


## CONTENTS - NEEDLE \& CARTRIDGE CATALOG

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## SYSTEMATIC NEEDLE NUMBERING

A block of numbers is set aside for each CARTRIDGE BRAND. Only one number is applied to each KIND of needle. Differences in tip material and radius are described in the uniform SUFFIXES. Thus we can add new numbers, yet keep all needles for a given cartridge brand in numerical sequence.
HERE ARE THE STARTING NUMBERS FOR EACH BLOCK

| 100-ADC | 530-Goldring | 790-Japanese |
| :---: | :---: | :---: |
| 110-Acos | 535-Jensen | 800-Sonotone |
| 135-Amer. Micro | 538-Ortofon | 814 -Japanese |
| 150-Astatic | 550-Lesa | 820-Stanton |
| 200-Audio Technica | 556-Magnavox | 840-Telefunken |
| 230-Audio Empire | 560-Perp-Ebner | 850-Teppaz |
| 260-B \& O | 580-Philco | 853-Tetrad |
| 270-BSR | 585-Philips | 860-Varco (Vaco) |
| 290-CBS Columbia | 600-Pickering | 880-Webster Elec. |
| 300-Dual | 610-Japanese | 896-Zenith (Needles) |
| 325-Elac | 640-RCA | 900-Japanese |
| 350-Electro-Voice | 660-Japanese | 910 -Astatic Plug-In |
| 460-Euphonics | 700-Ronette | 940-EV Plug-In |
| 490-Garrard | 703-Japanese | 980-Sonotone Plug-In |
| 500-Gen. Elec. | 726-Seeburg | 990-Zenith Plug-In |
| 525-Grado | 750-Shure | 4000-Generic Stylus |

## EXPLANATION OF UNIFORM SUFFIXES:

## D $=$ Genuine DIAMOND

S = Synthetic SAPPHIRE
$1=.001$ or 1 mil tip for $16,33 \& 45 \mathrm{rpm}$ MONAURAL
$2=.002$ or 2 mil compromise tip for all MONAURAL
$25=.0025$ or 2.5 mil tip for Transcription \& 78 rpm
$3=.003$ or 3 mil tip for 78 rpm
$5=.0005$ or .5 mil tip for Stereo $33 \& 45 \mathrm{rpm}$
$6=.0006$ or .6 mil tip for Stereo $33 \& 45 \mathrm{rpm}$
7 = .0007 or .7 mil tip for Stereo $\&$ Mono $33 \& 45 \mathrm{rpm}$
$E=E L L I P T I C A L$ tip for stereo or mono $33 \& 45 \mathrm{rpm}$ Dimensions of ellipse (ex. $3 \&$.7) may appear under extra information column for magnetic cartridge needles.
" $M$ " means needle is made for MANUAL professional type turntable - has highest internal compliance.
" $T$ " means needle is for single play automatic.
"C" means needle is for Record Changers - slightly firmer to activate record changer mechanism.
" $Q$ " means specially shaped tip for Discrete 4 Channel.
G, L, V, X \& Z indicate minor differences in tracking force and compliance.

The SUFFIX tells whether the needle has one tip or two; what the tips are made of; and the tip RADIUS, which determines the record speeds it will play.
Example: 164 -DS73 is for an Astatic Cartridge; has a .7 mil DIAMOND for Stereo-LP; and a 3 mil SAPPHIRE for 78 . The same needle with two Stereo Diamond tips would be 164-DD77.

## Letter PREFIX on Tetrad Needle Numbers:

A PREFIX Letter, to indicate length of needle lever arm, has been used in our new Tetrad needle numbers. See full explanation on Tetrad page.

## YOU CAN BE A NEEDLE EXPERT

Phonographs in service use over 350 basic needle types, and this catalog offers more than 1200 variations of tip size and material to play the different record speeds. BUT - about 50 types will account for 75 to $80 \%$ of total needle sales. Make yourself familiar with the poputar types, and learn how to use this informative catalog, and you'll soon be a "NEEDLE EXPERT".

## to Find a replacement needle:

BEST WAY is to have customer bring in the old needle so you can compare it with the pictures to pick out the right replacement, then double check by comparing with the actual needle.
NEXT BEST way is to use the CARTRIDGE NUM$B E R$ and Brand, using Section II.

If customer brings in another brand needle package or number, use Section V.
If he knows the set make and model, use Section VII. Even when he does not know the model number, use of the pictures, cartridge brand, etc. can usually result in correct selection.
If there is any doubt, SELL HIM THE NEEDLE THAT MOST CLOSELY fits his description, but TELL HIM TO REMOVE THE OLD NEEDLE FROM THE PHONO, AND COMPARE IT WITH THE NEW ONE BEFORE HE OPENS THE PACKAGE. If it is not right, he can bring in the old needle for identification, and exchange the needle purchased for the. right one IF THE PACKAGE IS NOT OPENED.

## STARS INDICATE SALES RATE * $\boldsymbol{*}$

We've inserted Stars ( ${ }^{*}$ ) near needle pictures ir Section II. ${ }^{* * * * *}=$ EXCEPTIONALLY GOOD mover; **** $=$ Excellent; ${ }^{* *}=$ Good; ${ }^{* *}=$ Fair; ${ }^{*}=$ Occasional; No stars $=$ slow (special order). You decide whether to carry Diamond or Sapphire or both.

REMIND YOUR CUSTOMERS TO
Replace an Osmium needle after 40 hours of play. Replace a Sapphire needle after 80 hours of play. Replace a Stereo Diamond after 400 to 600 hours of play.

## REMIND YOURSELF TO

Get acquainted with this helpful book. It will enable you to make extra profitable needle sales. With just a little effort, you'll know a lot more about needles than your customers, and to them, YOU'LL BE A NEEDLE EXPERT.

YOU CAN BE A CARTRIDGE EXPERT, TOO!
Study the tips on selling cartridges in Section III, PHONO CARTRIDGES.


## VISUAL GOMPARISON GHART

|  |  |  | EUPMONICS <br> 4se | EUPHONICS <br> $451-$ |  <br> 462. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EUPHONICS <br> 454- |  | GRRRARD <br> 494 | GEM. ELEC. 501- | $\square$ |  |  |
| GEM. ELEC. | CEN. ELEC. | CEM. ELEC. <br> 511- | GRADO $525-$ |  | ORTOFOM $541 .$ |  |
|  |  |  |  | PMUPS $595 \cdot$ |  | PICXERIMC |
| PICKEREMG <br> 603. |  |  |  |  |  |  |
|  | ALL BRAMDS |  |  |  |  |  |
| PAMASOMIC <br> 627. |  |  |  | PAMASOMIC <br> 632. | KENWOOR-TR1O <br> 633. |  |
| 635. |  |  | ACA | RCA <br> 645. |  |  |
|  |  | 651- |  |  |  | PAMASONC |
| PIOMEER <br> 662. | PIOMEER <br> 663- |  |  |  |  | SONY, YAMAMA 668- |



## VISUAL COMPARISON GHART



## NEEDLE IDENTITY BY GARTRIDGE NUNIBER


cartridec maxer \& number
illustration

| SuGG |
| :--- |
| PRIG |

manufacturer's meedle number
ADC-AUDIO DYNAMICS
Numbers 105 through 116 are manu-
factured by Audio Dynamics Corp.

| ADC-AUDIO DYNAMICS |  |  | $m$ | factured by Aud |
| :---: | :---: | :---: | :---: | :---: |
|  | mackine force | onicinal strus color |  |  |
| Point 4; 660, 770 , | 809 | Red or Gry/Blk |  | 100-D7 |
| ADC-27 | ( $\frac{1}{2}$ to $1 \frac{1}{\frac{1}{2}} \mathrm{gr}$.) | Beige-Gold |  | $105-\mathrm{DE}$ |
| ADC-26 | ( $\frac{1}{2}$ to $1 \frac{12}{4} \mathrm{gr}$.) | White-Gold |  | 106-DE |
| ADC-25 | ( $\frac{1}{2}$ to $1 \frac{1}{2} \mathrm{gr}$.) | Red, Blue, White |  | 107-DE |
| 10E Mark IV | (. 7 gr .) | Black-Gold |  | 107-DEX |
| Super XLM/II;ZLM XLM/MkIII <br> XLM, XLM/MkII | $\begin{array}{\|lll} (3 / 4 & \text { to } & \left.1 \frac{1}{2}\right) \\ (3 / 4 & \text { to } & \left.1 \frac{1}{2}\right) \\ (3 / 4 & \text { to } & \left.1 \frac{1}{2}\right) \\ \hline \end{array}$ | $\begin{array}{\|l} \hline \text { Black } \\ \text { Black } \\ \text { Black } \\ \hline \end{array}$ |  | $\begin{array}{\|l\|} \hline 108-\mathrm{DQ} \\ 108-\mathrm{DEX} \\ 108-\mathrm{DET} \\ \hline \end{array}$ |
| K6E, K7E, K8E | 2 to 3 | Dark Blue | *** | 110-DET |
|  | $3 / 4$ to $1 \frac{1}{2}$ | Dark Gray |  | 111-DEM |
| $\begin{aligned} & \text { QLM34/III;K5E; P32 } \\ & \text { Digital,XT-II,III } \end{aligned}$ | 13 to 3 | Dark Gray |  | 111-DET |
| $\begin{aligned} & \text { QIM } 322 / I I I, 33 / I I I ; ~ \\ & Q 1 M 30 / I T ; Q 30 \end{aligned}$ | 2 to 4 | Dark Gray |  | 111-DEC |
| Q1M30/III; $\mathrm{K8}$; P 30 | 3 to 5 | Dark Gray | ***** | 111-D7C |


| 15.00 | $*$ |
| ---: | :--- |
| 36.95 | $*$ |
| 36.95 | $*$ |
| 34.50 | $*$ |
| 46.95 | $\#$ |
| 79.95 | $*$ |
| 66.95 | $*$ |
| 57.95 | $*$ |
| 23.95 | $*$ |
| 47.95 | $*$ |
| 39.95 | $*$ |
| 28.95 | $*$ |
| 25.95 | $*$ |






NEEDLE IDENTITY BY CARTRIDGE NUUBER


NEEDLE IDENTITY BY CARTRIDGE NUMBER



## NEEDLE IDENTITY BY CARTRIDGE NUMBER

| E Q CBANG | NG O OLUFSE |  | $\frac{260 \text { and } 261 \text { types }}{}$ | availab | Not 1i | *ed | due to inactivity. SRD-7, Dual ${ }^{\text {DN-301 }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SP-12 |  |  | 35 | 264-DE | 27.95 | * | SP-12 . $4 \times$. 7 El1id. |
| $\boldsymbol{B S R} \quad \begin{aligned} & \mathrm{TC} 8 \mathrm{H}, \mathrm{M}, \mathrm{~S}, \mathrm{SH} \\ & \mathrm{P}-119,120,121 \end{aligned}$ |  |  | $\cdots$ | $\begin{array}{r} 270-\mathrm{D} 7 \\ 270-\mathrm{S} 7 \\ \hline \end{array}$ | $\begin{aligned} & 9.95 \\ & 2.50 \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{~B} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{TC} 8 \mathrm{G}, \mathrm{R}, \mathrm{RS} \\ & \mathrm{TC} 8 \mathrm{G}, \mathrm{R}, \mathrm{RS} \\ & \hline \end{aligned}$ |
| TC-12, Westinghouse 671V004H08 |  |  |  | $\begin{aligned} & \begin{array}{l} 271-\mathrm{D7} \\ 271-\mathrm{S} 7 \end{array} \\ & \hline \end{aligned}$ | $\begin{array}{r} 9.95 \\ 2.50 \\ \hline \end{array}$ | $\begin{array}{\|l} \hline A \\ B \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{TC}-12 \\ & \mathrm{TC}-12 \end{aligned}$ |
| SC5H, SX1H, SX2H, SX1M, SX5M, X1H, X1HE, X2H, X3H, Х4H, $\times 5 \mathrm{H}, \mathrm{x} 1 \mathrm{M}, ~ Х 3 \mathrm{M}, ~ х 5 \mathrm{M}$, etc. <br> One Piece, PLASTIC NEEDLE |  |  |  | $\begin{aligned} & 272-\text { DS } 77 \\ & 272-S 577 \\ & 272-\text { DD } 77 \end{aligned}$ | $\begin{aligned} & 10.95 \\ & 3.50 \\ & 19.95 \end{aligned}$ | $\begin{array}{\|l\|} \hline A \\ C \\ \mathrm{C} \\ \hline \end{array}$ | $\begin{aligned} & \hline \text { ST-9, ST-12, ST-23 (Single } \\ & \text { ST-8, ST-11 } \text { Sip }^{\text {ST-10 }} \text { ST } \end{aligned}$ |
| C-1, $C 5 \%$. Replaces 272 if RUBBER COUPLED DESIGN 1. WAITED. MANY Japanese cartridges. |  |  |  | $\begin{array}{r} 273-\text { DS } 77 \\ 273-S 577 \\ \hline \end{array}$ | $\begin{array}{r} 10.95 \\ 3.50 \\ \hline \end{array}$ | $\begin{array}{\|l\|} A \\ C \\ \hline \end{array}$ | $\begin{array}{ll} \text { ST-3, }{ }^{4},{ }^{5}, & \begin{array}{l} \text { ST-22 } \\ \text { Single Tip } \end{array} \\ \hline \text { ST-14, } \end{array}$ |
| SC7M, SC. ${ }^{4}$, SC1OH, SCl2H | Also ReplacesSingle Tip |  | ****** | $\begin{aligned} & 274 \text {-DS } 77 \\ & 274-\text { SS } 77 \\ & \hline \end{aligned}$ | $\begin{array}{r} 10.95 \\ 3.50 \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{C} \\ & \hline \end{aligned}$ | $\begin{array}{\|ll} \hline \text { ST-16, } 17,18, & \text { also } \\ \text { Single Tip ST-20, } \\ \hline \end{array}$ |
| $\begin{aligned} & \text { BROTHERR } \\ & \text { BR- } 26 \end{aligned}$ | traching force |  | $\star$ | 719-D7 | 9.95 | * |  |
| $\begin{array}{\|l\|l} 120-1 \\ 120-200 \end{array}$ |  | Gold Nickel Nickel |  | $\begin{aligned} & \begin{array}{l} \text { ri-D7 } \\ 7000-\mathrm{D1} \\ 700-53 \\ \hline \end{array} \\ & \hline \end{aligned}$ | $\begin{aligned} & 9.95 \\ & 9.95 \\ & 2.50 \\ & \hline \end{aligned}$ | $\begin{aligned} & A \\ & A \\ & A \\ & \hline \end{aligned}$ | BR-32 |
| Y-640, 642-A, G, L; ST-20 | 2 to 4 | White | Es | 685-D7 | 12.95 | * | ST-6D |
| BR-42 (Onkyo) | 13, to 3 | White | $\Leftrightarrow$ - | 680-D7 | 19.95 | * | DN-16 |
| BR-51X | $1{ }^{\frac{1}{2}}$ to 3 | Green | 0 | 673-DQ | 33.00 | * | 49-5x |
| CEC $\boldsymbol{C}_{\text {C-12 }}$ | 1 to 3 | Cream |  | 629-D7 | 19.95 | * | MC-12S |
| C-2 | 2 to 4 | White |  | 636-D7 | 19.95 | * | $\mathrm{C}-2 \quad .7$ mil Conical |
| MC-5,A, L, S | 2 to 4 | Yellow, Red | - 10 | 680-D7 | 19.95 | * | $\mathrm{MC}-5 \mathrm{~A}, \mathrm{AS}, 1.2 .7 \mathrm{mil}$ Con. |
| MC-6 | 2 to 4 | White |  | 621-D7 | 19.95 | * | MC-6 . 7 mil Conical |
| MC-7 | 2 to 4 | Gray, Blk. | , | 635-D7 | 19.95 | * | $\mathrm{MC}-7 \quad .7$ mil Conical |
| MC-8 | 2 to 4 | Rose-Gray | - | 624-D7 | 19.95 | * | $\mathrm{MC}-8 \quad .7$ mil Conic |
| MG-I, MG-II | 1 to 3 | Red | $1{ }^{4}$ | 721-D7 | 19.95 | * | $\mathrm{CN}-1,2.7$ mil Conical |
| $\mathrm{vC}-10$ | 1 to 3 | Gray **** | 3 | 697-D7 | 12.95 | * | $\mathrm{vC}-105.7 \mathrm{mil}$ Conical |
| MG-41; PC-1 | 1 to 3 | Black | S | 714-D7 | 19.95 | * | RS-1; MM-1 |
|  | 1.3 grams | White | ** $\triangle$ | 213-D6C | 19.95 | * | $\mathrm{N}-103.6$ mil Conical |
|  | 1 to $1 \frac{1}{2}$ | Clear | $54$ | 246-DE | 29.95 | * | ST-630 |
|  |  |  | 2-5mer | $\begin{aligned} & 290-\mathrm{D} 7 \\ & 290-\mathrm{S} 7 \end{aligned}$ | $\begin{aligned} & 9.95 \\ & 3.50 \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{A} \\ & \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { SC-1D } \\ & \text { SC-1 } \\ & \hline \end{aligned}$ |
| $\begin{aligned} & \text { CORAL } \\ & \text { MC-7 } \end{aligned}$ | 2 to 4 | Gray-B1k |  | 635-D7 | 19.95 | * | MC-7 . 7 mil Conical |
| CP-30D; CH-7000D | 2 to 4 | White |  | 636-D7 | 19.95 | * | V-30D; V-7000 . 7 Conical |
| DENON - JAPAN COLUMEIA |  |  | * rectes | 617-D7 | 9.95 | A | DSN-1, DJN-1, JN330 |
| CMS450; JC-16, PS1557; PU1557, 1623, <br> 1665, 1700, SRP-1100. JN78P |  | Nicke 1 |  | 690-D7 | 12.95 | * | DSN-16, DSN-21 |
| $\frac{\mathrm{PU}}{} 1340$  <br> $\mathrm{SM}-210$ (red) <br> red  |  | $\begin{aligned} & \text { White } \\ & \text { Gray } \end{aligned}$ |  | $\begin{array}{\|l\|l\|} \hline 621-\mathrm{D7} \\ 621-\mathrm{DE} \\ \hline \end{array}$ | $\begin{aligned} & 19.95 \\ & 24.95 \\ & \hline \end{aligned}$ | $\ddot{\#}$ | $\begin{aligned} & \text { DSN-10, 11, } 12, .7 \text { Conical } \\ & \frac{1}{13}, 18 ; 23 \\ & \hline \text { E.11ip } \end{aligned}$ |
|  |  | White-Gray |  | 635-D7 | 19.95 | * | DSN-15 |
| PU-1270, 1280; SPC-310-B, C, D |  | Yellow |  | 813-DS77 | 10.95 | A | DTS-2, JTS-2 |
| PU-1299, 1300 |  | Black |  | 790-DS73 | 10.95 | A | DTS-3, JTS-3 |
| PU-1357, 1490, 1663 (lever may vary) |  | Black | S -5 | 791-DS37 | 10.95 | A | DTS-5, JTS-5 |
| $\begin{array}{\|l\|} \hline J M-13 \\ G M-12 \\ \hline \end{array}$ | $\begin{aligned} & 1 \begin{array}{l} 1 \\ \text { to } \\ 1 \\ 1 \\ 1 \frac{1}{2} \\ 10 \\ \text { to } \end{array} \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { Gray } \\ & \text { Yel } \\ & \text { Green } \\ & \hline \end{aligned}$ |  | $\begin{aligned} & 629-\mathrm{DO} \\ & 629-\mathrm{D} 7 \\ & 699-\mathrm{DE} \\ & \hline \end{aligned}$ | $\begin{array}{r} 33.00 \\ 199 \\ 24.95 \\ \hline \end{array}$ | $\stackrel{*}{*}$ | $\begin{array}{ll} \begin{array}{ll} \text { DSN-30 } & \text { Shibata } \\ \text { DSN-28 } \end{array} \\ \hline \text { SNN-54 } & \\ \hline \end{array}$ |
| 3D-31M |  | White-Grn | 15 | 689-D7 | 12.95 | * | DSN-32 |
| GM-20; JM-11 | 2 to 4 | Red |  | 670-D7 | 19.95 | * | DSN-24 |
| JM-18 | 13/2 to $2 \frac{1}{2}$ | Yellow | 8 | 697-D7 | 12.95 | * | DSN-39 |
| JC-24 | 4 to 6 | Black | ** | 719-D7 | 9.95 | * | DSN-45 |
|  | 1 to 3 | Yellow | $\cdots$ 石 | 721-D7 | 19.95 | * | DSN-48 |

