E MC-100 EB
388  brown	714  orange	801  black	974  yellow	6122  orange	987  blue	381  blue	1475  MC ivory
DT-200 E	DT-201	DT-201 E	DT-Z 1S	DT-Z 1	DT-Z 1 EB	DT-Z 1LS	DT-E 3E
1606  MC red	988  MC blue	1477  MC blue	718  khaki	739  ES tr.clear	932  DE tr.green	473  blue	1602  red
DT-Z 3 ED	DT-Z 4 S	DT-U 2	DT-U 2E	DT-X 1 MK I	DT-X 1 MK II	4 DT-1 X	4 DT-2 X
884  DE tr.red	884  red	1471  naked 4-channel black/ white line	1473  naked elliptical black/ red line	1287  clear	740  ES transparent clear	509  ES white 4-channel	703  ES black 4-channel
4 DT-5 X	4 DT-10 X	4 DT-20 X	4 DT-30 X	4 DT-35 X	DT-35	DT-56	DT-57
509  ES white 4-channel	509  ES white 4-channel	619  ES red 4-channel	620ES  grey 4-channel	620 ES  grey 4-channel	6169  brown	957  black	6111  ivory
DT-58	DT-59	DT-60	DT-Z 5 P Z-5 P	MC-5 E	DT-55 B	DT-55 II B	DT-Z 1 E
6050  blue	6230  blue	6265  orange	6168  tr. orange		6166  yellow	6246  blue	6250  DE tr. orange
DT-202 B	DT-58 B	ATN-1059		DT-X 1 MK II	DT-X 1 MK II	DT-62	
1696  grey	6264  l. blue	6230  green		1751  elliptical	1752  shibata	6289  MM tr. blue	6175  red
DT-64	DT-65						
6111  white	981  white						

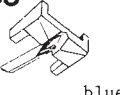
Tonar replacement types for: NORDMENDE

ST-10 J					L-4	OMB-10	
771  black	6191  red	904  black	961  grey	917  red	1400  blue	1276  black	974  yellow

Tonar replacement types for: NOVAK

CLARVILLE							
72 							

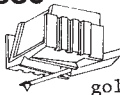
Tonar replacement types for: N.S.M. / WURLITZER

N-17 CM		DB-200; D-102	CONSULT 120				
605  blue	6223  black	182  Gold	182  Gold				

Tonar replacement types for: NUMARK

CC-1	CS-1	Groovetool					
6813  silver	6815  silver	6259  red					

Tonar replacement types for: NUWAY

NS-88							
6086  gold							

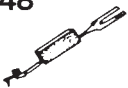
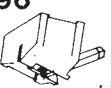
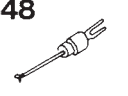
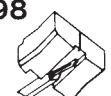
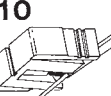
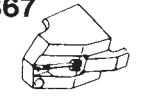
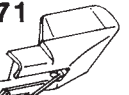
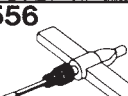
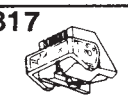
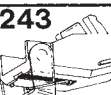
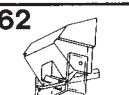
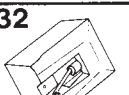
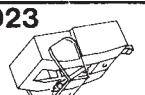
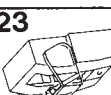
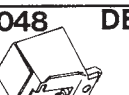
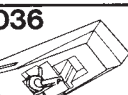
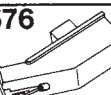
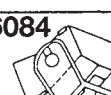
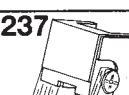
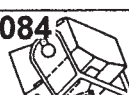
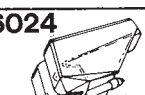
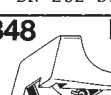
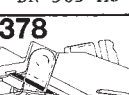
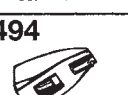
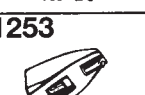
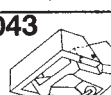
Tonar replacement types for: OHIO SOUND

T-812 E							
792 DE  tr. red							

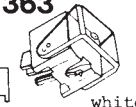
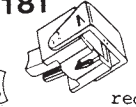
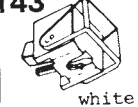
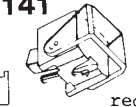
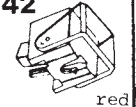
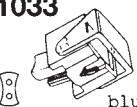
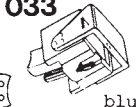
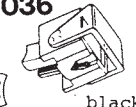
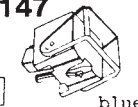
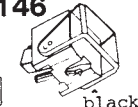
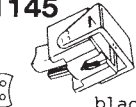
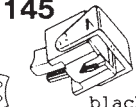
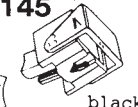
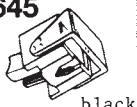
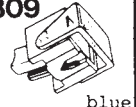
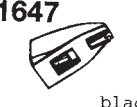
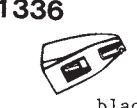
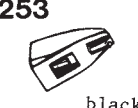
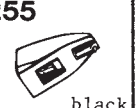
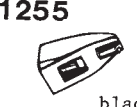
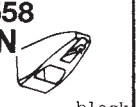
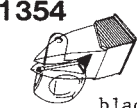
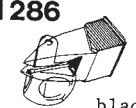
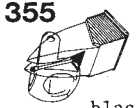
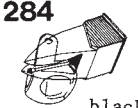
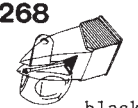
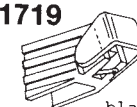
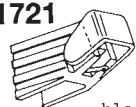
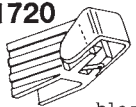
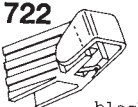
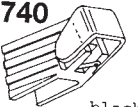
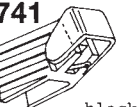
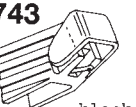
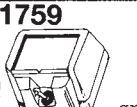
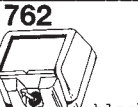
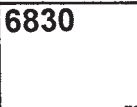
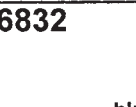
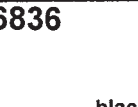
Tonar replacement types for: OLYMPIC

1							
378 							

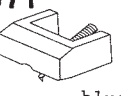
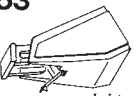
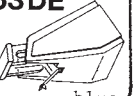
Tonar replacement types for: ONKYO

DN-1 ST; SN-2 ST	DN-3 ST	DN-5 ST	DN-7 ST	DN-8 ST	DN-10 ST	DN-12 ST	DN-13 ST
148 	269 	296  white	397  black	367  white	397  black	374  black	296  white
DN-14 ST	DN-15 ST	DN-16 ST	DN-17 ST	DN-18 ST	SN-19 ST	SN-20 ST	DN-21 ST OC-21 M
648  nickle IM	398  grey	810  white	397  black	499  red	535  brown	367  white	506  white
DN-22 ST OC-22 M	DN-23 ST OC-23 M	DN-24 ST	DN-25 ST	DN-27 ST	DN-28 ST	DN-29 ST	DN-30 ST
507  blue	535  brown	589  orange-brown	698  4-channel transparent red	571  white	726 ES  4-channel yellow	726  green	1022  red
DN-31 ST	DN-32 ST	DN-33 ST	DN-34 ST	DN-35 ST	DN-36 ST	DN-37 ST	DN-38 ST
556 	571  white	778  red	6081  blue	758  yellow	6082  green	894  white	6071  blue
DN-39 ST	DN-40 ST	DN-50 MC	DN-51 ST	DN-52 ST	DN-54 ST	DN-55 ST	DN-56 ST
817  yellow	771  black	1243  black	862  red	832  red	949  orange	923  black	955  grey
DN-57 ST	DN-59 ST	DN-60 STE	DN-61 ST	DN-61 STE	DN-62 ST	DN-63 STE	DN-64 STE
708  grey	923  black	802 DE  red	6048  lilac	6048 DE  l. blue	6036  black	916 DE  black	1576  orange
DN-65 ST	DN-66 ST	DN-67 ST	DN-68 ST	DN-69 ST	DN-70 ST	DN-72 ST	DN-106 ST
6193  blue	6043  red	6084  red	6237  grey	6084  red	6286  grey	6024  tr. blue	6244  white
DN-107 ST	DN-201 ST	DN-202 STE	DN-505 MC	DN-1005 ST	OMP-5 E	OM-20	Q-4
6248  orange	848  blue	848 DE  blue	1378  MC blue	651  MM black/white	1494  black	1253  black	6043  red

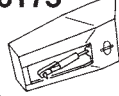
Tonar replacement types for: ORTOFON

NF-10 E FF-10 E	FF-10 XE MK II NF-10 XE MK II	FF-15 D MK II NF-15 D MK II	F-15 S; F-15 O N-15 S; N-15 O	F-15 S MK II N-15 S MK II	F-15 E; F-15 EO N-15 E; N-15 EO	F-15 E MK II N-15 E MK II	F-15 O MK II N-15 O MK II
1646  yellow	1363  white	1181  red	282  white	1143  white	291 DE  white	1144  white	1143  white
F-15 EO MK II N-15 EO MK II	FF-15 NF-15	FF-15 S MK II NF-15 S MK II	FF-15 E NF-15 E	FF-15 E MK II NF-15 E MK II	FF-15 O MK II NF-15 O MK II	FF-15 EO MK II NF-15 EO MK II	FF-15 XE MK II NF-15 XE MK II
1144  white	1756  white	1141  red	1755  white	1142  red	1141  red	1142  red	1148  yellow
M-15 Super D-15 Super	M-15 E Super D-15 E Super	M-20 E N-20 E; DN-350	M-20 E Super D-20 E Super	M-20 FL Super D-20 FL Super	VMS-3 MK II D-3 MK II	VMS-5 E MK II D-5 E MK II	VMS-10 E MK II D-10 E MK II
1033  blue	1033  blue	1036  black	1147  blue	1146  black	1482  white	1450  yellow	1338  green
VMS-15 XE MK II D-15 XE MK II	VMS-20 S D-20 S	VMS-20 E D-20 E	VMS-20 E MK II D-20 E MK II	VMS-20 EO MK II D-20 EO MK II	VMS-20 XE MK II D-20 XE MK II	VMS-30 FL MK II D-30 MK II	NF-15/78 rpm
1744  red	1145  black	1145  black	1145  black	1145  black	1645  black	1309  blue	1684  78 rpm stylus
STYLUS 1 NEW	OM-5E; OMP-5 E Stylus 5 E New	STYLUS 7 NEW	TM-10 H; LM-10 STYLUS 10 NEW	OM-10; OMP-10 STYLUS 10 NEW	CONCORDE 10 STYLUS 10 NEW	CONCORDE EC-10 STYLUS 10 NEW	OMB-12 STYLUS 12 NEW
1647  black	1494  black	1648  black	1276  black	1276  black	1276  black	1276  black	1318  black
TM-14 STYLUS 14 NEW	OMB-15 STYLUS 15 NEW	LM-20; LM-20 H STYLUS 20 NEW	OM-20; OMP-20 STYLUS 20 NEW	CONCORDE 20 STYLUS 20 NEW	TM-20 H STYLUS 20 NEW	LM-30; LM-30 H STYLUS 30 NEW	TM-30 H STYLUS 30 NEW
1336  black	6399 DE  black	1253  black	1253  black	1253  black	1253  black	1255  black	1255  black
OM-30; OMP-30 STYLUS 30 NEW	SME-30 H STYLUS 30 NEW	CONCORDE 30 STYLUS 30 NEW	OM-40 (GOLD) STYLUS 40 NEW	LM-PRO; OM-PRO STYLUS PRO NEW	CONCORDE PRO STYLUS PRO	CONCORDE STD STYLUS STD	DN-167 78 RPM STYLUS
1255  black	1255  black	1255  black	1628  black	1575  silver	1575  silver	1310  silver	1558 DN  black
DN-149 S	DN-150 E	DN-152 E	DN-155 E	DN-160 E	DN-165 E	DN-166 E	THORENS M-200E D-200 E
1354  black	1286  black	1355  black	1284  black	1268  black	1405 DE  black	1406  black	1320  black
M-5 N-5	M-5 P N-5 P	M-10 N-10	M-10 P N-10 P	M-25 S N-25 S	M-25 SP N-25 SP	M-50 E N-50 E	M-50 EP N-50 EP
1719  black	1721  black	1720  black	1722  black	1740  black	1741  black	1743  black	1742  black
305 STYLUS 305	310 STYLUS 310	320 STYLUS 320	520 STYLUS 520	530 STYLUS 530	540 STYLUS 540	N-15 BC	
1759  grey	1760  grey	1761  grey	1762  black	1763  black	1764  black	1757  green	
2M RED	2M BLUE	2M BRONZE	2M BLACK	F/FF-15 MK I/II	F/FF-15 E I/II	OM-SERIES	
6830  red	6832  blue	6834  Bronze	6836  black	6369  white	6369 DE  white	6469 shibata 	

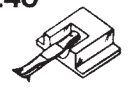
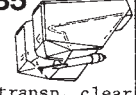
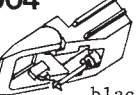
Tonar replacement types for: OSAWA

OS-101	OS-102	OS-201	OS-202	OS-301	OS-1001	OS-2001	OS-3001
1567  IM black/grey	1570  grey	1568  IM silver/grey	1571  blue	1569  IM gold/grey	953  white	953DE  blue	953DE  blue

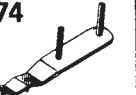
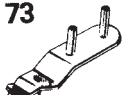
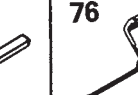
Tonar replacement types for: OTTO, See: SANYO
Tonar replacement types for: PANASONIC, See: NATIONAL
Tonar replacement types for: PARAMOUNT

RF-20							
6175 							

Tonar replacement types for: PATHE MARCONI

51	53	MUCS; MCS	RC 5/6	STC-7; STC-S; STC-41	STEREO	ST-10 J	STC-2000 D
154 	155 	240 	156 	157 	158 	771  black	157 
		T-H 5 S	T-H 5 E	STC-10 S			
917  red	885  transp. clear	904  black	904 DE  black	157 			

Tonar replacement types for: PERPETUUM EBNER

CDS-650; CDS-651	PE 5	PE 8/10	PE 12	PE 30/90	PE TO 48/51	PE 92	PE 180 US
443 	74 	73 	159 	180 	162 	259 	76 
PE 182 US	PE 184 US	PE 186	PE 188	PE 190	223/1	223/2; PE-192	PE 194
80 	78 	84 	160 	439 	356 	357 	464 
PE-3000	PE-7000	PE-8000	PE-9000				
443 	161 	83 	45 				

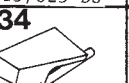
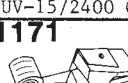
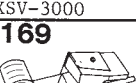
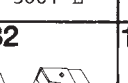
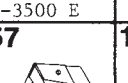
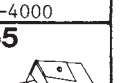
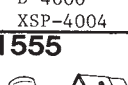
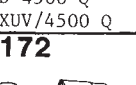
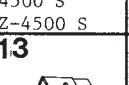
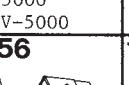
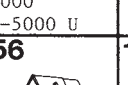
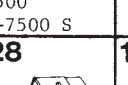
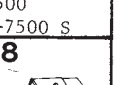
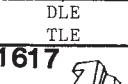
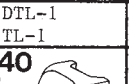
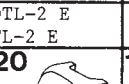
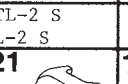
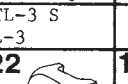
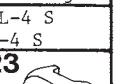
Tonar replacement types for: PHILCO

35-2682	35-2775	45-9612	325-8210	325-8214			
164 	137 	163 	258 	165 			

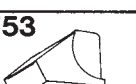
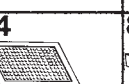
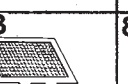
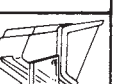
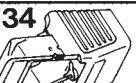
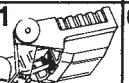
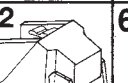
Tonar replacement types for: PHILIPS

AU 1010/1020 1030	AG-3001	AG-3010;3012; AG-3013;3015	AG-3016	AG-3019	AG-3020;3021	AG-3025;3026	AG-3027
20 	13 	11 	12 	238 	16 	11 	16
AG-3052	AG-3063;3066	AG-3109;3113; AG-3114	AG-3201;3202	AG-3201 (D)	AG-3221;3222	AG-3224;3228;	AG-3229
17 	14 	11 	18 	21 	18 	20 	405 stylus only
AG-3230	AG-3304	AG-3301;3302; AG-3304;3305	AG-3306-1	AG-3306;3310	AG-3308	AG-3311 GP-311	AG-3400
20 	14 	15 	247 	20 	14 	280 philitina	19
AG-3401;3402	AG-3404;3407 AG-3408;3409	AG-3410	AG-5001	AG-5012;5013	GP-200	GP-204;205	GP-212;213
19 	301 blue	19 	17 	16 	20 	543 	553
GP-214	GP-215	GP-224	GP-228	GP-229	GP-230	GP-233	GP-235
2061 orange	2132 grey	20 	20 	405-C complete	20 	1123	20
GP-300;306;310	GP-316	GP-330	GP-331	GP-350	GP-351	GP-370	GP-371
20 	12 	994 black	994 DE black	1403 black	1404 black	503 ivory	582 green
GP-380	GP-390	GP-397 MK III	GP-400	GP-400 MK II	GP-400 MK III	GP-401	GP-401 MK II
1123	1123	808 green	511 grey	534 black	946 black	511 DE black	534 DE black
GP-401 MK III	GP-404	GP-406 MK II	GP-406 MK III	GP-407;408;409 GP-410;411	GP-412	GP-412 MK II	GP-412 MK III
946 DE black	301 blue	534 DE black	946 DE grey	301 blue	534 DE black	534 DE black	946 DE grey
GP-413	GP-420 MK III	GP-421	GP-422	GP-422 MK II	GP-422 MK III	499	GP-500
534 DE black	1333 black	534 DE black	534 ES black	534 ES black	1349 grey	933 black	511 grey
GP-500 MK II	GP-501 MK II			RB-5400		FP-772	GP-780
534 black	534 DE black	916 black	6175 red	6262 red	6172 red	6239 blue	981 white
FP-360	MG-2510	FP-575	FP-140		F-1275		FP-563
6346 blue	6259 red	957 black	994 black	6354 black	6174 red	6329 red	994 black

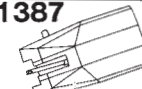
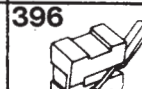
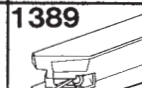
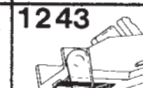
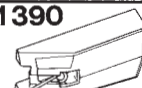
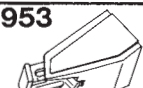
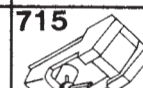
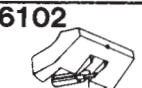
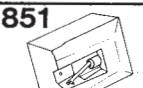
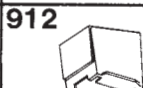
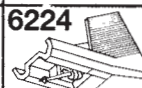
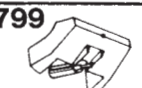
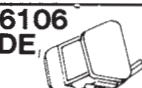
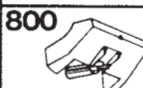
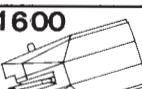
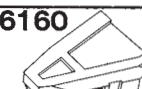
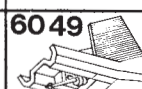
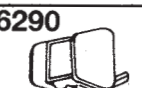
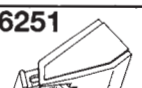
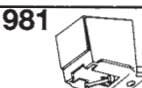
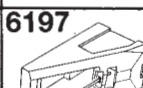
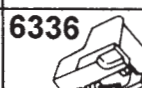
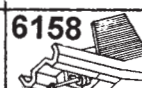
Tonar replacement types for: PICKERING

150	150 & Spring	Mark II T-guard	U-38/380 D-3807 A	U-38/380 D-3807 AT	U-38/380 D-3807 C	V-15/D-1507 AC V-15 P/AC	V-15/D-1500ACE V-15 P/ACE
166 	167 	168  red	559  yellow	362  black	558  red	501  orange	501 DE  orange
V-15/D-1507 AM V-15 P/AM	V-15/D-1500AME V-15 P/AME	V-15/D-1507 AT V-15 P/AT	V-15/D-1500ATE V-15 P/ATE	V-15/ .6 Mil.	V-15/PD-07 T V-15 P/DT	V-15/PDE	V-15 series with brush
539  gold	539 DE  gold	465  grey	465 DE  grey	275  black	603  yellow	604 DE  yellow	547  red
V-15 E series with brush	D-IV AC V-15 MICRO AC	D-IV ACE V-15 MICRO ACE	D-IV AT V-15 MICRO AT	D-IV ATE V-15 MICRO ATE	D-IV AM V-15 MICRO AM	D-IV AME V-15 MICRO AME	D-150 DJ XV-15/150 DJ
547 DE  red	583  ivory	583 DE  ivory	583  ivory	583 DE  ivory	583  ivory	583 DE  ivory	1530  white
D-350 XV-15/350	D-400 XV-15/400 E	D-625 XV-15/625 E	D-625 DJ XV-15/625 DJ	D-750 XV-15/750 E	D-757 S XV-15/757 S	D-1200 XV-15/1200 E	D-1800 S XV-1800 S
546  black	546 DE  black	1166  gold	1334  white	1167  ivory	1612  ivory	1168  gold black	1580  ivory
D-2000 Q UV-15/2000 Q	D-2400 Q UV-15/2400 Q	D-3000 XSV-3000	D-3000 SP XSV-3000 SP	D-3000 XSP-3003	D-3001 E	D-3500 E XLZ-3500 E	D-4000 XSV-4000
1170  black	1171  black/copper	1169  black	1611  silv./black	1169  silv./black	1782  ivory	1557  bronze/black	1555  silv./black
D-4000 SP XSV-4000 SP	D-4000 XSP-4004	D-4500 Q XUV/4500 Q	D-4500 S XLZ-4500 S	D-5000 XSV-5000	D-5000 XSV-5000 U	D-7500 TLZ-7500 S	D-7500 XLZ-7500 S
1610  brown white	1555  silv./black	1172  black	1613  black	1556  gold white	1556  gold white	1528  gold	1528  gold
DLC TLC	DLE TLE	D-2E TLE MK II	DTL-1 TL-1	DTL-2 E TL-2 E	DTL-2 S TL-2 S	DTL-3 S TL-3	DTL-4 S TL-4 S
1616  white	1617  black	1618  white	6140 DE  white	1620  white	1621  white	1622  white	1623  white

Tonar replacement types for: PIEZO

MS-2;SMT-13	MS-8	SMT-29	03-40729	SC-503	STEREO	Y-100; Y-510	Y-310
27 	170 	169 	380 	148 	449 	370 	270 
Y-565;575;590	Y-640	Y-670	Y-730	Y-930	Y-990	Y-995	YM-101
50 	367  white	646  green	270 	444  white	NO LONGER AVAILABLE	506  ivory	444  white
YM-114	YM-118	YM-121	YM-122	YM-123	YM-124	YM-125	YM-127
607  white	665  red	753  black	882  orange	834  orange	883  yellow	890  black	949  orange
YM-130	YM-304	YM-308	YM-310	YM-320	YM-818	AN-10	YM-305
NO LONGER AVAILABLE black	NO LONGER AVAILABLE black	734  black	835  black	891  black	6130  green	6072  black	6343  black

Tonar replacement types for: **PIONEER**

PN-3 MC 1361  MC white/brown	PN-4 MC 1379  MC red	PN-5 MC 1387  MC grey	PN-6 MC 1388  MC white/red	PL-N6 296  white	PL-N9 395  white	PN-10; PN-11 396  grey	PN-12 324  red
PN-14 675  green	PN-15 320  red	PN-16 588  grey	PN-20 616  blue	PN-21 6104 ES  ivory IM	PN-30 591  red IM	PN-31 MC 1389  blue MC	PN-33 MC 1243  black
PN-35 574  yellow	PN-41 MC 1390  green MC	PN-50 597  purple IM	PN-K 65 953  white	PN-K 85 710  grey IM	PN-110 324  red	PN-110 MK II 797  black	PN-131 715  orange
PN-135 733  black	PN-150 838  yellow	PN-200 6102  light green	PN-220 851  grey	PN-230 912  green	PN-250 T 6224  black	PN-330 588  grey	PN-330 E 6105 DE  brown
PN-330 MK II 774  tr. green	PN-400 799  green	PN-550 E 6106 DE  red	PN-550 E MK II 6124 DE  tr. smoke	PN-600 800  yellow	PN-770 EX 6107 ES  black	PN-800 6103  white	PN-1000 C 6107 ES  black
PN-1000 MK II 6125 ES  tr. black	PN-7 MC 1600  grey IM	PN-290 T 6160  white	PN-295 T 6167  white	PN-300 T 6160 DE  grey	PN-301 1566  black	PN-305 T 6049  black	PN-320 974  yellow
PN-19 6290  grey	PNK-75 6251  yellow IM	PN-210 981  white	PN-240 6287  grey	PN-291 6197  grey	PN-260 6336  grey	PL-2012; PL-2002 6158  blue	

Tonar replacement types for: **PRINZ, See: SCHNEIDER**

Tonar replacement types for: **RADIOHM**

MONO; STEREO 177 	CS-60; CM-71 350 						
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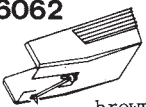
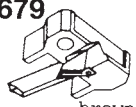
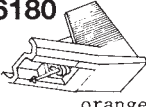
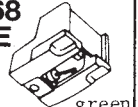
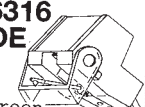
Tonar replacement types for: **RADIOLA**

GP-500 MK II 534  black	GP-501 MK II 534 DE  black	GP-330 994  black	GP-331 994 DE  black				
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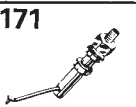
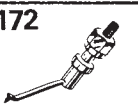
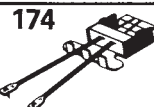
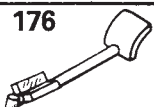
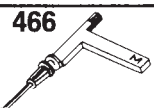
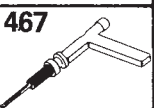
Tonar replacement types for: **Q.E.D.**

RATA RP-20 diosa ellipt.	RATA RP-40 nude ellipt.	RATA RP-70 ogura vital					
1708  tr. clear	1710  tr. clear	1712  tr. clear					

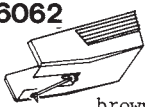
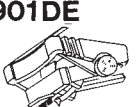
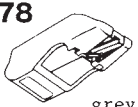
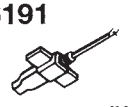
Tonar replacement types for: **RADIO SHACK**

RT-1500	RXT-4	X-3 N-75 EC	RT-8500	ATN-71 E	ATN-771 E		
6062  brown	901DE 	1679  brown	6180  orange	768 DE  green	6316 DE  green		

Tonar replacement types for: **R.C.A.**

104; 200; 108800	106969; 106770 106771	74068	75497	100020 A	110020; 110022	115060	115061
173 	297 	171 	172 	261 	174 	175 	176 
115276/115302/ 115303	115329	117330/118197	118199/118200	120695/122057	126566/7	131779/131780	131781/131788
260 	298 	273 	305 	413 	419 	466 	467 

Tonar replacement types for: **REALISTIC**

RT-1500	RXT-4	R-47 XT	AT-71 E	QLM-30 MK 3	Clarinet 66		
6062  brown	901DE 	1245 	768 DE  green	878  grey	6191  red		

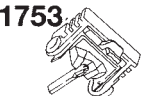
Tonar replacement types for: **RESON**

33; 78							
178 							

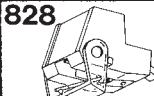
Tonar replacement types for: REUTER

N4; S1							
179 							

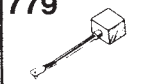
Tonar replacement types for: REVOX

PD-20	Shure Tracer						
1329  black	1753  black						

Tonar replacement types for: REX (ZANUSSI)

828  yellow	934  black						
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Tonar replacement types for: RIGONDA

rigonda 123	complete cartridge	2163	ACCORD MONO COMIX	Rigonda			
779 	2163 	436 	2563	6480 original			

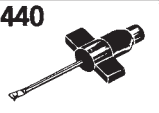
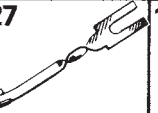
Tonar replacement types for: RION

NP-01 D							
379 							

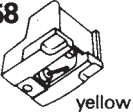
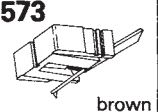
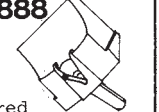
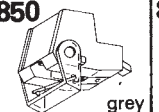
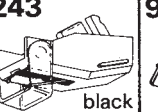
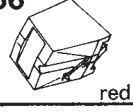
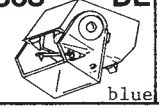
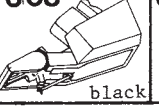
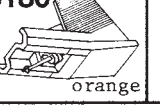
Tonar replacement types for: ROELOFS

RD-121							
601 							

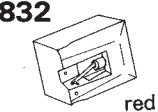
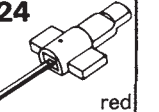
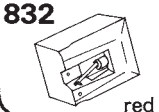
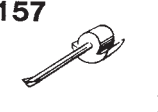
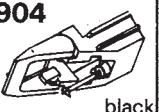
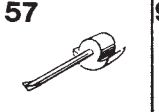
Tonar replacement types for: RONETTE

BF 40	CMT-102	SC-107; SC-109	SM-500/7	TA 600	TO 284	TO 284 OE	TX 88
180 	441 	440 	562  red	241 	137 	27 	181 
SC-103	107 (double)						
440  black	6194  black						

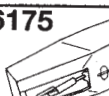
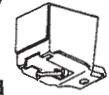
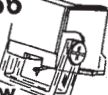
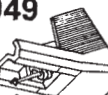
Tonar replacement types for: ROTEL

2 RC-5	2 RC-3	2 RC-4	2 RN-5	2 RC 1	SYSTEM 400	RMC-7 AT-30 E	AT-51 E
758  yellow	573  brown	888  red	850  grey	862  orange	813  red	1243  black	904 DE  black
		ATN-110 E		RT-8500			
956  red	981  white	868 DE  blue	1603  black	6180  orange			