denon continued next page

SECTION II
NEEDLE IDENTITY BY CARTRIDGE NUMBER

\begin{tabular}{|c|c|c|c|c|c|c|c|}
\hline \multicolumn{2}{|r|}{cartridge maker \& number} \& \& illustration \& OUR N0. \& sucg. PRIGE \& 咎 \& manufacturer s medte number \\
\hline \multirow[t]{8}{*}{DENON continued} \& \begin{tabular}{l}
thacking force \\
\(1 \frac{1}{2}\) to \(2 \frac{1}{2}\)
\end{tabular} \& \[
\begin{array}{|l|}
\hline \text { girgunal } \\
\hline \text { sinds cotor } \\
\text { Orange } \\
\hline
\end{array}
\] \& Cny \& 243-D6 \& 20.00 \& * \& DSN-55 \\
\hline \& 1 to 3 \& Red, Blue \&  \& 736-D7 \& 19.95 \& * \& DSN-57, 66 \\
\hline \& 2 to 3 \& Black \& ** \& 214-D6 \& 24.95 \& * \& DSN-63 \\
\hline \& 1 to 3 \& Blue \& **** \& 740-D7 \& 19.95 \& * \& DSN-67 \\
\hline \& 1 to 3 \& Red \& , \& 119-D7 \& 19.95 \& * \& DSN-68 \\
\hline \& 2 to 5 \& Red \&  \& 793-D7 \& 12.95 \& * \& SJN-68 \\
\hline \& 1. to 3 \& Orange \& L \& 732-D7 \& 19.95 \& * \& DSN-69 \\
\hline \& 2 to 4 \& Gray \& ***** \& 211-D6C \& 19.95 \& * \& DSN-72; JM-78K \\
\hline \multicolumn{3}{|l|}{DUAL UNTED AUDO} \& \multicolumn{3}{|l|}{0300 and 301 types available.} \& Not \& listed due to inactivity. \\
\hline \multicolumn{3}{|l|}{\[
\begin{aligned}
\& \text { CDS }=3 / 23,320 / 23,320 / 36,420 / 4,420 / 43,420 / 45, \\
\& 62074,620 / 43,620 / 45 \\
\& \text { EV } 253,255
\end{aligned}
\]} \& \(\underline{\square}\) \& \[
\begin{aligned}
\& 302-\mathrm{D7} \\
\& 302-57 \\
\& 302-53
\end{aligned}
\] \& \[
\begin{aligned}
\& 9.95 \\
\& 2.50 \\
\& 2.50
\end{aligned}
\] \& A \& \[
\begin{aligned}
\& \text { DN-23, DN-43 } \\
\& \text { DN-4, DN-26 } \\
\& \text { DN-45 }
\end{aligned}
\] \\
\hline \multicolumn{3}{|l|}{DMS-900, DMS-900/91} \& 9 - \& 303-D7 \& 19.95 \& * \& DN-95, DN-96 \\
\hline \multicolumn{3}{|l|}{CDS-630/5, CDS-630/54} \& \[
100
\] \& \[
\begin{aligned}
\& 304-\text { DS77 } \\
\& 304 \text {-SS73 }
\end{aligned}
\] \& \[
\begin{array}{|r|}
\hline 10.95 \\
3.50 \\
\hline
\end{array}
\] \& \({ }_{\text {A }}^{\text {A }}\) \& \[
\begin{array}{|l|}
\hline \text { DN-5, } \mathrm{DN}-52 \\
\mathrm{DN}-54 \\
\hline
\end{array}
\] \\
\hline \multicolumn{3}{|l|}{\[
\begin{array}{r}
\text { CDS }-640 / 6,642 / 6,650 / 6,651 / 6,700,750 \\
\text { (DUAL SP-1, DN-301 uses B \& } 0 \text { 263-D7) } \\
\hline
\end{array}
\]} \&  \& \[
\begin{aligned}
\& 305-\text { DS } 77 \\
\& 305-\text { SS } 77 \\
\& \hline
\end{aligned}
\] \& \[
\begin{array}{r}
10.95 \\
4.00 \\
\hline
\end{array}
\] \& A \& \[
\begin{array}{|l|l}
\hline \text { DN }-6 \\
D N-65
\end{array}
\] \\
\hline \& 1 to 3 \& Black \& *** \({ }^{8}\) \& 119-D7 \& 19.95 \& * \& DN-105 \\
\hline SP-1 \& \& Red \& - \({ }^{-1}\) \& 263-D7 \& 19.95 \& * \& DN-301, 302. . 7 mil \\
\hline CDS-200 \& \[
\begin{array}{|l|ll}
\hline 1 \& t o \& 3 \\
1 \& \text { to } \& 3 \\
\hline
\end{array}
\] \& \[
\begin{aligned}
\& \text { Red (orig) } \\
\& \text { Cream }
\end{aligned}
\] \& \(1 \times\) \& \[
\begin{aligned}
\& 629-D 7 \\
\& 629-\mathrm{DE}
\end{aligned}
\] \& \[
\begin{aligned}
\& 19.95 \\
\& 24.95 \\
\& \hline
\end{aligned}
\] \& DN \& -201- LOOKS DIFFERENT, but \\
\hline \[
\begin{aligned}
\& \text { WLM,TKS65E } \\
\& \text { ULM,TKSTOE, } 52 \mathrm{E}, 55 \mathrm{E} \\
\& \text { ULMMTK6E TKS6E } \\
\& \text { UL, TK60E }
\end{aligned}
\] \& \[
\begin{aligned}
\& 1.2 \text { to } 1.7 \\
\& 1.3 \text { to } 2 \\
\& 1.2 \text { to } 1.7 \\
\& 1 \text { to } 1.3 \\
\& \hline
\end{aligned}
\] \& \[
\begin{aligned}
\& \text { Black } \\
\& \text { Black } \\
\& \text { Black } \\
\& \text { Black }
\end{aligned}
\] \&  \& \[
\begin{aligned}
\& \text { 542-DEG } \\
\& \text { S42-DEV } \\
\& 542-D E X \\
\& 542-D E Z \\
\& \hline
\end{aligned}
\] \& \begin{tabular}{|l}
36.00 \\
42.00 \\
45.00 \\
79.00 \\
\hline 19.95
\end{tabular} \& \(*\)
\(\#\)
\(\#\)
\(*\)
\(\#\) \&  \\
\hline \multirow[t]{7}{*}{DMS-235, DMS-239} \& 2 to 3 \& White \& \(\cdots 0\) \& 211-D6C \& 19.95 \& * \& DN235,239 .6 mil Conical \\
\hline \& 3 to 5 \& Blue \& 17 \& 759-D7C \& 19.95 \& * \& DN-305 \\
\hline \& 11/2 to 3 \& \[
\begin{aligned}
\& \text { Gray,Red, } \\
\& \text { Yellow }
\end{aligned}
\]
Yellow \& \[
3
\] \& 760-DEJ \& 31.95 \& * \& DN-320,321,323,325,365 \\
\hline \& \[
\begin{aligned}
\& 3 / 4 \text { to } 1 \frac{1}{2} \\
\& 3 / 4 \text { to } 1 \frac{2}{2}
\end{aligned}
\] \& \[
\begin{aligned}
\& \text { Gray,Red, } \\
\& \text { Yellow } \\
\& \hline
\end{aligned}
\] \&  \& 761-DED \& 41.95 \& * \& \[
\begin{array}{|l|l|}
\hline \mathrm{DN}-330,340 \\
\mathrm{DN}-345
\end{array}
\] \\
\hline \& 1 to \(1 \frac{1}{2}\) \& B1k, Red \& \% \& 540-DEL \& 70.00 \& * \& DN-350, 353, 363 \\
\hline \& \(3 / 4\) to \(1 \frac{1}{2}\) \& Black \& \& 764-DMR \& 79.95 \& * \& DN-352 \\
\hline \& \[
\begin{aligned}
\& \frac{13}{3} \text { to }{ }^{3} \\
\& 34_{4} \text { to } \frac{13}{2}
\end{aligned}
\] \& \[
\begin{aligned}
\& \text { Gray,Yel } \\
\& \text { Black }
\end{aligned}
\] \&  \& \[
\begin{aligned}
\& \text { 767-DE } \\
\& 767-\mathrm{DHE}
\end{aligned}
\] \& \[
\begin{aligned}
\& 39.95 \\
\& 57.95 \\
\& \hline
\end{aligned}
\] \& * \& \[
\begin{aligned}
\& \hline \mathrm{DN}-360,362 \\
\& \mathrm{DN}-370
\end{aligned}
\] \\
\hline MMP-450 \& \(1 \frac{1}{4}\) grams \& Black \& ****** \& 213-D6C \& 19.95 \& * \& DN-450 \\
\hline \multicolumn{3}{|l|}{} \& 6008 \& 324-D3 \& 20.00 \& * \& Use with "long-play" type Edison Cylinders only. \\
\hline \multicolumn{3}{|l|}{\begin{tabular}{l}
Miratwin MST-2A, MST-2D \\
MST-1S, 1D, 1DN, 1SN
\end{tabular}} \& [ \& \[
\begin{aligned}
\& 325-\mathrm{Dl} \\
\& 325-11 \\
\& 325-\mathrm{s} 3 \\
\& \hline
\end{aligned}
\] \& \[
\begin{aligned}
\& 9.95 \\
\& 3.50 \\
\& 3.50 \\
\& \hline
\end{aligned}
\] \& A
C
C

A \& $$
\begin{aligned}
& \mathrm{DM}-2 \\
& \mathrm{SM}-2 \\
& \mathrm{SN}-2 \\
& \hline
\end{aligned}
$$ <br>

\hline \multicolumn{3}{|l|}{KST-100, Perpetuum-Ebner PE-180} \&  \& $$
\begin{array}{|l}
326-\text { DS } 73 \\
326-\text { SS } 73
\end{array}
$$ \& \[

$$
\begin{array}{r}
10.95 \\
3.50 \\
\hline
\end{array}
$$

\] \& A \& \[

$$
\begin{array}{|ll}
\hline \text { DNM-100, } & \text { PE-180 } \\
\text { SNM-100, } & \text { PE-180 } \\
\hline
\end{array}
$$
\] <br>

\hline \multicolumn{3}{|l|}{| KST-102, PE-184 |
| :--- |
| Diamond, and .7 mil tip on SS73, FORWARD |} \& \multirow[t]{2}{*}{\[

)^{2}

\]} \& \[

$$
\begin{array}{|l}
\hline 327-\mathrm{DS} 77 \\
327-\mathrm{SS} 73 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
10.95 \\
3.50 \\
\hline
\end{array}
$$

\] \& A \& \[

$$
\begin{array}{|l|}
\hline \text { DNM-102, } \\
\text { SE-184 } \\
\text { SNM-102. PE-184 } \\
\hline
\end{array}
$$
\] <br>

\hline \multicolumn{3}{|l|}{$$
\begin{array}{|l}
\hline \text { KST-104, PE-182 } \\
\text { Diamond, and } .7 \text { mil tip on SS73 AT BACK } \\
\hline
\end{array}
$$} \& \& \[

$$
\begin{array}{r}
328-\text { DS } 77 \\
328-\text { SS } 73 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
10.95 \\
3.50 \\
\hline
\end{array}
$$

\] \& A \& \[

$$
\begin{array}{|l|}
\hline \text { DNM-104, } \\
\text { SNE-182 } \\
\text { SNM-104, } \\
\hline
\end{array}
$$
\] <br>

\hline \multicolumn{3}{|l|}{| KST-103-S, -D, PE-183 |
| :--- |
| Single Tip Needle |} \&  \& \[

$$
\begin{array}{r}
329-D 7 \\
329-57 \\
\hline
\end{array}
$$

\] \& \[

$$
\begin{aligned}
& 9.95 \\
& 3.50 \\
& \hline
\end{aligned}
$$

\] \& ${ }_{\text {c }}^{\text {A }}$ \& \[

$$
\begin{aligned}
& \text { DM-103 } \\
& S M-103, S M-105 \\
& \hline
\end{aligned}
$$
\] <br>

\hline \multicolumn{3}{|l|}{| KST-106, PE-186 |
| :--- |
| Also replaces single tip, T-shape SM-107 |} \& $\cdots$ \& \[

$$
\begin{aligned}
& 330-\text { DS } 77 \\
& 330-S S 77
\end{aligned}
$$

\] \& \[

$$
\begin{array}{r}
10.95 \\
3.50 \\
\hline
\end{array}
$$

\] \& A \& \[

$$
\begin{aligned}
& \text { DNM-106, PE-186 } \\
& \text { SNM-106; SM-107 } \\
& \hline
\end{aligned}
$$
\] <br>

\hline \multicolumn{3}{|l|}{STS-200, 210, 220, 300, 310, 322 (4-6gm T.F.)} \& 9, \& 331-D7 \& 19.95 \& * \& DM-210, PE-8000 <br>
\hline \multicolumn{3}{|l|}{KST-8, 9, 11, 21} \& cosos \& 561-DS77 \& 10.95 \& A \& SM-11 <br>
\hline \multicolumn{3}{|l|}{STS-244, 344, 444. Sears 8827} \& \& 332-D7 \& 19.95 \& * \& D-244-17, Sears 8827 <br>
\hline
\end{tabular}

## NEEDLE IDENTITY BY CARTRIDGE NUMBER <br> NEEDLE IDENTITY BY CAMTRIDGE NUMBER





## NEEDLE IDENTITY BY GARTRIDGE NUMBER



SECTION II
NEEDLE IDENTITY BY CARTRIDGE NUMBER

## SECTION II NEEDLE BY CARTRIDGE

| cartrider maker \& number |  |  | illustration | OUR no. | suce | 苍 | manufacturer's needle number |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $\begin{array}{r} 535-\text { DS } 73 \\ 535-\text { SS } 73 \\ \hline \end{array}$ | 10.95 3.50 |  | $\begin{gathered} J-73 \times S D \\ J=73 X \end{gathered}$ |
| KENWOOD-TRIO |  |  |  |  |  |  | N-11, N-48 |
| T-14-23 | 2 to 4 | Gray | $\stackrel{ }{+}$ | 665-D7 | 19.95 | * | $\mathrm{N}-23 \quad .7$ mil Conical |
| v -09 | ( | $\begin{array}{\|l} \text { White } \\ \text { White } \end{array}$ |  | $\begin{aligned} & \hline 621-D 7 \\ & 621-D E \\ & \hline \end{aligned}$ | $\begin{array}{\|l\|} \hline 19.95 \\ 24.95 \\ \hline \end{array}$ | $$ | $\mathrm{N} 6-\mathrm{AT}$ .7 mil Conical <br> $.2 \times .7$ E:1lip.  |
| $\mathrm{v}-32, \mathrm{v}-33$ <br> $\mathrm{v}-40, \mathrm{v}-42$ <br> V | $\left[\begin{array}{lll} 1 & \text { to } & 3 \\ 1 & \text { to } & 3 \\ 1 & \text { to } & 2 \\ \hline \end{array}\right.$ | $\begin{array}{\|l\|} \hline \text { Cream } \\ \text { Creen } \\ \text { Blk, Blue } \\ \hline \end{array}$ |  | $\begin{aligned} & \begin{array}{l} 69-D 7 \\ 629-D E \\ 629-D Q \end{array} \end{aligned}$ | $\begin{array}{\|l\|l} \hline 19.95 \\ 24.95 \\ 33.00 \\ \hline \end{array}$ | $F_{*}$ | $\begin{array}{ll} \mathrm{N}-32, & \mathrm{~N}-33, \\ \mathrm{~N}-40,41 \\ \mathrm{~N}-40, & \mathrm{~N}-42 \\ \text { Shibata } & \text { Shlip. } \\ \hline \end{array}$ |
| V-30, 34, 36; T14-25, 30 | 2 to 4 | White, ${ }^{\text {Blue,Blk. }}$ | T0 | 633-D7 | 19.95 | * | $\underline{\mathrm{N}-25,30,34,36.7 ~ C o n i c a l ~}$ |
| v-35 | 2 to 4 | Brwn,ornge |  | 696-D7 | 19.95 | * | N-35 |
| v-38 | 2 to 3 | Purple | , | 670-D7 | 19.95 | * | N-38 |
| V-39; Mk II | $1 \frac{1}{2}$ to 3 | Orng, Blk | T | 676-D7 | 19.95 | * | N-39,39/II |
| v-39 Mark III | 1 to 3 | Black |  | 730-D7 | 19.95 | * | N-39/ill |
| $\mathrm{v}-43,-44$ | 1 to 3 | Tan, Blue | 人) | 667-D7 | 19.95 | * | N-43, 44 |
| V-45 | 1 to 2 | Black |  | 707-DE | 24.95 | * | N-45 |
| V-47 | 2 grams | Blue |  | 716-D7 | 19.95 | * | N-47 |
| V-49 | $1 \frac{1}{2}$ to $2 \frac{1}{2}$ | Orange | 5 | 712-D7 | 19.95 | * | N-49 |
| V-50 | 13 $\frac{1}{2}$ to $2 \frac{1}{2}$ | Black | , | 797-D7 | 19.95 | * | N-50 |
| V -51 | 1 to 3 | Dk.Red | - | 740-D7 | 19.95 | * | N-51/III |
| v-52 | 2 to 4 | Blue | - | 710-D7 | 19.95 | * | N-52 |
|  | 1.5 grams | Black | $\square$ | 743-17 | 27.95 | * | N-56, 56 B |
| V-61,66 | 1 to 3 | Blue, Red | R | 732-D7 | 19.95 | * | N-61,66 |
| V-63 | $1 \frac{1}{4}$ grams | Blue | ** | 213-D6C | 19.95 | * | N-63 |
| V-64 | 1 to 3 | Black | $6]$ | 799-D7 | 27.95 | * | N-64,64C |
| v-65 | 1 to 3 | Green |  | 119-D7 | 19.95 | * | N-65 |
| V-67 | 1 to 3 | Blue***** | ? | 819-D7 | 19.95 | * | N-67 |
| v-68 | 1 to 3 | Blue | - | 794-D7 | 19.95 | * | N-68 |
| v-69 | 1 to 3 | Red ***** | 6 | 901-D7 | 19.95 | * | N-69 |
| $\mathrm{v}-70$ | 1 to 2 | Gry/Ivry |  | 215-DE | 24.95 | * | N-70 |
| v-71 (Photocell Cart.) | 1 to 2 | Black NEN | 돌 | 903-D7 | 27.95 | * | N-71 |
|  |  |  | $1$ | $\begin{array}{r} 556-\text { DS77 } \\ 556-\text { SS13 } \\ \hline \end{array}$ | $\begin{array}{r} 10.95 \\ 3.50 \end{array}$ | ${ }_{\text {A }}^{\text {A }}$ | $\begin{aligned} & 560138,560153 \\ & 560157,560167 \\ & \hline \end{aligned}$ |
| $\begin{array}{\|l} 560337,338,345,346,347,350,35, \text { Astatic } 163 \mathrm{D}, \\ 1650 \\ 1650,1970,669, \\ 5095 ; 5097,5098,5149,5198,199,275,282,284, \\ \hline \end{array}$ |  |  |  | $\begin{aligned} & 557-\text { DS77 } \\ & \text { S57-SS77 } \end{aligned}$ | $\begin{array}{r} 10.95 \\ 3.50 \end{array}$ | ${ }_{\text {A }}^{\text {A }}$ | 560344, Ast. N2-SD; EV2644 |
| 560346,560347 , Astatic 197D; EV 5064D, 5078D, 5099D, 5543D, 5544D, 5808D |  |  |  | 558-D7 | 9.95 | A | 560336, FV 2647D Single Tip 557 |
| 560348, 560353, 560360, 560365 |  |  |  | 369-DS77 | 10.95 | A | 560355-2 |
| $\begin{aligned} & 560348,560353 \mathrm{FV}, 5064,5078,5096, \\ & 5336,5543,5544,5808 \end{aligned}$ |  |  | का | 376-D7 | 9.95 | A | 560352, 560356; FV 2640D Single Tip 369 |
| 560369-1; Audio Technica; EV 6012D, 560398 |  |  |  | 612-D7 | 19.95 | * | 560371-2; fV 26711) |
| 560356-1, 7044250634 |  |  |  | 629-D7 | 14.95 | * | 560349-2, 7044250635 |
| 560397-1; JVC 4MD35x; AT-12S | traching force | situsidmal |  | 629-DQ | 33.00 | * | 560372-2 |
| 560369-10, 560432 | 1 to 3 | Red |  | 697-D7 | 12.95 | * | 560424 (Red), 560433 |
| 560418 | 1 to 3 | Yellow |  | 707-DE | 24.95 | * | 560421 |
| 560429, 25690396 | 2 to 4 | Gray |  | 710-D7 | 19.95 | * | 560430, 25120026 |
| 560434 | 3 to 5 | White |  | 711-D7 | 12.95 | * | 560435 |

SECTION II
NEEDLE IDENTITY BY GARTRIDGE NUMBER




## SECTION I

NEEDLE IDENTITY BY CARTRIDGE NUMBER



## NEEDLE IDENTITY BY GARTRIDGE NUMBER

cartridee maker \& number
illustration

OUR no. | SUGGG |
| :--- | :--- | :--- |
| PRICE |

manufacturer's needle number

for many of the styli listed here, there is a lower-cost alternative. see thegenerioctifis listing on page 14.

| V-15/AME-3 Same as 604, <br> $V-15 / \mathrm{ATE-3}$ with brush. <br> V-15/AM-3 Use $604-\mathrm{D} 3$ <br> V-15/AT-3 for 78 rpm <br> V-15/AC-3  |  | Now All GREY, <br> With <br> Brush |  | $\begin{aligned} & 605-\mathrm{DEM} \\ & 605-\mathrm{DET} \\ & 605-\mathrm{D} 7 \mathrm{M} \\ & 605-\mathrm{D} 7 \mathrm{~T} \\ & 605-\mathrm{D} 7 \mathrm{C} \end{aligned}$ | $\begin{aligned} & 29.95 \\ & 23.65 \\ & 16.95 \\ & 15.95 \\ & 14.95 \end{aligned}$ | $\begin{aligned} & * \\ & * \\ & * \\ & * \\ & * \\ & \hline \end{aligned}$ | D-1500-AME3; D AME 3, D6EE <br> D-1500-ATE3; DATE 3,4 <br> D-1507-AM3; D AM 3 <br> D-150-AT3; D AT 3 <br> D-1507-AC3; D AC 3 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| XV-15/1200E DCF 1200 | $\frac{1}{2}$ to $1 \frac{1}{4}$ | Black | Also replaces D1800E | 606-DEX | 35.00 | * | D 1200 in Gold |
| XV-15/750E DCF 750 | $\frac{1}{2}$ to $1 \frac{1}{2}$ | Black |  | 606-DEG | 33.50 | * | D 750 in Gold Ellipse |
| XV15/625E DCF 625 | $3 / 4$ to $1 \frac{1}{2}$ | Black |  | 606-DEL | 32.95 | * | D625, Gold, 3 x . 7 Ellip. |
| XV-15/400E DCF 400 | 1 to 2 gr . | Black |  | 606-DEM | 29.95 | * | D 400 in Gold Ellipse |
| XV-15/200E DCF 200 | 2 to 4 gr . | Black |  | 606-DET | 28.50 | * | D 200 in Silver Ellipse |
| XV-15/140E DCF 140;625DJ | 3 to 5 gr . | Black |  | 606-DEC | 26.95 | * | D 140 in Red Ellipse; DJ |
| XV-15/350 DCF 350 | 1 to 3 gr . | Black |  | 606-D7M | 26.95 | * | D 350 with Gold Dot |
| XV-15/150 DCF 150 | 2 to 4 gr . | Black |  | 606-D7T | 22.95 | * | D 150 with Silver Dot |
| XV-15/100 DCF 100 | 3 to 7 gr . | Black | * | 606-D7C | 19.95 | * | D 100 with Red Dot |
| For 78 RPM in any XV-15 Cartridge |  | BTack |  | 606-D3 | 27.95 | * | 4527 with Blue Dot |
| $V-15$ Micro IV-AME | 1 to 2 gr . | Ivory |  | 607-DEM | 29.95 |  | D IV AME |
| V-15 Micro IV-ATE | $\frac{2}{2}$ to 4 gr . | I vory |  | 607-DET | 25.65 | * | D IV ATE in Gold |
| $V-15$ Micro IV-ACE | 3 to 5 gr . | I vory |  | 607-DEC | 21.00 | * | D IV ACE in Gold |
| $V-15$ $V-15$ | 1 to 3 gr . | I vory |  | 607-D7M | 24.95 | * | D IV AM in Gold |
| V-15 Micro IV-AT V -15 Micro IV-AC | 2 to <br> 3 5 gr <br> 3 gr | I vory | ? | 607-D7T | 21.00 | * | D IV AT in Gold |
| For 78 RPM with Micro IV, Use 606-D3 Stylus |  |  |  | 607-D7C | 17.95 | * | D IV AC in Gold |
| ```XSV/5000,5000U XSV/4000; XSP/4004 XUV/4500Q Quad. UV15/3000Q, 2400 Q Quad. XSV/3000; XSP/3003; XV1800S``` | $\begin{aligned} & \frac{1}{2} \text { to } 1 \frac{1}{2} \\ & .8 \text { to } \\ & 1.2 \\ & 1 \frac{1}{2} \text { too } \\ & 1 \frac{1}{2} \text { to } \\ & 3 / 4 \text { to } \\ & 3 \frac{1}{2} \\ & \hline \end{aligned}$ | Ivory |  | 608-DEZ |  |  |  |
|  |  | Ivory |  | 608-DEX | 56.00 | * | D4000 Stereohedrón |
|  |  | Blk-Blk |  | 608-DQX | 64.95 | * |  |
|  |  | Blk-Bronz |  | 608-DEQ | 54.95 | * |  |
|  |  | Blk-Blk |  | $608-\mathrm{DEV}$ | 54.95 | * | D3000; D1800S; Stereohedron |
| $\begin{aligned} & \text { TL-4Super } \\ & \text { TL-3S } \\ & \text { TL-2E } \\ & \text { TLL-1 } 1 \mathrm{E} \\ & \text { TLC } \end{aligned}$ | $3 / 4$ to $1 \frac{1}{4}$ | White |  | 609-DEZ | 49.50 | * | DTL-4S Stereohedron |
|  | $3 / 4$ to $1 \frac{1}{2}$ | White |  | 609-DEX | 44.50 | * | DTL-3S Stereohedron |
|  | $3 / 4$ to $1 \frac{1}{2}$ | White |  | 609-DEL | 32.50 | * | DTL-2E . 3 X .7 Elliptical |
|  | $3 / 4$ to $1 \frac{1}{2}$ | White |  | 609-DE | 26.50 | * | DTL-1E . 4 X .7 Elliptical |
|  | 1 to $1 \frac{1}{2}$ | White |  | 609-D7C | 20.00 | * | DLC . 7 mil Conical |

IMPORTS: DENON-JAPAN COLUMEIA EXCELL HITACHI
JVC KENWOOD-TRIO MGA-MITSUBISHI PANASONIC PIEZO
PIONEER SANSUI SANYO SHARP SONY TOSHIEA YAMAHA


SECTION II

## NEEDLE IDENTITY BY GARTRIDGE NUMBER



IMPORTS CONTINUED NEXT PAGE



## NEEDLE IDENTITY BY CARTRIDGE NUMBER



NEEDLE IDENTITY BY GARTRIDGE NUMBER




NEEDLE IDENTITY BY GARTRIDGE NUMBER


## NEEDLE IDENTITY BY CARTRIDGE NUMBER

| Cartridee maker \& number |  |  |  |  | ILlustration | OUR No. | sucg. PRICE |  | manufacturer'S meedte number |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SONOTONE continued <br> 26 T , 27 T , with turnunder needle <br> 100 T with single tip, T shaped needle |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | $\left\lvert\, \begin{aligned} & 811-\mathrm{DS73} \\ & 811-5573 \end{aligned}\right.$ | $\begin{array}{r} 10.95 \\ 3.50 \end{array}$ | A | N26T, N27T-SD; N100T-D <br> N26T, etc. |
| 25T, 28T, 29T, 32T, 39T |  |  |  |  | (1) | $\begin{array}{\|l\|l\|} \hline 812-\mathrm{DS} 73 \\ 812-S S 73 \end{array}$ | $\begin{array}{r} 10.95 \\ 3.50 \end{array}$ | $\begin{aligned} & A \\ & C \\ & C \end{aligned}$ | N25T-SD, N28T-SD <br> N25T, N28T |
| 51T, 52T, 54T, 60T, 65T, 66T. Also replaces most BSR needies and MANY Japanese types. |  |  |  |  | $x_{* *}^{* \pi}$ | $\begin{aligned} & 813-D S 77 \\ & 813-S S 77 \end{aligned}$ | $\begin{array}{r} 10.95 \\ 3.50 \end{array}$ | $\begin{aligned} & A \\ & C \end{aligned}$ | MS, MSD, MS77, and many BSR and Japanese types |
| 2539,3509,3559 |  |  |  |  |  | $\begin{array}{\|l} \hline 494-\text { DS } 77 \\ 494-S S 77 \\ \hline \end{array}$ | $\begin{array}{r} 10.95 \\ 3.50 \\ \hline \end{array}$ | ${ }^{\text {A }}$ | $\begin{aligned} & \mathrm{AD} \\ & \mathrm{AS} \end{aligned}$ |
| SONY |  | Thacring fonce |  | $\begin{gathered} \text { ORIGINAL } \\ \text { STYIUS COLOR } \end{gathered}$ |  |  |  |  |  |
| VL-5, VL-7E |  | 13, to $2 \frac{1}{2}$ |  | Blue, Yel |  | 209-D6T | 19.95 | * | ND-5, ND-7E |
| XL-15, XL-25E |  | $1{ }^{\frac{1}{2}}$ to $2 \frac{1}{2}$ |  | Red | L 5 | 720-D7 | 24.95 | * | ND-15G, ND-25E |
| VX-12P, 13P |  |  |  | Gold-Blue | ** | 617-D7 | 9.95 | A | ND, NS-116P |
|  |  |  |  | Nickel | B | 626-D7 | 19.95 | * | ND-107, 111, 112 |
| VC-7P, VC-8E, etc. |  | 2 to 4 |  | White |  | 621-D7 $621-$ DE | 19.95 24.95 | * | ND-113P . 7 mil Conical |
| VM-10P, 116; VM -15P |  | 2 to 4 |  | Red, Orng |  | 631-D7 | 19.95 | * | ND-114P,115G,117P Conical |
| VX-17P, 18P |  |  |  | ${ }_{\text {Red }}^{\text {Red }}$ Creen | - | 625-D7 | 12.95 | * | ND-119P, 120P |
|  |  | 2 to 4 |  | $\begin{aligned} & \text { Green } \\ & \hline \text { Red, Yell. } \\ & \text { Blue, Blk. } \end{aligned}$ | * 5 | 670-D7 | 19.95 | * | $\mathrm{ND}-124,125,126,131,132$ |
| vx-23P |  |  |  | Red | ** ${ }^{\text {a }}$ | 613-D7 | 12.95 | * | ND-127D, P |
| Vx-24P |  |  |  | Black | $\square$ | 683-D7 | 9.95 | * | NS, ND-128P |
| $\begin{array}{\|l\|} \hline \text { VM-25G } \\ \text { CD-4 } \\ \hline \end{array}$ |  |  |  | $\begin{array}{\|l} \hline \text { Green } \\ \text { White } \end{array}$ | - | $\begin{array}{\|c} \begin{array}{c} 69-\mathrm{D7} \\ 629-\mathrm{DD} \\ \hline \end{array} \\ \hline \end{array}$ | $\begin{array}{\|l} 19.95 \\ 33.00 \\ \hline \end{array}$ | * | $\begin{array}{\|l\|l\|} \hline \text { ND-129G } & \mathbf{.}^{7} \text { mil Conical } \\ \text { ND-130E, } & \text { Shibata } \end{array}$ |
| VM-27G |  | 1 to 3 |  | Orange | $\cdots$ | 668-D7 | 19.95 | * | ND-1356 |
| VL-30G, 32 G |  | $1 \frac{1}{2}$ to $2 \frac{1}{2}$ |  | Red, Green |  | 675-D7 | 19.95 | * | ND-133G, 134G |
| VL-33G, 36 G |  | 1 to 3 |  | Orange |  | 697-D7 | 12.95 | * | ND-136G . 7 mil Conical |
| VL-376 |  | 1 to 3 |  | Yellow |  | 709-D7 | 19.95 | * | ND-137G |
| VL-38GA |  | 2 to 4 |  | Orange | ** | 710-D7 | 19.95 | * | ND-138G,1476 |
| VL-42G |  | $1 \frac{1}{2}$ to $2 \frac{1}{2}$ |  | Yellow |  | 211-D6T | 19.95 | * | ND-142G |
| VL.-43G |  | 1 to $1 \frac{1}{2}$ |  | Blue | J | 747-D7 | 24.95 | * | ND-143G |
| VL-446 |  | 1 to 2 |  | Purple |  | 210-DE | 24.95 | * | ND-139G, 1446 |
| vL-45G |  | $1 \frac{1}{4} \mathrm{gram}$ |  | Gray | ***** | 213-D6C | 19.95 | * | ND-145G |
| v1.-486 |  | 1 to $2 \frac{1}{2}$ |  | Blue | 4 | 119-D7 | 19.95 | * | ND-148G |
| vx-526 |  | 2 to 5 |  | Red | *** | 793-D7 | 12.95 | * | ND-152P |
| VI, -53G |  | 1 to 3 |  | Black | $x^{3}$ | 214-D6 | 24.95 | * | ND-153G |
| VL-55G |  | 2 to 4 |  | Gray | **** | 211-D6C | 19.95 | * | ND-155G |
| vx-60G |  | 2 to 5 |  | Red | ****** | 711-D7 | 12.95 | * | ND-60G |
| vx-70 (Single-tip) |  | 3 to 5 |  | White | *** | 274-DS77 | 10.95 | A | ND-70G |
| VL-100 |  | 2 to 4 |  | Green |  | 684-D7 | 19.95 | * | ND-1006 |
| VX-108; VM-8GS |  | 172 ${ }^{\frac{1}{2}}$ |  | Red |  | 695-D7 | 19.95 | * | ND-108G |
| C1-ST4 |  |  |  | Lt. Blue | ** | 813-DS77 | 10.95 | A | ND-301P |
| STANTON | thacrine rozes |  | ORICIMAL <br> STVLIS COLOR |  | $\begin{aligned} & \text { All are produc } \\ & \text { Stanton Magnet } \end{aligned}$ |  |  |  | Stanton <br> Number  <br> Configuration <br> Distor  |
| $\begin{aligned} & \text { 500 BROADCAST } \\ & \text { SERIES } \end{aligned}$ | $\begin{aligned} & 1 \text { to } 2 \text { grams } \\ & 2 \text { to } 5 \text { grams } \\ & 3 \text { too } 7 \text { grams } \\ & 3 \text { to } 7 \text { grams } \\ & \hline \end{aligned}$ |  | $\begin{aligned} & \text { White, Gold } \\ & \text { White, } \\ & \text { Red } \\ & \text { White } \\ & \text { White, Aqua } \\ & \text { Wlue } \end{aligned}$ |  |  | $\begin{aligned} & 820-\mathrm{DEE} \\ & 820-\mathrm{DE} \\ & 820-\mathrm{D} 7 \mathrm{AL} \\ & 820-\mathrm{D} 3 \end{aligned}$ | $\begin{aligned} & 27.50 \\ & 230 \\ & 15.50 \\ & 2.50 \\ & 24.50 \end{aligned}$ | * |  |
| 600 BROADCAST STANDARD <br> H. P. SERIES | $\begin{aligned} & 1 \text { to }^{2} \text { grams } \\ & 1 \frac{12}{} \text { to } 3 \text { gr. } \\ & 2 \text { to } 4 \text { grams } \\ & 3 \text { to } 7 \text { grams } \\ & \hline \end{aligned}$ |  | Black, 600 <br> Blakk, 600 <br> Black, 600 <br> Black, 600 |  |  | $\begin{aligned} & 821-\mathrm{DEE} \\ & 821-\mathrm{DE} \\ & 821-\mathrm{DF} \\ & 821-\mathrm{D} 3 \\ & \hline \end{aligned}$ | $\begin{array}{\|l\|} \hline 32.50 \\ 29.50 \\ 24.50 \\ 21.50 \\ \hline \end{array}$ | $\stackrel{\#}{*}$ |  |
| 681 calibration STANDARD SERIES WITH BRUSH |  |  | Black, EEEBlack, Silv.Black, Silv.Black, Blue |  |  | 822 -DEEE $822-\mathrm{DEE}$ $822-\mathrm{D} 7 \mathrm{~A}$ $822-D 3$ | $\begin{aligned} & 49.50 \\ & 44.50 \\ & 36.50 \\ & 36.50 \\ & \hline \end{aligned}$ | \% |  |
| 680 SERIES <br> STEREO STANDARD | $\begin{aligned} & 2 \text { to } 5 \mathrm{gr} \\ & 3 / 4 \text { to } \\ & 2 \text { to } 5 \mathrm{gr} \end{aligned}$ |  | With BrushMinus Brush |  |  | $\begin{aligned} & 824-\text { DSL } \\ & 8244 \mathrm{DE} \\ & 824-\mathrm{DEL} \end{aligned}$ | $\begin{aligned} & 49.50 \\ & 36.50 \\ & 34.50 \end{aligned}$ | $\ddot{*}+$ |  |
| 881S PROFESSIONAL CALIBRATION STANDARD | $3 / 4$ to $1 \frac{1}{2}$ |  | White |  |  | 825-DEV | 84.50 | * | D80,81,81S Stereohedron |
| L747S L737S L737E L727E L720EE | $3 / 4$ $3 / 4$ $3 / 4$ $3 / 4$ to $3 / 4$ to |  | $\begin{aligned} & \text { Clear } \\ & \text { Clear } \\ & \text { Clear } \\ & \text { Clear } \\ & \text { Black } \end{aligned}$ |  | $1$ | $\begin{aligned} & \hline 826-\mathrm{DEZ} \\ & 826-\mathrm{DEX} \\ & 826-\mathrm{DEV} \\ & 826-\mathrm{DEL} \\ & 826-\mathrm{DE} \\ & \hline \end{aligned}$ | $\begin{aligned} & 49.50 \\ & 42.50 \\ & 36.50 \\ & 29.50 \\ & 22.50 \\ & \hline \end{aligned}$ |  | D74S Stereohedron D73S Stereohedron D73E .3X.7 E11iptical D72E. $3 \times .7$ Elliptical D71EE .4x.7 Elliptical |
| TECHNICS - SEE PANASONIC |  |  |  |  |  |  |  |  |  |

## NEEDLE IDENTITY BY GARTRIDGE NUMBER



TATAD NOTE: TETRAD needles all have a uniform back end, and all will fit into any tetrad cartridge output PICTURES below. Match position of the rubber coupler, and overal length (from tip to back end as closely as possible To eliminate excessive inventory, we combinetwo original numbers is only a few thousandths of an inch, and does not appreciably affect performance.
Leverarm lengths are indicated by PREFIX Letters: $0=$ No turnover (single tip). $S=$ Short; $M=M e d i u m ; L=L o n g$. Use $L$ for longer Leverarm lengths are indicated by PREFIX Letters: $0=$ No turnover (single tip). $S=$ Short; M=Medium; it Long. Use
arms. Try to supply the same leverarm length, but a substition of a different leverarm length will not affect playing. It may be necessary to clip off an arm that is too long, and interferes with record drop. WE DO NOT OFFER THE ALL-PLASTIC VERSIONS OF TETRAD NEEDLES. The rubber-metal construction has better response character-
istics and more compliance. It is a BETTER NEEDLE at the same price. USE THE SAME VISUAL COMPARISON METHOD TO SELECT A istics and more compliance. It is a BETTER NEEDLE at the same price the leverarm length, and the rubber-metal needle REPLACEMENT FOR THE ALL PLAS
will $f i t$ and do a better job.

TETRAD Replacement CARTRIDGES can be easily selected and sold, using our UNIVERSAL REPLACEMENT Method We have analyzed the over- 700 types produced by Tetrad, and reduced that staggering figure to just nelf-stick adhesive and Diamond Needie included. See SECTION III for complete details.
We also offer completely assembled replacements for the most popular Tetrad Cartridges, including the We also offer completely assembled rep as well as a wide variety of replacements for the best-selling cartridges of most other makes-all at money-saving prices!
SECTION VII of this catalog includes exclusive Set-Model to Cartridge replacenent listings. No other cartridge supplier offers this helpful information.


To select the correct replacement for either an all plastic, or rubber-metal-plastic TETRAD Needie:
JUST LAY THE OLD NEEDLE ON ACTUAL SIZE PICTURES IN CENTER COLUMN. MATCH OVERALL NEEDLE LENGG, AN by selling ours, Remember, our 3 piece needles perform BETTER than the all-plastic, so you do your customer a M-853-DS, M-854-DS or M-855-DS types.


## SECTION II

NEEDLE IDENTITY BY CARTRIDGE NUMBER




Page 33 is blank.

## GENERAL INFORMATION

Familiarize yourself with the catalog and these suggestions. Cartridge sales can be very profitable PLUS sales, and well worth a little effort.
Section VII - our EXCLUSIVE Set-Model to Cartridge Listing. The proper replacement is listed for thousands of phonographs, identified by Model Number, which is the easiest information to obtain from your customer.

Section III- within this section is a numerical listing of our comprehensive line of re placement cartridges, plus the magnetic cartridges under their respective brand names. This section tells you whether a cartridge is stereo or mono; the original manufacturer and his number, plus numbers assigned by other cartridge sellers; shows an illustration; lists the color of the cartridge body or shell, the tracking force range, type of element, output voltage, the needle used in the Replacement cartridge, and suggested list price.

Section VI - - a cross-reference listing of cartridges, showing the recommended cartridge to make a replacement. Listings include both actual Cartridge Manufacturers, and phono set makers who have assigned their own numbers to cartridges. Our cartridge line carries a "P-"prefix. Power Points (plug-in cartridges) are listed under our Needle Numbers in the " 900 " Series. ADC, Empire, Pickering, Shure and Audio Technica magnetic cartridges are listed under their own factory-designated numbers.

## MAGNETIC CARTRIDGES



Magnetic cartridges, or pickups, are almost always used in the more expensive types of turntables or changers sold as components. They are also used in "top of the line" phonographs, (usually separate component set-ups) sold by a few major companies. The mounting characteristics and physical size are fairly standard so that you can sell almost ANY magnetic cartridge to replace another magnetic cartridge if you pay attention to the voltage output and tracking pressure. Tracking pressure, and compliance are the two details which distinguish one cartridge from another in a given makers series. The lower the tracking pressure, the higher the compliance. With higher compliance comes wider range frequency response, better channel separation, less record wear, etc.
You will note that prices increase almost in direct proportion as tracking forces go down. Here is where salesmanship comes into play, and you get a chance to SELL UP. Study pages 40 to 42 and note the types of units for which given cartridges are recommended, such as "Professional Tonearms", "Light Tracking Automatic Turntables", "Light Changers" and "Changers". Your efforts to SELL UP should not go against these recommendations, or your customer could be disappointed. It would be a waste of time to sell a Cartridge of Top Quality for use on an old changer - it wouldn't track properly; the stylus would retract into its shell. If you adjusted the arm to the proper low pressure, it would very likely skip, and undoubtedly would fail to trip the changer mechanism. on the other hand, if you sold a P/AC to the owner of a high quality turntable with a professional arm, he would not get the quality of reproduction compatible with that type of equipment. Elliptical tips are used on all the top grade cartridges and styli because this shape more closely approximates the very sharp tip of the cutting stylus. The reduced area of contact between the tip and the groove gives a better "reading" of the tiniest variations in the groove. However, an elliptical tip is NOT suitable for playing records except at the very light tonearm pressures of a high quality turntable or changer.