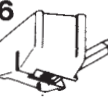
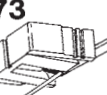
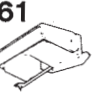
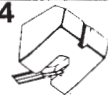
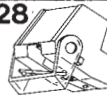
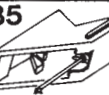
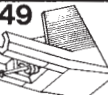
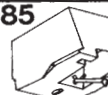
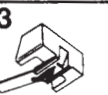
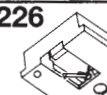
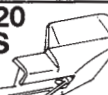
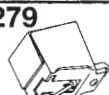
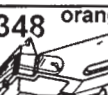
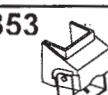
Tonar replacement types for: SABA

ATX-11 E	CN-5431 (C-3000)	AT-3400 (PSP-240)	AT-12 E (PSP-244)	AT-13 EaV (PSP-248)	AT-71 (CSP-300)	ATN-12 ES (PSP-250)	C-2500 (RPC-1000)
847 DE  grey	832  red	832  red	748 DE  blue	794 DE  orange/red	795  red	893 DE  tr. grey	524  red
AT-3400 (PSP-100)	DISCO CENTRE		STC-10 S		OMB-5 (PSP-45)		PSP-15
832  red	157 	904  black	157 	974  yellow	1319  black	904 DE  black	917  red

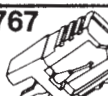
Tonar replacement types for: SAMSUNG

LP-4	150; 350	4237	VIP-550			CN-108	
956  red	822  white	813  red IM	6240  violet	6175  red	974  yellow IM	6241  orange	6265  orange
VIP-580L			SCM-6500L				SCM-8900
917  red	6166  yellow	6230  green	6329  red IM	6240  violet	6049  black	6258  red	6353  grey

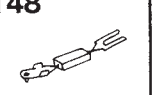
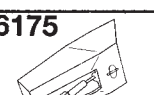
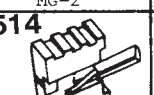
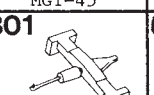
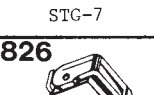
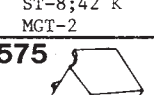
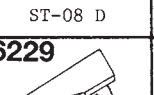
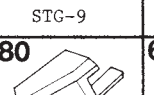
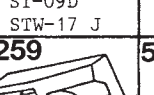
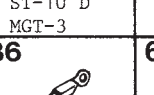
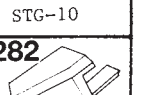
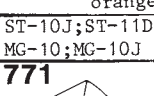
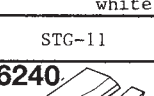
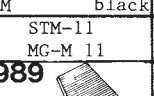
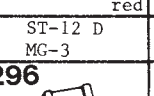
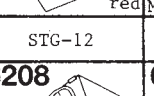
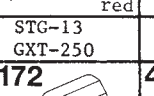
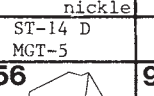
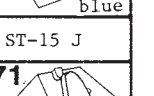
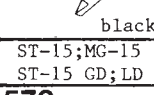
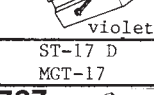
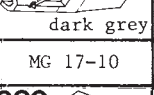
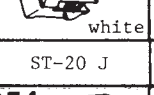
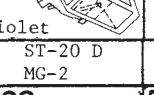
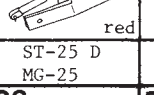
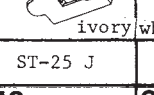
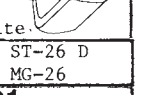
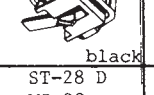
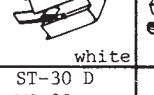
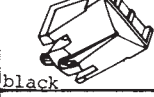
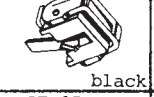
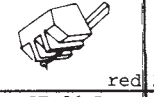
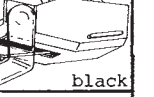
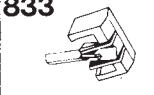
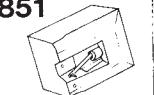
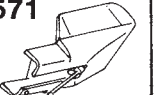
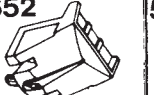
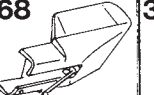
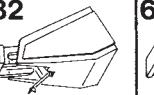
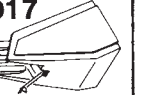
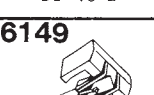
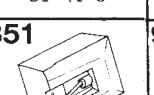
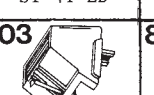
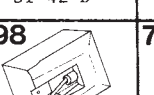
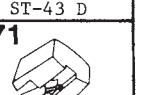
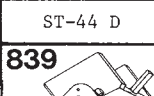
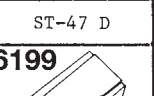
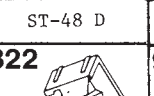
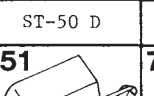
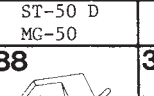
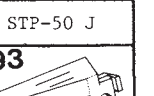
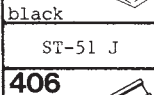
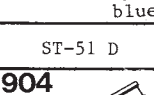
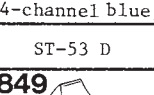
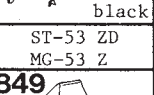
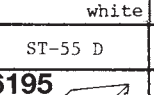
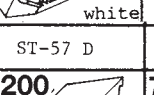
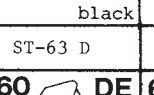
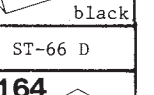
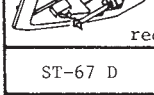
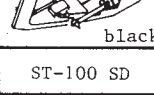
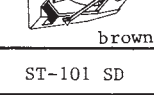
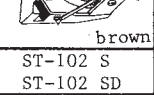
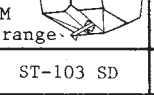
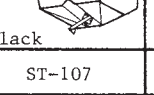
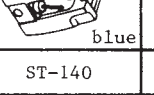
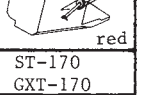
Tonar replacement types for: SANSUI

ST-2 D	ST-3	ST-6 D	ST-9 D	SN-10; SN-10 A	ST-10 D	SN-21; SN-22	SN-23
6065  white MM	269  black	296  transp. black	6067  white	513  white	399  white	296  white	399  white
SN-24	SN-25; MCI-5	SN-26	SN-27	SN-28	SN-29	SN-31; ST-3200 V-3030	SN-37; SC-37
6067  black MM	538  green	573  tr. brown	689  black	651  black MM	6061  red	590  grey IM	710  grey
SC-37 A; SN-70	SN-41	SN-42	SN-43	SN-44	SN-45	SN-50	SN-60; SC-60
6010  red IM	712  orange	713  tr. clear	6112  purple	823  black	824  black	825  orange MM	877  orange
SN-70 SC-37 A	SN-80 SC-80	SN-101 SV-101	SN-202	SN-303	SN-P 313	SN-505	SN-P 515
6010  red IM	673  red IM	828  yellow	898  yellow	935  black	6049  black	961  grey	6049  black
SN-707	SN-909	ATN-3100	ST-3200	SN-33	SN-36	SN-38	SN-110
985  blue	6060  black	1372  black	590  grey	542  white	6281  orange MM	663  red IM	6252  tr. brown
SV-111	SNP-212	SN-757	SN-40 X	SN-1112	SN-3601	SN-3601/II	
6247  red	6234  red IM	6226  red	620 ES  grey	6279  orange	6279  orange	6279 DE  orange	
SN-343	SN-333	AT-113; SN-353	PE-570	AT-3609	AT-370SS		
6166  yellow	6208  blue	6348 orange 	6348 orange 	6237  grey	6353  grey		

Tonar replacement types for: SANWA

9020							
767  white							

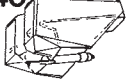
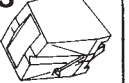
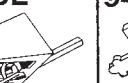
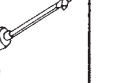
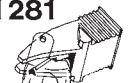
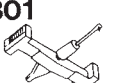
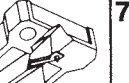
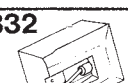
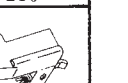
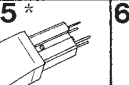
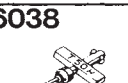
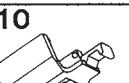
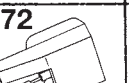
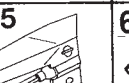
Tonar replacement types for: SANYO

STA-1 D 6096 DE  yellow	STG-1 578  black	STL-1 148 	STG-2 D ST-107 822  white	ST-03 951  white	ST-3 D 50 	STA-3 D 781 DE  brown	STG-3 211  white
ST-4 D STL-40 T 787 NO LONGER AVAILABLE  white	ST-05 6175  red	ST-5 D MG-2 514  white	STG-5 MGT-45 801  black	ST-L 5D 6050  l.blue	ST-6;ST-6 D MGT-1 367  white	STG-6 801  black	ST-07 D 6228  red
STG-7 826  orange	ST-8;42 K MGT-2 575  white	ST-08 D 6229  black	STG-8 813  red	STG-9 980  red	ST-09D STW-17 J 6259  red	ST-10 D MGT-3 536  nickle	STG-10 6282  blue
ST-10J;ST-11D MG-10;MG-10J 771  black	STG-11 6240  violet	STM-11 MG-M 11 989  dark grey	ST-12 D MG-3 296  white	STG-12 6208  violet	STG-13 GXT-250 6172  red	ST-14 D MGT-5 456  ivory	ST-15 J 971  white
ST-15;MG-15 ST-15 GD;LD 573  tr.brown	ST-17 D MGT-17 767  white	MG 17-10 980  red	ST-20 J 954  black	ST-20 D MG-2 738  black	ST-25 D MG-25 526  blue	ST-25 J 542  white	ST-26 D MG-26 691  orange
ST-26 DL 6011  black	ST-26 J 915  white	ST-27 D MG-27 608  blue	ST-27 DL MG-27 L 738  black	ST-28 D MG-28 663  red	ST-29 D 972  red	ST-30 D MG-30 633  red	ST-30 J 1243  black
ST-31 J 833  red	ST-34 D 6012  black	ST-35 D 851  grey	ST-35 VD MG-35 V 571  white	ST-36 D MG-36 652  orange	ST-36 VD 568  red	ST-37 D 382  blue	ST-37 LD 6017  tr.darkblue
ST-38 D ATN-892 928  black	ST-40 D 6149  orange	ST-40 DX MG-40 X 694 ES 4-channel tr.brown  tr.brown	ST-41 D 865  orange	ST-41 J 851  grey	ST-41 ZD 903  blue	ST-42 D 898  yellow	ST-43 ST-43 D 771  black
ST-44 D 839  black	ST-44 J 6063  blue	ST-45 DX 688 ES 4-channel blue  4-channel blue	ST-47 D 6199  black	ST-48 D 822  white	ST-50 D 951  white	ST-50 D MG-50 788  black	STP-50 J 393  black
ST-51 J 406  red	ST-51 D 904  black	ST-53 D 849  brown	ST-53 ZD MG-53 Z 849  brown	ST-55 D 6195  orange	ST-57 D 6200  black	ST-63 D 760 DE  blue	ST-66 D 6164  red
ST-67 D 6198  tr.black	ST-100 SD 840  black	ST-101 SD 975  black	ST-102 S ST-102 SD 6036  black	ST-103 SD 957  black	ST-107 822  white	ST-140 6172  red	ST-170 GXT-170 801  black
ST-707J GXT-210 6175  red	GXT-210 GXT-410 6016  blue	STW-8J DN-239 981  white	ATN-750 6261  orange	ATN-750 865  orange	STW-40 6064  orange	STW-40 6239  blue	all plastic 6068  grey

Tonar replacement types for: SATIN

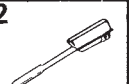
117 NS							
1370  white							

Tonar replacement types for: SCHNEIDER

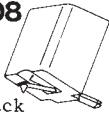
L-3	L-4	Q-4	P-24	SPP-26	QLM-30 MK III	SPP-30'	T-30 MS
1251  blue	1400  blue	1401  red	940  tr.orange	973  white	1229  grey	857 DE  tr.red	948  blue
ULM-40 S	SP-60 N	SP-61 M	SP-62 M	ATN-70	M-74 CS SBD-71	KS-231	DN-236
1281  black	801  black	801  black	813  red	795  red	617  blue	779  blue	1311  black
DN-239					DN-145 E	D-155-17	DN-211 DMS-210
981  white	920  white	832  red	651  MM: black/white	384  black	970  black	750  black	732  black
DN-221 DMS-220	DN-242 DMS-242 E	DN-325	MMD-340	MMD-345	MMD-360 E	CN-933	KS-40 A
820  black	821  black	387  black	2473 *  black	2474 *  black	2475 *  black	676  black	462  black
ST-12/14/15	ST-16/17	T-50 HS		1403 TS			
424  black	442  black	6038  black	910  black	6172  red	6175  red	6259  red	6176  white
	2700	TS-1672					
6329  red	974  yellow	462  black					

* = Complete cartridge only !

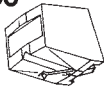
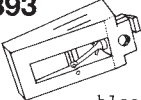
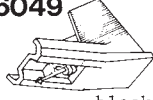
Tonar replacement types for: SCHUMANN

FANFARE	HMV-1	HMV-2	SC-474	SK 451	SK 452	SK 453	SK 456; STK 494
182  black	390  black	391  black	153  black	183  black	184  black	185  black	186  black
STC-480	STC-485/486	STC-487	STC-488	STK-490	STK-495/1	STC-481	
420  black	414  jupimatic	493  black	685 green  green	152  black	239  black	391  black	

Tonar replacement types for: SCIENTELEC

1108  black							

Tonar replacement types for: SCOTT

20 SC	21 SC	21 ASC	ATN-3482 P				ATN-3660 YL
956  red	879  red	966  red	6126  yellow	393  black	758  yellow	6049  black	6203  yellow
974  yellow	6164  orange						

Tonar replacement types for: SEARS

910  white							

Tonar replacement types for: SEEBURG

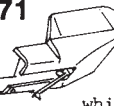
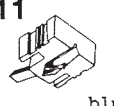
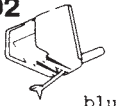
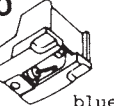
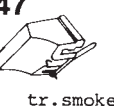
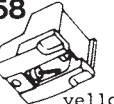
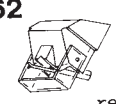
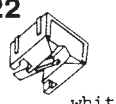
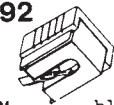
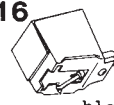
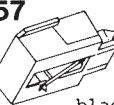
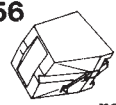
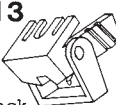
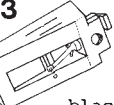
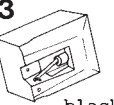
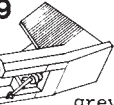
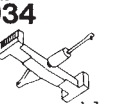
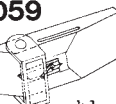
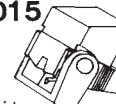
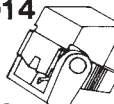
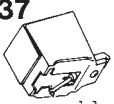
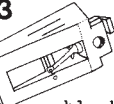
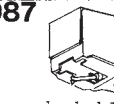
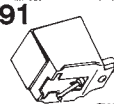
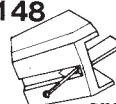
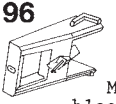
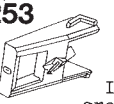
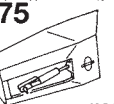
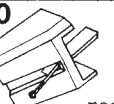
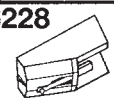
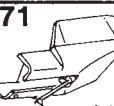
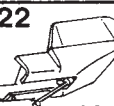
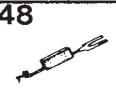
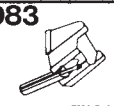
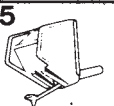
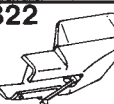
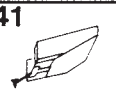
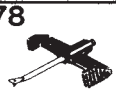
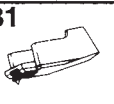
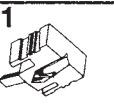
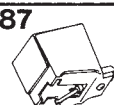
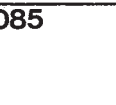
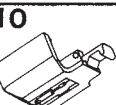
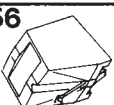
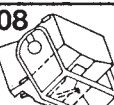
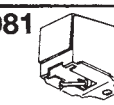
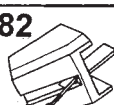
JUKE BOX	MK II	R 150	SHOWCASE	STEREO	D-102	M-100C	
188  blue	168  red	166 	403  yellow	187  turquoise	182 	303 	

Tonar replacement types for: SETTON

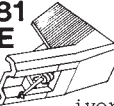
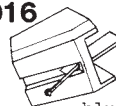
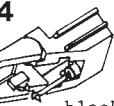
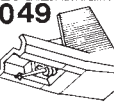
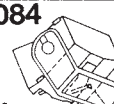
322  black							

Tonar replacement types for: SHERTON

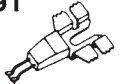
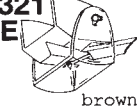
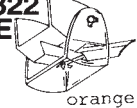
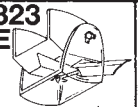
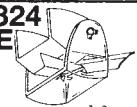
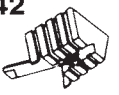
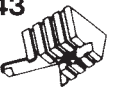
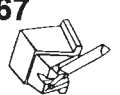
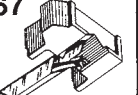
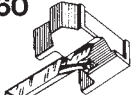
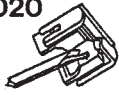
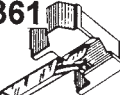
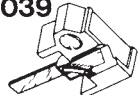
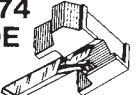
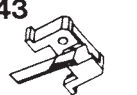
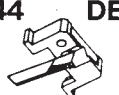
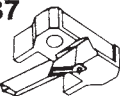
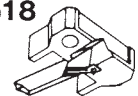
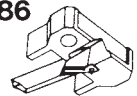
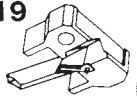
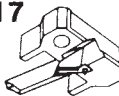
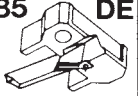
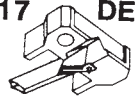
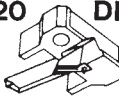
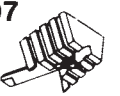
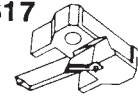
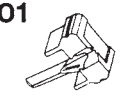
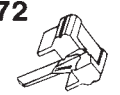
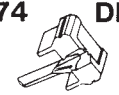
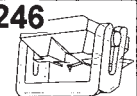
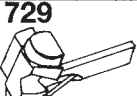
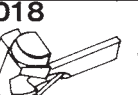
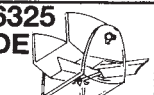
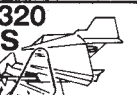
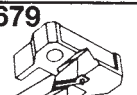
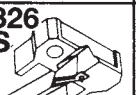
sherton							
1455 							

N-03 D	N-05 D; N-06 S	N-08 D	N-09 D	N-14 D	N-15 D	N-16 D	N-17 D
544 	296  white	348 	372 	653  black	6066  black	653  black	398  grey
N-20 D	STY-100	STY-101 STY-111	STY-102	STY-103	STY-104	STY-105	STY-107
571  white	711  blue	730  white	702  blue	712  orange	651  MM black	760  blue	6047  tr. smoke
STY-113	STY-114	STY-115	STY-116	STY-117	STY-118	STY-120	STY-121
148 	710  IM silver	758  yellow	862  red	822  white	851  grey	941  blue	905  black
STY-122	STY-123	STY-124	STY-127	STY-128	STY-129	STY-130	STY-131
992  MM blue	916  black	957  black	956  red	913  black	393  black	933  black	989  grey
STY-132	STY-133	STY-134	STY-135 RP-P8	STY-136 RP-155	STY-137 RP-255	STY-138	STY-139
934  black	393  black	148 	6059  black	6015  white	6014  blue	6037  blue	393  black
STY-140	STY-141	STY-142	STY-143	STY-144	STY-145	STY-146	STY-147; STY-148 STY-149
987  dark blue	991  grey	991  dark grey	6148  MM grey	6196  MM black	6253  IM grey	6175  red	980  red
STY-150	STY-202	STY-213	STY-450	STY-451 ETC.	STY-550	STY-555	STY-701
6228  red	571  white	322  black	653  black	148 	6083  green	705  ivory	660  green
STY-703	STY-704	STY-705	STY-706	STY-707	STY-717	STY-750	STY-751
322  black	456  white	696  ivory	641  black	578  black	681  black	711  blue	722ES  white
STY-752		RP-23; RP-35	RP-50		SG-20 music centre	CN-2423	STG-12
697  orange	6064  orange	987  blue	6085 	910  white	956  red	795  red	6208  violet
DN-239	SGF-10	STY-112	STY-155	STY-158	STY-152	STY-154	STY-161
981  white	6237  grey	6288  MM blue	6237  grey	6259  red	6331  grey	6332  brown	6282  blue

Tonar replacement types for: **SHERWOOD**

AT-112 EP	MG-1710	ATN-3472 EP					
979DE  blue	980  red	581DE  ivory	6127DE  green	6016  blue	904  black	898  yellow	917  red
ST-870			OMB-5	CN-251 MG-2831	PD-604-2		
974  yellow	6049  black	6084  red	1494  black	6365  yellow	974  yellow		

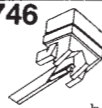
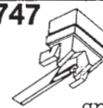
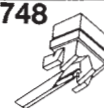
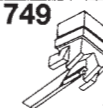
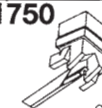
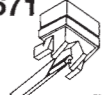
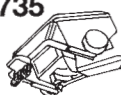
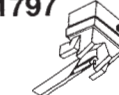
Tonar replacement types for: **SHURE**

M-3 D	PC-6 WC-6	M-7 D	M-8 D	PC-9 WC-38	SPS series N-11	SPS series N-12	PC-12 WC-32
194  gold	191  nickle	245  silver	284 	190 	6321 DE  brown	6322 DE  orange	193 
SPS series N-13	SPS series N-14	PC-20;WC-20	M-21 D	M-24 H	M-31 E	M-32 E	M-33-5
6323 DE  tan	6324 DE  blue	196 	195  gold	707 ES  gold	1037  yellow	1080 	242  red
M-33-7	SC-35 C SS-35 C	SC-39 B	SC-39 EJ	SC-39 ED	PC-42	ML-44 PC-2	M-44-5
243  white	967  blue	1272  beige	1273  green	1274  orange	10 	192  nickle	267-5  red
M-44-7	M-44-C	M-44 C with guard	M-44 G	M-44 E	M-55-E	M-70 B	M-70 EJ
267-7  white	360  blue	6020  light blue	6361 	1039  brown	274 DE  yellow	743  beige	744 DE  green
M-72 B	M-72 EJ	P-72 W-68	M-71;M-75 6S M-75 6;M-75 MB	M-75 B type II	M-75 G	M-75 G type II	M-75 C
1304  beige	1305  green	189 	387  beige	518  beige	386  grey	519  grey	617  blue
M-75 E	M-75 EJ type II	M-75 ED type II	M-77	M-81 MC	M-91 G	M-91 GD	M-91 E
385 DE  yellow	517 DE  green	520 DE  black	197  black	617  blue	401  grey	615  red	469 DE  black
M-91 ED	M-92 G	M-92 E(old)	M-92 E (new)	M-93 E	N-94 EP	M-95 G	M-95 EJ
623 DE  yellow	472  grey	474 DE  yellow	6097 DE  red	500 DE  green	1638  blue	678  grey	1221  green
M-95 ED	M-95 HE	Ne-95 ED Me-95 ED	N-96 LT	M-97 B	M-97 EJ	M-97 ED	M-97 HE
638 DE  yellow	1218  black	1246  encore series	1729  yellow	901  black	1300  black	901 DE  black	901 ES  black
M-97 LT	Me-97 HE Ne-97 HE	M-99 E	M-104 E	M-105 E	M-110 HE	M-111 HE	M-120 HE
6018  red	6285 ES 	6098 DE  blue	6099 DE  yellow	1440  black	6100 ES  white	1442  red black	1443  black red dot
M-140 HE	NDC-EJ	NDC-ED	SDS-1	SDS-3 NDC-HE	RXT-4	N-15	N-16
1444  black white dot	1245  black	1246  black	6019 	6327 ES 	901 DE 	6325 DE  green	1753  black
NSM N-17 CM JUKEBOX ND.L.	NV-30 HE	N-75 EC 3 X	N-75 HE/ II		Whitelabel	M-44-7 competition	
605  blue	6320 ES  black	1679  brown	6326 ES  grey		1977  blue	1937  white	

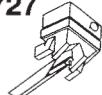
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Tonar replacement types for: SHURE

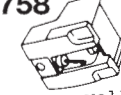
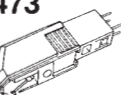
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SS-40 DC-40	SS-50 DC-50	SS-60 DC-60	SS-70 BC-70	SS-80 BC-80	SS-90 BC-90		VN-35 MR V-15 type III
1745  red	1746  blue	1747  green	1748  red	1749  blue	1750  green		584 shibata 
VN-2 E V-15 type I	VN-15 E V-15 type II	VN-35 E V-15 type III	VN-35 HE V-15 type III	VN-45 HE V-15 type IV	VN-45 MR V-15 type IV	VN-45 LT V-15 LT	VN-5 HE V-15 type V-B
1084  black	567 DE  black	584 DE  black	584 ES  black	798 DE  black	1120  black	1483  black	6420 ES  shibata
VN-5 MR V-15 type V MR	V-15 type V P VN-5 P	ULTRA 300 S	ULTRA 400 S	ULTRA 500 S	VNSEP3HE VST III P	VNSE3HE VST III	VNSE5MR VST V
6420 shibata  silver black	1671  grey	1733  red black	1734  blue black	1735  black	1797 	1798 	1799 
M-97 XE	M-97 XE	V-15 II ; VN-15 E	V-15 III ; VN-35 MR	V-15 IV ; VN-45 MR	V-15 V x/MR	V-15 V MR	V-15 V x/MR
1959 	6441 D-SAS 	6416 D-SAS 	6407 D-SAS 	6409 D-SAS 	6430 shibata 	6425 D-SAS 	6435 D-SAS 

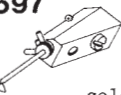
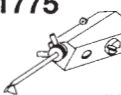
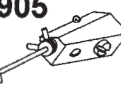
Tonar replacement types for: SHURE - 78 RPM -

N-44 3 M-44;55 series	N-70 3 M-70;72 series	N-75 3 M-75 series	N-91 3 M-91 series	N-95 3 M-95 series	VN-78 E V-15 type III	VN-478 E V-15 type IV	VN-578 E V-15 type V
1222  78 R.P.M.	1098  78 R.P.M.	1064  78 R.P.M.	1065  78 R.P.M.	1223  78 R.P.M.	1122  78 R.P.M.	1121  78 R.P.M.	1057  78 R.P.M.
SS-78 E SC-35 C	N-78 E	N-978 E (M-97)				N-32-3	N-44-1
1732  78 R.P.M.	1727  78 R.P.M.	1827				1784  78 R.P.M.	1724  blue

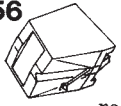
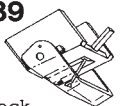
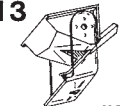
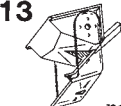
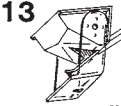
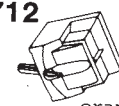
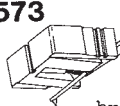
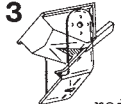
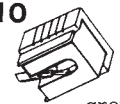
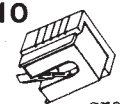
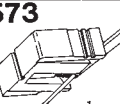
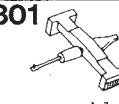
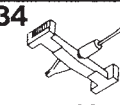
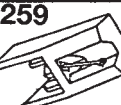
Tonar replacement types for: SIEMENS

L-3	AT-30 E	QLM-30 MK III	RW-150	DN-239	555		
1251  blue	1243  black	1229  grey	898  yellow	981  white	794 DE  orange	406  red	758  yellow
		RS-226		MMD-340		CN-213	
760  blue	813  red	910  white	974  yellow	2473  MM blue	6208  MM blue	6016  light blue	6164  MM orange

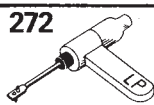
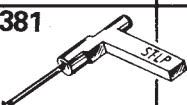
Tonar replacement types for: SIGNET

TKN-3EA	TKN-1; TK-5E	TKN-2; TK-7E	TKN-3; TK-7SU	TK-9 LCA TKN-9 LCA	TKN-7 LCA TK-7 LC	MRN-05 BASIC	TKN-9 Ea
1271  grey	1200  blue/grey	1201  brown	1202  brown	1597  gold	1639  brown	1690	1775  red
TKN-5EA	TKN-6; TK-3E	TKN-7 LCA	TKN-22	TKN-29; TK-9E; TK-10			
1823	1777	1639	6446 	6905 			

Tonar replacement types for: SILVER

SLU-30	SYSTEM 70	SYSTEM 70	SYSTEM 75	SS-85	SYSTEM 90	SYSTEM 100	SYSTEM 110
956  red black	839  red	813  red	813  red	813  red	601  orange	712  orange	573  brown
SS-170	SYSTEM 200	SS-250	SS-270	SYSTEM 300	SYSTEM 1500	SS-3850	SL-5030
813  red IM	710  grey IM	710  grey	813  red	712  orange	573  brown	801  black	882  orange
SL-5050	S-8300		SL-90	SL-770			
753  black	934  black	673  red white	6015  red	6259  red			