There's nothing mysterious or magical about magnetic cartridges. Don't hesitate to show your customer the magnetic cartridge page of our Needle \& Cartridge Catalog. Discuss tonearm pressures, frequency response variations and channel separation differences between one cartridge and another. If the customer has a good quality turntable or changer, with magnetic inputs available on the amplifier used, he is a good prospect for a high priced magnetic cartridge. It is MOST likely that the cartridge selected will fit his tonearm. Some cartridges, (Pickering, for example) come with a package of special mounting plates, to fit various tonearms. ALL the cartridges include mounting screws and complete installation instructions for correct connections.

SPECIAL SUGGESTION: Imported sets with Japanese magnetic cartridges can be a problem. You can sell an American Magnetic Cartridge of the customer's choice to replace most Japanese pickups. Sometimes it is more practical in dollars and cents to sell a complete U.S. cartridge instead of trying to obtain a replacement needle - unless it is a needle included in our wide line of import replacements. If the cartridge needs replacing, it is even more practical to sell him a U.S. type, for which needles are readily available.

## IF YOU READ THESE TWO PAGES!

## I CERAMIC \& CRYSTAL CARTRIDGE SELECTION



One way or another, you can almost certainly determine which cartridge is needed by using this Needle \& Cartridge Catalog. Remember that it is NOT vital that the replacement be an exact, look alike duplicate of what was in the machine. Set makers sometimes change the cartridge used in the middle of a model run. Servicemen install suitable replacements which may not duplicate what was originally used. What IS important is that the pickup selected have the correct ELECTRONIC characteristics (signal strength and range), operate at comparable tonearm pressures, and fit in the tonearm. Our guide offers THREE WAYS to select a suitable replacement:

## 1. BY SET MODEL NUMBER

Now, for the first time, you can identify a replacement for a great many sets without knowing the make and model of the cartridge. With our Exclusive SET MODEL TO
CARTRIDGE LIST (Section VII), you can determine what to use in any one of thousands of phonograph models, and be confident you will have one with the right electronic and physical properties to do the job.

## 2. BY CARTRIDGE MAKE \& MODEL NUMBER

If customer brings in the old cartridge, or a number from his set or Owner's Manual, refer to CROSS REFERENCE (section VI ). This includes numbers assigned to cartridges by set manufacturers, as well as those assigned by the actual maker of the cartridge.
Generally, the model number is marked on the old cartridge - frequently molded into the plastic body. In addition to the model number, you may find a code number (usually three digits). An Astatic cartridge might have " $3-70^{\prime \prime}$ on it, which means it was made in the third month of 1970. An EV cartridge might have "370" on it, which means it was made in the 37 th week of 1970 (or 1960 , if a very old type). IGNORE THESE NUMBERS. Look for a MODEL NUMBER . . look at the KINDS of model numbers listed in Section II under a given brand name, and watch for numbers with similar combinations of letters and numbers. For instance, 5015 D would be an EV number, or 86 TSB would be an Astatic number. Magnavox numbers have six digits, plus a hyphen and another digit, as "560315-1" "GE Cartridges have a letter and 3 digits, as "C650", or a factory number, like "EA-1066". RCA may use a number like "RMP-200-4", or one like "115276". Look for "family" similarities, and you' 11 soon become an expert! See special suggestions on replacing Tetrad cartridges on Page 39

## 3. BY VISUAL IDENTIFICATION

Replacing imported cartridges is a different ball game. Very few have any numerical identification, and those that do may use a "private lable" number put on there for the set maker. That's why we give you MEASUREMENTS of our Japanese replacements. First determine whether it is a monaural cartridge (which has TWO connector pins), or a stereo cartridge (with 4 pins). The color of the cartridge body is not vital, but when you can match it by color, size and shape, do so. Make a special effort to match the HEIGHT (or depth), so it will extend the needle out from under the edge of the tonearm. The width of those which clip into the arm is important, BUT YOU CAN BEND THE POINTS TO FIT A SLIGHTLY WIDER OR NARROWER ARM, as long as the rest of the criteria match.
For other than Japanese cartridges, you can often match cartridges physically if you pay attention to some general rules regarding electronic characteristics. The VOLTAGE OUTPUT should be equal to, or slightly higher than that of the cartridge to be replaced. If the output is known, it is simple to refer to the catalog for the output of the cartridge you intend to use. If unknown, it is a general rule of thumb that the cheaper the phonograph itself, the higher the output of the cartridge used. Thus a low priced portable will almost always use a 2.5 to 3 volt cartridge. For a more expensive phongraph, a 1 volt, or .5 volt cartridge will probably do the job, as far as output is concerned.
Usually, tracking force and output are related. The higher output cartridge requires higher tracking pressures, so again, the quality of the phonograph is a clue. There is also a definite relationship between voltage output and sensitivity. The lower the voltage, the higher the sensitivity and/or width of frequency range.... you get better music from lower voltage cartridges, almost invariably.

In most cases, our recommended replacement will be a duplicate of the original, but in those cases where a substitute is listed, it is a simple job to make the changeover. Usually, it is necessary to remove two screws holding the mounting bracket, and use the bracket which comes with the new cartridge. It may, in rare cases, be necessary to unsolder wires from old clips or a connector plug, then re-solder them to new clips or plug, but this, too is not too difficult for anyone with normal finger dexterity, a soldering iron and a pair of tweezers.


## Pfanstiehl



## Pfanstiehl

REPLACEMENTS FOR TETRAD CARTRIDGES
Here's the replacement answer to the enormous variety ( 742 different numbers at last count) of Tetrad cartridges in use. We offer two alternatives:

1. "UNIVERSAL REPLACEMENTS" - consisting of the basic cartridge element (see Fig. Fl2) combined with the appropriate Diamond replacement needle. This is a LOW-COST solution Check the color of the socket on the rear of the element, and determine the number stamped on the turnover handle of the needle, and order the corresponding UNIVERSAL REPLACEMENT Cartridge. For example, if you wish to replace a Tetrad Original cartridge having a red socket and a needle stamped " 21 D ", order our P-434D.

2. If the original cartridge element cannot be removed, or if the mount or head is damaged, order a completely assembled EXACT REPLACEMENT. We have included in our replacement line many of the most popular of these. Check Section VI for the


**-- Also replaces original Tetrad having Green Socket.

SECTION III

## Pfamstiehl

## UNIVERSAL REPLACEMENT $\cdots$ Easy As $\underline{\underline{1}-\underline{\underline{2}}-\underline{\underline{3}} \text { ! }}$

STEP 1. Remove old cartridge from head or mount.


STEP 2. Peel paper berking from UNiand install.


STEP 3. Install new replacement


MAGNETIC CARTRIDGES



MAGNETIC CARTRIDGES

| MODEL | SUGG． PRICE | USED IN | $\begin{aligned} & \text { CARTRIDGE } \\ & \text { COLORS } \end{aligned}$ | $\begin{aligned} & \hline \text { STYLUS } \\ & \text { COLOR/Marks } \end{aligned}$ | OUTPUT | $\begin{aligned} & \text { CHAN. } \\ & \text { SEP. } \end{aligned}$ | $\begin{aligned} & \text { TRACKING } \\ & \text { FORCE } \end{aligned}$ | FREQUENCY RESPONSE | $\begin{aligned} & \text { NEEDLE } \\ & \text { NUMBER } \end{aligned}$ | $\begin{aligned} & \hline \text { TIP } \\ & \text { SIZE } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pfanstiehl MAGNETIC CARTRIDGES |  |  |  |  |  |  |  |  |  |  |
| Dark Horse | 49.95 | S－，J－Arm TT | Black | Black | 4.3 mv | 22 db | 12 $\frac{1}{2} \mathrm{gms}$ | 20／22KHz | 4763－DE | $.3 \times .7$ |
| $\begin{aligned} & \text { Straight } \\ & \text { Arrow } \end{aligned}$ | 49.95 | $\begin{aligned} & \text { Straight } \\ & \text { Arm TT's } \end{aligned}$ | Black | Black | 4.3 mv | ． 22 db | 1考 gms | $20 / 22 \mathrm{KHz}$ | 4763－DE | $.3 \times .7$ |
| $\begin{array}{\|l\|l\|} \hline \begin{array}{l} \text { AT- } 3482 \mathrm{U} \\ \text { UNIVERSAL } \end{array} & \mathrm{NEW}_{3} .50 \\ \hline \end{array}$ |  | All TTs | Black | Black | 5 mv | 20db | 1－1䨐 | $20 / 20 \mathrm{KHz}$ | 213－D6C | ． 6 mil |
|  |  |  |  |  | ERSAL <br> TER） |  |  |  |  |  |
| PCPICKERING MAGNETIC CARTRIDGES |  |  |  |  |  |  |  |  |  |  |
| XSP－3003 | 140.00 | Plug－in＊＊ | Black | Black | 5.0 mv | 35db | $1 \frac{1}{4} \mathrm{gms}$ | 10／30KHz | 608－DEV | Stereohed． |
| XSP－4004 | 180.00 | Plug－in＊＊ | Met．Smoke | Black | 3.9 mv | 35db | $1 \frac{1}{4} \mathrm{gms}$ | $10 / 36 \mathrm{KHz}$ | 608－DEX | Stereohed |
| TL－4 Super | 135.00 | Plug－in＊＊ | Black | White | 4.4 mv | 35db | $1 \frac{1}{4} \mathrm{gms}$ | $10 / 25 \mathrm{KHz}$ | 609－DEZ | Stereohed |
| TL－3S | 110.00 | Plug－in | Gold | White | 4.4 mv | 35 db | $1 \frac{1}{4} \mathrm{gms}$ | $10 / 25 \mathrm{KHz}$ | 609－DEX | Stereohed： |
| TL－2E | 80.00 | Plug－in | Black | White | 4.4 mv | 32 db | $1 \frac{1}{4} \mathrm{gms}$ | $10 / 22 \mathrm{KHz}$ | 609－DEL | ． $3 \times .7$ |
| TL－1E | 75.00 | Plug－in | Silver | White | 4.4 mv | 32db | $1 \frac{1}{4} \mathrm{gms}$ | $10 / 20 \mathrm{KHz}$ | 609－DE | ． $4 \times .7$ |
| TE | 35.00 | Plug－in | Silver | White | 4.4 mv | 25 db | $1 \frac{1}{4} \mathrm{gms}$ | $10 / 20 \mathrm{KHz}$ | 826－DE | ． 7 mil |
| XSV／5000 | 230.00 | Prof．Arms | Black | White／Brnz | 4 mv | 35db | $\frac{1}{2}-1 \frac{1}{2}$ | $10 / 50 \mathrm{KHz}$ | 608－DE2 | Stereohed |
| XSV／4000 | 180.00 | Prof．Arms | Black | White／Gold | 4 mv | 30db | 3／4－1娄 | $10 / 40 \mathrm{KHz}$ | 608－DEX | Stereohed： |
| XSV／3000 | 140.00 | Prof．Arms | Black | Black／Gold | 4.0 mv | 35db | 3／4－1雨 | $10 / 30 \mathrm{KHz}$ | 608－DEV | Stereohed |
| XV－15／750E | 90.00 | Prof．Arms | Gold | Blk／Gold | 3.5 mv | 35db | $\frac{1}{2}-1 \frac{1}{2}$ | $10 / 25 \mathrm{KHz}$ | 606－DEG | ． $3 \times .7$ |
| XV－15／625E | 80.00 | Lt．Auto | Black | Blk／Gold | 3.5 mv | 35db | 3／4－1娄 | $10 / 25 \mathrm{KHz}$ | 606－DEL | ． $3 \times .7$ |
| XV－15／400E | 70.00 | Lt．Auto | Gray | Blk／Gold | 5.5 mv | 35db | 1－2 | $10 / 25 \mathrm{KHz}$ | 606－DEM | ． $4 \times .7$ |
| XV－15／200E | 65.00 | Changers | Gray | Blk／Silver | 8 mv | 35 db | 2－4 | $10 / 25 \mathrm{KHz}$ | 606－DET | ． $4 \times .7$ |
| XV－15／150 | 50.00 | Changers | Gray | Blk／Silver | 8 mv | 35db | 2－4 | $10 / 25 \mathrm{KHz}$ | 606－D7T | ． 7 mil |
| XV－15／100 | 45.00 | Changers | Gray | Blk／Silver | 8 mv | 35db | 3－7 | $10 / 20 \mathrm{KHz}$ | 606－D7C | ． 7 mil |
| NP／AME | 29.95 | Lt．Auto | Silver | Gray PD／AME | 7.5 mv | 28 db | 1－3 | $20 / 18 \mathrm{KHz}$ | 604－DEM | $.4 \times 1$ |
| NP／ATE | 24.95 | Auto TT | Silver | Gray PDE | 7.5 mv | 26 db | 2－5 | $20 / 15 \mathrm{KHz}$ | 604－DEC | ． $5 \times .7$ |
| NP／AT | 19.95 | Auto TT | Silver | Gray PD07T | 7.5 mv | 26 db | 2－5 | $20 / 15 \mathrm{KHz}$ | 604－D7T | ． 7 mil |
| NP／AC | 17.95 | Changers | Silver | Gray PD07C | 7.5 mv | 24db | 3－7 | $20 / 15 \mathrm{KHz}$ | 604－D7C | ． 7 mil |

＊＊Furnished with adapter for use in Standard Mounting Tonearms（ $\frac{1}{2}$＂centers）


|  | MODEL | SUGG. PRICE | USED IN | $\begin{aligned} & \text { CARTRIDGE } \\ & \text { COLORS } \end{aligned}$ | $\begin{aligned} & \text { STYLUS } \\ & \text { COLOR/Marks } \end{aligned}$ | OUTPUT | $\begin{aligned} & \text { CHAN. } \\ & \text { SEP. } \end{aligned}$ | $\begin{aligned} & \text { TRACKING } \\ & \text { FORCE } \\ & \hline \end{aligned}$ | FREQUENCY RESPONSE | $\begin{aligned} & \text { NEEDLE } \\ & \text { NUMBER } \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { TIP } \\ & \text { SIZE } \\ & \hline \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | - MAGNETIC CARTRIDGES |  |  |  |  |  |  |  |  |  |  |
|  | V15 Type V-P | 221.50 | P-Mount | Black | Gray | 3.2 mv | 25 db | $1 \frac{1}{4} \mathrm{gms}$ | $20-20 \mathrm{KHz}$ | 773-DLT | Hyperell |
|  | V15 " V-MR | 297.00 | Std. Mount | Black/Silver | B1k/Silver | 3.2 mv | 25 db | 1 gram | $20-20 \mathrm{KHz}$ | 773-DMR | Mic.Ridg |
|  | M92E *** | 32.95 | Std \& P-Mt | Black/Silver | Red | 4 mv | 20 db | $1 \frac{1}{4}$ gms | $20-18 \mathrm{KHz}$ | $776-$ DE | . $4 \times .7$ |
|  | M99E *** | 53.95 | Std \& P-Mt | Black/Silver | Blue | 4 mv | 20 db | $1 \frac{1}{4} \mathrm{gms}$ | $20-20 \mathrm{KHz}$ | 776 -DEL | . $4 \times .7$ |
|  | M104E ** | 75.95 | Std \& P-Mt | Black | Yellow | 4 mv | 25 db | $1 \frac{1}{4} \mathrm{gms}$ | $20-20 \mathrm{KHz}$ | $776-\mathrm{DEX}$ | . $2 \times .7$ |
|  | M105E ** | 107.95 | Std \& P-Mt | Black | Black | 4 mv | 25 db | $1 \frac{1}{4}$ gms | $20-20 \mathrm{KHz}$ | $778-\mathrm{DE}$ | . $2 \times .7$ |
|  | M110HE ** | 118.95 | Std \& P-Mt | Black | White | 4 mv | 25 db | $1 \frac{1}{4} \mathrm{gms}$ | $20-20 \mathrm{KHz}$ | 776-DHE | Hyperell |
|  | Mlll HE ** | 145.95 |  | Black | Black/Red | 4 mv | 25 db | $1 \frac{1}{4} \mathrm{gms}$ | $20-20 \mathrm{KHz}$ | $773-\mathrm{DHL}$ | Hypere11 |
| $\cap 0$ $->\pi$ | MLI20HE | 155.00 | Std \& P-Mt <br> Std. Mount | Black | Blk/Wht Dot | 4 mv | 25 db | $1 \frac{1}{4} \mathrm{gms}$ | $20-20 \mathrm{KHz}$ | 777-DHE | Hyperell |
| $x_{-1}^{0}$ | ML140HE | 190.00 | Std. Mount | Black | Blk/Red Dot | 4 mv | 25 db | 1 gram | $20-20 \mathrm{KHz}$ | $777-\mathrm{DHX}$ | Hyperell |
| $\cdots \geq$ | M55E | 70.95 | Lt. Auto | Black | Yellow | 6.6 mv | 25 db | 3/4-2 | $20 / 20 \mathrm{KHz}$ | 759-DE | $4 \times .7$ |
| $\bigcirc$ | M44E | 61.95 | Lt. Chgrs. | Black | Brown | 9.3 mv | 25 db | 11/2-4 | $20 / 20 \mathrm{KHz}$ | 759-DE | . $4 \times .7$ |
| $\cdots$ | M44C | 54.95 | Changers | Black | Lt. Blue | 9.3 mv | 25 db | 3-5 | $20 / 20 \mathrm{KHz}$ | 759-D7 | . 7 mil |
|  | M93E-P | 67.00 | Lt. Auto | Blue-Gray | Grn. HiTrack | 6.2 mv | 25 db | $1 \frac{1}{2}-3$ | 20/20KHz | 762-DE | . 4 X . 7 |
|  | SC-39B | 68.00 | Disco/Prof. Black |  | Beige | 3.8 mv | 25 db | 1 $\frac{1}{2}-3$ | $20 / 20 \mathrm{KHz}$ | 769-D7 | .7 mil |
|  | V15 TYPE V-MR |  | V 15 TYPE V-P |  |  |  | M104E, M110HE |  |  |  |  |
|  |  |  | ML120 | E, ML 140HE |  |  |  |  |  |  |  |

$* *$ Furnished with adapter for use in Standard Mounting Tonearms ( $\frac{1}{2}^{\prime \prime}$ centers)

**Furnished with adapter for use in Standard Mounting Tonearms ( $\frac{1}{2}$ centers)



| $\begin{aligned} & \text { A-T } \\ & \text { (Continued) } \end{aligned}$ | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ | A-T <br> (Continued) | Out <br> No. | $\begin{aligned} & \hline \text { A-T } \\ & \text { (Continued) } \end{aligned}$ | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ | A-T <br> (Continued) | $\begin{aligned} & \text { Our } \\ & \text { No } \end{aligned}$ | EMPIRE (Continued) | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ | EMPIRE (Continued) | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ | EMPIRE <br> (Continuad) | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AT605E | 200DEC | ATL12E2 | 212 DE | MSI300E | 2OIDEM | VS215EP | 212 DE | OP2 | 242 DE | 245 E | (S45E) | 2001ZE/X | E |
| AT650E | 200 DEC | ATP221 | 204DEC | $\mathrm{N}-10 \mathrm{l} 100$ | 200D7C | VS220E | 200DET | OP4 | 242DET | 250 E | 239DEC | 2001ZE/XIII | 239 DEC |
| AT666 | 200DET | ATUPM | 213D6C | $\mathrm{N}-20-110, \mathrm{H}$ | 200 DEC | VS235EP | 212DEC | OP5 | 242DEX | 250ES | 239 PDE | 2002, ,-E | 239 DEC |
| AT7008X | 201DQX | ATU12E | 200DET | N-40-130 | 201 DEM | VS235EP | 212DET | O17 | 242 DLAC | 260ME | 241 DME | 2002EE/ $/ \mathrm{X}$ | 239PDE |
| AT733 | 213D6C | ATU12E2 | 212 DE | OMEGA | 201DEM | VS240LC | 201 DQX | OP100,122 | 243 D 6 | 266RB | 239 PDE | 2002E/X | 239PDE |
| AT777 | 201 DQx | ATU13E | 201 DEM | P101E | 212 DE | VS245LP | 212DEL | OP110 | 243DE | 300 Z | 242DET | 2002HC | 239PDE |
| AT910,960X | 200D7C | ATU13L2 | 212DEL | PB11E | $200 D E C$ | WIZ555 | 200 DEC | OP115 | 242DE | 350DE 375 C | 243 D ¢ | 2002/Z | 239PDE |
| AT910B | 200 DEC | ATJ4000 | 213D6C | PB12S | 201DQX | X-11 | 200D7C | OP120 | 241DME | 366 HB | 239PDE | 2002/IIIXE | 239PDE |
| AT911E | 200DEC | ATU4020EP | 212DE | PB33E | 201DEX | X-12 | 2000 DEC | OP125,1 | 242DET | 400 NE | 239DEC | 2002/V-ZE | 239PDE |
| AT912SaB | 201 DQX | ATU4020EP | ${ }^{213 D 6 C}$ | PC44U,55U | NR | X-14 | 200DET | OP135 | 241 DFR | 404/CDQ | 239 DQ | 2002/2H | 239PDE |
| AT962XE | 200DEC | ATU4030LC | 212 DEL | PC100E, 110 | NR | XE-120 | 200 DEC | OP150,155 | 242 LLAC | 450LT | 241 DEC | 2003AE/X | 239 DEC |
| AT964XEa | 201 DEM | ATU4030LC | 213D6C | PC110E, 220 | NR | XE-130 | $201 D E X$ | OP215,225 | 245DE | 475 E | 243D6 | 2003E/H/ | 239PDE |
| AT966XSa | 201 DQ | CEI2010 | 20057C | PC220xE | NR | XLE-40 | 200 DEC | P40E | 241 DE | 500 E | 239PDE | 2003SE/X | 239PDE |
| AT1000XE | 200 DEC | CE12011E | 200DEC | PC330LCU | NR | XLE-50 | 200 DET | P50NS | 242 DET | 535E/P | 239 DEC | 2003/Z | 239 PDE |
| AT1001E | 200DEC | CS110II | 200D7C | PC440,440LC | NR | XLS 601 | 201 DQX | P60R | 241 DME | 600LT | 241DFR | 2003ZE/X | 239 DEC |
| AT1010E | 200DET | CS111EII/H | 200 DEC | PC550ML | NR | XLS 70 II | 201 DQ | P99E | 245 DE | 6007 | 239 DET | 2004 | 239PDE |
| AT1100E | 200DEC | CS112EII | 200DET | PK29P, 29PC | 213D6C | XR18E | 200 DET | Pro 4500/3 | 239 PDE | 620 X | 239D7C | 2004TE/X | 239DEX |
| ATXIIOOE | 200 DEC | CS112SII | $201 D 0 x$ | PM7000 | 212DE | Z-500 | 200 DEC | Q-phase 100: | 239D7C | 640EE | 239 PD | 2005/V | 239 DET |
| ATH10 | 200D7C | CS14SII | 201DQ | PM9000 | 212 DEL | 2-700 | 200DET | Q-phase 500: | 239PDE | 660EEE | 239 PDE | 2006 | 239 DQ |
| AT111E | 200 DEC | CTDIE | 200DEC | PRO 11E | 200DEC |  |  | Q-phase 1000: | 239PDE | 666 E | 239 DEC | 2008 | 239DET |
| AT1112XE | 201 DEX | CTDI2XE | $201 D E X$ | PRO 12E | 200DET |  | Our | QX-2003 | 239 DEC | 666E/2, | 239 PDE | 2008 I | 239 DEX |
| AT1113E | 201 DEM | CTDI3Ea | 201 DEM | PRO 13E | 201DEM | tMPIRE | No. | QX2003 | 239 PDE | 700E/X | 239 DEC |  | 239 DEX |
| AT1200Sa | $29150 X$ | CTC404 | 200 DEC | PRO 14S | 201 DQ |  |  | Qx5000/III | 239 DEC | ${ }^{\text {700NE }}$ | 239 PDE | 2100 E | 239 D7C |
| AT1200S | 201 DQX | CTG808 | 200DET | S-100HP | 200 DEC | For quick | tificatio | QX5000/IV | 239PDE | 700 T | 239 DEX | 2100E/I | 2399 DEC |
| AT1200xE | $201 D E X$ | CTG909 | 201DEX | S-200HP | $200 D E T$ | of a "Pri |  | QX5000/V | 239DET | 707 x | 239D7C | 2100E/III | 239 PDE |
| ATX1201E | 200DET | DB57 | NR | S.300HP | 201DEX | needle, refe | colo | RM05 | $243 \mathrm{D6}$ | 727E/IE/X | 239 DEC | 2100E/III | 239PDE |
| ATX1201S | 201 DQX | DB64E | 206DEM | Series I | 213D6C |  |  | RM10 | 2420 E | $727 \mathrm{E} / \mathrm{LI}$ | 239 PDE | 2121E/I | ${ }^{239}$ DEC |
| AT1250E | 291 DEX | D874E.83E | 213D6C | Ser.II | 200 DEC | Red | 239DEC | RM20 | 243 DE | 727E/III | 239 PDE | 2121E/III | 239 PDE |
| AT1300E | 201 DEM | DC40P | 213D6C | Ser. III | 213DEC | White |  | RM25LT | 241DE | 750LAC | 242DIAC | 2121E/III | 239PDE |
| AT1313E | 201 DEM | D 714 | 200D7C | Ser. IV | 201DEX | Purple | $\begin{aligned} & \text { 239PDE } \\ & \text { 239PDDE } \end{aligned}$ | RM30,45LT | 242DET | 775xLT | 245DE | $22000 / L$ BR | ${ }^{2395 D E}$ |
| AT2000 | 200D7C | DMTIXE | 200 DEC | Ser. V | ${ }_{2131086}$ | Silver | 239DET | RM35,55LT | 245 DE | 777E/X | 239 DEC | $2200 \mathrm{E} / \mathrm{III}$ | 239 DEC |
| AT2000xE | 213 D6C | DMT3XE | 201 DEM | Ser. VI | ${ }_{213}^{201 D 6 C}$ | Blue | 239 DQ | RM50,60 | 242DEX | ${ }^{800 L E / X}$ | ${ }^{239} 239 \mathrm{PEC}$ | $2200 \mathrm{E} / \mathrm{IV}$ | 239PDE |
| AT2012S | 201 DQX | DR-300E | 213DCC | SE1100 | 200DEC | Pink | 242 DE | RM75,80 | 242 DLAC | ${ }_{900 C / X}$ | 239D7C | 2201E/H/ZH | 239PDE |
| AT2013E | 200 DEC | DR-400E | 213D6C | SE1300 | 200DET | t.Gre | 242DET | RM90,95 | 242 DLAC | 900 NE | 239DEX | 2201E/[ | 239PDE |
| AT2014S | $201 D 0$ | DR475LC | 201DQX | SE1500X | 201DEX | Orang | 242DEX | RM500LT | 241DE | 909X | 239D7C | 2202E/III | 239PDE |
| AT2015S | 201 DQ | DR500LC | NR | SLT88E | 212 DE |  |  | Series VII | 239 DET | 949 OD | 239DQ | 2202E/H | 239PDE |
| AT2100E | 200 DEC | GM130E | 200DEC | SLT96E | ${ }^{2122 D E T}$ | Following ar | Private | S22E | 242 DE | 990EE/X | 2399 DEC | 22022/H | 239PDE |
| AT2111E | 200DEC | GSC11E | $200 D E C$ | S5220/U | 212D6C | Label" cartrid | nen., | S44E | 242 DET | 990PE/X | 239 PDE | 2203E/H | 239 PDE |
| AT2113 | 201 DEM | GSC14Sa | 201DQ | Ss231/U | ${ }^{213 D D C}$ | showing co |  | S55E | 242 DEX | 999AE/X | 239 D 7 C | 2203Z/H | 239 PDE |
| AT2211E | 200 DEC | HP100MKII | 200DEC | SS300E | $200 D E C$ |  |  | S75LAC | 242 DLAC | 999AE/XII | 239 DEC | 2204Z/H | 239 DET |
| AT2211EH | 200DEC | HP200MKII | 200DET | 5s315E/U | 212 DE | AEACOQIV | 239DQ | 5906 | 239 DTC | 999AE/XIII | ${ }^{239} 9$ PDE | 2205/ZH | ${ }^{239 D E X}$ |
| AT2212EH | 200DET | HP300MKII | 2 OIDEX | Ss330E/U | 212DE | AE1000xV | 239 DEC | S906E | 239 DEC | 999E/X Imp | 239DEC | 2300E | 239DEC |
| AT2213EH | 201 DEM | HR101E/U | 213D6C | S5331E/U | ${ }^{213 D 6 C}$ | AE1000X/I | 239 DEC | S910E | 239 PDE | 9991KEQE/X | 239PDE | 2300E/III | 239 DDE |
| AT214SH | 20180 | HR201E/U | ${ }_{213 D 6 C}$ | Ss335E/U | 212 DEC | AE10008/III | 239PDE | ${ }_{\text {S }}^{5912 \mathrm{IE}}$ | 239 PDE | 999SETE/X | 239 23PDE | 2300 Z | 239DEX |
| AT2500 | $200 \mathrm{D7C}$ | HR301E/U | 213DCC | SS400E | 201DEX |  | 243D6C | S915E | 239 DET | 999xE/X | 239 DEC | 2400E/III | 239 PDE |
| AT2500S, $5 \times$ | 201DQX | HR401LC/U | 213D6C | SS440E/U | ${ }^{213 D 6 C}$ | ASE | 243 DE | S917E | 239 DET | ${ }^{99997 / M E X}$ | 239 DEC | 2500/1 | 239 DEC |
| AT2511E | 200DEC | LABXIE | 200 DET | SS4415/U | 213 D6C | A10E, 11 E | 242DE | ${ }^{\text {S4402 }}$ | 239 DQ | 9997E/X | 239 PDE | ${ }^{2500 / 1 I I}$ | ${ }^{2399 P D E}$ |
| AT2512E | 200DET | LABXIIS | 201DQX | SS445E/U | 212DET | A20ME,22ME | 242 DET | SE9300 | 239 PDE | 1000AE/[ | 239 DEC | 2500E/X | 239 DEC |
| AT3310E, 11E | 200DEC | LM27E | 210DE | SS550LC/U | 212DEL | B195E | 239 DEC | SE9900 | 239DEX | 1000AE/III | 239PDE | 2500PE/X | 239PDE |
| AT3312S | 201 DQX | LM100E,01E | 200 DEC | SS551LC/U | 213 D6C | B195E/I | 239PDE | SLC4444 | ${ }^{\text {(S444) }}$ | 1000AE/V | ${ }^{239}$ 239PDE | 25000E/X $2500 / \mathrm{X}$ | ${ }^{239 P D E}$ |
| AT3312XE | 201 DEX | LM102E,03E | 200 DET | ST400 | $2000 \pm C$ |  | 239DET | TC40 | 242 DET | 1000AE/X | 239 PDE | 2500/X | ${ }^{239 \mathrm{DCC}}$ |
| AT3400 | 710D 7 | LM102S | 201 DQX | ST800 | 200 DET | CD-6 | 239PDE | TT/E | 239 DEC | 1000AJS | 239 PDE | 2500x/E | 239DEC |
| AT3401 | 710D7 | LMC10 | 210 DE | TC150EP | 212 DE | CD-10 | 239DEX | TTE/LIII | 239 PDE | 1000ED,E/I | 239 DEC | 2500x/EN | 239PDE |
| AT3410 | 710D7 | LR3 | 200 DEC | TC216EP | 213 D6C | CD404 | $\begin{aligned} & \text { 239DEX } \end{aligned}$ | XL15-11C | 239D7C | 1000E/II | 239 PDE | 2500X/EP | 239PDE |
| AT3500E | 200DEC | LSI1E | 200 DEC | TC226EP | 213 D6C | CDM-1 | 239PDE | XL15-21E | 239 DEC | 1000E/V | 239DEX | 25008/1 | 239 DEC |
| AT3500ED | 200DET | LS100 | 206D6C | TC236EP | 213 D6C |  |  | XL15-31E | 2399 DE | 1000E/X | 239PDE | 2600 E | 239PDE |
| AT3500H | 200D7T | LS200 | 206DEC | TC246LP | 213 D6C | E20 | $242 \mathrm{DE}$ | XL15-41E | 239PDE | 1000 LS | 239PDE | 2600E/III | 239PDE |
| AT3500s | 201 DOX | LS300 | 200DET | TC255EP | ${ }^{212} 212 \mathrm{DEC}$ | E100 | 239 DEC | ${ }^{\text {XLILS-51E }}$ | 239 DET | 1000 SX/IIII | 239PDE | 2600 X | ${ }^{239 \mathrm{DEX}}$ |
| AT3600 | 211D6T | LS350/LT | 212DE | TC350EP | 212DET | E500 | 239PDE | XLT/III | 239 PDE | 1000MEX/II | 239PDE | 3000 | 239 DCC |
| AT 36001 | 211 D 6 C | LS400 | 201DEX | TC450EP | 212 DEL | E999 | 239 DEX | 299E | 243DE | 1000MEX/III | 239DEC | 3000 I | 239 DEC |
| AT3601 | 211D6T | LSA50/LT | 212 DEC | TC1000,2000 | NR | E5000 | 239 DEC | 2200E/III | 2399 DEC | 1000 MKI | 239 DEC | 3000 I,III | 239 PDE |
| AT4000 | 200DEC | LS480/LT | 212DET | TC3000,4000 | NR |  |  | 2300E//III | 239 PDE | 1000 Ph IV | 239 DEC | ${ }^{3000}{ }^{\text {a }}$ | 239 DET |
| AT4011EET | 200DEC | LS500 | NR | TM1,TM3 | 213 D6C | E9000 | 239DEX | Z400E/III | 239 PDE | 10000E/X | 239 PDE | 3000A/I | 239DEC |
| AT4012XE | 201 DEX | LS580/LT | 212 DEL | TM2 | 200 DEC | ESP/X | 239 DEC | 15X40E | 243D6 | 1000SE/X | 2399 PE | 3000A/III | 239PDE |
| AT4013E | 201 DEM | LS580/LTM | 212 DEL | TM4 | 2131 DEX | ExL10 | 239 DEC | ${ }^{255 \mathrm{~K}-\mathrm{HZ}}$ | 239DEC | 10001E/X | ${ }^{239}$ 239PDE |  | 239PDE |
| AT402002E | 201 DEX | ${ }^{\text {LS }} 57000$ | ${ }_{20656 C}$ | TM5 | 213D6C 201DQX | EXT20 | 239PDE | 30LT,60ES | 241DME | 1000xLE $1001-\mathrm{E}$ | 239PDEC | 3000A/V | ${ }^{\text {239PDE }}$ |
| AT 4025XEP | ${ }_{20}^{212 D E T}$ | LSN100R |  |  |  | ExL30 | 239 DET | 50LT,60ES | 2410. 239D7 | ${ }^{10012012 \mathrm{EE} / \mathrm{III}}$ | $239 P D E$ | ${ }^{3} \mathbf{3 0 0 0 E}$ / ${ }^{\text {a }}$ | 239 DEC |
| AT4030LC AT4040E | 200 DEC | ${ }_{\text {LSN }}$ LSN00R | 200 DET | TP111E | 213000 | ID50 | 242 DEX | 66E/X,EE/X | 239DEC | 1001ZE/X | 239 PDE | 3000E/D | 239DEC |
| AT4410E | 201DEM | LSN400R | 201DEX | TP112XE | 201DEX | KX100/III | 239PDE | $66 L E / X$ | 239DEC | 1100MS | 239 DEC | 3000E/II | 239PDE |
| AT4411E | 200 DEC | LSN500R | NR | TP112Sa | 201 DQX | ${ }_{\text {LAC75 }}$ | 242 DLAC | 6 GPE/ $X$ | 239PDE | $11005 L X$ | 239DET | 300E/III | 239PDE |
| AT4411EP | 201 DEX | LT101 | 212DE | TP114Sa | 2010 D | LS5000 | 239DEC | 66QE/X | 239 PDEE | 1800 | 239 DEC | $3000 \mathrm{E} / \mathrm{Z}$ | ${ }^{2399} \mathbf{2 3 5 E T}$ |
| AT4412XE | 201 DEX | LTII1 | 212 DEC | TR410 | $20686 C$ | LS6000 | 239PDE | 67E/1 | ${ }^{2391}$ |  | 2399 23D7C | ${ }^{3000 \mathrm{ME} / \mathrm{X}}$ | ${ }^{2399 P D E}$ |
| AT4414S | 201 DQ | LT121 | 212 DET | ${ }_{\text {TR411 }}$ |  | LT6 | 241DE |  |  | 2000 /V/VII |  |  | 239DEC |
| AT5000 | 200DEC | ${ }_{\text {LT131 }}$ | ${ }_{212 D E L}$ | TR420E | ${ }^{200 D E C}$ | LTD150 | 243D6 | 67E/IV | 241 DEE | 2000E/X | 239DEC 239DEC | 3000MKI | 239PDE |
| ATS000SE AT5011E | ${ }_{2}^{213 D 6 C}$ | LT211E/U | 212 DEC | TR430E | 201DEX | LTD200,280 | 2420DE | 77-D4 | 239DE | 2000 ED | 239PDE | 3000MK III | 239PDE |
| ATS5011E | 200 DEC | M12E | 200DET | TR431U | ${ }^{213185 C}$ | LTD290,490 | 245DE | 80NE | 242 DET | 2000ME/XIII | 239PDE | 3000 MKV | 239 DEX |
| ATS013E | 201 DEM | M12EU | 212 DE | TR440SX | 20100 D | LTD 400,480 | 241DE | 100MKII | 239 DEC | 2000 MKI | 239 DEC | 3000 MS | 239PDE |
| ATS5013E | 201 DEM | M13E | 201 DEM | TR441U | 213D6C | LTD450,500 | 242DEX | 120XE | ${ }^{239} 9$ DEC | 2000MKIII | 239 PDE | 3000 Ph V | ${ }^{2399}$ DE |
| AT5100E | 201DEX | M13EU | 212DET | TR4450 | ${ }_{212 \mathrm{DE}}$ | LTD455 | 243D6 | ${ }_{140 \mathrm{XE}}{ }^{\text {N }}$ | 239 PDE | 2000 PE | 2399 DEX | 3000 PPP C $3000 \mathrm{TE} / \mathrm{X}$ | 239DET |
| AT5500ED | 201 DEX | M14EU | 212 DEL | ${ }^{\text {TR450E/LT }}$ | ${ }_{213 D}^{212 D E}$ | LTD550,580 | 242DET | ${ }_{166 \mathrm{BB}}^{140 \mathrm{C}}$ | ${ }^{\text {2390) }}$ | $200005 \mathrm{~S} / \mathrm{X}$ | 239DEC | ${ }^{\text {3000 TE/X }}$ 300xLE | 239PDE |
| AT7000 | 200DET | ${ }_{\text {M14LLCU }}^{\text {M14LC }}$ | NR 212DEI | TR451U | ${ }_{21213 D E C}$ | LTD750,780 | 242DLAC | ${ }_{185 \times L T}$ | 245D6 | 20007 TE / | 239DEX | 3000ZE | 239DEX |
| AT7070xE AT7110 | 200D7C | MACHI | 200D7C | TR4615X | 201 DQX | Model Two | ${ }^{239 P D E}$ | 200E,SE/X | 239 DEC | $2000 \mathrm{TE} / \mathrm{X}$ | 239 PDE | 3001 | 239DEC |
| AT7111E | 200DEC | MACH II | 201 DEX | TR465 | ${ }^{212 D E C}$ | MC5M | NR | $200 . \mathrm{E}$ | 241DE | 2001AE/X | 239 PDE | 3003EE EEE | 239 PDE |
| AT8000E | 200 DEC | MG200E | 200DEC | TR470E/LT | 212 DET | MK I/C | 239D7C | 200E/X | 239DEC | 2001E/X | 239DEC | 30039 C | 239PDE |
| ATB800EX | 200DET | MG200E/H | 200DEC | TR475U | ${ }^{212}$ DET | MK IE | 239DEC | 2005 | 239DET | 2001MKI | 239 DEC | 31005 | 239DEX |
| ATG11E | 200DEC | MG400E/H | 201DEX | TR485U | ${ }^{2120] E L}$ | MK IINE | 239 PDE | 200 X | 239DEX | 2001 MKIII | 2399 PDE | 31007E | 239 DET |
| ATG12Sa | 201DDX | MKI2SII | 201000 | USA5,7,9 | ${ }^{2135 D C C}$ | MK IV | 239 DEC | 220XE/III | 239PDE | 2001MKV 2001 T | 239DET | 3300 MS $3500 \mathrm{E} / \mathrm{II}$ | 239PDE |
| ATG13Ea | 202DEM | MK14SII | 20100 | VS200 | 206 DCC | MK IV-E | 239PDE | ${ }_{240 \mathrm{E}}^{222 \mathrm{E} \text { III }}$ | 239PDE | ${ }_{2001 \mathrm{~L} / \mathrm{II}}^{2015}$ | 239DET | 3500E/III | ${ }^{2399 P D E}$ |
| ATLT1 | 213D6C | MS1100E | 200DEC | VS210E | 200DEC | MK V | 239DEX | 240 E | 242 DE | 20017/II | 239DEX | 3500/2-11 | 239 PDE |