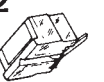
Tonar replacement types for: SINGER

PU-1300	PU-1357	PU-3012					
272  LP	349 	381  SLP					

Tonar replacement types for: SONIC

S-10 C							
725  orange							

Tonar replacement types for: SONICA

SK-58 C	SK-20 s						
792  tr. yellow	no longer available yellow						

Tonar replacement types for: SONOTONE

1 P	3 P	2 T	3 T	8 T; 8 TA 8 TA-77	9 T	12 T	14 T
198 	199 	258 	165 	200 	201 	202 	180
16 T	18 T	20 T	21 T; 22 T; 23 T	25 T; 28 T	26 T; 27 T	32 T; 39 T	60 T
205 	244 	207 	208 	262 	209 	304 	416
100 T	916 T	9 TA	21/24-TA	12 T-LA	12 T-HR	2109; 2509; 2539	2529
302 	206 	271 	415 	203 	204 	435 	587
3509	3539	3559	V-100; V-101				
462 	585 	586 	1093 black				

Tonar replacement types for: SONOVOX

N-11 S	50 S	S-101 C	S-101 E	S-101 SH	SN-300	TC-812 E	
791 black	790 blue	792 tr. yellow	792 DE tr. red	792 ES tr. clear	602 	792 DE tr. red	

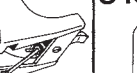
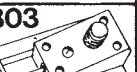
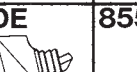
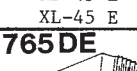
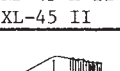
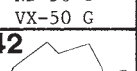
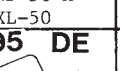
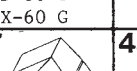
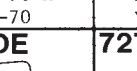
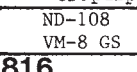
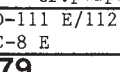
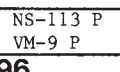
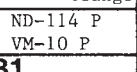
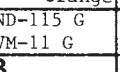
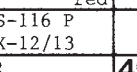
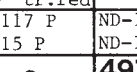
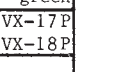
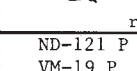
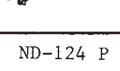
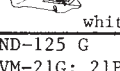
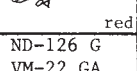
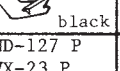
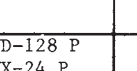
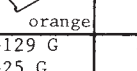
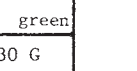
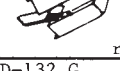
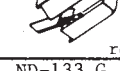
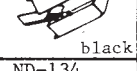
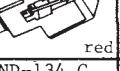
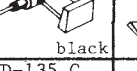
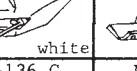
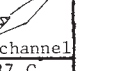
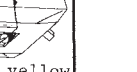
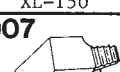
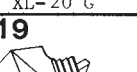
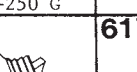
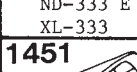
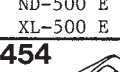
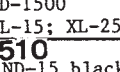
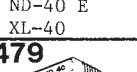
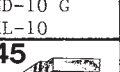
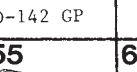
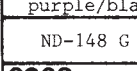
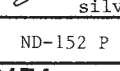
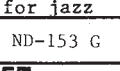
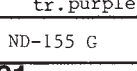
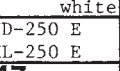
Tonar replacement types for: SONTRA

SN-20							
454 							

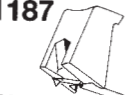
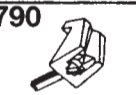
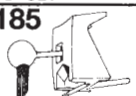
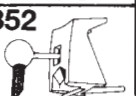
Tonar replacement types for: SONUS

SR-202	BLACK A BLACK C	SILVER E	SILVER P	BRONZE	GOLD BLUE	SUPER BLUE	DIMENSION 5
1421 brown	1422 white	1423 white	1424 white	1425 brown	1426 white	1427 blue	1428 black
CLEAR E	BLACK E	SMOKE E	BLACK BLC	BLACK NLC	GREEN/GOLD	RED/GOLD	
6209 DE clear	6210 DE black	6211 DE smoke	6212 ES black	6213 ES black	1666 	1664 	

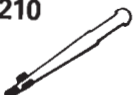
Tonar replacement types for: SONY

ND-MC1 E XL-MC 1	ND-MM1 G XL-MM 1	ND-MM2 E XL-MM 2	ND-MC3 X XL-MC 3	ND-MM3 X XL-MM 3	ND-MC5 X XL-MC 5	ND-5 G VL-5	ND-7 E
1452  red/silver	6022  tr. orange	6022 DE  tr. red	1453  brown/silver	6022 ES  black	1478 MC  black silver	848  blue	848 DE  blue
ND-14 G VL-14 GS	ND-15 G XL-15; VL-15G	ND-15 GA XL-15 A	ND-20 G VC-20	ND-ST 21	ND-25 E XL-25; XL-25A	ND-30 E XL-30	ND-35 E XL-35
773  orange	731  orange	731  orange	1303  silver	556 	854 DE  grey	881 DE  blue	855 DE  tr. red
ND-45 E XL-45 E	ND-45 X XL-45	ND-45 X II XL-45 II	ND-50 G VX-50 G	ND-50 X XL-50	ND-60 G VX-60 G	ND-70 X XL-70	ND-100 G VL-100 G
765 DE  tr. purple	754 ES  tr. purple		742  orange	6095 DE  orange	807  red	458 DE  tr. red	727  green
ND-108 VM-8 GS	ND-111 E/112 E VC-8 E	NS-113 P VM-9 P	ND-114 P VM-10 P	ND-115 G VM-11 G	NS-116 P VX-12/13	ND-117 P VM-15 P	ND-119 P/VX-17 P ND-120 P/VX-18 P
816  red	679 	296  white	531  red	693  black	148 	498  orange	497  green
ND-121 P VM-19 P	ND-124 P	ND-125 G VM-21G; 21P	ND-126 G VM-22 GA	ND-127 P VX-23 P	ND-128 P VX-24 P	ND-129 G VM-25 G	ND-130 G
505  red	499  red	499  red	496  black	532  red	316  black	571  white	323 ES  4-channel
ND-131 G VM-1200 G	ND-132 G VM-22G; VM-26G	ND-133 G VL-30 G	ND-134 VL-32 G	ND-134 G VL-34 G	ND-135 G VM-27 G	ND-136 G VL-33 G	ND-137 G VL-37 G
635  blue	612  black	613  green	662  red	662 DE  yellow	778  red	795  red	819  yellow
ND-138 G VL-38 GS	ND-139 G	ND-141 G VC-41 G	ND-142 G VL-42 G	ND-143 G VL-43 G	ND-144 G VL-44 G	ND-145 G VL-45 G	ND-147
832  red	904  black	1626 MC  red	974  yellow	977  tr. blue	6165  lilac	581  grey	6064  orange
ND-150	ND-150 G XL-150	ND-156 G	ND-200 G XL-20 G	ND-200 E XL-20	ND-220 G VL-20	ND-250 G XL-250 G	ND-301 P
902  green	907  tr. red		919  tr. blue	880 DE  blue	863  red	880  tr. red	6170 
ND-333 E XL-333	ND-500 E XL-500 E	ND-1500 XL-15; XL-25	ND-40 E XL-40	ND-10 G XL-10	ND-142 GP	ND-142 EP	ND-142 EY
1451  purple/black	1454 MC  red silver	1510 ND-15 black for classic ND-15 orange for jazz	1479  tr. purple	6145  white	6155  pink	6155 DE  pink	974 DE  yellow
ND-148 G	ND-152 P	ND-153 G	ND-155 G	ND-250 E XL-250 E	ND-300 G XL-300	ND-105	
6208  blue	6174  red	957  black	981  white	6147  yellow	6143  red	6346  blue	
ND-MC 2 E XL-MC 2	ND-MC 10 E XL-MC 10	PS-212A	CN-234	PSLX-49/CN-234			
1697 MC  red silver	1632 MC  orange/black	758  yellow	6259  red	6259  red			

Tonar replacement types for: STANTON

mark V D-5	E-7 S	LZ-8S; HZ-8S E-8 S	LZ-9S; HZ-9S E-9 S	500 A D-5107 A	500 AA D-5105 AA	500 A/ II D-50 A	500 E D-5100 E
1713  black	1642  tr. brown	1581  black	1551  black	549  black	549  black	1653  blue	549 DE  black
500 E/II D-50 E	500 EE D-5100 EE	500 EE/ II D-50 EE	500 AL D-5107 AL	L-500 AL D-57 P-AL	500 EL D-5100 EL	500 series D-5127	600 A D-6071 A
1550  blue	549 DE  black	1654  blue	6364  DISCO white	1637  white	1789  white	1119  78 rpm	964  black
600 E D-6004 E	600 EE D-6003 EE	600 series D-6027	680 AL D-6800 AL		680 EL DISCO D-6800 EL	680 SL DISCO D-6800 SL	680 AMC D-6800 AMC
964 DE  black	964 DE  black	1187  78 rpm	1643  white		6390 DE  white	1350  white	1552  black
680 BPSM D-6800 BPSM	680 BPSR D-6800 BPSR	681 A D-6807 A	681 E D-6800 E	681 EE D-6800 EE	681 EEE D-6800 EEE	681 EEE/S D-6800 EEE/S	681 EEE/S II D-6800 EEE/S II
1553  black	1644  black	548  black	548 DE  black	548 DE  black	669 DE  black	1652  black	1652  black
681 SE D-6800 SE	681 series D-6827	STC-710 D-70 E	L-720 EE D-71 EE	L-725 E D-71-2E	L-727 E D-72 E	STC-730 D-71-2E	L-737 S D-73 S
1112  black	1184  78 rpm	1791  black	1485  black	1790  black	1486  tr. clear	1790  black	1487  tr. clear
L-737 E D-73 E	STC-740 D-72 E	L-747 S D-74 S	L-837 S D-83 S	L-847 S D-84 S	881 S D-81	881 series D-827	980 LZS D-98 S
1488  tr. clear	1486  tr. clear	1489  tr. clear	1640  white	1641  white	805 DE  white	1185  white 78 R.P.M.	1352  tr. clear

Tonar replacement types for: STARE

210 							
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Tonar replacement types for: STEEL NEEDLES

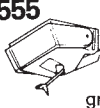
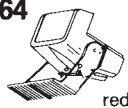
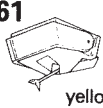
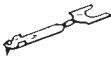
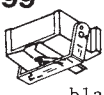
Laubscher forte 11	EDISON CILINDER	Laubscher PPP 34	VERY SOFT TONE	SOFT TONE	MEDIUM LOUD TONE	LOUD TONE	VERY LOUD TONE
1886  BOX 200 PCS. 15.0 x 1.5 MM	6317  AMBEROLA	1888  BOX 100 PCS. 15.5 x 0.8 MM	6459  BOX 100 PCS. 16.0 x 0.8 MM	6460  BOX 100 PCS. 18.0 x 1.0 MM	6461  BOX 100 PCS. 17.0 x 1.4 MM	6462  BOX 100 PCS. 18.0 x 1.5 MM	6463  BOX 100 PCS. 16.0 x 1.7 MM

In old 78 RPM record players – so called Pathé-phones – there was no amplifier. Instead the volume is controlled by the shape and the dimensions of the steel needle. We are proud to announce newly manufactured steel needles which are available in boxes of 100 pcs. and in various tone types like very soft tone, soft tone, medium loud tone, loud tone and very loud tone.

Tonar replacement types for: SUPEX

SM-38	SM-38 E	SMM-5					
984  black	984 DE  black	6214  black					

Tonar replacement types for: **SUPRAPHON / TESLA**

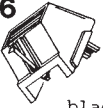
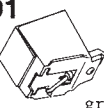
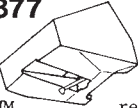
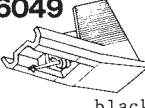
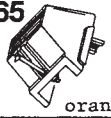
KS-22 378 	VK-311/68317 450 	VK-4302 464  turnover	VM-2101 1052  black	JT-311 555  green	VK-4302 1066 *  single tip	JT-511 664  red	JT-411 761  yellow
E-100 1093  black	VK-4202 1066 	VK-051 27 	VM-2102 1599  black	VM-2103 1834  red	VM-2204 1835  black		

* Naald VK-4302 (T-naald) wordt geleverd als naald voor VK-4202 met gebruiksaanwijzingen.
The stylus for VK-4302 (T-Bar) is delivered identical to the stylus for the VK-4202 along with mounting instructions sheet.

Tonar replacement types for: **TANNOY**

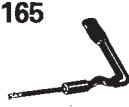
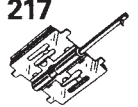
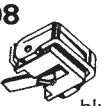
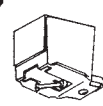
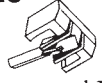
MK-11 213 							
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Tonar replacement types for: **TEAC**

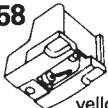
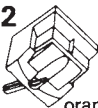
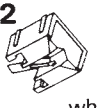
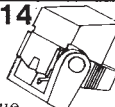
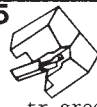
866  black	909  black	601  brown	PC-707 ; N-707 991  grey	PC-313 877  red	PCS-708 PC-708 6049  black	898  yellow	758  yellow
P-75 6259  red	PX-550 865  orange						

Tonar replacement types for: **TECHNICS, See: NATIONAL**

Tonar replacement types for: **TELEFUNKEN**

2 TS 258 	3 TS 165 	8 TS 200 	A 20/1; T 20/1 217 	A 20/2; T 20/2 218 	A 23/1 311 	A 23/2; T 23/2 A 25/2; T 25/2 299 	A 200; T 200 219 
TTSA 216 	STYLUS-12 LMA-12 1318 	STYLUS-5 LMA-5 1319 	TM-500 608  blue	TM-600 A-600 D 781  l.brown	ATN-72 895  brown	ATN-3410 898  yellow	917  red
STYLUS 10 NEW OMB-10 1276  black	TM-400 526  blue	904  black	916  black	M-22 6242  yellow			

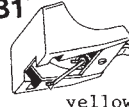
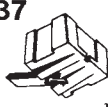
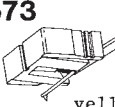
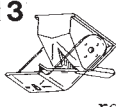
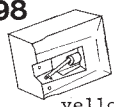
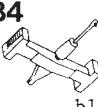
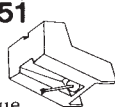
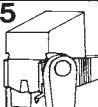
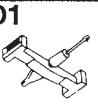
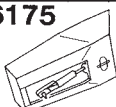
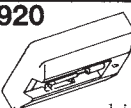
Tonar replacement types for: **TELETON**

CMS-500/400/ 300	DST-17/S-100 G; CS-400/401	ATN-71	MST-31	MPC-7		MST-5	MST-6
452 	571  white	758  yellow	712  orange	822  white	801 	661  grey	822  white
N-1520	MM-321 B						
6014  blue	945  tr.green	673  red	974  yellow				

Tonar replacement types for: **TENOREL**

T-2001	T-2001 ED	T-2001 SD					
622  white	622 DE  black	622 ES 					

Tonar replacement types for: **TENSAI**

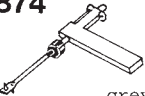
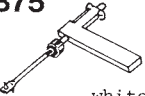
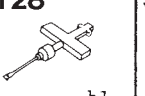
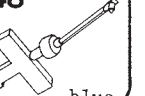
			Jelco 9 A				
831  yellow	712  orange	637  red	573  yellow	813  red	898  yellow	934  black	877  orange
L-3		L-4				MC-390	MC-3750
1251  blue	974  yellow	6042  blue	910  red	6015  white	917  red	801 	6175  red
compo 15 compo 25							
920  white							

Tonar replacement types for: **TEPPAZ**

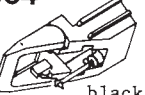
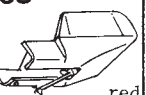
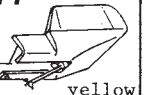
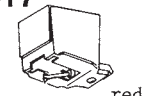
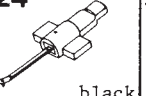
ECO 60/423; 26	MT-30	STEREO	VISSEAU	JUPITER			
292 	446 	215 	214 	557 			

Tonar replacement types for: **TESLA, See: SUPRAPHON**

Tonar replacement types for: TETRAD

T-5 H	T-2 MS T-2 MD	T-3 MS T-3 MD	T-12 MS T-12 MD	T-20 MS T-20 MD	T-50 HS	T Z-1 S T Z-1 D	T-30 MS T-30 MD
874  grey	875  white	6002  blue	6007  red	6001  white	6038  grey	6128  blue	948  blue

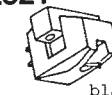
Tonar replacement types for: THOMPSON

L-4	T-H 5 S	T-H 5 E	AT-10	ATS-11	ATS-11 E	ATN-12 XE	ATN-13 Ea
1400  blue	904  black	904  black	568  red	677  yellow	741  green	781  brown	794  orange
STC-100 D	STC-1000 D		ATN-3721			DN-105	M-22
157  black	157  black	917  red	831  yellow	524  black	935  black	1529  black	6242  yellow

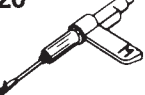
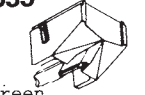
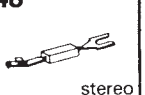
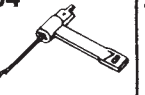
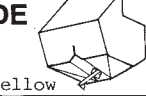
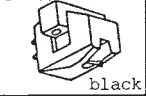
Tonar replacement types for: THORENS

M-200 E D-200 E	LMB-12						
1320  black	1318  black						

Tonar replacement types for: TONACORD

TM-1000	TM-1000 S	TM-511	TMC-100				
815  5mV yellow	550 ES  white	664  red	2521  black				

Tonar replacement types for: TONAR

5-POLE	5-POLE-2	JT-311	JT-322	NC 100; 202; 203 NC 505; 400; 400H	NC 202; 203; 400 NC 400H	NC-700	NC-770
436  gold	20  white	555  green	550  white 4-channel	27  stereo	148  stereo	494  red	270  red
NM-11-A	NM-22	NM-33	NM-33-A	NM-66	NR-1	CDS-650	511
222  gold	263  white	296  white	453  blue	447  grey	363  red	614  red	960  red
511 BE	555	611	611 BE	711 MC	BAKTRAK	DIABOLIC E	BANANA
960  yellow	DE 960  black	6176  white	6177  yellow	2521  black	1811  yellow	1953  red	1812  yellow

Tonar replacement types for: TETRAD

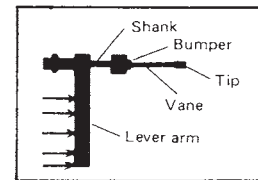
IMPORTANT POINTS ON TETRAD NEEDLES — All TETRAD needle models are very similar in construction. The shank portions vary only in the length of the metal vane and the position of the rubber coupler, or bumper. The scale drawings in the middle left side of each illustration block are exact size.

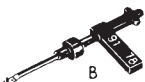
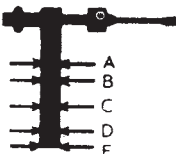
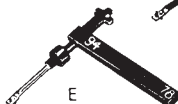
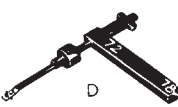
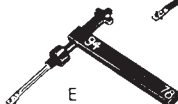
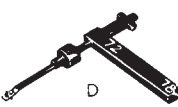
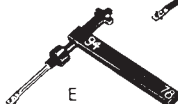
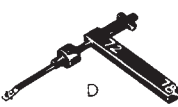
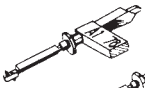
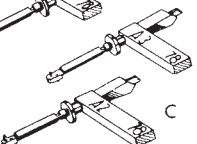
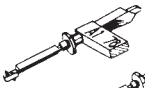
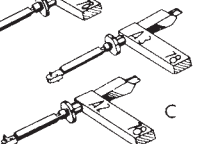
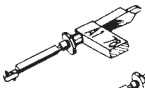
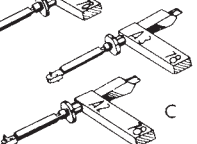
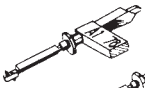
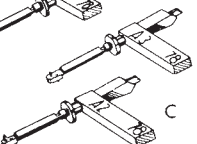
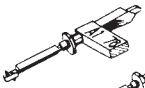
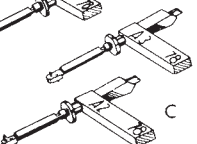
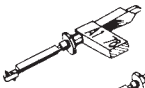
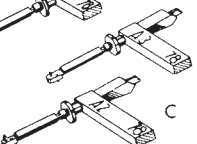
Although the major difference shown in each scale drawing is the length of the handle, there are many vital, significant differences. Engineering specifications such as the rubber flexibility, length and thickness of the tube and material composition are all factors in reproducing the full frequency cycle range, smooth response characteristics and good tonal qualities of sound reproduction.

To determine needle group needed, we suggest placing the old needle directly on the scale drawings until a match is found where shank, bumper, vane and lever-arm of drawing agree with actual needle. There may be a slight variation in length of a few thousandths of an inch, which does not affect playback performance.

Lever arm lengths are indicated by the letters A, B, C, D and E in the illustrations. Match the old needle lever arm to determine the arm length needed (A, B, C, D or E). If in doubt, it is advisable to purchase the "E" length and cut off a portion of the lever arm to fit.

PLEASE NOTE: All ALL-PLASTIC needles may be replaced by HIGH-COMPLIANCE METAL NEEDLES. The second column of TONAR numbers under the ALL-PLASTIC needle section gives you immediately the TONAR number of the HIGH-COMPLIANCE needle replacing the ALL-PLASTIC needle concerned.



HIGH COMPLIANCE NEEDLES				TONAR N ^o		TURNOVER-ARM LENGTH					
TONAR N ^o		TURNOVER-ARM LENGTH		NEW	OLD	TETRAD NRS.		ILLUSTRATIONS			
NEW	OLD	TETRAD NRS.		ILLUSTRATIONS		TETRAD NRS.		ILLUSTRATIONS			
281	—	A	50; 60 A-0; B-0; C-0*	330	—	A	70	 			
—	—	—	51	—	—	—	80				
327	332	B	61	473	—	—	90				
—	—	—	A-1*; B-1; C-1*	335	—	B	71	 			
—	—	—	53	—	—	—	81				
328	333	C	63	373	—	—	91				
—	—	—	A-3*; B-3; C-3*	337	—	C	73	 			
—	—	—	52	—	—	—	83				
266	294	D	62	331	—	—	93				
—	—	—	A-2*; B-2; C-2*	336	—	D	72	 			
—	—	—	64	—	—	—	82; 92				
329	334	E	64	338	—	E	74				
—	—	—	A-4; B-4; C-4	475	—	—	84	 			
—	—	—	20	—	—	—	94				
319	324	A	40	*ALL PLASTIC NEEDLES							
—	—	—	E-0; G-0	TONAR N ^o		TURNOVER-ARM LENGTH					
—	317	—	21	All Plastic	H.C. ^o	TETRAD N ^o		ILLUSTRATIONS			
221	282	B	41	481	327	A	A-1	  			
—	—	—	121	483	328	B	A-3				
—	—	—	E-1*; G-1*	—	—	—	—				
293	325	C	43	482	266	C	A-2	  			
—	—	—	E-3*; G-3*	—	—	—	—				
—	320	—	22	471	281	A	C-0				
283	—	D	42	484	327	B	C-1	  			
—	—	—	E-2*; G-2*	486	328	C	C-3				
321	326	E	44	485	266	D	C-2				
—	—	—	E-4; G-4	—	—	—	—	  			
295	322	A	10	487	221	A	E-1				
—	—	—	30	489	293	B	E-3				
220	220	B	11	488	283	C	E-2	  			
—	—	—	31; 111	490	221	A	G-1				
265	291	C	13	492	293	B	G-3				
—	—	—	33	491	283	C	G-2	  			
264	316	D	12	Yellow							
—	—	—	32	Light blue							
318	323	E	14	Grey							
—	—	—	34								

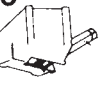
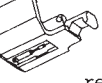
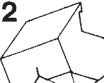
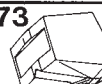
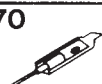
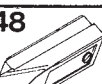
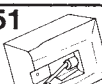
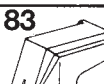
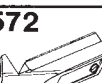
* Also available as All Plastic type.

^o High Compliance replacement for All Plastic needle.

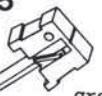
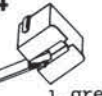
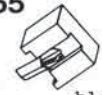
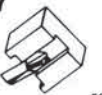
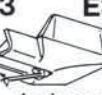
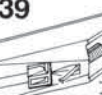
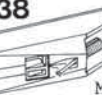
* Also available as All Plastic type.

° High Compliance replacement for All Plastic needle.

Tonar replacement types for: TOSHIBA

TP-102;106; TP-114	TP-102;106 TP-114	N-2 C	N-3 C C-03 C;C-10C	N-4 CS C-07	N-04 C C-04 C	N-6 C	N-6 L C-6 L
27 	148  stereo	148 	578  black	296  white	508 	148 	1474  tr.green
N-6 Z C-6 Z	N-11 C SM-280;290	N-12 C C-26 M	N-13 C C-27 M	N-14 D	N-20 C	N-21 D	N-33 C C-911
1476  tr.purple	456  white	398  grey	542  IM white	571  white	920  white	910  red	876  black
N-34 C;N-35 D C-34 M;C-35 M	N-40 C	N-44	N-45 C C-45 M	N-50 C C-50 M	N-51 C	N-52 DY	N-53 DY
887  red	934  black	6115  IM blue	962  IM orange	972  MM red	972  MM red	677  yellow	568  red
N-55 DY	N-56 DY	N-57 DY	N-58 C C-58 M	N-59 DY	N-60 DY	N-62 C;N-63 D C-62 M;C-63 M	N-64 C C-64 M
768  green	915  grey	768 DE  green	804  tr.violet	748 DE  blue	925  tr.purple	950  MM red	963  IM red
N-66 C;N-67 D C-66 M;C-67 M	N-68	N-69 D C-69 M	N-70 C	N-71 D C-71 M	N-72 D C-72 M	N-80 D C-80 MC	N-88 D C-88 MC
950  MM red	887  red	6131  IM red	925  tr.violet	832  red	935  black	1373  red	1407  green black
N-160 C C-160 M	N-210 C C-210 M	N-220 ME/X C-220 M	N-230 C C-230 M	N-250 C C-250 M	N-260 C C-260 M	N-280 C C-280 M	N-290 D
862  orange	826  red	6116 ES  red	826  red	6047  smoke	816  red	6101  MM white	6052  MM black
N-292	N-300 C C-300 F	N-301 C C-301 F	N-310 C C-310 M	N-320 D C-320 M	N-330 D C-330 M	N-400 N-403 S-C	N-404 C-EX
973  white	570 	508 	944  orange	914  tr.green	914  tr.green	1339 	1348 
N-500 C C-500	N-550 C C-550 M		C-30 M	C-32 M	N-74 C C-74 M	N-74 DY	N-75 C C-75 M
6129  tr.green	373  tr.blue	851  white	6183  red	6154  red	6139  IM grey	6139 	6138  MM black
N-76 DY	N-293 DY	N-402 S-D	TP-116 SD	N-16 D	SR-V-22	N-36	N-37 C
6138  black	851  white	1572  nickle	6190  white	917  red	673  red	6084  red	6225  dark blue
N-61	N-77 C	N-78 D	N-15 C	N-17 D	N-73 CY	N-501 C	
951  white	6207 	393  black	6195  MM orange		6174 	813  MM red	

Tonar replacement types for: TRIO

N-6 AT 296  white	N-11 758  yellow	N-15 0 MK II 803  white	NF-15 0 MK II 802  red	N-20 780  white	N-23 445  grey	N-25 654  l. grey	N-26 771  black
N-30 654  l. grey	N-31 655  black	N-32; N-33 571  white	N-34 541  white	N-35 686  brown/silver	N-36 656  dark grey	N-37 657  red	N-38 325  scarlet
N-39 326  orange	N-39 MK II 958  black	N-39 MK III 829  black	N-40 323 ES  4-channel	N-41 677  yellow	N-42 323 ES  4-channel	N-43 658  blue	N-44 688 ES  4-channel
N-45 1493  MC	N-46 755  black	N-47 730  white	N-48 758  yellow	N-49 764  orange	N-50 908  black	N-51 E 908 DE  black	N-52 6008  blue
N-53/V-53 876  black	N-54 6021  blue	N-55 1408  MC blue	N-56; N-56 B 935  black	N-57 1407  green/black	N-58 6139  IM black	N-59 6138  MM dark grey	N-77 6353  grey
N-61 6204  MM blue	N-62; V-62 6183  red blue	N-63 6158  blue	N-64 393  black	N-64 C 393 DE  black	N-65 6249  green	N-66 6257  MM red	N-67 6258  MM red
N-68 6283  MM blue	N-69 6259  MM red	N-70 1586  grey	N-71 6291  black	N-72 6335  l. blue	N-73 6204  purple/blue	N-74 6334  black	N-75 957  black

Tonar replacement types for: TRIO TRACK

		AC-100	AC-1				
72  red	390  white	239 	239 				

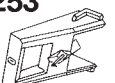
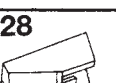
Tonar replacement types for: UHER

					L-4	Q-4	MMD-345
956  red	832  red	973  white	6016  blue	974  yellow	1251  blue	1401  blue	2474  black

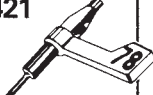
Tonar replacement types for: UNITRA

MF-100	MF-102	UF-70		MF-101			
622  white	622  white	6262  red	311  white	622			

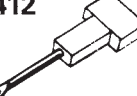
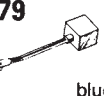
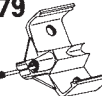
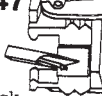
Tonar replacement types for: U.P.O. 'S

CN-108			KP-20				
6241  IM orange	6239  MM blue	6164  MM red	6133  white MM	6171  IM	6173  MM yellow	6196  MM black	6253  IM grey
6242  MM yellow	6243  MM green	6245  MM gold	6240  IM violet	6016  light blue MM	6130  light green MM	6051  white MM	6234  IM red
6172  red	6174  red	6175  red	6259  red MM	6228  red MM	6229  IM black	6258  red MM	6260  red MM
CN-229	MG-2721	CN-234	CN-111	CN-246; CN-252	CN-254	CN-251	
6346  blue	6353  grey	6259  red	6198  IM black	6353  grey	6366  MM black	6365  yellow	

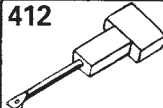
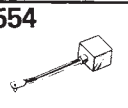
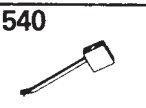
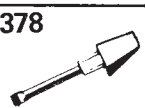
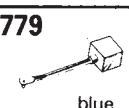
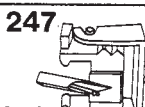
Tonar replacement types for: VACO/LUXOR

M 50	MS 8; SN 45	S 45	SN-65-75	ST 20/40; ST 100	ST 20/40	STP 2	T 45
226 	227 	224 	278 	27 	223 	148  stereo	225 
TN-02H	TN-04	TN-8					
279 	417 	421 					

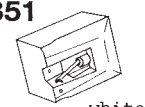
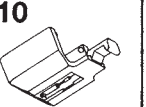
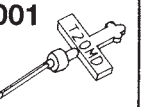
Tonar replacement types for: VALKONA

KD-69	CS-21; KS-23	KSS-0162	KSS-0163	CN-24	MS-16	KS-231	MS-27 D
412 	554 	540 	378 	779  blue	1179 	779 	1247  black

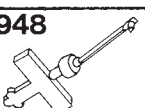
Tonar replacement types for: **V.E.B.**

KD-69 412 	KS-22 378 	CS-21; KS-23 554 	KSMU-0261 448 	KSS-0162 540 	KSS-0163 DS-262 378 	MS-8 308 	CN-24 779  blue
KS-231 779 	MS-27 D 1247  black						

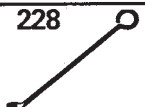
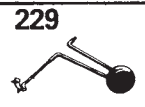
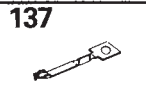
Tonar replacement types for: **VISONIK**

YM-818 6130  green				T-20 MS 851  white	456  white	910 	6001 			
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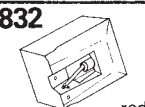
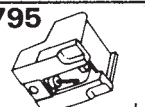
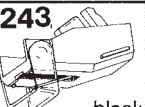
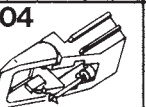
Tonar replacement types for: **WALTHAM**

T-30 MS 948  blue							
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Tonar replacement types for: **WEBSTER ELECTRIC**

SC 1 228 	SC 3 229 	WE 14/15 230 	WE 57/58 137 				
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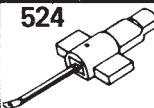
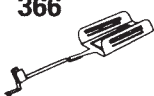
Tonar replacement types for: **WEGA**

832  red	ATN-70 795  red	MCN-42 1243  black	ND-139 G 904 				
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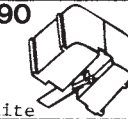
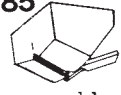
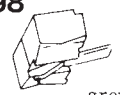
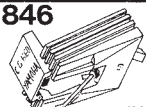
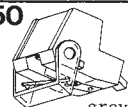
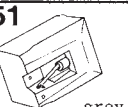
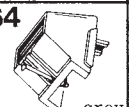
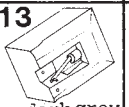
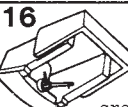
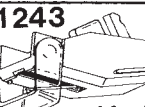
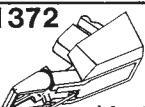
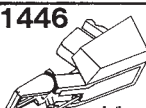
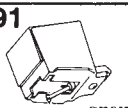
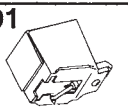
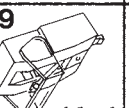
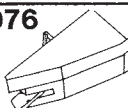
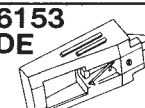
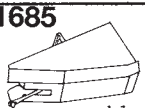
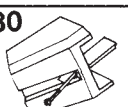
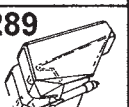
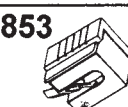
Tonar replacement types for: **WEHKAMP**

KSMU-0261 448 							
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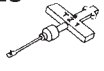
Tonar replacement types for: WILSON

524 	366 						
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Tonar replacement types for: YAMAHA

MC-101	N-3000	N-3500 N-4000	N-4500; N-4500 MK II	N-5000	N-5500	N-6000	N-6500
NO LONGER AVAILABLE MC	296  white MM	690  white	785  black	398  grey	542  white	NO LONGER AVAILABLE	571  white
N-6600	N-6600 S	N-6700	N-6800	N-6900	N-7000	N-7030	N-7050; M-705 MC
846  red	850  grey	851  grey	864  grey	6113  dark grey	716  grey	1243  black	1372  black
N-7080; MC-708	CG-7700	N-7800	N-7900	N-8000	N-8010; MC-801	N-8100	N-8200
1446  black	991  grey	991  grey	6114 DE  tr. ruby	929  black	976  black MC	6153 DE  black	1685  blue
N-102	N-103	CG-8300 N-8300	N-8400	AL-E 500	N-2500		
6148  grey	980  red	6266  tr. dk. grey/blue	6289  tr. blue	6266  tr. black	6853 		

Tonar replacement types for: ZENITH

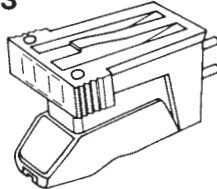
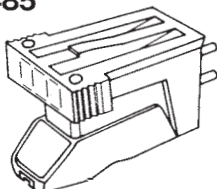
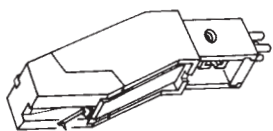
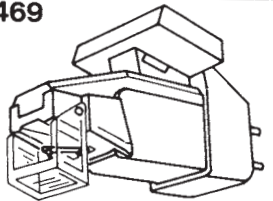
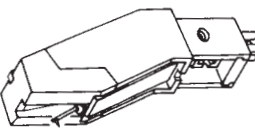
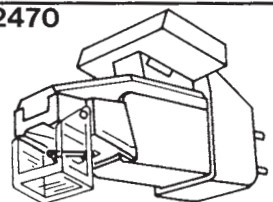
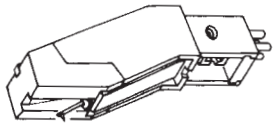
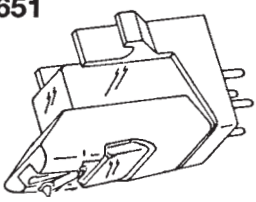
142-185	142-76/77	142-80	142-90	142-126/128	142-136/141	142-150	142-167
6128  blue	233  brown LP/78	104  blue	103  red	234 	235 	268 	423 
S-15222	S-15780	S-11473	14271	14272	14273		
1986  green	1988 DA  allplay green/red	1990 DN  red 78 rpm	232 DS  blue	232 DA  yellow allplay	232 DN  purple 78 rpm		

IMPORTANT!

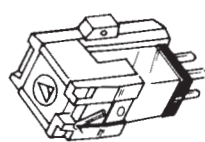
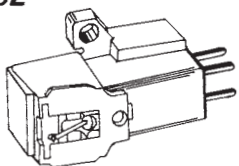
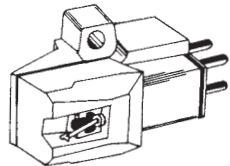
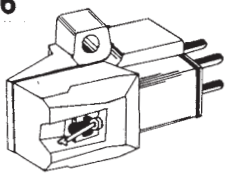
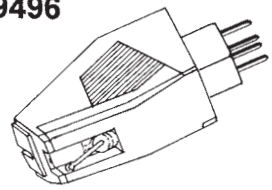
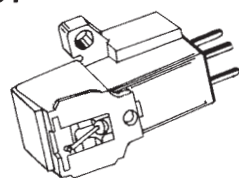
On the following pages you will find a listing of the most important crystal, ceramic and magnetic cartridges in our line. Almost all of these cartridges have special attachments and cannot be replaced by other cartridges. Most cartridges with a universal 1/2 inch screw mounting have not been listed as these can economically be replaced by the Tonar models, which are listed in the first part of our catalogue.

In the case you require a model, which is not listed on these pages, please contact the importer in your country as in most cases we will be able to supply the one you are looking for.

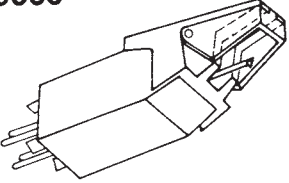
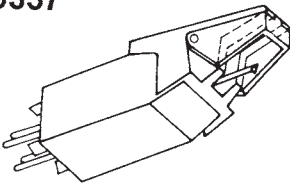
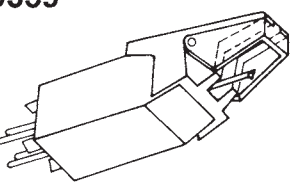
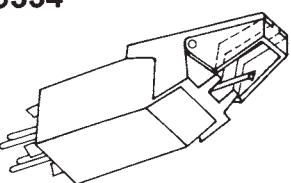
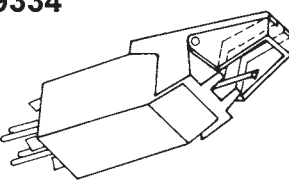
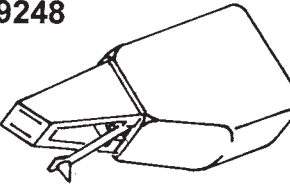
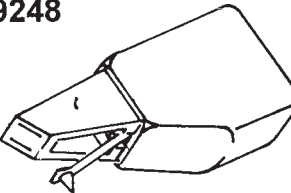
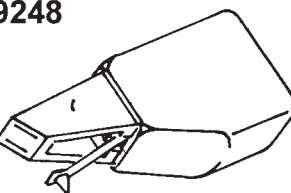
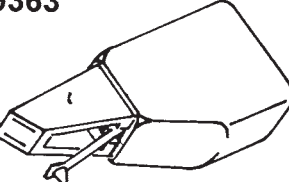
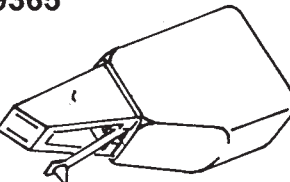
Tonar replacement types for: A.D.C.

QLM-30 MK III B Slidemount bracket	QLM-32 MK III B Slidemount bracket	L-3	Q-3
2453 	2485 	2466 	2469 
L-4	Q-4	L-5	QLM-30 MK3
2467 	2470 	2468 	2651 

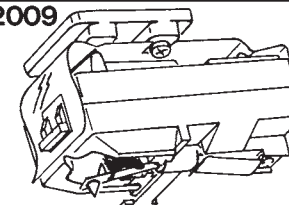
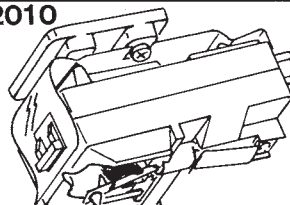
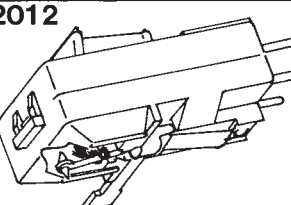
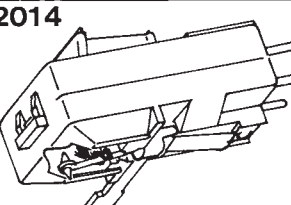
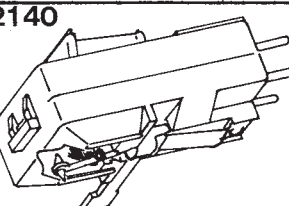
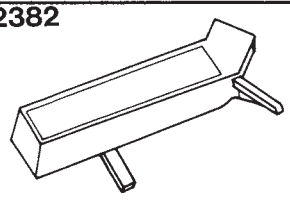
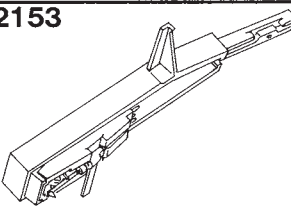
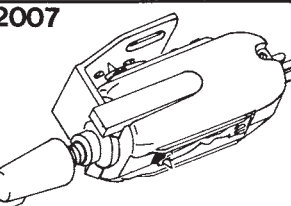
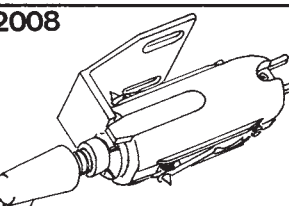
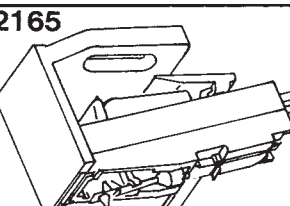
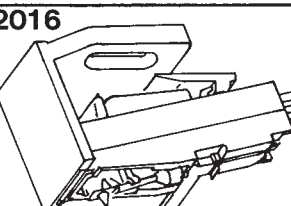
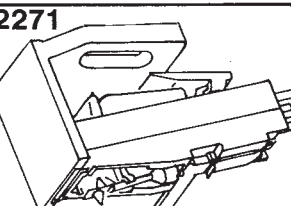
Tonar replacement types for: AUDIO TECHNICA

AT-71	AT-91	AT-3400	AT-95E; AT-3451 E
2648 	2392 	2492 	2806 
AT-3482 PB	AT-3600 L		
9496 	2491 		

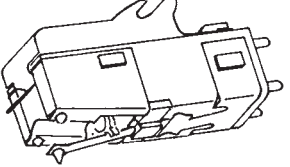
Tonar replacement types for: BANG & OLUFSEN

MMC-1 9355 	MMC-2 9357 	MMC-3 9359 	MMC-4 9334 
MMC-5 9334 	MMC-10 E REPLACED BY MMC-20 S 9248 	MMC-20 S 9248 	MMC-20 E 9248 
MMC-20 EN 9363 	MMC-20 CL 9365 		

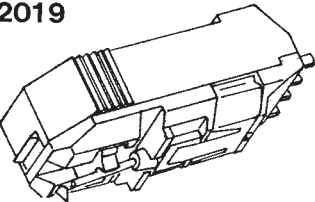
Tonar replacement types for: B.S.R.

X-5 H 2009 	X-5 M 2010 	SC-5 H 2012 	SX-6 M 2014 
SX-6 H 2140 	SC-7 M-2 2382 	SC-7 M-4 2153 	TC-8 S 2007 
TC-8 H 2008 	SC-11 M 2165 	SC-12 M 2016 	SC-12 H 2271 

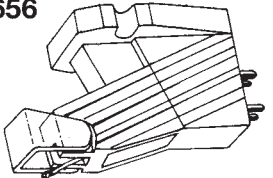
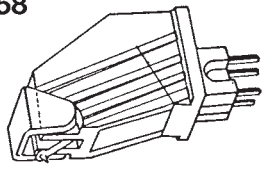
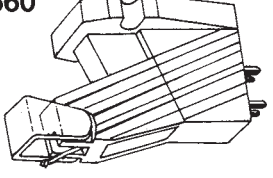
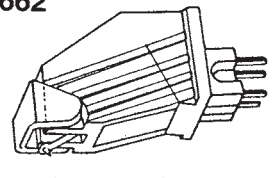
Tonar replacement types for: **CONER**

RCQ-mono	RCS-stereo		
2018 	2017 		

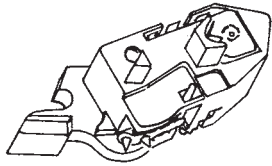
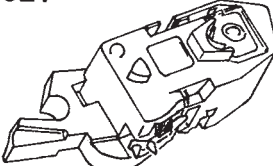
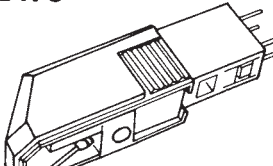
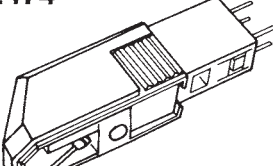
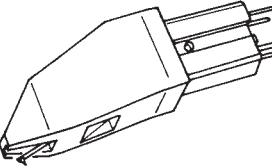
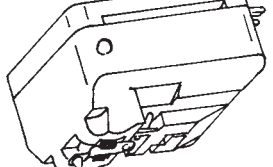
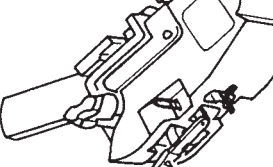
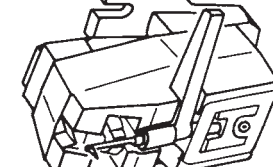
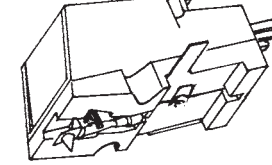
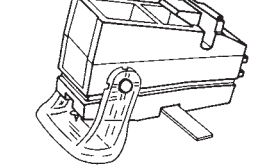
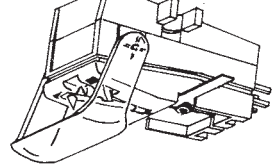
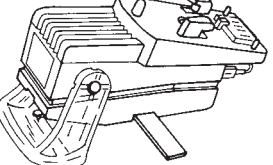
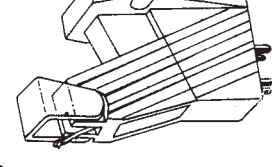
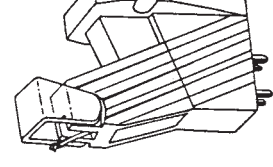
Tonar replacement types for: **COSMO**

TC-0014			
2019 			

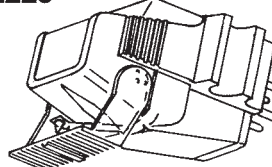
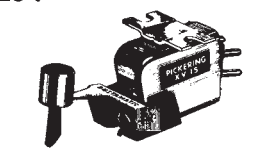
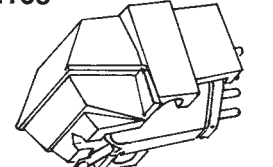
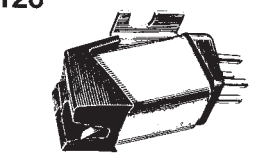
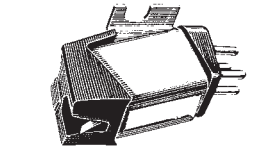
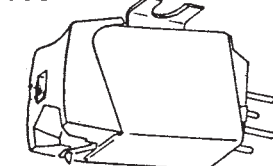
Tonar replacement types for: **DIGITRACK**

25 S	25 SP	50 E	50 EP
2656  1/2 inch mounting	2658  T-4 P plug-in cartridge	2660  1/2 inch mounting	2662  T-4 P plug-in cartridge

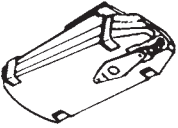
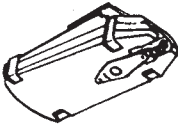
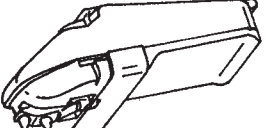
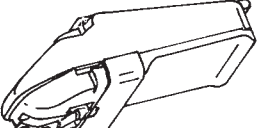
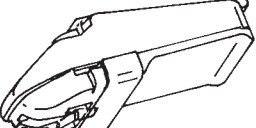
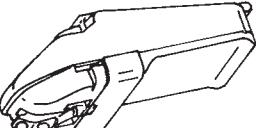
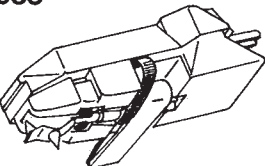
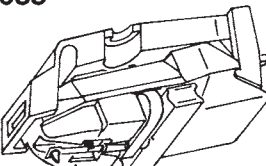
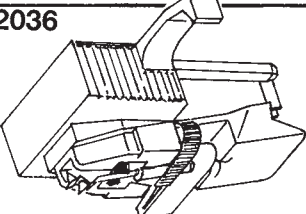
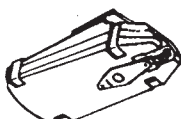
Tonar replacement types for: DUAL

CDS-3/34 2020 	CDS-320/3 2021 	MMD-340 2473 	MMD-345 2474 
MMD-360 E 2475 	CDS-420/43 2022 	CDS-520 2023 	CDS-630 2028 
CDS-660 2024 	CDS-670 2327 	CDS-671 2025 	TKS-670 2471 
DMS-245 2525 	DMS-249 2646 		

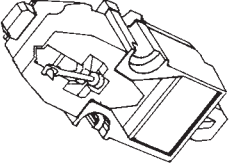
Tonar replacement types for: DJ CARTRIDGES

NAGAOKA JT-511 DJ 2225 	PICKERING XV-15 625 DJ 2294 	SHURE SC-35 C 2109 	STANTON 500 AL 2126 
STANTON 500 EL 2695 	STANTON 680 AL 2548 	STANTON 680 EL 2353 	STANTON 680 SL 2347 

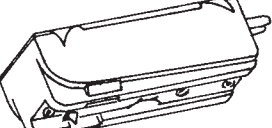
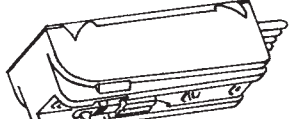
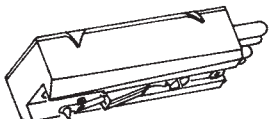
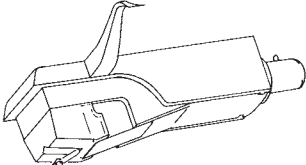
Tonar replacement types for: **ELAC**

KST-5	KST-9; KST-19	KST-11	KST-12
2696	2030 	2697 	2698 
KST-22	KST-102	KST-103	KST-104
2699 	2031 	2700 	2032 
KST-106	KST-109	KST-110 D	KST-112
2033 	2701	2035 	2036 
KST-115	KST-21		
2610	9385 		

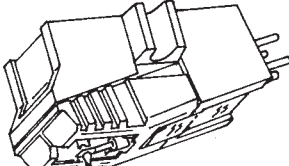
Tonar replacement types for: **FONICA**

UF-70			
2552 			

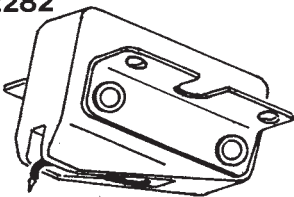
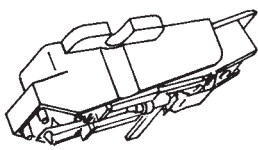
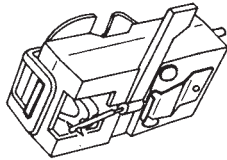
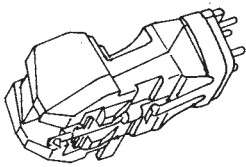
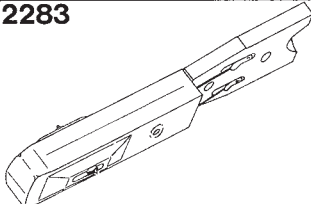
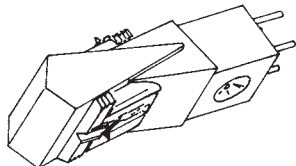
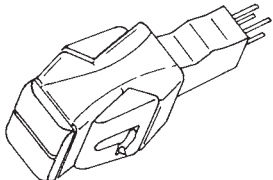
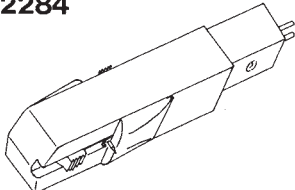
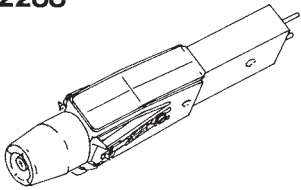
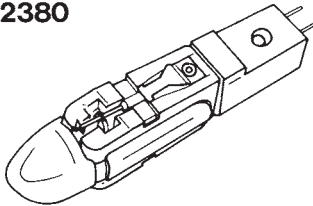
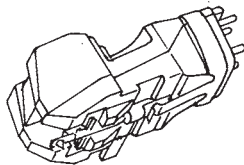
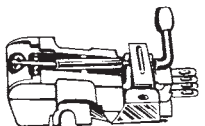
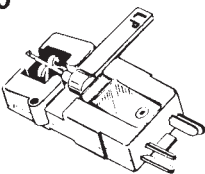
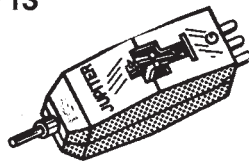
Tonar replacement types for: **GENERAL**

MC-110	SC-110	NX-600	C-712-01 IN SME SHELL
2219 	2221 	2220 	2258 

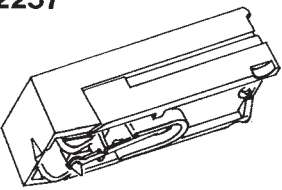
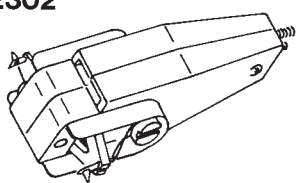
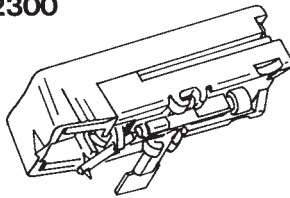
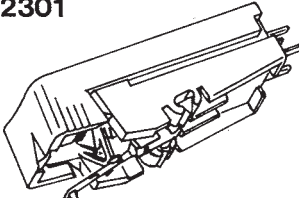
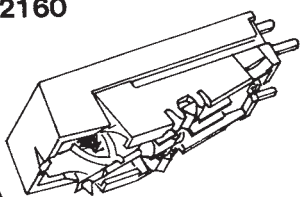
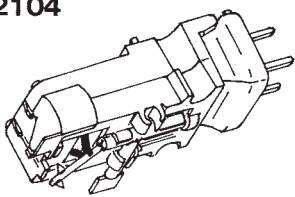
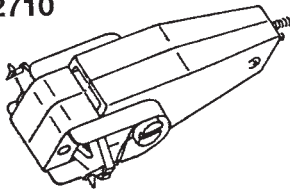
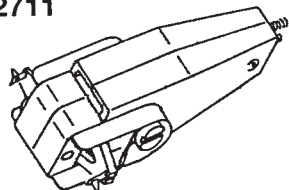
Tonar replacement types for: **JAPAN COLUMBIA**

JL-23; JC-23			
2273 			

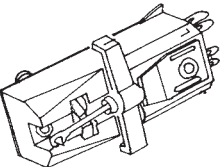
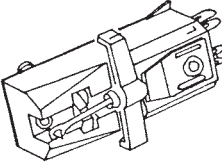
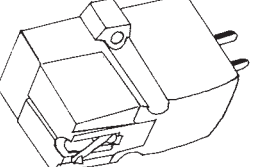
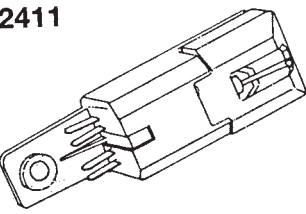
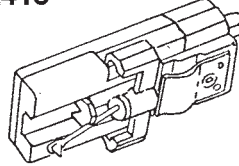
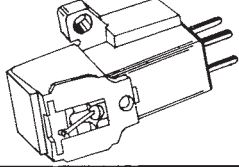
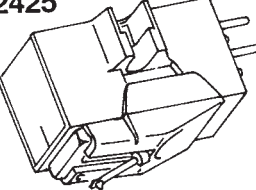
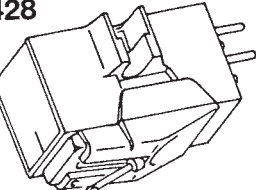
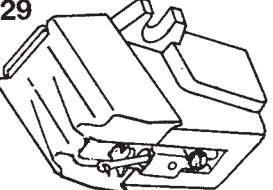
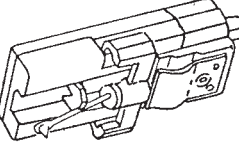
Tonar replacement types for: **JUKEBOX TYPES** (see also **SCHUMANN** types)

ASTATIC 51-1 M	ASTATIC STEREO	ASTATIC 146 (15 D)	ASTATIC 133 DD (N-51 D)
2282 	2287 	2333 	2346 
Seeburg 631238; A-251620 Pickering black	Seeburg Stereo 249755 Pickering	Seeburg Showcase 253781	Seeburg 246796-(2) Pickering
2283 	2285 	2286 	2284 
Seeburg Conversion Cartridge models "B" through "201"	Seeburg Conversion Cartridge models "B" through "201"	Wurlitzer 138662	ASTATIC/SONOTONE
2288 	2380 	2346 	2620 
	SONOTONE 31 TA	TEPPAZ JUPITER FOR JUPIMATIC JUKEBOX	ZENITH COBRA
2623	2340 	2713 	2624

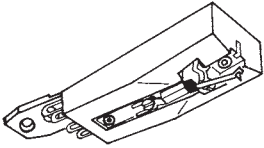
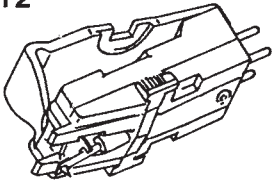
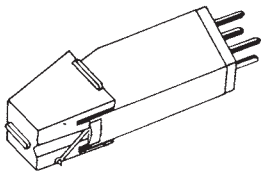
Tonar replacement types for: **LESA**

C-1	E-3	F	K-2
2257 	2302 	2300 	2301 
K-3	W	E-2	E-4
2160 	2104 	2710 	2711 

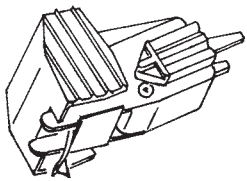
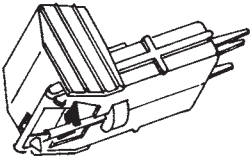
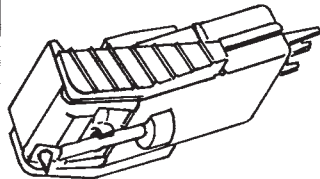
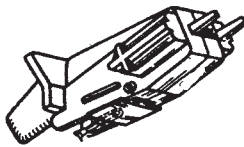
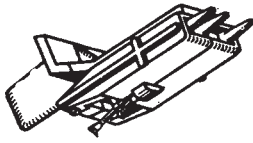
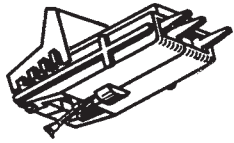
Tonar replacement types for: **NATIONAL**