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## SECTION IV

NEEDLE IDENTITY BY SET-MAKER'S GARTRIDGE NUMBER


| SHURE <br> (Continued) | Our No. | SHURE <br> (Continued) | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ | SHURE <br> (Continued) | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ | SHURE <br> (Continuod) | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ | SHURE (Continued) | $\mathrm{Our}$ <br> No. | MLVIRIO | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ | SEARS (Continued) | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CA-T1 | NLA | IC-400 | NLA | M9IITE | 761 LED | R2AECEED,EDI | 760DE | Superiro 1 | 7TODEC | We have | ted the | 89331 | 629DQ |
| CA-2 | NLA | JD-1 | NLA | M9502ED | 767 DED | R2TEED | 760DED | SuperPro 4 | 770DEC | last digit | of the | 89333 |  |
| CA-3 | 770DEC | JR-1 | 761DED | MA10 | 774 DEj | Rateb,ED | 760DEJ | Super 7 | NLA | Sears If fo | larlty. | 8934 | M853 |
| CA-4 | 770DEC | JR-2 | 767DED | MA20 | 774DE | ${ }_{\text {R }}$ | 760DED | 5X70 | 774DEj | Numbert | ing lin: | 8935 | 629D7 |
| CD-1 | 774DE | K747 | 761DED | Magnum 1 | 770DEC | R1000E | 761DED | ${ }_{\text {T1000 }}$ | NLA | 1=D1 | D7 | 8936 | M854 |
| CD-5,7 | 774DE | LI9ED | 774DEI | Magnum 2 | NLA | R9000E, LWS | 767DED | TM4E | NLA | $2=0$ |  | 8938 | 719 |
| designer S | eriea | L96H | 774DE | MarkV | TTODEC | RD101,191 | 760 DED | TM5E,7E | NLA | 3=S or |  | 8939 | M853 |
| ED |  | LA560 | NLA | MCK15 | 770DEC | RD291 | 761DED | TR50 | 774DEJ | 5700 | 805 | 8942 | 11107 C |
| HE |  | LDE | 774DE | MCK25 | 770DEC | RM98H | NLA | TR80 | 774DEJ | 5701 | 700 | 8963 | 617 |
|  |  | Loran 100 | 761DED | MD192 | 770DEC | RM900E | 761DED | Trac 1 | 770DEC | 5705 | 358 | 8944 | 704D7 |
| Following are | full part | Loran 400 | NLA | MD195 | 770DEC | RM910E | 760DE | Trac 2 | 770DEC | 5707 | 808 | 8946,47 | 711 D 7 |
| nos. |  | LP924 | 770DEC | ME103,109 | 770DEC | RM910ED | 761 DED | TS55 | 770DEC | 5723 | 809 | 8948 | 710.07 |
| D15DX | 770DEC | LP928 | 770DEC | ME908D | 760D7 | RM930C | 760 D 6 | TS75 | 770DEC | 5726 | 804 | 8999 | 617 |
| D100 | 774DEJ | LTD | T70DEC | ME909D | 760 DEJ | RM950ED | 767DED | TXTE | 768DE | ${ }_{578081}^{5736}$ | BASS 800 | Followi | SEARS |
| D200 | 774DE | Master EC1 | 770DEC | ME910ED | 760DED | RS3T | 760DE | TX9E | 767DED | 5780,81 578283 | 800 800 | Factory | S |
| D300 | 774DEJ | Master ED2 | T70DEC | ME910EJ | 768DE | RS5T | 760DE | UlTRA 300S | 777DHE 777 DHX | 5784,85 | 801 | 13096,13134 | 700 |
| Disco Trak | 770DEC | Master HE3 | NLA | ME915D | 767DED | RS6E | 760DE | Ultra 4000 S | 773DHE | 5786 | 352 | 15519 | 700 |
| DJ151,950 ${ }^{\text {DM101, } 103}$ | 770DEC | M8VE | 774DEJ | ME930ED-II | 770DEC | RS89 | 767 DED | USA-1 | NLA | 5787,88 | 941 | 17122 | 557 |
| DS Mod. 2 | 770DEC | M14NE | 770DEC | MG956 | 770DEC | RS100 | 757D7 | UT100 | 770DEC | 5789,92,95 | 702 | 18973 | 700 |
| DS Mod. 4 | 770DEC | M17CM | 4749D7 | ML51 | 774DEJ | RS120E, 220E | NLA | VE20 | 774DEJ | 5790,93,\% | 885 | 19545 | 369 |
| DS10,90 | 774DEJ | M44R | 759D7 | M075 | 760DE | RXT4 | 771DHE | VE30 | 774DEJ | 5797,98,99 | 885 | 19691 | 164 |
| DS20 | 774DE] | M73PE | NLA | MO91ED | 760DED | RXT5,6 | 773DHL | VH50 | 774DEJ | 5800 | ${ }_{708}$ | 21324723506 | 369 |
| DS30 | 774DEJ | M73PED | 760DED | M095 | 767DED | 510 | 774DEJ | VIP80 | T70DEC | 5802 | 702 | 23247,23506 | 369 |
| DT-15P | 775DLT | M73PE-II | 760 DEJ | MP-1 | 770 DEC | 520 | 774DE | VIP85 | 770DEC | 5803,0 | 00 | Following | tory |
| DT-25P | NLA | M78EDT2 | 768DE | MP-2 | 770 DEC | \$30 | 774DE | VIP90 | NLA | 5808 | 460 | Nos. all h | 3- |
| DT-35P | NLA | M83PED | 767DED | MP-3 | 770 DEC | 576E | 768DE | W59 | 774DEJ | ${ }_{5813}^{5811}$ | ${ }_{885} 808$ | prefix: |  |
| DU10-M75E | 760DED | M98/A | 759D7 | MP-4 | 770 DEC | S96E | 7770DEC | W950ED | 767DED | 5813 5814,15 | 885 700 | 234,235 | 800 |
| EAGLEA | 770DEC | M98EDT2 | 767DED | MP-5 | NLA | S98ED | 7770DEC | WC975 | 761DED | 5814,15 5818,19 | 700 | 265,276,285 | 700 |
| EAGLEX | 770DEC | M075 | 76 | MPR ${ }_{\text {M }}$ | NTODEC | ${ }_{\text {S330] }}$ | 7774DE] | WCS-1 | NTAD | 5823,25 | 365 | 286 | 802 |
| E92MA,94MA | 770DEC | M095 | 767DED | MRDE | 770DEC | S400E | 770DEC | WCS3 | NLA | 8800 | 164 | 294 | 700 |
| E96M | 774DE | M100 | 774DEJ | MS15E | 770DEC | 5420 | 774DED | WIZ44 | 770DEC | 8827 | 332 | 299,300,304 | 352 |
| E98M | 774DEJ | M101EG | 760DED | MS35E | 770 DEC | S854E | 770DEC | $\times 10$ | 774DEJ | 8836 8850 | 369 | 308 308 | 700 |
| E745 | 768D6 | M105EG | 767DED | Omni | 770 DEC | S600 | 770DEC | X30 | 774DEJ | ${ }_{8851} 885$ | 700 | 310,311 | 352 |
| E945 | 767DED | MIIOE | 768 DE | P3EC | NLA | SB19DE | 761DED | $\times 50$ | 774DEJ | ${ }_{8851}^{8851}$ | 604 | 312,316 | 702 |
| E1001 | 770DEC | M112EJ | 760DE] | P4EJ | 760DE | SBEOE | 776DEC | ${ }^{\mathbf{X 1 0 0 , 1 0 0 E}}$ | 760DEJ | 8852 8853 | 0854 |  | 804 |
| E1002 | T70DEC | M115ED | 767DED | Phase 1000-4 | 761 DE | SB59DE S880H | 767DED | X555,666 $\times 777899$ | 774DEJ | 8853 8854,55 | ${ }_{\text {S854 }}$ | 319,326 | NLA |
| E1005 | 770DEC | M125 | $774 \mathrm{DDE]}$ | PM72 | 774 DEJ | S880H | NLA ${ }^{\text {774DE }}$ | X 777,899 XLT-2 | 7770 DEE ¢ | ${ }_{8856}^{884}$ | S853 | 323 | 702 |
| EA-I | T70DEC | M190ED | 774DEJ | PM95 | NLA ${ }^{\text {74D }}$ | SD22,S2,55 | 774DE] | ${ }^{\text {XLIT }}$ - | 770DEC | 8857 | 373 | 331 | 352 |
| EA40 | 774DE | M192 | 774DE | PR7575E | 768DED | SD7753 | 774DE] | XM10, Y999 | 774DEJ | 8858,60 | 1853 | 333 | NLA |
| EA80 | 774DE | M195 | 774DE] | PR9595E | 767DED | SDS1,4 | 774DEJ | 2757ED | 760DEI | 8859 | 0854 | 341,3 | 808 |
| EC11 | 761DED | M200ED | 760DED | Premier Se |  | SE69 | 774DEJ | Z959ED | 767 DED | 8861 | 272 | 343 | 880 |
| EC22 | 767DED | M250ED | 767DED | , |  | SE99 | 774 DED | ZX-1E | 770DEC | 8862 | 5853 | 351352 | 352 |
| EC81 | 774DE | M290E | 7600 EJ | Black | 760DED | SE711 | 770 DEC | ZX-3E | 770 DEC | 8863 | O855 | 370,376 | 358 |
| EC82 | 774DEJ | M291ED | 760DED | Green | 760DEJ | SE722 | NLA |  | 770 DEC | ${ }_{8865,67,68}$ | 0854 369 | 378,379 | 808 |
| ECO95ED | 767DED | M295ED | 767 DED | Green Beige | 768DE | SH4E | 774DEJ 770DEC |  | 774DEJ | ${ }_{8866}^{8865,68}$ | 369 373 | 392 | 809 |
| ED2735 | 774DE | M375E] | 760 DEJ | Beige Yellow | 768D6 | Sigma | 770DEC | 287 | 7744DEJ | 8866 8869 | ${ }^{37}$ | 393,394,395 | 365 |
| Ej10,47 | 774DEJ 768 DE | M391ED | 7600 CD |  | 767DED | SL25E | 770 DEC | 9SEJ $17 \mathrm{MK6}$ | NLA | ${ }_{8870} 886$ | M854 | 405,406 | 809 |
| EL965 | 767DED | M491ED | 760DED | Following are nos. | full part | SL-5 | 774DEJ | 24-0003 | 757D7 | 8871,75 | 164 | 408,411 | 365 |
| ES-5 | 774 DEj | M495ED | 767 DED |  |  | SL95 | 760 DED | 24-0044 | 759DE | 8872,76,79 | 5854 |  | 809 368 |
| ETS-109E | 760DED | M575EJ | 760DE] | Prestige 1 | 770 DEC | 50515 | NLA | 42-238 | 757D7 | ${ }_{8}^{8873}$ | 272 | 413,414 | 368 164 |
| F3 MK III | 760D7 | M591ED | 760DED | Prestige Prestige | 770 DEC | 50572 | 770 DEC | 89 E | 768DE | 8874 | ${ }_{369}^{\text {M85 }}$ | 422,423,425 | 368 |
| FORMULA 1 | 770DEC | M595 | 767 DED | Prestige 4 | 770 DEC | SO595 | 770DEC | ${ }^{96 \times E}$ | 770 DEC | ${ }_{8880}^{88778}$ | 369 166 | 448,449,453 | 369 |
| PORMULA 2 | 770DEC | M700EX | 760 DEI | PRM96 | 770DEC | SoundPro 10 | 770DEC | ${ }^{98-\mathrm{D}, 1005}$ | 7744DEJ | 8881 | 272 | 451 | M854 |
| FORMULA 3 G2000 | 770DEC | M705EX | 760 DED | PRM98 | NLA | Sound Pro ${ }^{20}$ | 770DEC | ${ }^{\text {158, }}$ 1006 | 774DEJ | 8882,83 | 164 | 456 | 169 |
| G2000 $\mathrm{G4000}$ | 770DEC | M752ED | 7600 ED | Pro-1 | 770DEC | Spec-1 | 770DEC | 191E,200 | 774DEJ | 8884 | 169 | 460,461,462 | 369 |
| G5000 | NLA | M901AK | 761 DED | Pro-3 | 770DEC | Spec-2 | 770 DEC | 200E | 770 DEC | 8885,8886 | 369 | 464,465 | M856 |
| Gamma 60 | NLA | M905AK, EX | 767 DED | - | 774DE] | Spec-40 | 770DEC | 2025 | 774DEJ | 8888,8889 | 365 | 466 | 369 |
| Gauchos 69W | 770DEC | M911ED | 760DED | Pro-5 | 770DEC | Spec-61 | 761 DED | 375DE | 760DED | 8890 | 462 | 467,468 | 164 |
| GE | 774DE] | M912ED | 761DED | Pro-5 SHE | ${ }_{7700}$ | Spec-90 | NLA | 395DE | 767 DED | 8891 | ${ }_{7} 702$ | 470,484 | 373 |
| GH | 774DE | M919ED | 761 DED | ${ }_{\text {Pro-6 }}^{\text {Pro-78 }}$ | 7770 DEE | Spec-100 | 770 DEC | 400E | 770DEC | ${ }_{8894} 889$ | 557 | 480,482 | 557 |
| GJ | 774DE | M922 | 760 D 7 | Pro-7, Pro-9 | NLA ${ }^{\text {a }}$ | Spec-200 | NLA | 445 | 770 DEC | 8894 8895 | $\begin{array}{r}332 \\ 358 \\ \hline\end{array}$ | 486 | 0855 |
| GS10 | 774 DEJ | M922E | 760DE | Pro-10 | T7DEDE | Spec-300 Spectra III | NTADEC | 470MS | 768DE | 8899 8896 | 164 | 487,495,496 | 369 |
| GS30 | 774DEJ | M951ED | 767DED | Pro-11 | 770 DEC | Spectra II | NLA | 600 H | NLA | 8897 | 809 | 492 | 371 |
| GS40 | 775DLT | M952ED | 767DED | ${ }_{\text {Pro-22 }}$ | ${ }_{7 T O D E C}$ | Spectra I | NLA | 700sx | 770DEC | 8900 | 374 |  | Our |
| G1750 | 770DEC | M954ED | 767DED | ${ }_{\text {Pro-23 }}$ | NTA ${ }^{\text {N }}$ | SPS Series: |  | 755 | 770 DEC | 8901 8902 | ${ }_{369}$ | Syivani | No. |
| GT950 | 770DEC | M959ED | 767 DED | Pro-33 Pro-44 | N7ODEC | Brown | 770DEC | ${ }^{757 \mathrm{EJ}}$ | 768DE | 8902 8903 | 369 864 | Following h | e 21 |
| GT1500 | NLA | M960 | 774 DEj | Pro-95 | 767DED | Orange | 7700 DEC | 9907 AK | NLA | 8904 | 274 | prefix: |  |
| H947 | NLA | M980 | 774 DEE | Pro-1000 | 770DEC | Blue | 770 DEC | 955 | NLA | 8905,07 | 0854 |  |  |
| HE5T | 774DEJ | M991ED | 760DED | Pro-2000 | 770DEC | Green | NLA | 965 | NLA | 8906 | 0853 | 0005,0006 | 700 |
| H-TECHI | 770DEC | M992E | 760DE | Pro-3000 | 770DEC | Black | NLA | 2214,2234 | 760DE | ${ }_{8908}$ | S853 | 0007,0009 | 800 |
| HI-TECH II | NLA | M993EJ | 760DEJ | Pro-7000 | 770DEC | SPS40,1001 | 770DEC | 2215,2225 | 762DE | 88909 | S855 | 0008 | 702 |
| HI-TECH III | NLA | M995ED | 767DED | ProTrack 100 | 770DEC | ${ }_{\text {SPSS200 }}$ | 770DEC | ${ }_{50005}$ | 7770 DEC | ${ }_{8911,15,17}$ | 273 | 0011 | 270 |
| HT-1 | 761DED | ${ }_{\text {M1000E-3 }}$ | NLA | ProTrack 300 | NLA | SPS3001 SRC10 | NTA | 5000S | N70DEC | ${ }_{8912,16}^{8911,17}$ | S853 | 00120013 | NLA |
| HT-1A | 770DEC | M1000E-3 | NLA ${ }_{\text {768 }}$ | PP90E | 770DEC | SRC10 | NTAL | ${ }^{75005}$ | 768DE | ${ }_{8913}$ | 863 | 0016,0018 | 702 |
| HT-3 HT-4 | 770DEC | M2000E | 768DE | PS100 | 770 DEC | SRC40 | NTODEC | 9000,9001 | 774DEJ | 8914 | M853 | 0017,0019 | 700 702 |
| HT9ES | 761DE | M2020ED | 767DED | PSM15 | NLA | SRC8O | NLA | 9500 S | NLA | 8918 | S854 | 0021,0024 | 700 |
| HTE | 760DED | M2270EH | 760DEJ | PSM ${ }^{\text {PSM }} 9$ | 770DEC | SRC85 | NLA | 9756C | 768D6 | ${ }_{8921} 8919$ | S855 | 00022 | 841 |
| HTE1 | 774DEJ | M2291EH | 760DED | PSSM93 | 770 DEC | ST1 ${ }_{\text {STA }}$ | 774DEJ | 9758ED | 760 DED | ${ }_{8923}^{8921}$ | \$883 | 0025,0026 | 700 |
| HTEA | 774 DEJ | ${ }_{\text {M3050sW }}$ | 760DED | PT1A,99 | 774 DEJ | STA70 | 770DEC | ${ }^{\text {9910ED }}$ | 761DED | ${ }_{8924}$ | 863 | 0027,0028 | 700 |
| Hudsons 4 | 770DEC | ${ }_{\text {M }}^{\text {M }}$ (0002ED ${ }^{\text {a }}$ | 767DED | PT901E | 761 DED | STA80 STA00 | NTA | 10050 | 7700 DEC | 8925 | 110DET | 0029 | ${ }_{804}$ |
| Hudsons 6 IC-100 | NT7A ${ }^{\text {Nabe }}$ | M7002ED | 760D ${ }^{7}$ | Purist 3A | 770 DEC | STX5 | 770DEC | 1005 |  | 8926,28 | M854 | 0001 | ${ }_{700}$ |
| IC-200 | 770DEC | M7500ED | 760DED | Purist 5A | 770DEC | STX10 | 770DEC |  |  | 8927 | 761 DED | 0032 thru | 72 |
| IC-300 | 770DEC | M9095ED,EX | 767DED | R 7 C | 760D6 | STX20 | 770DEC |  |  | 8930,31,32 | 700 | 0036: | 700 |