EPC-02 STH	EPC-05 STA	EPC-05 STAD	EPC-09 STAD
2404	2408 	2409 	2410 
EPC-13 STH	EPC-34 TTCD	EPC-34 STCD	EPC-36 SMAD
2411 	2414	2413 	2415 
EPC-36 SMBD	EPC-42 STAD	EPC-69 STLD	EPC-69 STA
2416	2417	2438	2418
EPC- 74 SMAD	EPC-76 SMAD	EPC-77 SMAD	EPC-78 SMAD
2420	2423	2424	2425 
EPC-79 SMAD	EPC-82 SMAD	EPC-95 SSED	EPC-34 STBD
2427	2428 	2429 	2412 
EPC-451 C			
2434			

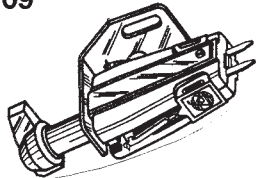
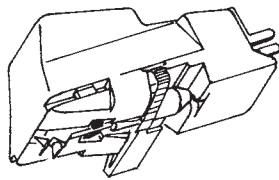
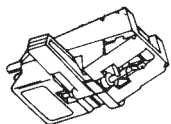
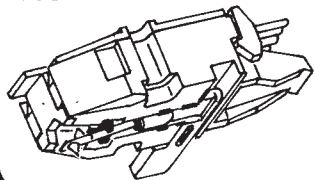
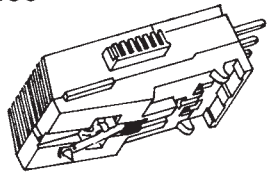
Tonar replacement types for: NIVICO

CS-1021 H	DT-51	DT-36	MD-1041 Z
2361 	2512 	2531	2541 

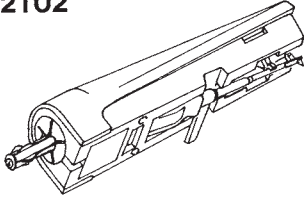
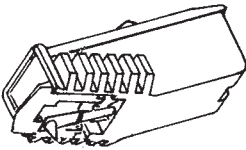
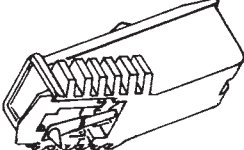
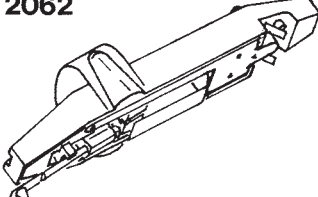
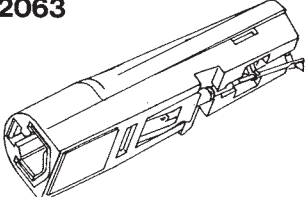
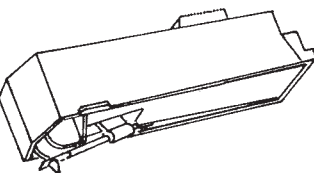
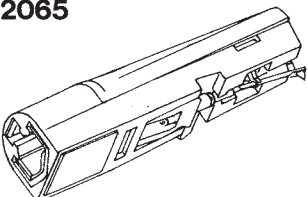
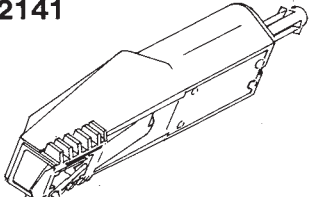
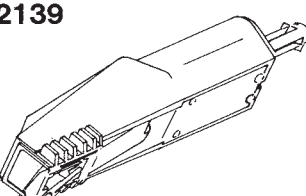
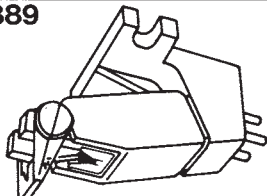
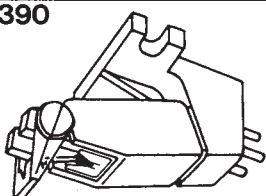
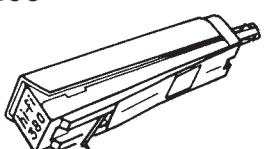
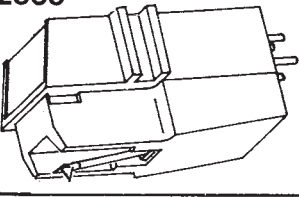
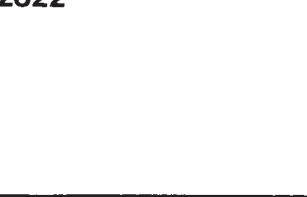
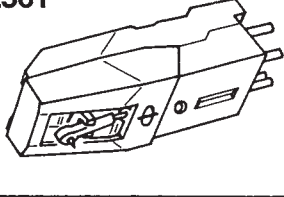
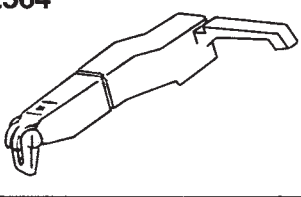
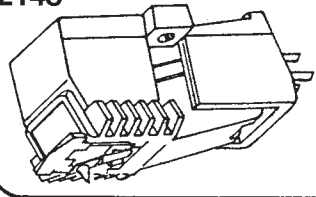
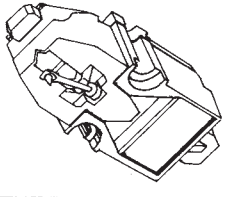
Tonar replacement types for: PATHE MARCONI

MUCS/MCS – MONO	STUCS/STC-S STEREO	STC-41 STEREO	MUCS/MCS – MONO RED GRIP
2052 	2053 	2200 	9492 RED GRIP 
STUCS/STC-S STEREO	STC-10 S STEREO		
9498 RED GRIP 	9325 		

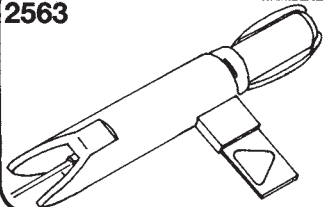
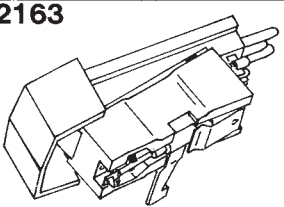
Tonar replacement types for: PERPETUUM EBNER

PE-30	PE-30/2	PE-188	PE-190
2709 	2708	2054 	2055 
PE-192	PE-194	PE-7000	
2095 	2056 	2707	

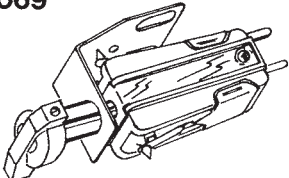
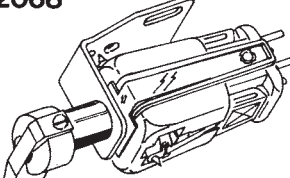
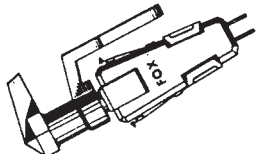
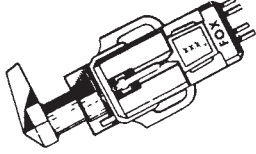
Tonar replacement types for: PHILIPS

GP-200;GP-300 GP-204;GP-205 2102 	GP-214 2061 	GP-215 2132 	GP-229 2062 
GP-230 2063 	GP-231 2064 	GP-235 2065 	GP-314 2141 
GP-315 2139 	GP-330 2389 	GP-331 2390 	GP-380 2393 
GP-390 2066 	GP-397 MK III 2322 	4822 251 30095 2561 	GP-330 integrated 2564 
GP-814 2148 	UF-70 2552 	MG-2510 2767 	4822 251 30112 2795 

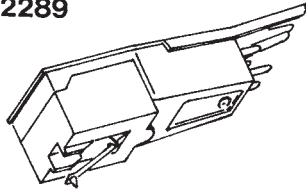
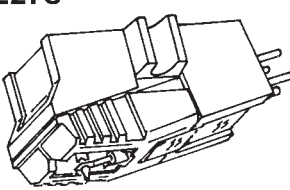
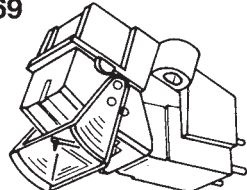
Tonar replacement types for: RIGONDA

ACCORD MONO 2563 	COMIX 2163 	RIGONDA	
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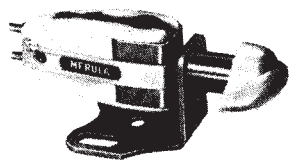
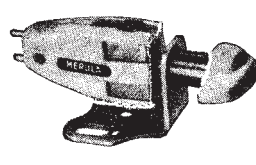
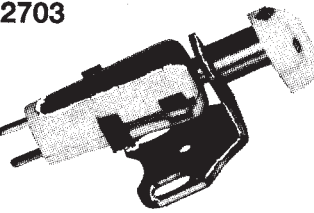
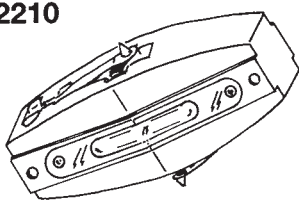
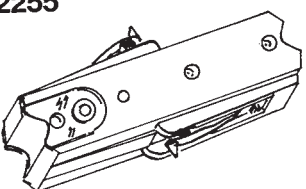
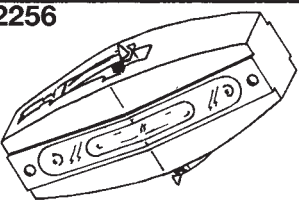
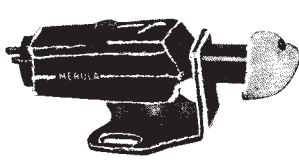
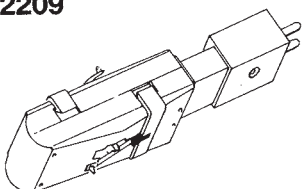
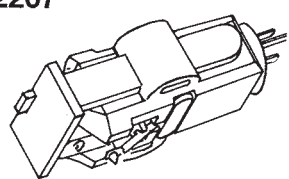
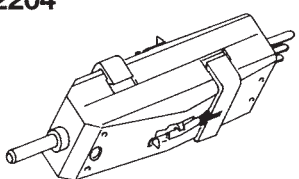
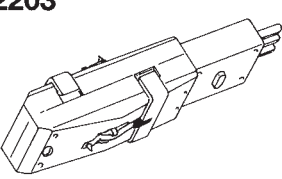
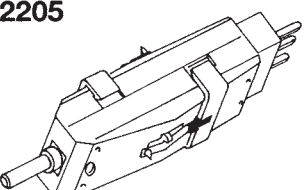
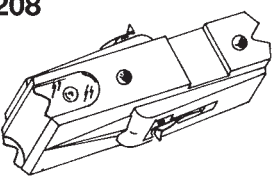
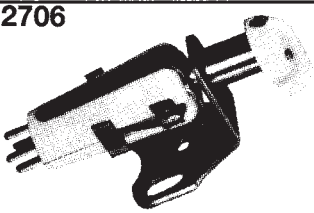
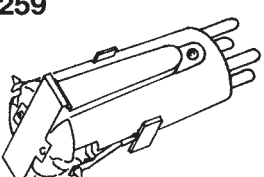
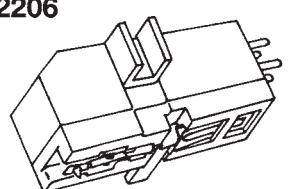
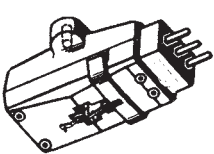
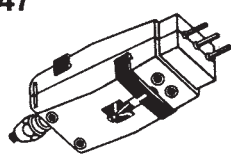
Tonar replacement types for: **RONETTE**

DC-284 0V	ST-105	DC-284 MONO CRYSTAL	ST-105 STEREO CERAMIC
2069 	2068 	9510 	9342 

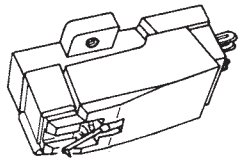
Tonar replacement types for: **SANYO**

MGT-5	MGT-17	ST-15 J	
2289 	2273 	2369 	

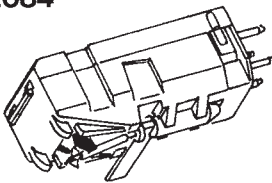
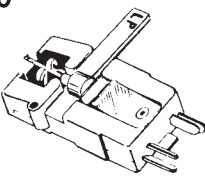
Tonar replacement types for: **SCHUMANN**

SK-451 A	SK-458 A	SK-459	SK-460
2712 	2702 	2703 	2210 
SK-461	SK-463	SK-474	STC-476
2255 	2256 	2704 	2209 
STC-480/2	STC-485	STC-486	STC-487
2207 	2204 	2203 	2205 
STC-492	SK-495	SK-496	STC-496/1
2208 	2705 	2706 	2259 
STC-500		STC-485; STC-487	
2206 	2846 	2847 	

Tonar replacement types for: SHARP

STY-717			
2388 			

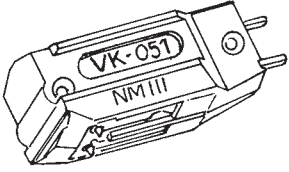
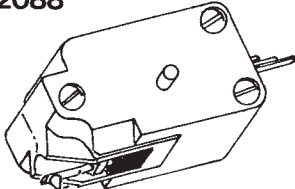
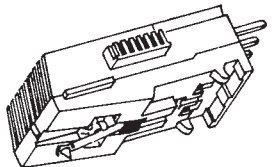
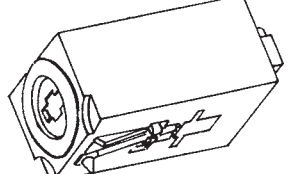
Tonar replacement types for: SONOTONE

3509	31 TA		
2084 	2340 		

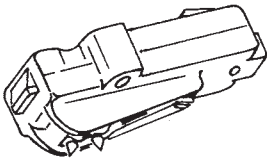
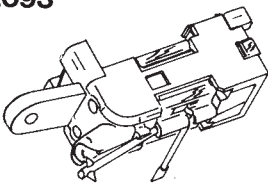
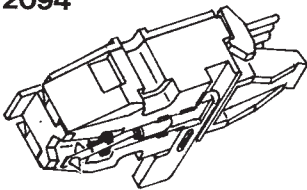
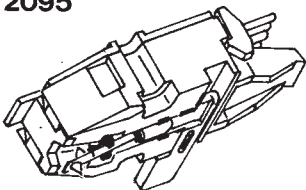
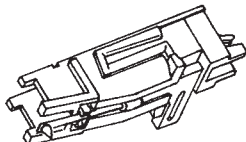
Tonar replacement types for: SONY

XL-200	VX-24 P	VL-30 G	
2650	2617	2615	

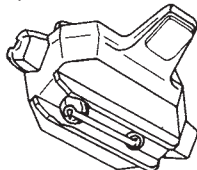
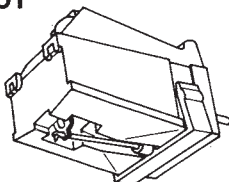
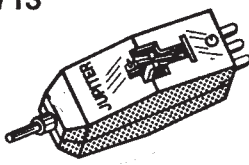
Tonar replacement types for: SUPRAPHON

VK-051	VK-311	VM-2101	VM-2102
2090 	2088 	2091	2608
VK-4302	KS-22	VM-2103	VM-2204
2056 	2089 	2774	2775

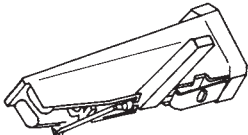
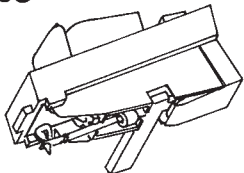
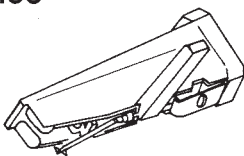
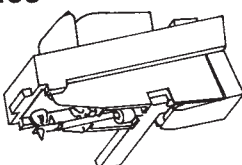
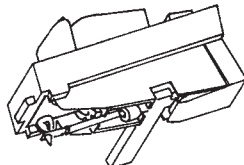
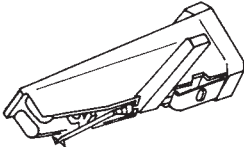
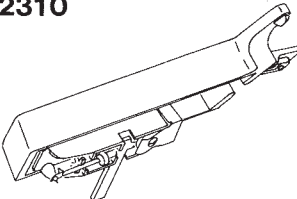
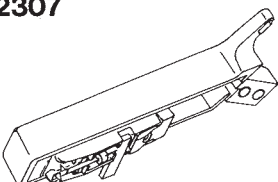
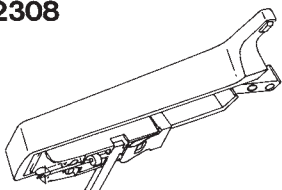
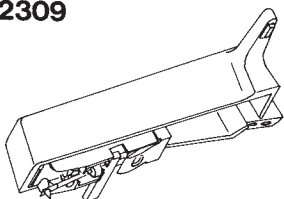
Tonar replacement types for: **TELEFUNKEN**

T.T.S.A.	T-22-2	T-25-2	T-25-2 COPY
2092 	2093 	2094 	2095 
T-260/1 E			
2096 			

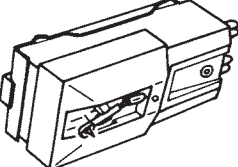
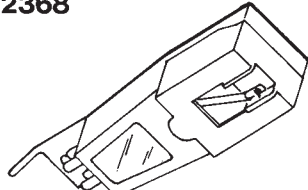
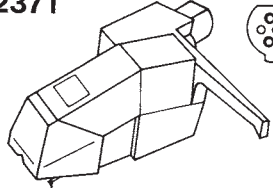
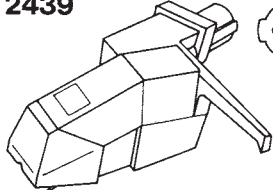
Tonar replacement types for: **TEPPAZ**

VISSEAU MONO	STEREO 60	MT-30	JUPITER
2099 	2100	2101 	2713 

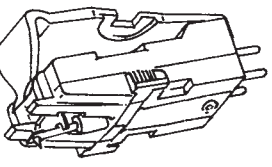
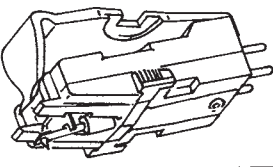
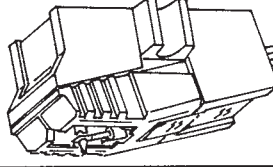
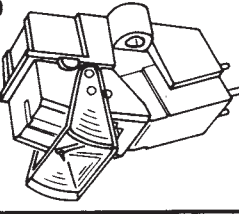
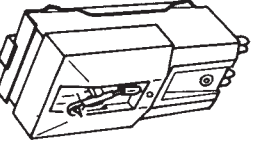
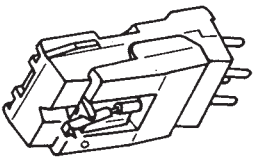
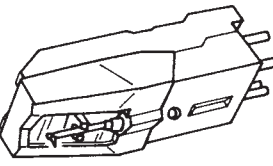
Tonar replacement types for: **TETRAD**

TC-8 HO	TC-8 HI	TC-11 MO	TC-11 MI
2154 	2498 	2496 	2499 
TC-12 MI	TC-12 MO	GL-93	97
2497 	2381 	2310 	2307 
V-122	V-142	TC-12 HI	TC-12 HO
2308 	2309 	2547	2551

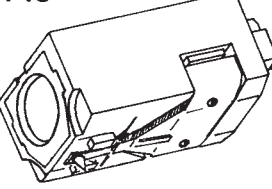
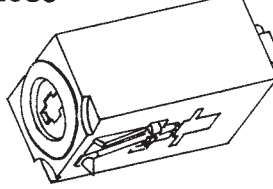
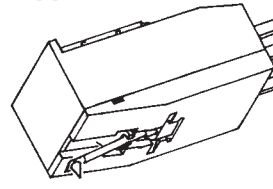
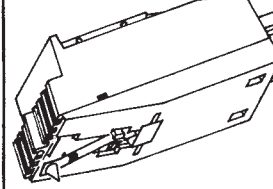
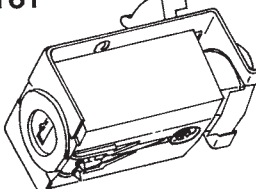
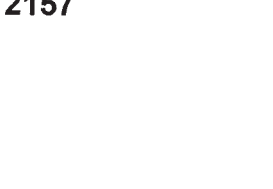
Tonar replacement types for: TOSHIBA

C-20 C	C-22 C	C-62 M	C-63 M
2370 	2368 	2371 	2439 

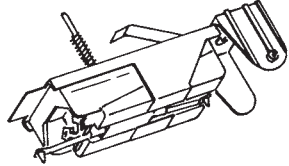
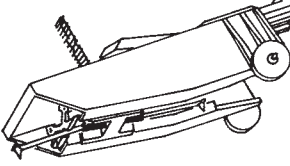
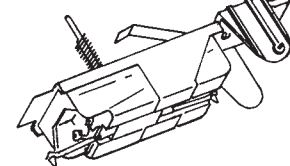
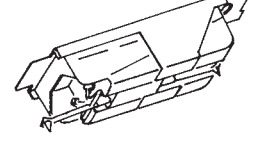
Tonar replacement types for: U.P.O. 'S

CZ-680-6C	CZ-680-9	CZ-682	CZ-693
2272 	2512 	2273 	2369 
CZ-698-3	CZ-699		
2370 	2514 	2513 	2515 

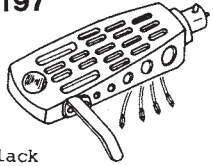
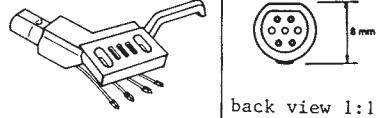
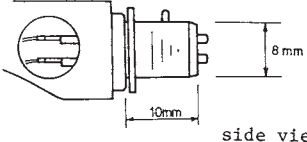
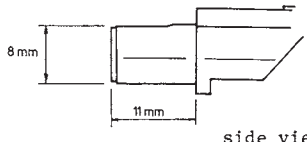
Tonar replacement types for: VALKONA

MS-16	KS-22 KSS-0163	KS-23	CS-24
2145 	2089 	2097 	2157 
KSMU-0161	KSMU-0263	CS-24/CS-29	
2162 	2161 	2157 	

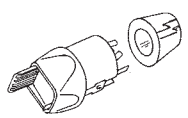
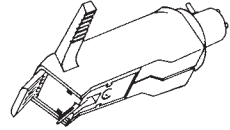
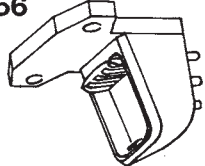
Tonar replacement types for: ZENITH

142-166	142-167	142-168	142-182
2303 	2304 	2305 	2306 

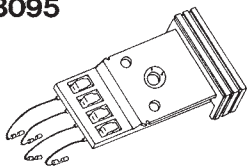
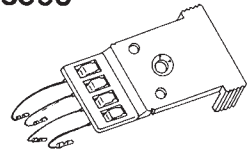
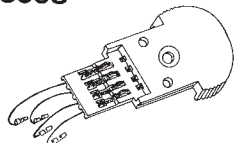
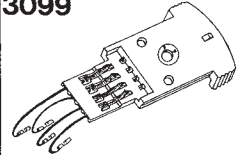
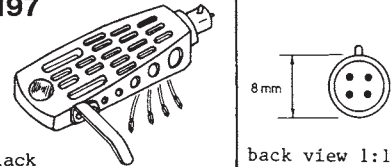
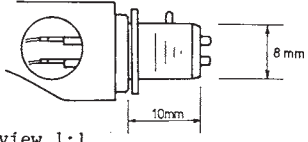
Tonar replacement types for: A.D.C.

A.D.C. 1500		C-114864 for recordplayers: A.D.C. 1600; A.D.C. 1700.			
3197			3146		
					

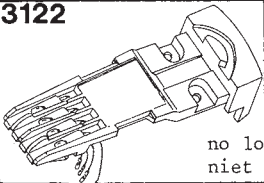
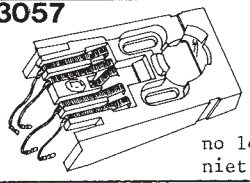
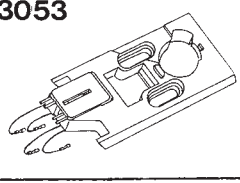
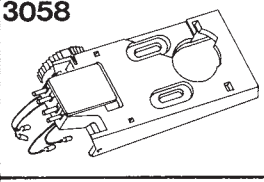
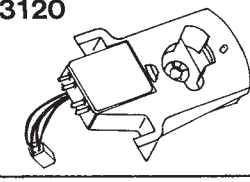
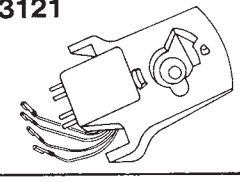
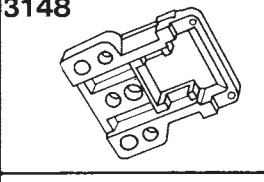
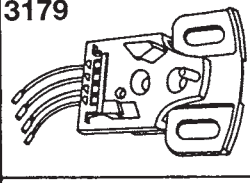
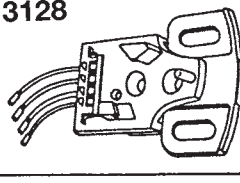
Tonar replacement types for: BANG & OLUFSEN

ADAPTER FOR MOUNTING MMC-20 SERIES CARTRIDGES ONTO SP-SERIES TONEARM		ADAPTOR FOR MOUNTING MMC-20 SERIES CARTRIDGES ONTO SME-TYPE TONEARM		ADAPTOR FOR MOUNTING MMC-20 SERIES CARTRIDGES IN UNIVERSAL HEADSHELLS WITH R.E.T.M.A. 1/2 INCH SCREW ATTACHMENTS	
3090			3150		
				3156	

Tonar replacement types for: B.S.R.

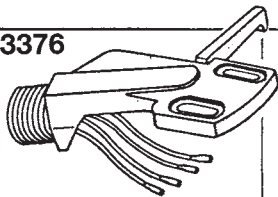
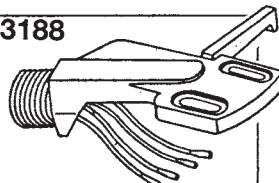
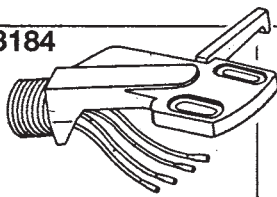
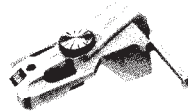
A-108693 for recordplayers: MP-60; 510; 610.		A-111497 for recordplayers: BDS-80; P-157		A-111875 for recordplayers: BDS-90; P-161	
3095			3096		
no longer available niet meer leverbaar				no longer available niet meer leverbaar	
A-112016		A-113696		A-114990 (SME) for recordplayers: 500 Quanta; 600 Quanta; 800 Quanta	
3098			3099		
				3197	
					

Tonar replacement types for: DUAL

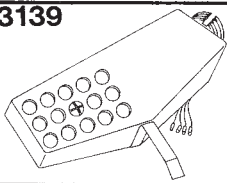
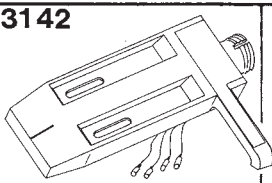
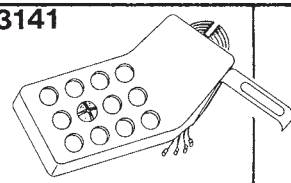
0-12 B		TK-12		TK-14 ; TK-24 for record players: 1209-49; 461; 481; 491, 502; 504; 510; 521; 601; 604; 621; 701; 704; 714; 721; 731.	
3122		no longer available niet meer leverbaar		3057	
		no longer available niet meer leverbaar		3053	
TK-25 for recordplayers: 1209-49; 461; 481; 491; 502; 504; 510; 521; 601; 604; 621; 701; 704; 714; 721; 731.		TK-26 for record players: 714 Q; 731 Q.		TK-27 for recordplayers: 714 Q MC; 731 Q MC.	
3058				3120	
				3121	
TKS-236;TKS-237 TO: R.E.T.M.A.		HS-421;427;430		K 261865	
3148		3138		3145	
G 262186		TKS-G 266048		TKS 269611	
3178		3179		3128	
					
CONTINUED					

Tonar replacement types for: DUAL

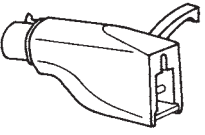
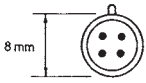
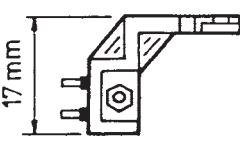
CONTINUED

269654 (TKS-49 S)		275361	277955
3127		3376 	3188 
277956		VTA 279606	280112
3184 		3302 	3301 

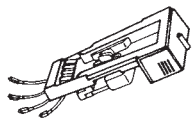
Tonar replacement types for: Lenco

B-52; B-55; L-75; L-78		L-60; L-62; L-65; L-80; L-84; L-130; L-133; L-236; L-247; L-332; L-744	L-85; L-90; L-830; L-833
3139 		3142 	3141 

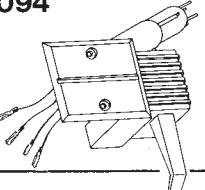
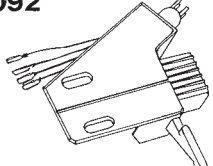
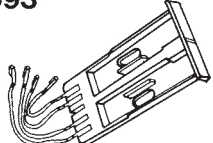
Tonar replacement types for: NATIONAL (PANASONIC, TECHNICS)

SH-80 S ADAPTOR T-4 P to SME		ADAPTOR T-4 P to: ½ - inch screw-mount			
3163		 8 mm back view 1:1	3125		
			 17 mm side view 1:1		

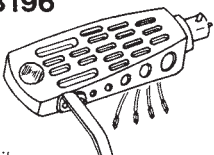
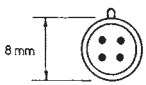
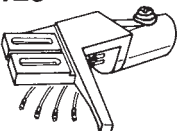
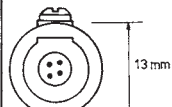
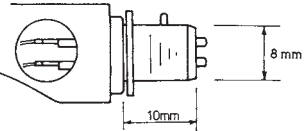
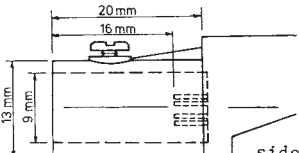
Tonar replacement types for: PERPETUUM EBNER

3010; 3012; 3015					
3175					

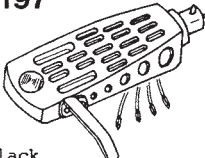
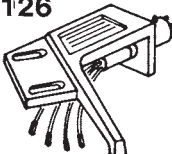
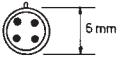
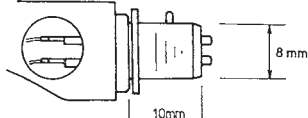
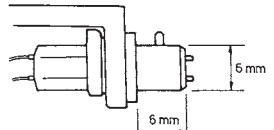
Tonar replacement types for: PHILIPS

4822 265 30145		4822 402 60627		4822 444 30169	
3094		3092		3093	

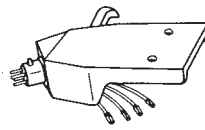
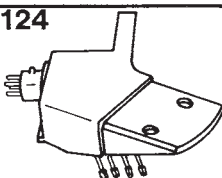
Tonar replacement types for: PIONEER

SME-type "S" - arm		PXB-563 straight-arm			
3196	 silver	 8 mm back view 1:1	3129	  13 mm back view 1:1	
 10 mm side view 1:1		 20 mm 16 mm 13 mm 9 mm side view 1:1			

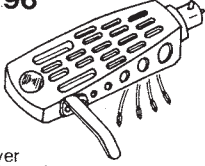
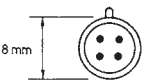
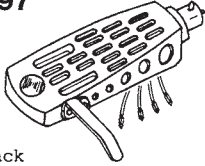
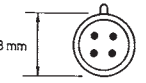
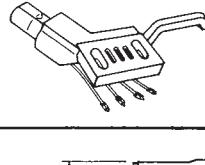
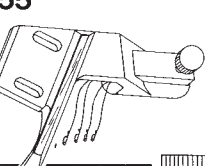
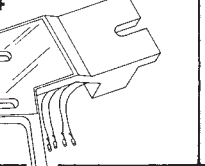
Tonar replacement types for: SONY

		SH-151			
3197			3126		
black		back view 1:1		back view 1:1	
		side view 1:1			side view 1:1

Tonar replacement types for: SUPRAPHON

HC-16; NC-160; NZC-160 SL-160; NZK-160		NC-420; NZC-420; NZC-421; L-452; L-500		HC-43; L-43 CH; NC-430; L-430; NZC-431; NC-435; L-435; NC-450; L-450	
3123		8AK 425002.01	3124		8AK 425000
				3409	7AK 42530.03
HC-30; NC-300; NZC-300 L-300; SL-301					
3160		8AK 425.005.01			

Tonar replacement types for: **TONAR**

UNIVERSAL SHELL "S" ARM S.M.E. TYPE		UNIVERSAL SHELL "S" ARM S.M.E. TYPE		SLIM-LINE S.M.E. type	
3196		silver		3197	
		black		3147	
					
UNIVERSAL SHELL STRAIGHT ARM ADC-type					
3146				3155	
				3154	
					

TONAR No.	May be used as replacement for:
1	Acos GP-59
2	Acos GP-37
3	Acos GP-29
4	Acos GP-73/1; 73/3
5	Acos GP-65; GP-67
6	Acos GP-71/3
7	Acos GP-33
8	Acos GP-19
9	Acos GP-81
10	Admiral 409 B 19-8 Shure PC-42
11	Philips AG-3010; 3012; 3013; 3015; AG-3025; 3026; 3109; 3113; 3114
12	Philips AG-3016; GP-316
13	Philips AG-3001
14	Philips AG-3063; 3066; 3304; 3308 (this needle is used on the stereo side of these cartridges.)
15	Philips AG-3301; 3302; 3304; 3305 (this needle is used on the 78-RPM side of these cartridges.)
16	Philips AG-3020; 3021; 3027; 5012; 5013
17	Philips AG-3052; 5001
18	Philips AG-3201; 3202; 3221; 3222
19	Philips AG-3400; 3410; 3401; 3402
20	Philips AG-3306; 3310; 3224; 3228; AG-3230; AU-1010; 1020; 1030 GP-200; GP-224; 228; 230; 235; 300; 306; 310 Tonar 5-pole (type II)
21	Philips AG-3201 (D)
22	Astatic N-34; Q
23	Astatic N-39; A
24	Astatic N-29; G
25	Astatic N-36; L; T
26	Astatic N-31; K
27	Astatic N-7; Columbia CS-520 Nagaoka NC-100; 202; 203; 500; 400; NC-400 H Piezo MS-2; MST-13 Ronette TO-284-OE Supraphon VK-051 Tonar NC-100; NC-505 This needle is also used on the 78-RPM side of the following cartridges: Tonar NC-202; NC-203; NC-400 NC-40 NC-400H; Vaco/Varco ST-20/40 ST-100 Toshiba TP-102; 106; 114
28	Astatic N-8
29	Astatic N-30; 55; GCD
30	Astatic N-38; 57; GC
31	Astatic N-41; N-42; 17-D
32	Astatic N-50; 51; 133
33	Astatic N-43; 15-D
34	Astatic N-45; 45-D
35	Astatic 13 T
36	Astatic N-37; U
37	Astatic 81-T
38	Astatic N-60
39	Astatic N-52; N-53
40	Astatic N-54; N-55
41	Astatic N-56
42	Bang & Olufsen B & O
43	Bang & Olufsen professional
44	Bang & Olufsen 350 R; 72
45	Bang & Olufsen SP-1; SP-2 Perpetuum Ebner PE-9000 Dual DN-301; 302; SP-1
46	B.S.R. TC-8
47	B.S.R. TC-8 stereo
48	B.S.R. TC-4
49	B.S.R. TC-12
50	B.S.R. ST-3; ST-4 Piezo Y-565; 575; 590 Sanyo ST-3 D
51	B.S.R. ST-5; ST-6; ST-7
52	Collaro PX
53	Collaro studio
54	Columbia SC-1
55	Decca XMS
56	Decca H
57	Dual CDS-1
58	Dual CDS 2/3

TONAR No.	May be used as replacement for:
59	Dual DN-1
60	Dual DN-3
61	Dual DN-4
62	Dual DN-24
63	Dual DN-26; DN-45
64	Dual DN-32
65	Dual DN-34
66	Dual DN-23; DN-43
67	Dual DN-90; DN-95; DN-96
68	Eden old model
69	Eden 59
70	Eden stereo
71	Eden 62
72	Eden clarville Novak clarville Trio Track
73	Elac SNM-9; SMM-9 Perpetuum Ebner PE 8/10
74	Elac SN-12 Perpetuum Ebner PE-5
75	Elac KST-2
76	Elac SNM-100 Perpetuum Ebner PE-180 US
77	Elac SM-101
78	Elac SNM-102 Perpetuum Ebner PE-184 US
79	Elac SM-103
80	Elac SNM-104 Perpetuum Ebner PE-182 US
81	Elac SNM-14
82	Elac SM-107; SM-110
83	Elac STS-210 Perpetuum Ebner PE-8000
84	Elac SNM-106; DMSN-112; SNM-406 Perpetuum Ebner PE-186
85	Elac STS-310
86	Elac SNM-402
87	Elac MST-2
88	Electronic Reproducers ER-60
89	Electronic Reproducers ER 5 MX
90	Electronic Reproducers ER 5 SB
91	Electro Voice 10; 14; 34; 4130
92	Electro Voice 16; 16TT
93	Electro Voice 21
94	Electro Voice 26
95	Electro Voice 31; 2606
96	Electro Voice 57; 2610
97	Electro Voice 58; 2611
98	Electro Voice 37; 72; 2614
99	Electro Voice 117; 131; 148; 2616
100	Electro Voice 122 to 125
101	Electro Voice 132; 141; 149; 2617
102	Electro Voice 147; 2621
103	Electro Voice 51 Zenith 142-90
104	Electro Voice 56 Zenith 142-80
105	Astatic 91-T Electro Voice 76 Webcor A-1919
106	E.M.I. multiplay
107	E.M.I. RS-3
108	Euphonics E-1
109	Euphonics U-1; J-13 HC
110	Euphonics U-8/9
111	Euphonics U-10/11
112	Euphonics U-12/13
113	Garrard GC-2
114	Garrard TOM-1
115	Garrard TOM-2
116	Garrard GC-8
117	Garrard GCS-10
118	Garrard GC-12
119	General Electric RPX-040
120	General Electric RPX-047; 050 (complete)
121	General Electric RPJ-047 plug in
122	General Electric VR-II/G-15 only (complete)
123	General Electric VR-II plug in
124	General Electric GC-7
125	General Electric VR-22

TONAR No.	May be used as replacement for:
126	General Electric C-100
127	General Electric C-200
128	General Electric VR-1000-7
129	General Electric C-500
130	Goldring 500
131	Goldring 200
132	Goldring 580; 600
133	Goldring MX 1/2
134	Goldring CS-90; CS-91 E
135	Goldring CM-60; CS-80
136	Goldring 700
137	Lenco single Lesla D Philco 35-2775 Ronette TO-284 Webster Electric WE-57-58
138	Lenco double
139	Lesla A
140	Lesla B
141	Lesla E
142	Lesla U
143	Lesla U-2
144	Lesla S
145	Luxor 72411
146	Luxor 72786
147	Luxor 74916
148	This needle is used on the stereo side of the following cartridges: Europhon Hitachi DS-ST-2; DS-ST-9 Japan Colombia (Denon) DSN-1; SJN-1 Luxor 65977 Mitsubishi 3D-20 M; ST-15; SP-16 Nagaoka NC-202; 203; 400; 400 H Neat N-100 Piezo SC-503 Tonar NC-202; NC-203; NC-400 H Vaco STP-2 etc., etc.
149	Magnavox 560151; 560133
150	Magnavox 560101
151	Magnavox 560161
152	Merula STK-490
153	Schumann STK-490 Merula SC-474 Schumann SC-474
154	Pathé Marconi 51
155	Pathé Marconi 53
156	Pathé Marconi RC 5/6
157	Pathé Marconi STC-7; STC-S STC-41 Pathé Marconi STC-2000 D Saba Disco Centre STC-10 S Thompson STC-100 D; STC-1000 D
158	Pathé Marconi stereo
159	Perpetuum Ebner PE-12
160	Perpetuum Ebner PE-188
161	Perpetuum Ebner 7000
162	Perpetuum Ebner PE TO 48/51
163	Philco 45-9612
164	Philco 35-2682
165	Philco 325-8214
166	Sonotone 3-T Telefunken 3 TS Pickering 150 Seeburg R-150
167	Pickering 150 plus spring
168	Pickering stereo Seeburg mark II
169	Piezo SMT-29
170	Piezo MS-8
171	R.C.A. 74068
172	R.C.A. 75497
173	R.C.A. 104; 200; 108800
174	R.C.A. 110020; 110022
175	R.C.A. 115060
176	R.C.A. 115061
177	Radiohm Mono; Stereo
178	Reson 33; 78
179	Reuter N-4; S-1
180	Ronette BF-40 Perpetuum Ebner 30/90 Sonotone 14-T
181	Iskra Ronette TX-88



TONAR No.	May be used as replacement for:
182	Merula Fanfare
	Schumann Fanfare
183	Merula SK-451
	Schumann SK-451
184	Merula SK-452
	Schumann SK-452
185	Merula SK-453
	Schumann SK-453
186	Merula SK-456; STK-494
	Schumann SK-456; STK-494
187	Seeburg stereo
188	Seeburg juke box
189	Shure P-72; W-68
190	Shure PC-9; WC-38
191	Shure PC-6; WC-6
192	Shure ML-44; PC-2
193	Shure PC-12; WC-32
194	Shure M-3-D
195	Shure M-21-D
196	Shure PC-20; WC-20
197	Shure M-77
198	Sonotone 1-P
199	Sonotone 3-P
200	Sonotone 8-T; 8-TA; 8-TA-77
	Telefunken 8-TS
	Magnavox 560247
201	Sonotone 9-T
202	Sonotone 12-T
203	Sonotone 12-T-LA
204	Sonotone 12-T-HR
205	Sonotone 16-T
206	Sonotone 916-T new and improved Universal needle for the following series: 9T; 9TA; 9TAF; 9TAFV; 9TAV; 9TV; 16T; 16TA; 16TAF; 916T; 916TA; 916TAF
207	Sonotone 20-T
208	Sonotone 21-T; 22-T; 23-T
209	Sonotone 26-T; 27-T
210	Stare
211	Electronic Reproducers ER 5 MX 1
	Sanyo STG-3
212	Leska K-2
213	Tannoy MK II
214	Teppaz Visseau
215	Teppaz Stereo
216	Telefunken TTSA
217	Telefunken A-20-1; T-20-1
218	Telefunken A-20-2; T-20-2; T-22-2
219	Telefunken A-200; T-200
220	Tetrad 11; 31; 111
221	Tetrad 21; 41; 121; E-1; G-1
222	Tonar NM-11-A
	Nagaoka NM-11-A
223	Vaco ST-20/40 (stereo only)
224	Vaco S-45
225	Vaco T-45
226	Vaco M-50
227	Vaco SN-45; MS-8
228	Webster Electric SC-1
229	Webster Electric SC-3
230	Webster Electric WE-14/15
231	Zenith 15780; 15222; 11473
232	Zenith 142-71; 142-72; 142-73; 142-74
233	Zenith 142-76/77
234	Zenith 142-126/128
235	Zenith 142-136/141
236	Dual DN-22
237	Electro Voice 169; 2622
238	Philips AG-3019
239	Schumann/Merula STK-495/1
	Trio Track AC-100
240	Pathé Marconi MUCS; MCS
241	Ronette TA-600
242	Shure M-33-5
243	Shure M-33-7
244	Sonotone 18-T
245	Shure M-7-D
246	Acos GP-91
247	Philips AG-3306-1 (short handle)
248	Astatic N-64
249	Empire Scientific 88
250	Empire Scientific 108; 108 P

TONAR No.	May be used as replacement for:
251	Empire Scientific 880 P; 880 PE
252	Conver stereo
	COSMO "cosmo"
253	Dual DN-5; 52; 54; 55; 56
	Dual CDS-630/5
254	Electro Voice 194; 2623
255	Electro Voice 198/199; 2624
256	Euphonics U-15/16
257	Leska W
258	Sonotone 2T
	Philco 325-8210
	Telefunken 2-TS
259	Perpetuum Ebner PE-92
260	R.C.A. 115276; 115302; 115303
261	R.C.A. 100020 A
262	Sonotone 25-T; 28-T
263	Nagaoka NM-22
	Tonar NM-22
264	Tetrad 12; 32
265	Tetrad 13; 33
266	Tetrad 52; 62; A-2; B-2; C-2
267-5	Shure M-44-5
267-7	Shure M-44-7
	Dual DN-305; DN-306; M-44 M-G
268	Zenith 142-150
269	National EPS-05; EPS-05 ST
	N.E.C. LP-5 D; SP-5 S
	Onkyo DN-3 ST
	Sansui ST-3
270	Mastercraft SJN-1
	Tonar/Nagaoka NC-770
	Piezo Y-310; Y-730
271	Sonotone 9-TA (flexible)
272	Singer 484001/5; PU-1300
	Japan Columbia JTS-3
273	R.C.A. 117330/118197
274-DE	Shure M-55-E
275	Pickering V-15-6 mil
	Dual DN-314; 315; V-15 PD/1
276	Jensen 409 C; 64-1
277	Magnavox 560305
278	Vaco SN-65; CN-60/62/67/68
	Mono
	Vaco CN-70; 72/75 (stereo)
279	Vaco TN-02-H
280	Philips AG-3311; GP-311 Philitina
281	Tetrad 50; 60; A-0; B-0; C-0
282	Ortofon N-15 S; N-15 O; F-15 S; F-15
283	Tetrad 22; 42; E-2; G-2
284	Shure M-8-D
285	B.S.R. ST-10
286	B.S.R. ST-9; ST-8
287	Electro Voice 47; 2614; 2615
288	Euphonics U-17/19
289	Astatic N-74
290	Astatic N-76
291-DE	Ortofon N-15 E; F-15 E; N-15 EO; F-15 EO
292	Teppaz Eco 60/432; 26
293	Neufunk
	Tetrad 23; 43; E-3; G-3
294-DE	Hitachi DS-ST 70; DS-ST-72
295	Tetrad 10; 30
296	Audio Technica AT-6
	Hitachi DS-ST-3; MFS-170/171
	Japan Columbia (Denon) DSN-10/13
	Kenwood N-6 AT
	Marlux NM-33
	Nagaoka NM-33
	N.E.C. LP-20 D
	Nivico DT-16
	Onkyo DN-5; DN-13
	Pioneer PL-N6
	Sansui ST-6 D; SN-22
	Sanyo ST-12 D; MG-3
	Sharp N-05 D; N-06 S
	Sony ND-113 P; VM-9 P
	Tonar NH-33
	Toshiba N-4 CS; C-07
	Trio N-6 AT
	Yamaha N-3000
297	R.C.A. 106969; 106770; 106771
298	R.C.A. 115329
299	Telefunken A-23-2; T-23-2; A-25-2
	T-25-2

TONAR No.	May be used as replacement for:
299	Fonica UF-50
300	General Electric C-650
301	Philips AG-3404; 3407; 3408; 3409; GP-404; 407; 408; 409; 410; 411
302	Sonotone 100-T
303	Magnavox 560344/45
304	Sonotone 32-T; 39-T
305	R.C.A. 118199; 118200
306	Allphon 66
307	Acos GP-79
308	V.E.B. MS-8
309	Lenco M-200
310	Leska F-5
311	Telefunken A-23/1
312	Astatic N-79
313	Astatic N-81
314	Astatic N-83
315	Bang & Olufsen SP-6/7 Stylus only
315-DE	Bang & Olufsen SP-8/9 Stylus only
316	Sony ND-128 P; VX-24 P
317	Magnavox 560348
318	Tetrad 14; 34
319	Tetrad 20; 40; E-0; G-0
320	C.E.C. MC-8;
	Pioneer PN-15
321	Tetrad 24; 44; E-4; G-4
322	Setton
	Sharp STY-213; STY-703
323-ES	Akai APN-4
	Kenwood N-40; N-42
	Sony ND-130 G
	Trio N-40; N-42
324	Pioneer PN-12; PN-110
325	Kenwood N-38
	Trio N-38
326	Kenwood N-39
	Trio N-39
327	Tetrad 51; 61; A-1; B-1; C-1
328	Tetrad 53; 63; A-3; B-3; C-3
329	Tetrad 54; 64; A-4; B-4; C-4
330	Tetrad 70; 80; 90
331	Empire Scientific 909/X; 999/X
332	Empire Scientific 90EE/X;
	909 E/X; 999 E/X
333	Empire Scientific 1000 ZE;
	1000 ZE/X
334	Coral 555-5
335	Tetrad 71; 81; 91
336	Tetrad 72; 82; 92
337	Tetrad 73; 83; 93
338	Tetrad 74; 84; 94
339	Acos Power Point
340	Bang & Olufsen SP-6/7 Complete needle
340-DE	Bang & Olufsen SP-8/9 Complete needle
341	Elac DM-240
342	Electro Voice 5000
343	Electro Voice 37; 38; 47; 72; 2626
	Jensen J-2T;
344	Leska F-3
345	Empire Scientific 888
346-DE	Empire Scientific 999/VE
347	Nivico DTS-1
348	Nivico DTS-2; ST-17
	Sharp N-08 D
349	Japan Columbia JTS-1/5; DTS-1/5
	Singer PU-1357
350	Radiohm CM-71
351	Goldring SX-10
352	Goldring G-800
353	Acos GP-91-1 SC; 2 SC; 3 SC
354	Astatic N-72
355	Astatic N-85
356	Perpetuum Ebner PE-223/1
357	Perpetuum Ebner PE-192; PE-223/2
358	Connoisseur SCU-1
359	Micro SC-301; New Yorker
360	Shure M-44-C
361	A.D.C. 770
362	Pickering U-38/380 D-3807 AT
363	Nagaoka NR-1
	Tonar NR-1

TONAR No.	May be used as replacement for:
364	Acos GP-93/94
365	Empire Scientific 808
365-DE	Empire Scientific 80 EE; 808 E
366	Coner RCQ mono Wilson
367	Onkyo DN-8 ST; SN-20 ST Piezo Y-640 N.E.C. LP-25 D Sanyo ST-6; ST-6-D; MGT-1
368	Lesa K-3 new version Neufunk
369	Allphon PC-1
370	Piezo Y-100; Y-510
371	Japan Columbia (Denon) DSN-35
372	National EPS-13; 13 TT; 13 TTSD Henfai Sharp N-09 D
373	Toshiba N-550 C; C-550 M
374	Europhon Intel National EPS-14 ST; 14 STSD Onkyo DN-12 ST Audak R-2/R-6
375	National EPS-37
376	Acos GP-95/96
377	Olympic I
378	Supraphon KS-22 Valkona KSS-0163 V.E.B. KSS-0163; KS-22; DS-262 Rion NP-01 D
379	Piezo 03-40729
380	Nivico VPF-96
381	Singer PU-3012
382	Blaupunkt 305 M N.E.C. LP-305 M Sanyo ST-37 D
383	Astatic N-35; "R"
384	Marantz CT-300; TT-320; TT-130; TT-221; CTS-420 Schneider
385-DE	Shure M-75-E
386	Dual DN-320; 323 Shure M-73 M-G; 75 E; 75 M-G
387	Dual DN-325 Luxor 3823 Schneider DN-325 Shure M-75 6; M-75 6 S; M-75 D; Shure M-75 M-G; M-71 MB-D; M-71; Shure M-73 M-G; M-75 M-G
388	Nivico DT-45
388-DE	Nivico DT-45 E
389	Neat VS-700; V-70; VS-90
390	H.M.V. HMV-1 Merula HMV-1 Schumann/HMV-1 short handle; Trio Track
391	H.M.V. HMV-2 Merula HMV-2; STC-481 Schumann STC-481; Schumann/HMV-2
392	Acos GP-104
393	Marantz TT-143; TT-243 Sanyo STP-50J Scott Sharp STY-129; 133; 139; Yamaha N-8100
393-DE	Conver B-60-100
394	Cosmos G.62.30.M.23
395	Pioneer PL-N9
396	Pioneer PN-10; PN-11
397	National EPS-08; P0; 10 STDD; 12 N.E.C. LP-10 D Onkyo DN-7; DN-10; DN-17 Audio Technica AT-21; AT-66
398	Onkyo DN-15 ST Sharp N-17 D Toshiba N-12 C; C-26 M Yamaha N-5000
399	Coral V-30-D; V-7000 Micro M-207 Mitsubishi 3D-23 M; 3D-24 M Sansui ST-10; SN-23
400	Micro V-3100
	Mitsubishi 3D-28 M
401	Dual M-91 MGD; DN-330

TONAR No.	May be used as replacement for:
401	Shure M-91-G
402	National EPS-19 STSD
403	Seeburg "Showcase"
404	Allphon 69-1 single tip
405	Philips AG-3229; GP-229 (spring only)
405-C	As above complete with ceramic element
406	Sanyo ST-51 J Siemens
407	Electro Voice 2630; 5015
408	Electro Voice 2634; 5051
409	Euphonics U-8 RB/U-9 RB
410	Euphonics U-10 RB/U-11 RB
411	Euphonics U-15/2
412	K.D.-69, also for K.S.M.U., V.E.B. & Valkona
413	R.C.A. 120695; 122057
414	Schumann/Merula STC-485/486 Jupimatic jukebox
415	Sonotone 21/24-TA
416	Sonotone 60-T
417	Vaco TN-04
418	Electro Voice 2632; 5018
419	R.C.A. 126566/7
420	Schumann/Merula STC-480
421	Vaco TN-08
422	A.D.C. 220; A.D.C. R-20
423	Zenith 142-167
424	B.S.R. ST-12/14/15 Schneider ST-12/14/15
425	Allphon Jeunesse
426	Hitachi HN-ST-20; CFS-280 Mitsubishi ST-11; 3D-32 M National EPS-22 Nivico DT-20
427	Elac STS-244-C; D-244 C
428	Elac STS-244-17; D-244-17
429	Elac STS-344; D-344
430	Elac STS-444; D-444
431	Electro Voice 2637; 5076
432	Electro Voice 2638; 5081
433	Electro Voice 2639; 5082
434	Electro Voice 2640; 5078
435	Garrard GCM-31; GCS-1; 35; 36 Sonotone 2109; 2509; 2539
436	Garrard GCM-21-22; GKM-22 Goldring HC-2 Rigonda 2163 Tonar 5-pole
437	Garrard GCS-23; GKS-25/26 Goldring HC-3
438	Garrard GCM-21 T/22 T GCS-23 T; TS-12/23
439	Perpetuum Ebner PE-190
440	Ronette SC-107; SC-109
441	Ronette CMT-102
442	B.S.R. ST-16/17 Fidelity Schneider ST-16/17
443	Dual CDS-650; 651; 660; 661 Dual CDS-670; CDS-671 Dual DN-6; 8; 62; 63; 64; 65; 85 Perpetuum Ebner PE-3000; CDS-650; CDS-651
444	Clean CM-500 Hape Piezo Y-930; YM-101
445	Kenwood N-23 Trio N-23
446	Teppaz MT-30
447	Nagaoka/Tonar NM-66
448	K.S.M.U.-0261, also for Wehkamp & V.E.B.
449	Piezo stereo
450	Supraphon VK-311; 68317
451	National EPS-24 STSD
452	Hitachi HN-ST-19 Mitsubishi SJN-16 Teleton CMS-500/400/300 Japan Columbia DSN-16; SJN-16
453	Nagaoka/Tonar NM-33 A
454	Sontra SN-20
455	Acos GP-104 transcription
456	Audio Sonic

TONAR No.	May be used as replacement for:
456	N.E.C. LP-40 D Sanyo ST-14 D; MGT-5 Sharp STY-704 Toshiba N-11 C; SN-280; 290 Visonik
457	Lustre L-1
458-DE	Sony ND-70 X; XL-70
459	Electro Voice 2636; 5080
460	Electro Voice 2641; 5083
461	General Electric C-660
462	Garrard KS-40 A Schneider KS-40 A Sonotone 3509
463	Goldring G-850 Lenco M-95
463-DE	Goldring G-850 E
464	Perpetuum Ebner PE-194 Supraphon VK-4302 Dual DN-311; V-15 D/AC Luxor 3200
465	Pickering V-15/D-1507 AT; V-15 P/AT
465-DE	Pickering V-15/D-1500 ATE; V-15 P/ATE
466	R.C.A. 131779/131780
467	R.C.A. 131781/131788 (single tip) Grado B-series ceramic
468	Shure M-91-E
469-DE	Astatic N-89; 205
470	Tetrad C-0
471	Shure M-92-G
472	Nivico DTZ L1S
473	Shure M-92-E (old)
474-DE	Japan Columbia (Denon) DSN-55
475	Goldring G-800 H
476	Ortofon D-15 E Super
477	Ortofon D-15 Super
478	Astatic N-17; 207
479	Astatic N-19; 223
480	Tetrad A-1
481	Tetrad A-2
482	Tetrad A-3
483	Tetrad C-1
484	Tetrad C-2
485	Tetrad C-3
486	Tetrad E-1
487	Tetrad E-2
488	Tetrad E-3
489	Tetrad G-1
490	Tetrad G-2
491	Tetrad G-3
492	Schumann/Merula STC 487
493	Nagaoka/Tonar NC-700
494	Astatic N-14; 215
495	Sony ND-126 G; VM-26 GH
496	Sony VX-17-P; VX-18-P; ND-119-P; ND-120-P
497	Sony ND-117-P; VM-15 P
498	Japan Columbia DSN-24; GN-20
499	Onkyo DN-18 ST Sanyo ND-124-P; ND-125-G; VM-21-G; VM-21-P
500-DE	Shure M-93-E
501	Pickering V-15/D-1507 AC; V-15 P/AC
501-DE	Pickering V-15/D-1500 ACE; V-15 P/ACE
502	Grace F-8; F-21 series
503	Philips GP-370
504	Dual DN-70; CDS-700
505	Sony ND-121 P; VM-19 P
506	Osaka Onkyo DN-21; OC-21 M Piezo Y-995
507	Osaka Onkyo DN-22; OC 22 M
508	Toshiba N-301-C; C-301-F; N-04 C; C-04 C
509-DE	Nivico DT-33 S
509-ES	Hitachi F-11; MT-11 F
	Nivico 4 DT-1X; 4 DT-5X; 4 DT-10X
510	Nivico DT-11; SS-11
511	Philips GP-400; GP-500
511-DE	Philips GP-401
512	Lesa C-1 Vaiani VA-62