| sylvania （Continued） | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ | V－M <br> （Centinued） | Our <br> No． | V－M <br> （Continued） | Our <br> No． | V－M （Continued） | Our No． | $\begin{aligned} & \text { V-M } \\ & \text { (Continued) } \end{aligned}$ | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ | ZENITH （Continued） | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0037 | 460 | 4918 | 150 | 29288 | 462 | $4503 \% \mathrm{C}$ | 374 | V－167 | 0854 | 142－123 | 461 |  |
| 0038，0039 | 461 | 4928 | 751 | 29564 | 464 | 45106B，C | 5854 | V－168，69，70 | S854 | 142－124．125 | 700 |  |
| 0040 | 700 | 5172 | 151 | 30013 | 700 | 45106D， E | 5855 | V－171 | S855 | 142－126，127 | 8\％ |  |
|  |  | 5403 | 150 | 30085 | 164 | 45106F | 5853 | V－172，173 | S854 | 142－128 | 896 |  |
| 954－0025 | 700 | ${ }_{5636}$ | 752 | ${ }^{30576,77,80}$ | 365 | 45107A，B，${ }^{\text {d }}$ | S855 | V－180 thru |  | 142－133，134 | ${ }^{462}$ |  |
| Following have | ve 11. | 5636 | ${ }_{6}^{641}$ | 31167 | 465 | 45102C， P | ${ }_{\text {S885 }}$ | 191： | S854 | 142－136，137 | 89\％ |  |
| prefix： |  | 5639 5745,5866 | ${ }_{\text {BAS }}$ S | 31665 31613,15 | 164 | ${ }_{45107 \mathrm{~N}}^{45}$ | $\begin{aligned} & \text { S855 } \\ & \text { S854 } \end{aligned}$ | Wh：SIING－ | Our | 142－138，140 | 89 896 |  |
| 10328－1，2 | 700 | 5799 | 153 | 31688，31961 | 367 | 45108 | S854 | Houst | No． | 142－143 | 896 |  |
| 10328－3，7 | 700 | 6045，6344 | 700 | 33701，33861 | 463 | 45109A，B | S854 |  |  | 142－144，145 | 164 |  |
| 10328－8 | NLA | 6115 | 156 | 35130 AB | S854 | 45109C，D，N | S853 | 6770．514M | 159 163 | 142－146，147 | 702 |  |
| 10328－9 | ${ }^{1853}$ | 6348 | BASS | 3534\％${ }^{\text {che }}$ G | O854 | 45109 E thru |  | 6701．514M03 | 164 | 142－148，149 | 164 |  |
| 10329－2，15 | 164 | 6394 | 153 | 35469 A | S854 | M： | S854 | 670L519M01 | 808 | 142－150，151 | 897 |  |
| 1032－4 | 159 | 6649 | 156 | 35469B，C，D | 5855 | 45109P，S，U | S853 |  |  | 142－152，153 | 702 |  |
| $10329-16$ | 165 | ${ }^{6655,6714}$ | 751 | $35621 \mathrm{BB,C}$ | S856 | 45109R，T， X | S854 | Following hav | e 677 VO | 142－154 | 1853 |  |
| 10329－18 | 163 | 6749 | 154 | 3591835277 | 5855 | 45109V．W | 0854 | as their 13t five | edigits： | 142－155 | 365 |  |
| ${ }^{14158-1}$ | 700 | 6751 | 156 | 36288A | 5855 | 45122 | 557 | 01H02，02H02 | NLA | 142－156 | 272 |  |
| ${ }^{141596-1}$ | 164 159 | ${ }_{731681}^{6987}$ | 751 800 | 36470 A | ${ }_{\text {L853 }}$ | $45139 \mathrm{~A}, \mathrm{~B}$ | ${ }^{373}$ | 04 HO | 802 | 142－157 | 702 |  |
| 14161－1 | 159 | 7316，7477 | 800 | $36470 \mathrm{~B}, \mathrm{C}, \mathrm{D}$ | L855 | 45139D，E | 375 | $04 \mathrm{HO2}$ | 800 | 142－159 | L853 |  |
| 14162－1 | 603D7C | 7447，7825 | 700 | $36470 E_{\text {EF，G，J }}$ | ${ }^{1} 854$ | $45140 A A C A D$ | S854 | 04 HO 4 | 911 | 142－160 | 365 |  |
| 14353－1 | 700 | 7686 | BASS | 36470K | 897 | 45140AA，AE |  | 04405，04H06， | 700 | 142－161 | 700 |  |
| $14699-1$ | 164 | 7949，9004 | 154 | 36470，M，MS | $\underline{L 553}$ | AF，AG： | S853 | 04H07 | 702 | 142－162．164 | L854 |  |
| 14701－1 | 164 | 9120，9121 | 700 | $36470 \mathrm{P}^{\text {，}}$ Z | $\underline{L 555}$ | 45140AH，AU， |  | 04 H 08 | ${ }^{271}$ | ${ }^{142-163}$ | 897 |  |
| 14702－1，3 | 165 | 9138 | 754 | 36470 U | $\underline{L 53}$ | AW，AX： | S854 | 04H09，04H10 | 700 | 142－165 | 272 |  |
| 14703－1 | 163 | 9168，9234 | 700 | 36470W，Y | L854 | 45140AN，AP， |  | 09 HO | 804 | 142－166，168 | 897 |  |
| 14704－1 | 604D7C | 9288，9468 | 154 | 364704 AAC | 1853 | AV： | ${ }_{5}^{5855}$ | 09\％${ }^{\text {O2 }}$ | 700 | 142－167 | ${ }^{898}$ |  |
| 14716－1 | 163 | 9511 | 154 | 36470AJ，AR | 1854 | 45140B，C，F | S855 | 09 HCO | 702 | 142－169 | 1853 |  |
| 14883－1 | ${ }^{604577}$ | 9543 | 150 | 36470AS，AU | 1854 | $45140 \mathrm{E}, \mathrm{G}, \mathrm{H}, \mathrm{J}$ | S854 | 10H01，10HO2 | 700 | 142－170，171 | 272 |  |
| 18250－1，2 | 365 | 9590 | 754 | 36470 AT，AV | 1855 | 45140 K N，P | 5853 | 10 HOB | 702 | 142－172 | 369 |  |
| 18254－1 | 165 | 9655，9777 | 700 | 36477 | 1853 | 45140L，M，V，W | S854 | 11 HO | 700 | 142－173 | 5854 |  |
| 18259－1 | 165 | 9930 | 154 | 36487A，B，F，G | S854 | 45140 RS | S853 | 12 HO | 616 | 142－175 | L854 |  |
| 18561－1 | ${ }^{60407 M}$ | 14432 | 153 | 36487D， E | S855 | 45140T，U，X，Y， |  | $12 \mathrm{HO4}$ | 808 | 142－178 | 273 |  |
| 18939－1 | 604D7C | 14456 | 802 | 3653736538 | S854 |  | S855 | 13H02，13H03 | 808 | 142－179，181 | 274 |  |
| 22322－1 | $604 \mathrm{DD7}$ T | 14626 | 700 | 3736437577 | S854 | 45163A，AA， |  | $20 \mathrm{HO}, 20 \mathrm{HOS}$ | 808 | 142－182 | 899 | ๑ |
| 22463－1 | 604D7T | 14843 | 754 | 37634A，C，J | S854 | AB | M854 | 21H01，21 HO | 808 | 142－185 | S854 | $\geq$ ¢ |
| 228771 | $604 \mathrm{D7T}$ | 14877，14900 | 911 | 37637B，D，E | S855 | 45163AC，AE， |  | $21 \mathrm{HOO}, 21 \mathrm{HCO}$ | 462 | 142－186，187 | M854 | $\geq$ Ш心 |
| 26259－1 | M855 | 14918，15258 | 700 | 37634F，G， H | 5855 | AD，AG： | M853 | 21 HM | 616 | 142－189 | 760 D 6 | $z \leq 0$ |
| 26599 －1 | M856 | 15039，15242 | NLA | ${ }^{37635 A}$ | M854 | 45163 AF | M854 | 21 A0S | 465 | 142－190，191 | M854 | ○＜ |
| ${ }^{26626-1}$ | M854 | 15480 | 508 | $37635 \mathrm{C}, \mathrm{F}$ | M855 | $45163 \mathrm{~B}, \mathrm{CM}$ | M853 | 24H01，2，3，4 | 462 | 142－192，193 | M854 | $\stackrel{F}{\square} \times$ |
| ${ }_{26627-2,3}$ | M854 | ${ }^{16618,30,33}$ | 911 352 | ${ }_{38349 \mathrm{C}}^{\text {3834，}}$（，G | 0855 0854 | 45163N，R，T $45163 \mathrm{P}, \mathrm{V}, \mathrm{W}$ | M853 | ${ }^{24 \mathrm{HO}} \mathbf{2} 5$ | 465 462 | $142-194$ $142-195$ | 760D6 | ט |
| 26645－1 | 604D7C | 16708 | 804 | 38362 | 0856 | ${ }_{451635}{ }^{\text {a }}$ | 0853 | 26B02，26B05 | 462 | 142－196 | 760DE $]$ | い い い |
| 28301，28302 | S654 | 16729 | 800 | 38605A50 | S854 | 45438 | 760 D 6 | $26 \mathrm{HO}, 24$ | 465 | 142－197，198 | M854 | のいく |
| 28473 | S854 | 16744 | 359 | 38619 | 863 | 45440A，B， C | 373 | 28A01，28B01 | 463 | 142－199 | M854 |  |
| 23652 | ${ }^{675077 M}$ | 16855，860 | NLA | 38676 | S855 | 45440D，EF | 375 | $28 \mathrm{B02,28H02}$ | 463 | 142－200 | 760072 |  |
| 28657 | 759D7 | 17529，18444 | 700 | 38863A，C | S855 | 45756 | 375 | 29A01，31A01 | 272 | 142－201，202 | M854 |  |
| 32399 | S854 | 18464 | 911 | $38863 \mathrm{~B}, \mathrm{E}$ | S854 | SN－2 | M854 | 35 A 01 | 462 | 942－100 | 111D7C |  |
| 32751 | M854 | 18615，18639 | NLA | 38863 D | S853 | $\mathrm{V}-1,2,6,7,9$ | S854 | 37801 | 163 | 942－239 | 710 D 7 |  |
| 32752 | S854 | 18618 | 702 | 39363 | M854 | V－4，5，8，10 | S855 | 38801 | S854 |  |  |  |
| 32753 | S854 | 18682 | 290 | 3967640184 | S855 | V －11，12 | S855 | 39801，39B02 | S854 |  |  |  |
| 34059.1 | 274 | 18696，18792 | NLA | 40177 | 373 | V－13，14 | 5855 | 39803 | 5853 |  |  |  |
| ${ }_{251300071}$ | ${ }_{793}^{21107}$ | 18697，18698 | ${ }_{700}^{911}$ | 41542A， $\mathrm{D}, \mathrm{E}, \mathrm{F}$ | S855 | $\mathrm{V}-15,20$ | ${ }_{\text {S854 }}$ | 40101，40B02 | 272 |  |  |  |
| 25130078，122 | ${ }^{7931} 7$ | 18973 | 700 | ${ }_{415415}$ | S854 | V－21，23，24 | S855 | 41301 | 5854 |  |  |  |
| 256903\％ | 710D7 | 19387，19737 | NLA | 41715 | 760D6 | V －22 | 5854 | 42301 | 272 |  |  |  |
|  | Our | 19464 19730 | M11 | 42106 42125 | 940 S853 | V－25 | S853 S84 | 42302 | $\begin{aligned} & 273 \\ & 700 \end{aligned}$ |  |  |  |
| V－M | No． | 19786 | ${ }_{114}$ | 42625 | 0855 | V－47 | 5855 | 672 V 008 H 06 <br> 672V003H08 | $\begin{aligned} & 700 \\ & 700 \end{aligned}$ |  |  |  |
| ${ }^{0-394,0-410}$ | 700 | 19814 | 892 | 42888A，E，H | M855 | V－48，49 | S854 |  |  |  |  |  |
| 649 | ${ }_{752}$ BASS | 19828 | 702 358 | 42818 B | ${ }^{1854}$ | V－53，54，55 | S854 |  | e digits： |  |  |  |
| 649L， 649 N | 752 | 19922 | 358 358 | 42818 D | M853 | V． 61.82 | ${ }_{5853}$ | as their 1st five | e digits： |  |  |  |
| 1281，1282 | 752 | 20762 | 358 | 42818L，R，U | M855 | $\mathrm{V}-80,81$ | S855 | 18H58，62，63，64 |  |  |  |  |
| 2404 | 352 | 20703,20995 | 7008 | 42818 N ． P | M854 | V－83，84 | 5855 | ${ }_{21 \mathrm{H} 07}{ }^{\text {a }}$ | 702 |  |  |  |
| ${ }_{2753}^{2606}$ | 752 156 | 20855，21400 | ${ }_{700}^{700}$ | 42818 S 428708 |  | $\mathrm{V}-86,87$ $\mathrm{~V}-9094$ | O854 | 21H40，49，51 | 700 |  |  |  |
| 2063，2816 3063，3182 | 156 752 | 2149，21499 21688 | 700 352 | 42870 42870E | M853 S854 | V－90，94 $\mathrm{V}-92$ | S8554 | 23405 | 804 |  |  |  |
| 3137，3168 | 156 | 21794 | NLA | 42870F，G | S855 | V－93 | 5853 | 25 H 28 25 H 29.25 H 30 | ${ }^{465}$ |  |  |  |
| 3239 | 880 | 21965 | 462 | 42870 H | M854 | V－105，106 | 5854 | 25H82， 25 H 83 | 700 |  |  |  |
| 3345 3368 | 154 | ${ }_{21591121213}$ | NLA | ${ }^{430090}$ | M854 | V－107，108 | 5853 | ${ }_{25}{ }^{\text {H } 87}$ | 5854 |  |  |  |
| 3368 | 751 | 21592，93 | NLA | 43039G，K， S | S854 | V 109 thru |  |  |  |  |  |  |
| 3370 3373 | 156 752 | 27263,22811 22867 | 461 159 | ${ }^{43039} 4$ | S855 S853 | ${ }^{\text {116：}} \mathrm{V}-117,118$ | S854 S853 | ZENITH | Our No． |  |  |  |
| 3384 | 350 | $22891 \mathrm{~A}, \mathrm{~B}$ | 460 | 430708， C | S855 | $\mathrm{V}-119,121$ | 5854 |  |  |  |  |  |
| 3399 | 885 | 22891 C ，D | ${ }^{461}$ | 43099A | M854 | $\mathrm{V}-120,122$ | 5853 | $\begin{aligned} & 142-71,72,73,74 \\ & 142-76,77 \end{aligned}$ |  |  |  |  |
| 3411,3415 3443 | 752 150 | ${ }_{2}^{22943} \mathbf{2 3 1 2 3 5 3 8}$ | 461 700 | ${ }_{\text {43099 }}^{4309 \mathrm{C}, \mathrm{E}, \mathrm{F}, \mathrm{G}}$ | L854 M855 | V－123，124 | O854 | 142－76，83 142－80，83 | NLA |  |  |  |
| 34143 3455 | 755 | 23431，23538 23859 | 700 462 | $43099 \mathrm{C}, \mathrm{E}$ 4309 H | M855 M853 | V－125，130 | S854 $\mathbf{5 8 5 3}$ | 142－81 | 154 |  |  |  |
| 3500 | 156 | 23960 | 460 | $43151 \mathrm{~A}, \mathrm{~B}, \mathrm{D}$ | S855 | V－131，132，133 | 5855 |  | 153 |  |  |  |
| 3547 | 152 | 24016 | 461 | 43151C，E | ${ }_{5854}$ | $\mathrm{V}-134,136,137$ | S854 | 142－44，85，86 $142-87,88$ | $\begin{aligned} & 790 \\ & 993 \end{aligned}$ |  |  |  |
| 3553 | 751 | 24041 | 808 | 43151F，S，T， | S853 | V－135 | S855 | $142-90$ | NLA |  |  |  |
| 3555 3560 | 880 152 | ${ }_{24252}^{2423}$ | 700 | 43151K，L，${ }^{\text {43151PX }}$ ， | S855 5854 | V－137X，139 | 5853 5854 | $142-92,93$ | 352 |  |  |  |
| 3560 3579,3686 | 152 752 | 24257,58 24402,04 | ${ }_{159}$ | ${ }_{43174}^{43151 P, ~ X, ~}{ }^{\text {a }}$ | 5854 $\mathbf{S 8 5 5}$ | V－138，140，141 | S854 | 142－95，96，97 | 700 |  |  |  |
| 3691，3719／49 | 752 | 24643，24698 | 702 | $43630 \mathrm{~A}, \mathrm{~B}$ | 373 | V －142A， B | S854 | 142－98，99 | 702 |  |  |  |
| 3794 | 641 | 25238 | NLA | ${ }^{43630 C, D}$ | 374 | V－143，144，145： | S853 | $\begin{aligned} & 142-101 \\ & 142-102,103 \end{aligned}$ | NLA |  |  |  |
| 3797 | 152 | 25267 | 358 | ${ }^{437578}$ | 369 374 | $\mathrm{V}-146,147$ $\mathrm{~V}-148149$ | 5855 5854 | 142－105，106 | NLA |  |  |  |
| 3917 | 880 | 25292 | 808 | 43757 C | 374 369 | V－145，149 | S854 S85 | $142-107$ | 702 |  |  |  |
| 4021 | 151 350 | ${ }_{25830}^{2558,88}$ | 461 506 | ${ }^{43888 \mathrm{~B}}$ | 369 374 | V－150，51，52 | 5855 5853 | 142－108，109 | NLA |  |  |  |
| 4099，4186 | 150 | 27172，27269 | 365 | 43886 | 5856 | V－154，56，56 | S854 | 142－110，111 | 460 |  |  |  |
| 4200 | 350 | 27271，72 | 163 | 44423 | 864 | V－15758，59 | 5853 | 142－113 | 702 |  |  |  |
| 4254 | 150 | 27493 | 462 | 44626 | 371 | V －150，163 | 5854 | ${ }_{142-117}^{142118}$ | 460 352 |  |  |  |
| 4278 | 751 | 28999 | 700 | 44634 | 5854 | V－161 | 5853 | 142－117，118 | NLA |  |  |  |
| 4487 | 752 | 29011，29264 | 700 | 45013 | S853 | V－162 | O853 | 142－121，122 |  |  |  |  |
| 4845 | 880 | 29286，29290 | 358 | 45037A，${ }^{\text {B }}$ | 373 | V－164，65，66 | 5855 |  |  |  |  |  |