TONAR No.	May be used as replacement for:
513	Sansui SN-10; SN-10 A
514	Sanyo MG-2; ST-5 D
515	National 28-100 ST
516	National EPS-25; 25 STSD
517-DE	Shure N-75-EJ type II
518	Shure N-75-B type II
519	Shure N-75-G type II
520-DE	Shure N-75-ED type II
521	Ortofon D-20 S
522	Ortofon D-20 E
523	B.S.R. ST-19; ST-22
524	Audio Sonic Coner RCS Continental Edison Europhon Lenco RCS; Pop Stereo Lesa Nordmende Saba RPC-1000 Thompson Wilson Electro Voice 2647 Magnavox 560347-1
525	Excel ES-70-S Lenco M-100 blue Luxor 3831; 3833; 36200 Neat VS-80 Sanyo ST-25 D; MG-25 Telefunken TM-400
526	Excel ES-70-F (O.E.M.) Lenco M-100 Marlux
528-DE	Excel ES-70-E
529-DE	Excel ES-70-EX
530-ES	Excel ES-70-EX-4
531	Sony ND-114P; VM-10P
532	Aimor Electro Voice 2649; 5600 D Sony ND-127; VX-23 P
533	Jelco SMC-101 Mastercraft SMC-101 Neat
534	Grundig GP-500 MK II Philips GP-400 MK II; GP-500 MK II Radiola GP-500 MK II
534-DE	Philips GP-412; GP-413; GP-421 GP-401 MK II; GP-406 MK II; GP-412 MK II; GP-501 MK II Radiola GP-501 Mark II
534-ES	Philips GP-422; 422 Mark II
535	Osaka Onkyo DN23; OC-23M; SN-19 ST
536	Sanyo ST-10 D; MGT-3
537-DE	Dual DN-380 E; TKS-380 E
538	Sansui MCI-5; SN-25 Mastercraft MCI-5 Jelco MCI-5
539	Pickering V-15/D-1507 AM; V-15 P/AM
539-DE	Pickering V-15/D-1500 AME V-15 P/AME
540	V.E.B. KSS-0162
541	Kenwood N-34 Trio N-34
542	Audio Technica AT-55 Sanyo ST-25 J Toshiba N-13 C; C-27 M Yamaha N-5500
543	Philips GP-204; GP-205
544	Sharp N-03 D
545	Nivico DT-33 H
546	Pickering XV-15/350; D-350
546-DE	Pickering XV-15/400 E; D-400
547	Pickering V-15 series with brush
547-DE	Pickering V-15 E series with brush
548	Stanton 681 A; D-6807 A
548-DE	Stanton 681 E; 681 EE; D-6800 E; D-6800 EE
549	Stanton 500 A; D-5107 A; 500 AA; D-5107 AA
549-DE	Stanton 500 E; D-5100 E; 500 EE; D-5100 EE
550-ES	Expert Quadro Nagaoka Tonacord TM-1000 S Tonar JT-322

TONAR No.	May be used as replacement for:
551	A.K.G. X2R; PU-2R; X3E; PU-3E Grado F-series
552	Nivico DT-25H
553	Philips GP-212; GP-213
554	Valkona/V.E.B. KS-23
555	Expert expert; popular Nagaoka Supraphon JT-311 Tonar JT-311
555-DE	Expert Ellipse
556	B.S.R. ST-20/21 Onkyo DN-31 ST Sony ND-ST 21
557	Teppaz Jupiter
558	Pickering U-38/380-D-3807 C
559	Pickering U-38/380-D-3807 A
560	A.D.C. 220-X; R-20-X
561	Elac DM-410
562	Ronette SM-500/7
563	Cosmo G.62-30 M-23 (short tube)
564-DE	A.D.C. 220-XE; R-20-XE
565	Goldring G-820 Lenco M-150
566	Mitsubishi 3D-25
567-DE	Shure VN-15 E
568	Audio Technica AT-10 National EPS-35 STSD N.E.C. LP-7000 D Sanyo ST-36 VD Thompson AT-10 Toshiba N-53 DY
569	Elac SN-11
570	Toshiba N-300-C; C-300 F
571	Akai APN-2 Audio Technica MG-35 V Audio Technica VM-8-7 D Electro Voice 2660 Fisher ATS-10 L; ST-35 VD Kenwood N-32; N-33 Magnavox 560356 Mitsubishi 3 D-40 M National EPS-31 Nivico DT-31 Onkyo DN-27; DN-32 Sanyo MG-35 V; ST-35 VD Sharp N-20 D; STY-202 Sony ND-129-G; VM-25 G Toshiba N-14 D Trio N-32; N-33 Teleton DST-17/S-100 G; CS-400/401 Yamaha N-6500
572	Audio Technica AT-VM-35 Electro Voice 2671 D; 6012 D Magnavox 560398
573	Cybernet Jelco MC-9 Rotel 2RC-3 Sanyo ST-15; MG-15; ST-15 GD; LD Sansui SN-26 Silver System 110; 1500 Tensai Jelco 9A
574	Pioneer PN-35
575	Sanyo ST-8; 42 K; MGT-2
576	C.E.C. MC-5
577	C.E.C. MC-7
578	N.E.C. LP-55 D Sanyo STG-1 Sharp STY-707 Toshiba N-3 C; C-03 C; C-10 C
579-DE	A.D.C.-XLM
580	A.D.C.-VLM
581	Audio Technica AT-3472 P Hitachi DS-ST 12; DS-ST-14 National EPS-91 SMAD N.E.C. AT-3472 P Sony ND-145
581-DE	Sherwood ATN-3472 EP
582	Mitsubishi 3D-33 M Philips GP-371
583	Pickering V-15 Micro IV AC, AT, AM series
583-DE	Pickering V-15 Micro IV ACE, ATE, AME series
584-DE	Dual DN-352; V-15 III L-M Shure V-15 III L-M

TONAR No.	May be used as replacement for:
584-DE	Shure VN-35-E (V-15 type III)
585	Garrard KS-41 B Sonotone 3539
586	Garrard KS-41 C Sonotone 3559
587	Garrard GCS-38; GSS-2 Sonotone 2529
588	Pioneer PN-16; PN-330
589	Onkyo DN-24
590	Sansui SN-31; ST-3200; V-3030
591	Pioneer PN-30
592	Lesa K-3
593-DE	Goldring G-800 Super E
594-DE	Goldring G-800 E
595	Nivico DT-29
596	Hitachi DS-ST-5 Nivico DT-27
597	Pioneer PN-50
598	Micro V-2100
599	National EPS-52 National EPS-290 SD National EPS-440 QD National EPS-28
599-ES	Hitachi DS-ST-40; MT-10
600	Roelofs RD-121
601	Silver System 90 Teac Sonovox SN-300
602	Pickering PD-07 T; V-15 P/DT
603	Pickering PDE
604-DE	N.S.M./Wurlitzer N-17 CM Shure Jukebox N-17 CM
605	National EPS-19 single tip Hitachi DS-ST-101 Piezo YM-114
606	Excel QD-700 CR
607	Sanyo ST-27 D; MG-27 Telefunken TM-500
608	Excel QD-700 ER Excel QD-700 XR
609-DE	Ortofon M-20 E
610-ES	Sony ND-132 G; VM-22 G; VM-26 G
611	Sony ND-133 G; VL-30 G
612	Tonar CDS-650 repl. cartr.
613	Shure N-91 GD
614	Dual DM 101 M-G; DN-340
615	Pioneer PN-20
616	Schneider M-74 CS; SBD-71
617	Shure M-81 MC Shure M-75 C jukebox
618	National EPS-18 ST; EPS-18 STSD
619-ES	Audio Technica AT-14 S Nivico 4 DT-20X
620-ES	Audio Technica AT-12 S Nivico 4DT-30 X; 4DT-35 X
621-ES	National EPS-46 STQD
622	Tenorel T-2001 Unitra MF-100; MF-102
622-DE	Tenorel T-2001/ED
622-ES	Tenorel T-2001/SD
623-DE	Shure N-91 ED Dual DM-103 ME; DN-345
624	A.D.C. K series
625	A.D.C. Q series Fidelity Empire 66/X Empire 66 E/X
626	National EPS-451 QD
627	National EPS-36 STSD
628-ES	National EPS-45 STQD
629	A.D.C. 660
630-ES	Acos M-6 Excel ME-35
631	Sanyo ST-30 D; MG-30
632	Acos M-6 E Acos M-6 EX
633	Sony ND-131 G; VM-1200 G
633-DE	Micro V-3200
634-ES	Micro V-3200 E; V-3200 XE
635	C.E.C. MC-20
636	Jelco D; MC-14
636-DE	Mission 773 MM
637	N.E.C. LP-8300 D Tensai Shure M-95 ED
638-DE	

TONAR No.	May be used as replacement for:
639	Victor DT-26
640	Victor DT-33-G
641	N.E.C. LP-45 D
	Sharp STY-706
642	B.S.R. ST-23 sapphire
643	Electro Voice 5078 new execution; old execution: Tonar nr. 434
644	Japan Columbia DSN-14
645	Hitachi DS-ST-25
646	Mitsubishi 3D-31 M
	Piezo Y-670
647	Mitsubishi 3D-30 M
648	National EPS-11; EPS-11 STSD
	Onkyo DN-14 ST
649	Mitsubishi MD-2; 3D-37 M
649-DE	Mitsubishi MD-1
650	National EPS-46 STSD
651	Audio Sonic
	Blaupunkt P-60
	N.E.C. LP-5100 D
	Onkyo DN-1005 ST
	Sansui SN-28
	Schneider
	Sharp STY-104
652	Sanyo ST-36 D; MG-36
653	N.E.C. LP-35 D
	Sharp N-14 D; N-16 D; STY-450
654	Kenwood N-25; N-30
	Trio N-25; N-30
655	Trio N-31
	Kenwood N-31
656	Trio N-36
	Kenwood N-36
657	Trio N-37
	Kenwood N-37
658	Trio N-43
	Kenwood N-43
659	Nivico DT-23
660	Aiwa M-32
	Nivico DT-32
	Sharp STY-701
661	Marlux NM-106
	Teleton MST-5
662	Sony ND-134; VL-32 G
662-DE	Sony ND-134 G; VL-34 G
663	Sanyo ST-28 D; MG-28
664	Nagaoka JT-511
	Supraphon JT-511
	Tonacord TM-511
665	C.E.C. MC-11
	Piezo YM-118
666	Marlux MC-500
667-DE	Empire 2000 E/III
668-DE	Empire 4000 D/III
669-DE	Stanton 681 EEE; D-6800 EEE
670	Excel QD-700 FR
671	Audio Technica AT-VM3
672	Lenco M-94
673	N.E.C.
	Sansui SN-80; SC-80
	Silver
	Teleton
674	Hitachi
	Mitsubishi 3D-34 M
675	Pioneer PN-14
676	Audio Technica CN-933; CN-936
	Garrard ATN-936
	Schneider CN-933
677	Akai APN-5
	Audio Technica AT-11;
	CN-2398
	Hitachi DS-ST-26
	Japan Columbia DSN-28
	Luxman ATS-11
	National EPS-30 STSD
	Thompson ATS-11
	Toshiba N-52 DY
	Trio N-41
	Kenwood N-41
678	Shure M-95 G; M-95 G-LM
	Dual DN-360
679	Sony ND-111 E; 112 E; VC-8 E
680	Excel ES-70 H
681	Hitachi HN-ST-7

TONAR No.	May be used as replacement for:
681	Sharp STY-717
682-DE	Goldring G-820 E
683-ES	Nagaoka JT-333
684-ES	Expert Super
	Nagaoka JT-555
685	Schumann/Merula STC-488
686	Trio N-35
	Kenwood N-35
687	Marantz TT-520
688-ES	Kenwood N-44
	Sanyo ST-45 DX
	Trio N-44
689	Sansui SN-27
690	Yamaha N-3500; N-4000
691	Aiwa AN-87-43
	Sanyo ST-26 D; MG-26
692	Denon DSN-61
	Japan Columbia (Denon) DSN-61
693	Sony ND-115 G; VM-11 G
694-ES	Sanyo ST-40 DX; MG-40 X
695	Hitachi DS-ST-55; MT-55
696	Sharp STY-705
697	Sharp STY-752
698	Onkyo DN-25 ST
699	Jelco MC-12
700	Jelco MC-15
701-ES	Jelco 4 C-1X
702	Sharp STY-102
703-ES	Nivico 4 DT-2X
704	Nagaoka NR-2
705	Japan Columbia DSN-34
	Sharp STY-555
	Mitsubishi 3D-38 M
706	Shure M-24 H
707-ES	Onkyo DN-57 ST
708	Audio Technica AT-15 XE
709-DE	Pioneer PN K-85
710	Sansui SN-37; SC-37
	Sharp STY-114
	Silver system 200; SS-250
711	Glanz MG-55 R
	Hitachi DS-ST-102
	N.E.C. LP-50 D
712	Sharp STY-100; STY-750
	Sansui SN-41
	Sharp STY-103
	Silver System 100; 300
	Teleton MST-31
	Tensai
713	Sansui SN-42
714	Nivico DT-50
715	Pioneer PN-131
716	Yamaha N-7000
717	Nagaoka OS-100 MP
718	Nivico DT-Z 1 S
719-DE	Nagaoka OS-200 MP
720	Nivico DT-34 S
721-DE	Nagaoka OS-300 MP
722-ES	Sharp STY-751
723-ES	Hitachi F-22 EX; MT-22
724	
725	B.S.R.
	Electronic Reproducers 450 M
	Hape MD-4
	Lesa
	Sonic S-10 C
726	N.E.C. LP-6100 D; LP-6300
	Onkyo DN-29 ST
726-ES	Onkyo DN-28 ST
727	Sony ND-100 G; VL-100 G
728	Expert Disco
	Nagaoka JT-511 DJ
729	Audio Technica AT-7
730	Glanz MG-50 R
	Kenwood N-47
	N.E.C. LP-65 D
	Sharp STY-101
	Trio N-47
731	Sony ND-15 G; ND-15 GA; XL-15 A
	XL-15; VL-15 G
732	Dual DMS-210; DN-211
	Schneider DN-211; DMS-210
733	Pioneer PN-135
734	Akai PC-100; RS-100
	Audio Sonic

TONAR No.	May be used as replacement for:
734	Europhon
	Hitachi DS-ST-103
	Magnavox 560418
	Piezo YM-308
734-DE	Akai RS-120; PC-120
	Eagle P-750 E
735	Micro V-3300/7
736	78 R.P.M. needle for:
	Nagaoka JT-511 series; JT-555
	Expert Disco; Super
737	78 R.P.M. needle for:
	Nagaoka JT-311; JT-322
	Expert Popular; Ellipse;
	Quadro
738	Expert
	Sanyo ST-20 D; MG-2; ST-27 DL;
	MG-27 L
	Tensai
739-ES	Nivico DT-Z 1
740-ES	Nivico DT-X 1 MK II
741	National EPS-31 SPSP
	N.E.C. LP-8000 D
741-DE	Audio Technica AT-11 E
	Denon DSN-54
	Japan Columbia (Denon) DSN-54
	Thompson ATS-11 E
742	Sony ND-50 G; VX-50 G
743	Shure M-70 B
744-DE	Shure M-70 EJ
745	Elac STS 144-17; D 144-17
746-DE	Nagaoka JT-511 BE
747	A.D.C. P-series
748	National EPS-34 STSD
748-DE	Audio Technica AT-12 E
	Hitachi DS-ST-104
	National EPS-34 STSD; EPS-35 STED
	Saba AT-12 E; (PSP-244)
	Toshiba N-59 DY
749	National EPS-56
750	Elac STS 155-17; D 155-17
	Schneider D-155-17
751	Elac STS 255-17; D 255-17
752	Elac STS 355-17; D 355-17
753	Aiwa AN-87-45
	Akai RS-38
	Barco
	C.E.C. MC-16
	Piezo YM-121
	Silver SL-5050
754-ES	Sony ND-45 X; XL-45
755	Kenwood N-46
	Trio N-46
756	Acos M-7
	Eurofunk EF-85; EF-404
756-DE	Acos M-7 E
757	Aiwa AN-6
	National EPS-270 SD
	Blaupunkt EM-240
757-DE	National EPS-270 ED
758	Audio Technica ATN-71
	Brandt
	Continental Edison
	Grundig
	I.T.T. AT-71
	Japan Columbia (Denon) DSN-39
	Kenwood N-11; N-48
	Luxor
	Marantz 500
	National EPS-74 STSD
	N.E.C. LP-735 D
	Onkyo DN-35 ST
	Rotel 2RC-5
	Scott
	Sharp STY-115
	Siemens
	Teac
	Teleton ATN-71
	Trio N-11; N-48
759-DE	National EPS-50; 51; 54; 205 ED
759-ES	National EPS-405 QD
760	Fisher MG-63; ST-63 D
	N.E.C. LP-6000 D
	Sharp STY-105
	Siemens
760-DE	Audio Technica ATN-72 E

TONAR No.	May be used as replacement for:
760-DE	National EPS-74 STED
761	Sanyo ST-63 D
762-DE	Supraphon JT-411
763	Dual D-105 ED; DN-362
764	Hitachi DS-ST-24; MT-24
	Audio Technica ATN-952
	Kenwood N-49
	Trio N-49
765-DE	Sony ND-45 E; XL-45 E
766-DE	National EPS-205 EX;
	National EPS-205 ED III
767	Hitachi SJN-18
	Japan Columbia (Denon) DSN-38
	Mitsubishi SJN-18
	Sanyo ST-17 D; MGT-17
768	Toshiba N-55 DY
768-DE	Audio Technica ATN-71 E
	Grundig
	Luxman ATN-71 E
	Radio Shack ATN-71 E
	Toshiba N-57 DY
769	Handic V-307
	Micro V-307; V-7000
770	Denon DSN-34
	Glanz MG-70 R
	Hitachi DS-ST-23
771	Audio Technica ATN-952
	Kenwood N-26
	Mitsubishi 3D-44 M
	Nordmende ST-10 J
	Onkyo DN-40 ST
	Pathé Marconi ST-10 J
	Sanyo ST-10 J; MG-10; MG-10 J;
	ST-11 D; ST-43; ST-43 D
	Trio N-26
772	Japan Columbia DSN-41
773	Sony ND-14 G; VL-14 GS
774	Pioneer PN-330 MK II
775	Micro VP-1; V-8; V-10; V-70
776	Micro V-5
776-DE	Braun MAG 1 E
777	Micro V-20
778	Audio Technica ATN-936
	Onkyo DN-33 ST
	Sony ND-135 G; VM-27 G
779	Rigonda 123
	Schneider KS-231
	Valkona CN-24; KS-231
	V.E.B. CN-24; KS-231
780	Audio Technica AT-3
	Kenwood N-20
	Trio N-20
781-DE	Audio Technica AT-12 XE
	Continental Edison
	I.T.T. AT-12 XE
	Sanyo STA-3 D
	Telefunken TM-600
	Thompson ATN-12 XE
782-ES	Audio Technica AT-12 Sa
783-DE	Audio Technica AT-13 E
784	Hitachi DS-ST-20
785	Audio Technica ATN-936
	Yamaha N-4500; N-4500 MK II
786	Japan Columbia DSN-22
	N.E.C. LP-30 D
787	Sanyo ST-4 D
788	Sanyo ST-50 D; MG-50
789	A+R/Cambridge P-77
	Marlux
789-ES	A+R/Cambridge P-78
790	Sonovox 50 S
791	Sonovox N-11 S
792	Eurofunk EF-505
	Marlux SX-50 S
	Sonica SK-58 C
	Sonovox S-101 C
792-DE	Eurofunk EF-606
	Sonovox S-101 E
792-ES	Eurofunk EF-707
	Sonovox S-101 SH
793-DE	Empire 2000 Z
794-DE	Audio Technica AT-13 Ea
	I.T.T. AT-13 E
	Saba AT-13 EaV; (PSP-248)
	Siemens 555

TONAR No.	May be used as replacement for:
794-DE	Thompson ATN-13 Ea
795	I.T.T. AT-70; ATN-70
	Magnavox 560369
	Saba AT-71 (CSP-300)
	Schneider ATN-70
	Sharp CN-2423
	Sony ND-136 G; VL-33 G
	Wega ATN-70
796-ES	Audio Technica AT-14 Sa
797	Pioneer PN-110 MK II
798-DE	Shure VN-45 HE; V-15 type IV
799	Pioneer PN-400
800	Pioneer PN-600
801	Crown
	Fidelity
	Hitachi SJN-45
	Japan Columbia DSN-45
	Magnavox 560 4370033
	Nikko
	Nivico DT-51
	Sanyo STG-5; STG-6; MGT-45;
	ST-170; GXT-170
	Schneider SP-60 N; SP-61 M
	Silver SS-3850
	Teleton
	Tensai
802	Brandt FF-15 O MK II
	Kenwood NF-15 O MK II
	Luxor 8000
	Ortofon FF-15 MK II
	Trio NF-15 O MK II
802-DE	Onkyo DN-60 STE
803	Kenwood N-15 O MK II
	Ortofon F-15 MK II
	Trio N-15 O MK II
804	Toshiba N-58-C; C-58 M
805-DE	Stanton 881 S; D-81
806-DE	Audio Technica AT-13 Ea/X
807	Sony ND-60 G; VX-60 G
808	Nagaoka C-711-01; C-711
	Philips GP-397 MK III
809	Excel ME-45
	I.T.T. ME-45-77
810	Onkyo DN-16 ST
811	N/A
812	N/A
813	Aiwa AN-35
	Crown
	Fisher ST-34 D
	N.E.C. LP-75 D
	Nivico DT-36
	Rotel System 400
	Samsung 4237
	Sanyo STG-8
	Schneider SP-62 M
	Siemens
	Silver System 70; System 75
	Silver SS-85; SS-170; SS-270
	Tensai
814	Ortofon FF-15 X MK II
814-DE	Ortofon FF-15 XE MK II
815	Tonacord TM-1000
816	Sony ND-108; VM-108 GS
	Toshiba N-260 C; C-260 M
817	Onkyo DN-39 ST
818	C.E.C. MC-10
819	Sony ND-137 G; VL-37 G
820	Dual DMS-220; DN-221
	Schneider DN-221; DMS-220
821-DE	Dual DMS-240 E; DN-241
	Dual DMS-242 E; DN-242
	Schneider DN-242; DMS-242 E
822	Aiwa AN-36
	Cybernet
	Mitsubishi 3D-48 M
	N.E.C. LP-60 D
	Samsung 150; 350
	Sanyo ST-107; STG-2D; ST-48 D
	Sharp STY-117
	Teleton MPC-7; MST-6
823	Japan Columbia (Denon) DSN-44
	Sansui SN-44
824	Sansui SN-45
825	Sansui SN-50
826	Sanyo STG-7

TONAR No.	May be used as replacement for:
826	Toshiba N-210; C-210 M;
	N-230 C; C-230 M
827	Bellex BX-50
827-DE	Bellex BX-50 E
828	Audio Technica ATN-771
	Hitachi DS-ST-30
	Japan Columbia (Denon) ATN-771
	Rex (Zanussi)
	Sansui SN-101; SV-101
829	Kenwood PN-39 MK III
	Trio N-39 MK III
830	Garrard GMC-50 C
831	Aiwa AN-7
	Akai PC-90; RS-90
	Audio Technica ATN-3711; ATN-3721
	CN-2701;
	Garrard GA-150
	National EPS-76 STSD
	Tensai
	Thompson ATN-3721
832	Aiwa AN-5; RN-5
	Audio Technica ATN-3400; ATN-3450
	Blaupunkt CN-5431
	Continental Edison
	Cybernet
	Grundig
	Hitachi DS-ST-35; DS-ST-36
	Inkel PD-40
	I.T.T.
	Japan Columbia ATN-3400
	K.L.H
	Marantz ATN-3400; CT-5 S
	National EPS-75 STSD; EPS-77 ST
	N.E.C. LP-355 D
	Onkyo DN-52 ST
	Saba CN-5431 (C-3000);
	AT-3400 (PSP-240);
	AT-3400 (PSP-100)
	Sanyo ST-55 D
	Schneider
	Sony ND-138 G; VL-38 GS
	Toshiba N-71 C; C-71 M
	Uher
	Wega
833	Sanyo ST-31 J
834	Japan Columbia DSN-50
	N.E.C. LP-70 D
	Piezo YM-123
835	Piezo YM-310
836	N/A
837	Excel ME-55
838	Pioneer PN-150
839	Fisher ST-44 D
	Sanyo ST-44 D
	Silver system 70
840	Fisher MG-100 S
	Sanyo ST-100 SD
841	National EPS-207 C
841-DE	National EPS-207 ED
842	National EPS-27; EPS-275;
843	Bang & Olufsen SP-10
844-DE	Bang & Olufsen SP-12
845	Bang & Olufsen SP-14
846	Yamaha N-6600
847	Audio Technica ATX-11
847-DE	Saba ATX-11 E
848	Onkyo DN-201 ST
	Sony ND-5 G; VL-5
848-DE	Audio Technica ATN-3712 E
	Onkyo DN-202 STE
	Sony ND-7 E
849	Audio Technica ATN-3712
	Fisher MG-53; ST-53 D
	Sanyo ST-53 D; ST-53 ZD; MG-53 Z
850	Audio Technica ATN-770 L
	National EPS-39 STSD
	Rotel 2RN-5
	Yamaha N-6600 S
851	Audio Technica ATN-3401;
	ATN-3450 L
	Magnavox 560429
	National EPS-75 STC/SD;
	EPS-76 STED; EPS-77 ST
	Nikko
	Pioneer PN-220

TONAR No.	May be used as replacement for:
851	Sanyo ST-35 D; ST-41 J Sharp STY-118 Toshiba N-293 DY Visonik Yamaha N-6700
852	Micro V-40
853	Nivico DT-30 S
854-DE	Sony ND-25 E; XL-25; XL-25 A
855	Sony ND-35 E; XL-35
856	Empire Scientific 2000
857-DE	Empire Scientific 2000 E Schneider SPP-30
858-DE	Empire Scientific 4000 D/I
859-DE	Empire Scientific 2000 E/I
860-DE	Empire Scientific 2000 E/II
861-DE	Empire Scientific 4000 D/II
862	Glanz MG-20 R Onkyo DN-51 ST Rotel 2RC-1 Sharp STY-116 Toshiba N-160 C; C-160 M
863	Sony ND-220 G; VL-20
864	Audio Technica ATN-750 Yamaha N-6800
865	Audio Technica ATN-750 Fisher ST-41 D Inkel JB-2000 Sanyo ST-41 D; ATN-750
866	Audio Technica ATN-750 C.E.C. ATN-750 Teac
867	Audio Technica ATN-105
868-DE	Audio Technica ATN-110 E Rotel ATN-110 E
869-DE	Audio Technica ATN-120 E
870-ES	Audio Technica ATN-125 LC
871	Audio Technica AT-103 Sound Burger Hitachi DS-ST-17
871-DE	Audio Technica ATN-130 E
872-ES	Audio Technica ATN-140 LC
873-ES	Audio Technica ATN-155 LC
874	Tetrad T-5 H
875	Tetrad T-2 MS; T-2 MD
876	Kenwood N-53/V-53 Toshiba N-33 C; C-911 Trio N-53/V-53
877	Sansui SN-60; SC-60 Teac PC-313 Tensai
878	A.D.C. QLM-series Brandt QLM-30 MK III Radio Shack QLM-30 MK III Schneider QLM-30 MK III Siemens QLM-30 MK III
879	Audio Technica ATN-3710 Inkel Luxman ATN-3710 Scott 21 SC
880	Sony ND-250 G; XL-250 G
880-DE	Sony XL-20; ND-200 E
881-DE	Sony XL-30; ND-30 E
882	Piezo YM-122 Silver SL-5030
883	Piezo YM-124
884	Nivico DT-Z-4 S
884-DE	Nivico DT-Z-3 ED
885	Continental Edison Pathé Marconi National EPS-202 C; 202 ED EPC-202 CK; P-23; EPS-23 CS; EPS-23 ES; H-23; P-22
885-DE	National EPS-22 ES; EPS-23 ES; EPS-202 ED
886	National EPS-206 C
886-DE	National EPS-206 ED
887	Toshiba N-34 C; N-35 D; C-34 M; C-35 M; N-68
888	Glanz MC-30R Rotel 2RC-4 Akai RS-3 J
889	Piezo YM-125
890	Electronic Reproducers ER-312 X
891	Piezo YM-320
892	Denon DL-8 A; DSN-42 Japan Columbia DSN-42

TONAR No.	May be used as replacement for:
893-DE	Saba ATN-12 ES (PSP-250)
894	Audio Technica ATN-11 S Onkyo DN-37 ST
894-DE	Hitachi DS-ST-26 E
895	Audio Technica ATN-72 Inkel Telefunken ATN-72
896-DE	Akai RS-95; PC-95 Audio Technica ATN-3721
897	Akai RS-83 Audio Technica ATN-3412 Mitsubishi 3D-47 M
898	Audio Technica ATN-93; ATN-3410 ATN-3451 Marantz ATN-3400 National EPS-75 TFSD Nivico DT-38 Sansui SN-202 Sanyo ST-42 D Sherwood Siemens RW-150 Teac Telefunken ATN-3410 Tensai
899-DE	Akai PC-150; RS-150
900	Audio Technica ATN-3721
901	Shure N-97 B
901-DE	Radio Shack RXT-4 Rotel RXT-4 Shure N-97 ED Shure N-97 HE
901-ES	Sony ND-150 (not ND-150 G)
902	Audio Technica ATN-750
903	Sanyo ST-41 ZD
904	Audio Technica ATN-51; 52; 53 Garrard GS-22 Inkel PD-607 I.T.T. ATN-50 Nordmende Saba Sanyo ST-51 D Sherwood Sony ND-139 G Telefunken Thompson T-H 5 S Wega ND-139 G
904-DE	Audio Technica AT-51 E; AT-52 E; AT-53 E; AT-55XE; AT-57 XE; 59 XE Brandt Garrard GS-22 E Rotel AT-51 E; ST-51 D Saba Thompson T-H 5E Sharp STY-121
905	Nivico DT-37; MD-1034
906	Sony ND-150 G; XL-150
907	Jelco D
908	Kenwood N-50 Trio N-50;
908-DE	Kenwood N-51 E Trio N-51 E
909	C.E.C. MC-17 Teac Grundig Magnavox 560434 Schneider Sears Sharp Siemens RS-226 Tensai Toshiba N-21 D
911	Dual DN-140 S; ULM-40 S
912	Pioneer PN-230
913	Mitsubishi 3D-50M Sharp STY-128
914	Nagaoka C-320 M Toshiba N-320; C-320 M; N-330 D; C-330 M
915	Audio Technica ATN-70 L Sanyo ST-26 J Toshiba N-56 DY
916	Audio Technica ATN-3601 Magnavox 25130071 Philips Sharp STY-123

TONAR No.	May be used as replacement for:
916-DE	Onkyo DN-63 STE
917	Audio Technica ATN-3600; ATN-3650 Brandt National ATN-3600 Nordmende Pathé Marconi Saba Sherwood Telefunken Tensai Thompson
918-DE	Micro LF-7
919	Sony XL-20 G/ ND-200 G
920	C.E.C. MC-6 S Cobra 250; 520 Schneider Toshiba N-20 C Excel ME-65
921	Audio Technica ATN-3711 E
922-DE	Marantz ATN-3711 E; CT-6 S Nivico DT-39; LF-71
923-DE	Onkyo DN-55 ST; DN-59 ST
924-DE	Empire 2000 X
925	Audio Technica Toshiba N-60 DY; N-70 C
926	Akai RS-84
927	Audio Technica AT-102 P Grundig ATN-102 Inkel ATN-102 P National EPS-90 SMBD; 90 STGD N.E.C
928	Audio Technica AT-892 Sanyo ST-38 D; ATN-892
929	Yamaha N-8000
930	Nivico DT-41; LE-500; LE-600
931-DE	Denon DL-60 Japan Columbia DSN-60
932-DE	Nivico DT-Z 1 EB
933	Akai RS-85; PC-85 Audio Technica ATN-3401 Philips 499 Sharp STY-130 CX-680 6C (801 DS plastic cant.) Rex (Zanussi) Sharp STY-132 Silver S-8300 Tensai Toshiba N-40 C
935	Aiwa AN-70 Akai RS-77 Audio Technica ATN-3851 Brandt Continental Edison Kenwood N-56; N-56 B Marantz TT-333; TT-433; TT-443; TT-553 Mitsubishi 3D-54 M Sansui SN-303 Thompson Toshiba N-72 D; C-72 M Trio N-56; N-56 B
936	Audio Technica ATN-70
937	Mitsubishi 3D-42 M; 3D-45 M Denon DSN-47 N.E.C. LP-310 D Japan Columbia DSN-47 Denon DSN-48 Japan Columbia DSN-48
938	Hitachi DS-ST-15
939	Grundig P-24
940	National EPS-24 CS Schneider P-24
940-DE	National EPS-24 ES
941	Sharp STY-120
942	Audio Technica ATN-3710 L
943	Nagaoka C-721
944	Nagaoka MP-05 Toshiba N-310 C; C-310 M Nagaoka MM-321 B Teleton MM-321B
945	Philips GP-400 MK III
946	Philips GP-401 MK III
946-DE	Empire 2000 T
947-DE	Amstrad T-30 MS; T-30 MD
948	Schneider T-30 MS

TONAR No.	May be used as replacement for:
948	Tetrad T-30 MS; T-30 MD
	Waltham T-30 MS
949	Japan Columbia DSN-51
	Onkyo DN-54 ST
	Piezo YM-127
950	Toshiba N-62 C; C-62 M; N-66 C;
	C-66 M; N-67 C; N-67 M
951	National EPS-41 STSD; EPS-41 ST
	Sanyo ST-03; ST-50 D
952	C.E.C. MC-45
	Jelco MC-45 D
953	Aiwa AN-60
	Osawa OS-1001
	Pioneer PN-K-65
953-DE	Osawa OS-2001
	Osawa OS-3001
954	Sanyo ST-20 J
955	Onkyo DN-56 ST
956	Inkel JB-4000; JB-5000
	Marantz
	N.E.C.
	Nikko
	Rotel
	Samsung LP-4
	Scott 20 SC
	Sharp SG-20 music centre; STY-127
	Silver SLU-30
	Uher
957	Aiwa AN-50
	Audio Technica ATN-3830; ATN-3831
	Denon DSN-63
	Hitachi DS-ST-16
	Japan Columbia (Denon) DSN-63
	Mitsubishi 3D-51 M
	Nivico DT-56
	Sharp STY-124
958	Kenwood N-39 MK II
	Trio N-39 MK II
959	National EPS-27 CS; EPS-28 CS
960	Tonar 511
960-DE	Tonar 511 BE
960-ES	Tonar 555
961	Nordmende
	Sansui SN-505
962	Toshiba N-45 C; C-45 M
963	Hitachi DS-ST-32
	Toshiba N-64 C; C-64 M (IM)
964	Stanton 600 A; D-6071 A
964-DE	Stanton 600 E; D-6004 E; 600 EE;
	D-6003 EE
965	C.E.C. RS-3
	Marantz
966	Scott 21 A SC
967	Shure SC-35 C; SS-35 C
968	Empire Scientific 100 S
968-DE	Empire Scientific 200 E
969	Dual DN-237; TKS-237
970	Dual DN-145 S; ULM-45 S
970-DE	Dual DN-145 E; ULM/TKS-45 E
	Schneider DN-145 E
971	Sanyo ST-15 J
972	Sanyo ST-29 D; ST-55 D
	Toshiba N-50 C; N-51 C
973	Marantz CS-500
	Nikko
	Sanyo STG-11
	Schneider SPP-26
	Toshiba N-292
	Uher
974	Audio Technica AT-91; ATN-91;
	ATN-3601; ATN-3651
	Blaupunkt
	Europhon
	Luxman
	Nivico DT-55
	Pioneer PN-320
	Saba
	Sanyo
	Sony ND-142 G; VL-42 G
	Teleton
	Tensai
975	Sanyo ST-101 SD
976	Audio Technica ATN-3230
	Yamaha N-8010; MC-801
977	Sony ND-143 G; VL-43 G

TONAR No.	May be used as replacement for:
978	Hitachi HT-20 S
979	Hitachi DS-ST-33
979-DE	Audio Technica ATN-112 EP
	Sherwood AT-112 EP
980	Amstrad
	Denon DSN-57
	Japan Columbia (Denon) DSN-57
	Sanyo STG-9; MG-17-10
	Sherwood MG-1710
981	Audio Technica ATN-2005;
	ATN-3600 L; ATN-3650 L
	Dual DN-235; DMS-235; DN-239;
	DMS-239
	Grundig DN-235; DN-239
	Rotel
	Schneider DN-239
	Siemens DN-239
982	Akai RS-7; PC-7
982-DE	Hitachi DS-ST-33 E
983	Japan Columbia (Denon) DSN-62
	Denon DSN-62
984	Supex SM-38
984-DE	Supex SM-38 E
985	Mitsubishi 3D-52 M
	Sansui SN-707
986-DE	Audio Technica AT-102 EP
	Grundig ATN-102 EP
	Hitachi DS-ST-13; MT-13
	National EPS-90 SMAD; 90 STGED
987	Nivico DT-55 MK II
	Sharp RP-23; RP-35; STY-140
988	Nivico DT-201
989	Sanyo STM-11; MG-M 11
	Sharp STY-131
990	Akai RS-82
	Audio Technica ATN-2004
991	Audio Technica ATN-3600 C; ATN-3650 C
	National EPS-43 STSD; 75 STHSD
	Sharp STY-141; STY-142
	Teac PC-707; N-707
	Yamaha CG-7700; N-7800
992	Sharp STY-122
993	Marantz CT-100
994	Magnavox 25130079
	Philips GP-330
	Radiola GP-330
994-DE	Magnavox 25130081
	Philips GP-331
	Radiola GP-331
999	Steel needles in box of 200 pcs
6001	Hitachi HN-ST-6
	Tetrad T-20 MS; T-20 MD
6002	Tetrad T-3 MS; T-3 MD
6003-ES	Nagaoka JN-110
6004	Garrard GC-11
6005-DE	Coral 666 EX
6006	Decca Deram
6007	Tetrad T-12 MD; T-12 MS
6008	Kenwood N-52
	Trio N-52
6008-DE	Audio Technica ATN-3452 E
6009	Mitsubishi 3D-46 M
6010	Sansui SN-70; SC-37 A
6011	Audio Technica ATN-3472 P
	Sanyo ST-26 DL
6011-DE	Audio Technica ATN-3472 EP
6012	Sanyo ST-34 D
6013	Micro 307 IM
6014	Aiwa AN-30
	Sharp STY-137; RP-255
	Teleton N-1520
6015	Sharp STY-136; RP-155
	Tensai
6016	Denon DSN-66
	Japan Columbia DSN-66
	Sanyo STG-10; GXT-210; GXT-410
	Sherwood
6017	Sanyo ST-37 LD
6018	Shure M-97 LT
6019	Shure SDS-1
6020	Shure M-44 C with guard
6021	Kenwood N-54
	Trio N-54

TONAR No.	May be used as replacement for:
6022	Sony ND-MM 1 G; XL-MM 1
6022-DE	Sony ND-MM 2 E; XL-MM 2
6022-ES	Sony ND-MM 3 X; XL-MM 3
6023	National EPS-25 CS
6024	National EPS-23 CS
6025	C.E.C. ST-630
6025-DE	Excel ESP-300 E
6025-ES	Excel ESP-300 X
6026	Excel ESP-300 C
	Marantz TT-530
6027	Denon DSN-65
	Japan Columbia (Denon) DSN-65
6028	Jelco MC-12
6029	Ortofon VMS-20 E
6030	Dual DN-149 S; TKS-49 S
6030-DE	Dual DN-152 E; TKS-52 E
6031	National EPS-30 CS
6032	National EPS-33 ES
6033-DE	Dual DN-155 E; ULM/TKS 55E
6034-DE	Dual DN-160 E; ULM/TKS-60E
6035	General Electric VR-II/G-16 only
6036	Onkyo DN-62 ST
	Sanyo ST-102 S; ST-102 SD
6037	Sharp STY-138
6038	Fidelity T-50 HS
	Schneider T-50 HS
	Tetrad T-50 HS
6039	A.D.C. L-3
6040	A.D.C. Q-3
6041-DE	Elac ESG-792 E; DN-792 E
6042	A.D.C. L-4
	Mitsubishi L-4
	Tensai
6043	A.D.C. Q-4
6044	
6045	Dual DN-236
6046	Dual DN-390
6047	Sharp STY-107
	Toshiba N-250 C; C-250 M
6048	Audio Technica ATN-2001
	Onkyo DN-61 ST
6048-DE	Onkyo DN-61 STE
6049	Akai RS-33; PC-33; RS-35; PC-35
	C.E.C. N-103
	Dual DN-450; MMP-450
	Grundig
	Pioneer PN-250 T; PN-305 T
	Sansui SN-P 313; SN-P 515
	Teac PCS-708; PC-708
	DS-ST 18 R
6049-DE	Hitachi DS-ST 18
6050	Sanyo ST-L 5 D
6051	C.E.C.
	U.P.O.'s white
6052	Toshiba N-290 D
6053	Ortofon M-20 E Super
6054	Ortofon Stylus STD
6055	Ortofon LM-10
6056	E.E.I. 300H
6056-DE	E.E.I. 400
6056-ES	E.E.I. 500
6057-ES	E.E.I. 700
6058	Shure V-15 type 5
6059	Sharp STY-135; RP-P8
6060	Sansui SN-909
6061	Sansui SN-29
6062	Radio Shack RT-1500
	Realistic RT-1500
6063	Marantz TT-140; TT-240; TT-340;
	TT-440
	Sanyo ST-44 J
6064	National EPS-75 SMLD
	Sanyo
	Sharp
	Sony ND-147
6065	Sansui ST-2 D
6066	Sharp N-15 D
6067	Sansui ST-9 D; SN-24
6068	Sanyo all plastic
6069	
6070	Coner Testina RC-1
6071	Onkyo DN-38 ST
6072	Empire Scientific 150 C
6072-DE	Empire Scientific 250 E
6073	Japan Columbia (Denon) DSN-3

TONAR No.	May be used as replacement for:	TONAR No.	May be used as replacement for:	TONAR No.	May be used as replacement for:
6074	Japan Columbia (Denon) DTS-4	6148	Sharp STY-143	6228	Sanyo ST-07 D
6075	Japan Columbia (Denon) DSN-4	6149	Sanyo ST-40 D	6229	Sanyo ST-08 D
6076	Japan Columbia (Denon) DSN-5	6150	A.D.C. PSX-5; PSX-5 E	6230	Nivico DT-59
6077	Japan Columbia (Denon) DSN-6	6151	Nagaoka JN-120	6231-ES	Excel ME-65 X
6078	Japan Columbia (Denon) DSN-7/DSN-8	6152	Akai RS-50	6232-ES	Excel S-75 QL
6079	Japan Columbia (Denon) DSN-32		Mitsubishi RS-50	6233	Japan Columbia DSN-67
6080	Japan Columbia (Denon) DSN-40	6152-DE	Akai RS-50 E	6234	Sansui SNP-212
6081	Onkyo DN-34 ST	6153-DE	Yamaha N-8100	6235-DE	Dual DN-150 E
6082	Onkyo DN-36 ST	6154	Toshiba C-32 M	6236	Audio Technica AT-4-7 D black
6083	Sharp STY-550	6155	Sony ND-142 GP	6237	Onkyo DN-68 ST
6084		6155-DE	Sony ND-142 EP		Sharp STY-155
6085	B.S.R. S-1; SN-1	6156	Aiwa AN-2	6238	Sony ND-155 G
	Sharp RP-50	6157		6239	U.P.O.'s
6086	Nuway NS-88	6158	Kenwood N-63	6240	U.P.O.'s
6087	Japan Columbia (Denon) DSN-11		Trio N-63	6241	U.P.O.'s
6088	Mitsubishi 3D-29 M	6159	Marantz TT-430	6242	U.P.O.'s
6089	Nivico DT-12	6160	Pioneer PN-290 T	6243	U.P.O.'s
6090	Nivico DT-13	6160-DE	Pioneer PN-300 T	6244	Onkyo DN-106 ST
6091	Nivico ST-19	6161	Akai RS-10; PC-10	6245	U.P.O.'s
6092	Nivico DT-22	6162-ES	E.E.I. 800	6246	Nivico DT-55 MK 2
6093	Nivico DT-15	6163	Marantz TT-551	6247	Sansui SV-111
6094	Nivico DT-18	6164	Sanyo ST-66 D	6248	Onkyo DN-107 ST
6095-DE	Sony ND-50X; XL-50	6165	Sony ND-144 G	6249	Trio N-65
6096-DE	Sanyo STA-1D	6166	Nivico DT-55 B		Kenwood N-65
6097-DE	Shure M-92 E (new)	6167	Pioneer PN-295 T	6250-DE	Nivico DT-2 1 E
6098-DE	Shure M-99 E	6168	Nivico DT-Z 5 P; Z-5 P	6251	Pioneer PNK-75
6099-DE	Shure M-104 E	6169	Nivico DT-35	6253	Sharp STY-145
6100-ES	Shure M-110 HE	6170	Sony ND-301 P	6254	
6101	Toshiba N-280 C; C-280 M	6171	U.P.O.'s blue	6255	Jelco MC-29
6102	Pioneer PN-200	6172	U.P.O.'s red	6256	Amstrad 900 D
6103	Pioneer PN-800	6173	U.P.O.'s yellow	6257	Trio N-66
6104-ES	Pioneer PN-21	6174	U.P.O.'s red		Kenwood N-66
6105-DE	Pioneer PN-330 E	6175	Tensai MC-3750	6258	Trio N-67
6106-DE	Pioneer PN-550 E		U.P.O.'s red		Kenwood N-67
6107-ES	Pioneer PN-770 EX; PN-1000C	6176	Tonar 611	6259	Sanyo ST-09 D
6108-DE	Nivico DT-21	6177-DE	Tonar 611 BE		Trio N-69
6109-DE	Audio Technica AT-122 EP	6178	Audio Technica ATN-2002		Kenwood N-69
	Inkel ATN-122 P	6178-DE	Audio Technica ATN-3652 E	6260	Marantz CT-551
6110-ES	Audio Technica AT-122 LP	6179-DE	Audio Technica ATN-3651 E	6261	Sanyo
6111	Nivico DT-57	6180	Audio Technica ATN-3492 P	6262	Ponica UF-70
6111-DE	Audio Technica AT-3472 EP	6180-DE	Audio Technica ATN-3492 EP	6263	Aiwa AN-11
6112	Sansui SN-43	6181	Audio Technica ATN-770	6264	Nivico DT-58 B
6113	Yamaha N-6900	6182	Audio Technica ATN-90	6265	Nivico DT-60
6114-DE	Yamaha N-7900	6183	Kenwood N-62; V-62	6266	Yamaha N-8300
6115	Toshiba N-44		Trio N-62; V-62	6267	Nivico ATN-1059
6116-ES	Toshiba N-220 ME/X; C-220 M	6184	Excel S-75 ER; ME-75	6268	Mission Solitaire
6117	National EPS-51 CS	6185	Excel S-700 DR; ES-700 D	6269	Japan Columbia DSN-25
6118	National EPS-P 53 CS	6186	Audio Technica ATN-3400 C;	6270	Andante P-38
6119-DE	National EPS-53		ATN-3450 C	6271	Audio Technica AT-3-5 D
6120-DE	Audio Technica AT-115 E	6187	Audio Technica ATN-3652	6272-DE	Andante P-76
6121	Mitsubishi 3D-MM 1	6188	Audio Technica ATN-2003	6273	Sanyo blue
6122	Nivico DT-55 W	6189-DE	Audio Technica ATN-101 EP	6274	Jelco MC-50 D
6123	National EPS-02	6190	Toshiba TP-116 SD	6275	Excel ES-750 L
6124-DE	Pioneer PN-550 E MK II	6191	Coner R-608 RCS	6276	Pioneer PN-350
6125	Pioneer PN-1000 MK II	6192	Japan Columbia DSN-9	6277	Fisher Price power point
6126	Audio Technica ATN-101 P	6193	Onkyo DN-65 ST	6278	Tetrad T-1 LD
	N.E.C.	6194	Ronette 107 double	6279	Sansui SN-1112
	Scott ATN-3482 P	6195	Sanyo ST-55 D	6280	Audio Technica AT-4-7 D orange
6127-DE	Audio Technica ATN-95 E;	6196	Sharp STY-144	6281	Sansui SN-36 orange
	ATN-3451 E	6197	Pioneer PN-291	6282	Sanyo STG-10 (tracks 3.5-6 gr)
	Sherwood	6198	Sanyo ST-67 D	6283	Trio N-68
6128	Tetrad TZ-1 S; TZ-1 D	6199	Sanyo ST-47 D		Kenwood N-68
	Zenith 142-185	6200	Sanyo ST-57 D	6284	National EPS-55 CS
6129	Toshiba N-500 C; C-500	6201	Acutex M-106	6285-ES	Shure Ne-97 HE (Encore)
6130	Piezo YM-818	6202-DE	Acutex M-110 E	6286	Onkyo DN-70 ST
	Visonik YM-818	6203	Audio Technica ATN-3660 YL	6287	Pioneer PN-240
6131	Toshiba N-69 D; C-69 M	6204	Trio N-61	6288	Sharp STY-112
6132			Kenwood N-61	6289	Nivico DT-62
6133	U.P.O.'s KP-20	6205	Electronic Reprod. ERC-900	6290	Pioneer PN-19
6134	A.D.C. PSX-10	6206	Marantz TT-153	6291	Kenwood N-71
6135	A.D.C. PSX-20	6207	Toshiba N-77 C		Trio N-71
6136	A.D.C. PSX-30	6208	Sanyo STG-12	6292	Azden YM-10 C
6137	A.D.C. PSX-40	6209-DE	Sonus Clear E	6293	Azden YM-10 E
6138	Kenwood N-59	6210-DE	Sonus Black E	6294-DE	Azden YM-10 VE
	Toshiba N-75 C; C-75 M; N-76 DY	6211-DE	Sonus Smoke E	6295	Azden YM-P 50 C
	Trio N-59	6212-ES	Sonus Black Bonded LC	6296	Toshiba N-73 CY
6139	Toshiba N-74 C; C-74 M; N-74 DY	6213-ES	Sonus Black Naked LC	6297	Empire S-3 D
6140-DE	Pickering DTL-1; TL-1	6214	Supex SMM-5	6298	Empire S-40
6141		6221	Empire S-111	6299-DE	Empire S-45 E
6142-DE	Akai RS-180; PC-180	6222	Empire S-333	6300-DE	Empire S-105
6143	Sony ND-300 G; XL-300	6223	N.S.M. (ORTOFON)	6301	Empire S-205
6144	Dual DN-450	6224	Pioneer PN-250 T	6302	Empire 140 C
6145	Sony ND-10 G; XL-10	6225	Toshiba N-37 C	6303-DE	Empire 245 E
6146-DE	C.E.C. MC-20 ES	6226	Sansui SN-757	6304	Empire 195 LT
6147	Sony ND-250 E; XL-250 E	6227	Sharp STY-146	6305	Empire 295 LT

TONAR No.	May be used as replacement for:
6306	EMPIRE S-395 LT
6307	EMPIRE S-485 LT
6308	EMPIRE S-1085 LT
6309	EMPIRE 300 ELT
6310	EMPIRE 500 PEX
6311	EMPIRE 15 C
6312	EMPIRE 25 E
6313	EMPIRE 150 KC
6314	EMPIRE 250 KE
6315	AUDIO TECHNICA ATN-3663
6316	AUDIO TECHNICA ATN-771 E
6317	EDISON T FOR AMBEROLA CILINDER
6318	AZDEN YMP-50 E
6319	AZDEN YMP-50 VL
6320	SHURE NV-30 HE
6321	SHURE N-11 (SPS-series)
6322	SHURE N-12 (SPS-series)
6323	SHURE N-13 (SPS-series)
6324	SHURE N-14 (SPS-series)
6325	SHURE N-15 (SPS-series)
6326	SHURE N-75 HE
6326	SHURE N-75 HE TYPE II
6327	SHURE NDC-HE (SDS-3)
6328	PIEZO YM-130 BLOCK-ELLIPTICAL
6329	A.E.U. CERAMIC RED ALL PLASTIC
6329	AEU CERAMIC RED ALL PLAST DIA
6330	A.E.U. CERAMIC ALLU CANT.
6331	SHARP STY-152
6332	SHARP STY-154 BROWN
6333	DUAL DN-150 E
6334	TRIO/KENW. N-74; N-75
6335	TRIO N-72
6336	PIONEER PN-260
6337	EPS-510 NML VVD: 6031 DS
6338	EPS-520 ES NML, VVD: 6031 DE
6339	SHURE N-75-3 NML, VVD: 386 DN
6340	NATIONAL EPS-530 ES
6341	NATIONAL EPS-540 ES
6342	NATIONAL EPS-550 ES
6343	PIEZO YM-305
6344	AIWA AN-5080
6345	AUDIO TECHNICA ATN-3609 YL
6346	PHILIPS MG-2510; SANYO ST-59 U
6347	SHARP STY-146 RED PLASTIC DIAM
6348	HITACHI DS-ST-8; HT-300
6348	HITACHI DS-ST-8 (HT-300)
6349	JAPAN COLUMBIA DSN-36
6350	PHILIPS GP-406 MK III
6351	JAPAN COLUMBIA DSN-46
6352	TRIO/KENWOOD N-77
6353	AKAI APM-70 GREY (5110.6)
6354	PHILIPS NLD 4822 251 30112
6355	ORTOFON STYLUS PRO -COPY-
6356	ORTOFON STYLUS 10 NEW
6357	ORTOFON STYLUS 5 NEW
6358	ORTOFON STYLUS 5-E NEW
6359	PICKERING DLC
6360	AKAI PL-305
6361	SHURE N-44 G DARK GREY
6362	ORTOFON STYLUS 30 COPY
6363	PHILIPS 4822 251 40143
6364	STANTON D-5100 AL - DJ STYLUS

TONAR No.	May be used as replacement for:
6365	U.P.O.S. CN-251 (CART MG-2831)
6366	AKAI CN-254 BLACK
6367	A.K.G. X 8 E
6368	ORTOFON STYLUS 5 * NEW *
6369	ONBEKEND ARTIKEL (FAH383)
6369	ORTOFON ALL-ROUND F/FF I/II
6369	ORTOFON ALL ROUND F/FF I/II
6370	ELAC D-795 E
6371	ORTOFON STYLUS 20 (NEW)
6372	SHURE N-105 ED
6373	STYLUS FOR 2283/2288/2380
6373	78 RPM FOR 2283, 2288, 2380
6374	A.K.G. X-6 R
6374	A.K.G. X-6 E
6375	ELAC D-791
6376	ORTOFON ALLROUND FF-SERIES
6376	ORTOFON ALLROUND FF-E SER.
6377	VERVALLEN
6377	ELAC D-793 E
6378	AUDIO TECHNICA ATN-91 78-RPM
6379	DUAL DN-34 TBV MMD-340/345
6380	PHILIPS GP-350
6381	PHILIPS GP-351
6382	STANTON D-71 EE (L-720 EE)
6383	ELAC D-355-17
6383	ELAC D-355 E
6384	ELAC D-455-12
6384	ELAC D-455-E
6385	ELAC D-555-12
6385	ELAC D-555 E
6386	ELAC D-655 D-4
6387	PHILIPS GP-406 III
6388	PHILIPS GP-412 III
6389	PHILIPS GP-420 III
6390	STANTON D-6800 EL
6391	AUDIO TECHNICA ATN-10 G
6392	SHURE N-70 BX
6393	AUDIO TECHNICA ATN-13 E
6394	AUDIO TECHNICA ATN-360 YELLOW
6395	AUDIO TECHNICA ATN-361 GREEN
6396	AUDIO TECHNICA ATN-362 BLUE
6397	AUDIO TECHNICA ATN-14 EA
6398	AUDIO TECHNICA ATN-102 P
6399	ORTOFON STYLUS 15 NEW
6400	NIVICO DT-55 ELIP. BLUE/GUARD
6400	NIVICO DT-55 SHIBATA TIP
6401	SHURE N-97 LT HYP.ELLIPT. RED
6402	ASTATIC N4-2S 78RPM
6403	AUDIO TECHNICA ATN-3600L - DJ
6404	AUDIO TECHN. ATN-3472LC SHIBAT
6405	CONER RCS/RONETTE SC109
6406	NAALD VOOR PFAN P-132D
6407	SHURE VN-35 MR - SAS TIP
6408	AUDIO TECHN. ATN-3600 SHIBATA
6409	SHURE VN-45 MR - SAS TIP
6410	AUDIO TECHNICA ATN-95 HE BLUE
6411	ELAC D-793 SH - SAS TIP
6412	NATIONAL EPS-22 - SHIBATA
6413	PIONEER PNQ-1 - SHIBATA
6414	STANTON D-680 SHIBATA TYPE
6415	EMPIRE S-200 - SHIBATA STYLUS
6416	SHURE VN-15 (V-15 TII)-SAS TIP

TONAR No.	May be used as replacement for:
6417	EMPIRE S-2000-SHIBATA W/GUARD
6418	AUDIO TECHNICA ATN-95 SHIBATA
6419	ELAC DN-796 H - SHIBATA TIP
6420	SHURE V-15 TYPE V - MR
6421	ELAC D-796H - HYPER ELLIPTICAL
6422	SHURE N-91 HE - HYPER ELLIPT.
6423	AUDIO TECHNICA ATN-3492P
6424	SHURE N-75 ED II - SAS TIP
6425	SHURE V-15 TYPE V/MR - SAS
6426	SHURE N-91 ED - SAS TIP
6427	NATIONAL EPS-270 ED - SAS TIP
6428	SHURE N-95 ED - SAS TIP
6429	NATIONAL EPS-30 ES - SAS TIP
6430	SHURE V-15 TYPE V X/MR
6431	AUDIO TECHNICA ATN-3482 P
6432	NATIONAL EPS-205CEX - SAS TIP
6433	AUDIO TECHNICA ATN-3472 EP
6434	NATIONAL EPS-205ED - SAS TIP
6435	SHURE V-15 TYPE V/xMR - SAS
6436	AUDIO TECHNICA ATN-3472 -78RPM
6437	AUDIO TECHNICA ATN-20 SS
6438	NATIONAL EPS-202 ED - SAS TIP
6439	AUDIO TECHNICA ATN-95 78 RPM
6440	AUDIO TECHNICA ATN-3472 SEP
6441	SHURE N-97 XE - SAS TIP
6442	SHURE N-110 MR - SHIBATA GR.CC
6443	STANTON D-72 E, D-73 E, L-727E
6444	COIN MACHINE
6445	SHURE VN-45 HE - HYPER ELLIPT.
6446	SIGNET TKN-22 STYLUS ELLIPT.
6447	STANTON 881-S SHIBATA TIP
6448	STANTON 881-S - D-SAS TIP
6449	NATIONAL EPS-270 HYPER ELL.
6450	SHURE VN-45 MR - SHIBATA TIP
6451	NATIONAL EPS-24 CS HYPER ELL.
6452	STANTON 681 EEE - HYPER ELLIPT
6453	SHURE V-15 III VN-35 HYPER ELL
6454	SHURE N-110 D-SAS TIP
6455	STANTON 881-S MK II - SHIBATA
6456	AUDIO TECHNICA ATN-3472 P
6457	AUDIO TECH. ATN-3600L-NO LOGO
6458	GOLDRING G-920 HYPEL
6459	TONAR STEEL NEEDLE V.SOFT TONE
6460	TONAR STEEL NEEDLES SOFT TONE
6461	TONAR STEEL NEEDLES MED-LOUD
6462	TONAR STEEL NEEDLES LOUD TONE
6463	TONAR STEEL NEEDLES VERY LOUD
6464	ASTATIC POWERPOINT 81T 89T
6465	ASTATIC POWERPOINT 81T; 89T
6466	PHILIPS GP-406 MK III
6467	DENON DL-107 STYLUS
6468	PHILIPS GP-412 MK III
6469	ORTOFON OM-SERIES SHIBATA
6470	AUDIO TECHNICA ATN-3472 HYPEL
6471	A.D.C. RS-Q 30 ELLIPT.
6472	SHURE N-97 HE SHIBATA
6473	A.D.C. XLM - SHIBATA
6474	SHURE VN-5 MR - HYPER ELLIPT.
6475	AUDIO TECHNICA ATN-14 SA-SHIBA
6476	ORTOFON D-30 E MKII SHIBATA
6479	SHURE VN-5 X/MR HYPER ELLIPT