## SECTION V

| ADC | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ | ADMIRAL (Condimued) | Our No. | AIRLINE (Contamed) | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ | ARISTA (Continued) | Oar No. | ARISTA (Condinued) | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ | ARISTA (Contlaved) | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ | ARISTA (Continued) | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ |
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| ADC |  | 95-15 | $4605 \%$ | 10020 | 46017 | 32-2332 | 79807 | AR-ITD | 62887 | EV-5 | 92 | PR-130 | ${ }_{607 D 71}$ |
|  |  | 95-16 | 46017 | 10157 | 150D1 | 32-290 | 698D7 | AR-12D | 635D7 | EV-6 | 941 | PK-49 | 607D7C |
|  |  | 95-17 | 46153 | 10159 | 15051 | 32-291 | 663D7 | AR-13D | 625 D 7 | EV-7 | NLA | PK-50 | 606DEX |
|  |  | 95-18 | 46157 | 10161 | 164DS | 32,301 | 738D7 | AR-14D | 626D7 | EV-8 | NLA | PK-51D | 608DEQ |
| NAD91 | 111DEC | ${ }^{95-19}$ | 461 D 7 | 10172 | 16458 | 32.302 | 732 D 7 | AR-15D | 631 D 7 | EV-9 | 358 | PK-52D | 608DQ |
| NAD92 | IIIDEM | 95-20 | 702 D 7 | 10925 | 752D1 | 32-310 | 666D7 | AR-16D | 630D7 | EV-10 | 359 | PK-53D | 608DOx |
| NAD93 | 108DET | 95-21 | 80359 | 10928 | 506DS | 32.311 | 740D7 | AR-17D | $613 \mathrm{D7} 7$ | EV-11 | 360 | PP-1 | 586 |
| R20,R20x | NLA | 95-22 | 808DS | 10929 | 75251 | 32-312 | ${ }_{7}^{713 D 7}$ | AR-18D | ${ }_{6}^{611 D 7}$ | EV-12 | 356 | PP-2 | 585 588 |
| R35XE,R50XE | NLA | -95-23 | 365DS | ${ }_{1} 11388$ | $150 S 1$ 50127 | 32313 32.14 | ${ }_{\text {NR }} \mathbf{7 1 5 D}$ | AR-20D | 632 D 634 D 7 | EV-13 | 365 363 | PP-3 | 598 |
| ${ }_{\text {R90XE }}^{\text {R60 }}$ R90X | NLA | -95-25 | 462 DS | 11387 | 70057 | 32-316 | 721D7 | AR-23D | 636 D 7 | EV-15 | 354 | PP-5 | 587 |
| R950E | NLIDEC | 95-26 | 359DS | 11388 | 70053 | 32.317 | 731 D 7 | AR-25D | 637D7 | EV-16 | 355 | PP-6 | 591 |
| R105QE | 111DET | 95-27 | 3599s | 11389 | 893ss | 32.318 | 736D7 | AR-26D | 638D7 | EV-17 | 367 | PP-7 | 593 |
| R125,1500E | 111DEM | 95-28 | 70051 | 11390 | 893DS | 32-319 | 745 D 7 | AR-29D | 67007 | EV-18 | ${ }^{368}$ | PP-8 | 592 |
| R341 LM | 111DET | 95-29 | 70053 | 11392 | 94255 | 32-320 | 746D7 | AR-30D | 791DS | EV-19 | 369 | PP-9 | 595 |
| RK3E | 108DEC | 95-30 | 70251 | 11393 | 942 DS | 32.321 | $794 \mathrm{D7}$ | AR-31D | ${ }_{671097}$ | EV-20 | ${ }_{371}^{371}$ | PP-10 | 594 |
| RK5E | 111DET | ${ }^{95-31}$ | 702D1 | 11394 11395 | NLA | 32.328 32.300 | 72007 68407 | AR-32D | 671 D 7 612 D | EV-21 | 370 374 | RC-1 | ${ }_{641}$ |
| RK6E,RKTE | ${ }^{110 D E T}$ | ${ }^{95-32}$ | 163DS | 11395 11400 | ${ }_{9415 S}$ | 32-331,332 | 675D7 | AR-34D | 679DQ | EV-22 | 373 | $\stackrel{\mathrm{RC-2}}{\mathrm{RC}} \mathbf{3}$, | 643 |
| ${ }_{\text {RK9 }}$ | 111D7C | -95-34 | ${ }_{3585 S}$ | 11405 | 941DS | 32,333 | 709D7 | AR-35D | 679DO | EV-25 | 376 | RC-5 | 644 |
| RLXII | 111DEI | 95-35 | 358DS | 11441 | 800ss | 32-335 | $747 \mathrm{D7}$ | AR-40D | 675D7 | EV-26 | 375 | RC-6 | 645 |
| RLXIII | 111DEM | 95-36 | 164DS | 11463 | 64458 | 34-400 | 4111D7C | AR-11D | 684D7 | EU-1 | 460 | RC-7 | 646 |
| RLXM 100 | 108DET | 95-37 | 16459 | 11464 | 644DS | 36-401 | 4110DET | AR-50D | 672DQ | EU-2 | 461 | RC-8 | 647 |
| RP30 | 111DX | 95-38 | 463 DS | 11467 | $461{ }^{46} 9$ | 34.402 | 4111 DFC | AS-1 | 150 | EU-3 | 462 | RC-9 | 648 |
| RP 32 | 111DET | 95-39 | 46355 | ${ }_{12166}^{12167}$ | ${ }^{462025}$ | ${ }^{36404}$ | 411907 | ${ }_{\text {AS-3 }}$ | ${ }_{1} 15$ | EU-5 | 464 | RC-11 | 649 60 |
| RP 36 | 108DEC | 95-40 | ${ }_{70053}$ | ${ }_{1} 12165$ | 462085 | ${ }_{34-20}$ | ${ }_{4} 11937 \mathrm{D} 7 \mathrm{C}$ | ${ }_{\text {ASS }}$ | 155 | EU-6 | 465 | RC-12 | 651 |
| RQ 30 | 111DEC | 95-41 | 70053 | 15562 1563 | 36085 $509 D S$ | 36-421 | 4237DEC | ${ }_{\text {AS-5 }}$ | 156 | GA-1 | 490 | RC-13 | 653 |
| ${ }_{\text {RQ }}$ | ${ }^{111110}$ | 95-43 | 70053 | 15564 | 647DS | 34-430 | NLA | AS-6 | 152 | GA-2 | 491 | RO. 1 | 701 |
| RQLM30 | 111DEC | 95-4 | 70057 | 15565 | S855DS | 34-440 | 4601 DAC | AS-7 | 151 | GA 3 | 42 | RO-2,3 | 702 |
| RQLM36 | 111DEM | 95-45 | 368DS | 15566 | 863 DS | 36-441 | 4604 DEC | AS-8 | 154 | GA-4 | 493 | SH-1 | 752 |
| RSSOE | 111DET | 95-46 | 36855 | 15567 | 896DS | 34-442 | 460507 C | AS-9,12 | 700 | GE-1 | 500 | SH-2, | 751 |
| RSD | 108DET | 95-47 | 464 DS | 15568 | 897DS | 36.43 | 4605 DET | AS-10 | 911 | CE-2 | 501 | SH-4 | 750 |
| RSKAC | 108DEC | 95-48 | L855 | ${ }_{4}^{30127}{ }^{437838}$ | 643DS | $34-445$ 34.155 | 4606 D 7 C | ${ }_{\text {AS }}$ AS-13,14 | NLA | GE. ${ }^{\text {ce }}$ | 503 505 | ${ }_{\text {SH-6 }}$ | ${ }_{754}$ |
| RSLM63 | 111DEM | -95-49 | M855 | ${ }_{4}^{44378981}$ | 964DS | 34-45 | PR | ${ }_{\text {AS-13,16 }}$ | 159 | GE-7 | NTA | ${ }_{\text {SHF-12D }}$ | $754 \mathrm{D7C}$ |
| RSQ321 | 111DEC | 95-51 | 535DS | 44380,383 | 373DS | 34-460 | 757D7 | AS-17 | 163 | CE-8 | 506 | SH-13D,14D | 759D7 |
| RWXPSI01 | 111DEC | 95-52 | 53559 | 44382 | M855 DS | 34-461 | 4759D7 | AS-18 | 165 | GE-9 | 507 | SH-15D,16D | 759DE |
| RXPS101 | IIIDEC | 95-53 | 86355 | 44384 | M853DS | 34-462 | 4759D7 | AS-19 | 161 | GE-10 | 510 | SH-17D | NLA |
| RXPS 103 | 113DEC | 95-54 | 863DS | 44385 | 274DS | 36-463 | 4759DE | AS-20 | 162 | GE-11 | 511 | SH-19D | 760DE |
| TD-1 | 0856D7 | 95-55 | M855 | 45225 | ${ }^{273 D S}$ | 34-464 | 4760D6 | $\mathrm{AS}^{2}-21$ | 169 | GR-1D.3D | 525D7 | SH-20D,28D | 760D6 |
| TS-1 | 0356D7 | 95-56 | M856 | 45207 | 272DS | 36-465 | 4760DE | AS22 | 166 | GR-100 | NLA | SH-21D,22D | NR |
|  |  | 95-57,58 | L853 | 45779 | S854DS | 36-466 | 4760DE | AS-23 | 167 | GR-11D | NLA | SH-23D | 763DE |
|  |  | 95-59 | 700. 7 | 78361 | 358DS | 36-467 | NR | AS-24 | 168 | GR-12D,13D | NLA | SH-24D | NLA |
| ADMIRAL |  | 95-60,61 | 864 |  |  | 36-468 | 4761DE | AS-26 | 165 | CO-1D | 530 | SH-25D,26D | NLA |
|  |  | 95-62,63 | 1855 | ARISTA |  | 36-469 | 4762 DE | AS-27 | 173 | JE-1D | 535 | SH-29D30D | 761DE |
|  |  | 95-64,65 | S855 |  |  | 34-40 | 768D6 | AS-28 | 175 | LE-1 | 552 | ${ }_{\text {SH-32D }}$ | 762 DE |
| Following all have gic. |  | 95-66,67 | S854 |  |  | 36-471 | 768DE | BO-1 | 260 | MA-1 | 556 | SH-33D | NR |
|  |  | 95-68,69 | 5853 |  |  | 34-472 | 4767DE | 80-2 | 261 | MA-2 | 557 | SH-35D,36D | 757D7 |
| 15-2 | BMS | ${ }^{95-70,71}$ | 272 | 30-002 | 164 DS | $36-43$ 36475 | 4767DE | 80.3 | 263 | MA-3 | 558 | ${ }_{\text {SH-378 }}$ | NLA |
| 15-6 | 752S1 | ${ }_{95-74} 95$ | ${ }^{274} \mathbf{M}$ | 30-003 | 166 D 7 | $36-475$ $36-46$ | 4763 DE |  | ${ }_{27}^{27}$ | OR-1,2 | 540D7 | SH-38D | 759D |
| 15-7 | ${ }^{75252} 2$ | 95-75 | M853 S83 | 30-010 | 272DS | - $36-477$ | CTIDHE | BS-5,6 | 274 | PE-1 | 560 | SH-40 | 761DE |
| 15-18 | 35052 |  | S653 | 30-012 | ${ }^{27658}$ | 34-490 | 4320 DE | $\mathrm{CO}_{1}$ | 290 | PE-2 | 562 | SH-41 | NLA |
| 15-19 | 75252 |  |  | 30-000 | 365DS | 36-491 | 4820DE | DU-2 | 302 | PE-3 | 563 | SH-45D,47D | 760DED |
| 15-26 | ${ }_{35051}$ | AIRLINE |  | $30-030$ $30-631$ | 510DS | 34-492 | $822 \mathrm{D7A}$ | DU-3 | 303 | PE-4 5 | 564 | SH-46D | 760D6 |
| 15-28 | 15052 |  |  | $30-031$ $30-040$ | 511D7 | 36-493 | ${ }_{9215 \mathrm{PEF}}$ | DU4 | 301 | $\mathrm{PH}^{\mathrm{PH}}$ | 588 | SH-48D | 760DE |
| 15-29 | 75152 |  |  | 30-061 | 654 D 7 | ${ }^{40-1560}$ | 9115877 | DO-5,7 | 304 305 | ${ }_{\text {Pr-1 }}$ | 581 616 | SH-4.92D ${ }^{\text {S }}$ | 760D6 |
| 15-30 | 350D1 | Serv. Literature may use JENSEN Needle |  | 30-061 | M855DS | ${ }_{4}^{40-1566}$ |  | E-1 | 329 | P1-2 | 615 | SH-53D | 761DED |
| 15-31 | 75053 |  |  | 30-63 | M854DS | ${ }_{40-1566 \mathrm{D}}$ | 911587 | E1-2 | 356 | P1-3 | 617 | SF-54D | 764DMR |
| 15-32 | ${ }_{75251}$ | Numbers or the |  | ${ }^{30-065}$ | M853DS | AC-1D | 11001 | EL-3 | 325 | PK-1D | 604 DEM | SH-55D | 760D6 |
| 15-34 | 75253 | following, which all |  | $30-066$ | O851D ${ }^{\text {d }}$ | AC-2D | 111D1 | EL-4 | 326 | PK-2D | 604DET | SH-57D | 766D7 |
| ${ }_{15}^{15-37}$ | 75093 | 2942 | L855DS | 30-071 | ${ }_{864015}$ | AC-3D | 112D1 | EL-5 | 327 | PK-3D | 604D7M | SH-60D | 768D |
| 15-38 | 750D1 | 2944,2498 | M853DS | 30-080 | 897DS | AC-4D | NR | E1-6 | 328 | PK-4D | ${ }^{604 D 7 T}$ | SH-61 | 768DE |
| 15-43,44,45 | 75458 | ${ }_{9953} 979955$ | ${ }^{365 D S}$ | 30-081 | 898DS | ${ }^{\text {AC-SD }}$ | ${ }_{115 D 7}$ | ${ }_{\text {EL }}$ | ${ }_{331 \mathrm{D7}}$ | PK-SD,6D | ${ }_{604018}$ | ${ }_{\text {SH }}^{\text {SH-65D }}$-64D | 767DE |
| 15-62,63,64 | 754SS | 9953,9955 | ${ }_{50157}$ | 30-100 | 617D7 | ${ }^{\text {AC-7D }}$ | 116 DS | EL-9D | 332 D 7 | PK-8D | NLA | SH-70D | 765DQ |
| ${ }^{15-65,66}$ | ${ }^{7545 S}$ | 9958 | 802D | 30-110 | ${ }_{711} 849787$ | AC-8D | 1170 | ES-1D | $251{ }^{\text {d }} 7$ | PK-9D | 603D7T | SO-1 | 801 |
| 15-67 | 8005s 800 DS | 9959 | 700 D 7 | $30-120$ $30-130$ | ${ }_{7110} 7$ | AD-1D,3D | 100D7 | ES-4D | 252 D 7 | PK-10D,11D | 603D7C | 50-2 | ${ }^{803}$ |
| ${ }_{15-77}^{15}$ | 80152 | 9960 | 64151 | $30-130$ $30-140$ | 704D7 | AD-8D,9D | 100D7 | ${ }^{\text {ES }}$-5D | 232 DE | PK-12D.13D | $603 D 7 C$ | 50.3 | ${ }^{800}$ |
| 15-80 | 70052 | ${ }^{9961}$ | $641 \mathrm{D1}$ | 30-150 | 722D7 | AD-10D,11D | ${ }_{\mathbf{N R}}^{100 D^{\prime}}$ | ES-6D,8D | ${ }_{2325 D E}$ | PK-14D,19D |  | 90-5 | ${ }_{802}^{804}$ |
| 15-81 | 754DS | 9965 | ${ }_{\text {cosss }}^{461{ }^{\text {a }}}$ | 30-160 | 613D7 | AD-14D,15D | ${ }_{\mathbf{N} \mathbf{N}}$ | ES 10D | 230D7 | PK-17D,18D | $601 \mathrm{D7C}$ | 50.7 | 980 |
| 15-82 | 75458 | 9966,9968 | ${ }^{\text {808SDS }}$ | 30-170 | 799 D 7 | AD-16D,17D | 107DE | ES-12D,15D | 232SDE | PK-20D | 601D7C | S0.8 | 807 |
| 15-89 | NLA | ${ }_{9970}^{997,996}$ | 8025s | 32-200 | ${ }^{707 \mathrm{DE}}$ | AD-18D | 107DE | ES-13D | 230DE | PK-26D | 605 DEM | 50-9 | 805 |
| 15-90 | 70053 | 9971 | 802DS | 32-210 | ${ }^{629 \mathrm{D} 7}$ | AD-19D | 106DE | ES-17D,18D | 252D7 | PK-27D32D | 605DET | 90-10,11 | 808 |
| ${ }_{15}^{15.91}$ | 27057 | 9972 | 754SS | 32-211 | 697 DE | AD-20D | 105DE | ES-19D | 232SDE | PK-28D | 605D7M | SO-13 | 809 |
| ${ }_{1}^{15-95}$ | ${ }_{352 S 7}$ | 9973 | 754DS | $32-212$ <br> $32-213$ | ${ }_{206 \mathrm{DEC}}^{697 \mathrm{D}}$ | AD-21D,22D | NLA | ES-21D | 235 VDE | PK-29D | 605D7T | SO-14 | 810 |
| 15-101 | 35253 | 9974 | 50357 | 32-214 | 710 D 7 | AD-23D,24D | NLA | ES-22D,23D | $2355 D E$ | PK-30D,33D | ${ }^{605 D 7 C}$ | S0.16,18 | 812 |
| 15-102 | 352D7 | 9975 9977 | 503D7 804ss | 32-215 | 209 D 6 T | AD-22D | ${ }^{\text {NLA }}$ | ES 25D | 23551 | PK-34D | 60458 606 D 7 M | S0-19 | ${ }_{813}^{811}$ |
| 15-103 | $9415 S$ | 9978 | 8045S | 32-217 | 714D7 | AD-28D | I10DET | ES-26D,27D | 234DE | PK-35D | 606D7T | ST-1D | 822D7 |
| 95-1,2 | 8048 | 9978 | ${ }_{35257}$ | 32-218 | 213 D 6 C | AD-29D | 111D7C | ES-28D | 233 DE | PK-36D,41D | 606D7C | ST-2D | 82 DEEE |
| 95-3 | NLA 7 | 9981 | 352D7 | 32-219 | ${ }_{743 \mathrm{D} 7}$ | AD-30D | 111DEM | ES-29D | 236 ZDE | PK-37D | 606DEM | ST3D | 820 DEEE |
| 95-5 | 70253 | 9982 | 70057 | 32-2123 | ${ }_{212} 12 \mathrm{DCC}$ | AD-31D | 111DEC | ES-30D | 239 DEC | PK-38D | 606 DET | ST-5D | 82007 AL |
| 95-6 | NLA | 9983 <br> 998 | 70015 70257 | 32-225 | 214D6 | AR-1D | 6192D | ES-32D | 239DET | PK-40D | 606 DEEG | ST-7D | 820DEE |
| 95-7 | 941DS | 9984 | ${ }_{702 \mathrm{D}} 7$ | 32-250 | 721 D 7 | AR-3D | 621 D 7 | ES-33D | $237 D E C$ | PK-42D | 606D3 | ST-9D | 821DE |
| $95-8$ | 9045s | 9985 | 64358 | 32-251,252 | NR | AR-SD | 623D7 | ES-34D | 237D7C | PK-43D | 604DET | ST-10D | 821DEE |
| ${ }_{95-12}^{95-9}$ | ${ }_{6} 804558$ | 9990 | 643DS | 32-253 | 739D7 | AR-6D | 813DS | EV-1 | 350 | PK-4D | 607 DET | ST-40D | 823DEQ |
| ${ }_{95-13}$ | 61553 | 9991 | 75757 | $32-221$ $32-280$ | $706 \mathrm{D7}$ | AR-8D | ${ }_{674177}^{6277}$ | EV-2 | 351 | PK-45D | ${ }_{6077 \mathrm{DEP}}$ | TE-1 | 840 |
| 95-14 | 46053 | 10006 10018 | ${ }_{150 S 1}^{46057}$ | 32-281 | 718D7 | AR-9D ${ }^{\text {AR-10D }}$ | 674D7 | EV-3 | ${ }_{\text {NLA }}$ | PK-47D | 607 DFM | TE-3 | 842 |
|  |  | 10018 | 15081 |  |  |  |  |  |  |  |  |  |  |




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## NEEDLE CROSS-REFERENGE



## SECTION V

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| FIDELITONE <br> (Continued) | Our No. | FIDELITONE (Conthued) | $\begin{aligned} & \text { E Our } \\ & \text { No. } \end{aligned}$ | FIDELITONE (Continued) | $\begin{aligned} & \text { E Our } \\ & \text { No. } \end{aligned}$ | Fidelitone (Continued) | $\begin{array}{ll} \text { E } & \begin{array}{l} \text { Our } \\ \text { No. } \end{array} \end{array}$ | FIDELITONE (Continued) | Our No. | $\begin{array}{ll}\text { FIDELITONE } & \text { Our } \\ \text { (Condnued) } & \text { No. }\end{array}$ | JENSEN | Our Na. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 371,372 | 16455 | 483 | 605D7T | 59 | 237 DET | 695 | 717 D 7 | ${ }^{3} 3$ | V7 | 73 |  |  |
| 373 | 61757 | 484,485 | 605D7C | 591 | 237 DEC | 696 | 661 D 7 | 834 | 709D7 | 173E-874 212D | JENSEN/ MILLER |  |
| 374 | 70053 | 486 | 604D3 | 592 | 237D7C | 697 | 235SDE | 835 | 708D7 | 174E-875 212DEC |  |  |
| 375,376 | 251D7 | 487 | 356SS | 593 | 760DED | 698 | 629DE | 836 | 701 D 7 | 200S-377 252D7 |  |  |
| 377 | 252D7 | 488 | 36051 | 594 | 672DQ | 699 | 629DQ | 837 | 207 D 7 | 201E-442 232DE | SUFFIX CODE: |  |
| 378 | 897SS | 489 | 16657 | 595 | NLA | 700,702 | NR | 844 | 665 D 7 373 D | $\begin{array}{ll}2025-527 & 23007 \\ & 203505\end{array}$ |  |  |
| 379 | 112 S 1 | 490 | 15957 | 596 | S26DE | 701 | $2725 S$ | 847 | ${ }_{6}^{373 D 5}$ | $\begin{array}{ll}\text { 203S-805 } & \text { 235D7 } \\ \text { 203E647 }\end{array}$ | $\mathrm{D}=$ Diamond |  |
| 380 | ${ }^{11253}$ | 491,493 | 16759 | 597 | 633 D 7 | 703 | 86455 | 848 | ${ }^{6960} 7$ | 203 E -647 235SDE |  |  |
| 381 | ${ }^{13751}$ | 494 | 11658 | 598 | 611 D 7 | 704 | 824.DE | 849 | 689D7 | 204E-646 233DE | $\mathbf{2}=$ mil Sapphire |  |
| 388 | 13752 | 495 | ${ }^{11757}$ | 599 | 630D7 | 705 | 27358 | 850 | 6890 D 7 | 204P-999 NR | $\mathbf{E}=$ Eliptical |  |
| 383 | 13753 | 496 | 232DE | 600 | 637D7 | 706 | 629D7 | 851 | 678DQ | 2055-592 4237D7C |  |  |
| 384 | 354S1 | 497 | 27157 | 601 | 638D7 | 707 | 679DQ | 852 | 651 D 7 | 205E-590 4237DEC | -Our No." shom | Sapph. |
| 385 | 354S2 | 498 | 303 D 7 | 602 | 634 D 7 | 708 | S854TD | 857 | ${ }_{7}^{812 \mathrm{DS}}$ | 205 P 669 ${ }^{2385 \mathrm{DQ}}$ | "Our No." shows basic needle type. |  |
| 386 | 35453 | 499 | 304SS | 603 | 4764DE | 709 | 758D7 | 859 | 722 D 7 | 2065 -767 4237D7C |  |  |
| 387 | 35551 | 500 | 326SS | 604 | 766D7 | 710 | 675D7 | 860 | 771DED | 206E-651 4239PD | A-41,42,43 |  |
| 388 | 35552 | 501,502 | NR | 605 | 670D7 | 711,12,13 | NR | 861 | O853D7 | 207E-671 239DET | A-44,45, |  |
| 389 | 35553 | 503 | 843SS | 606 | 607 DEM | 714 | 669D7 | 862 | ${ }^{912 \mathrm{DS}}$ | 207P-999 NR |  |  |
| 390 | ${ }^{75957}$ | 504 505 | ${ }_{86152}$ | ${ }_{607}^{608}$ | 607 DET | 715 717 | 679DE 604DET | 863 864 | 721 D 7 724 D 7 | $\begin{array}{ll}\text { 208E-869 } & \\ 2505-806 & \text { 241DE } \\ \text { 601D }\end{array}$ | A-67 |  |
| 391 | ${ }^{535 S S}$ | 505 506 | 864SS | 608 | 607 DEC | 717 | 604DET 594DS | 864 865 | 724 D 7 718 D 7 | $\begin{array}{ll}2505-806 \\ 2515-415 & \text { 601D7C } \\ \text { 603D7C }\end{array}$ | A-68 |  |
| 392,393 395 | NR S855SS | 506 507 | 85091 85157 | 609 | ${ }^{607 \mathrm{D} 7 \mathrm{M}}$ | 718 720 | 594DS | 8865 | 718D7 720 D 7 | $\begin{array}{ll}\text { 2515-15 } \\ 252 S-408 & 603 D 7 C \\ 4604 D 7 C\end{array}$ | $\begin{array}{ll} \text { A-71,72 } & 153 \\ \text { A }-73 & 151 \end{array}$ |  |
| 396 | L855SS | 508 | NR | 611 | 607D7C | 721 | 108DEX | 867 | 712D7 | 252E-717 4604DEC |  |  |
| 397 | S854SS | 509 | 813SS | 612 | NLA | 722 | 111DEC | 868 | 212D6C | 252P-999 NR |  |  |
| 398 | L853SS | 510,512 | 376D7 | 613,614 | L856SS | 723 | 111 D7C | 870 | NR | 2535-483 4605D7C | A-75,79 150 <br> $\mathrm{~A}-76$ 154 |  |
| 399 | M855SS | 511 | 369SS | 615 | 635D7 | 724 | 111 DEM | 871 | 211D6C | 253E-479 4605DET |  |  |
| 400 | 557Ss | 513 | 653SS | 616 | 614 D 7 | 725 | 111 DET | 872 | ${ }^{213 D 6 C}$ | 253P-999 NR | A-78,82 NLA |  |
| 401 | 165SS | 514 | 085357 | 617 | 636D7 | 726 | 112DEX | 876 | 596D7 | 254S-476 4606D7C | A-80,81 156 <br> A-83,86 151 |  |
| 402 | $3695 S$ | 515 | M853SS | 618 | 621 D 7 | 728 | 540DE | 877 | 730 D 7 |  | $\begin{array}{ll} \text { A-83,86 } & 151 \\ \text { A- } 84 & 152 \end{array}$ |  |
| 403 | 64957 | 516,518 | O854S7 | 619 | NLA | 729 | 595D7 | 878 879 | 733D7 | 254P-999 NR | A-85 150 |  |
| 404 | M854SS | 517 | ${ }^{2735 S}$ | ${ }_{621,622}$ | $235 D 7$ 608 DEQ | 730 731 | 666D7 614DO | 879 880 | 737D7 748 D 7 | $\begin{array}{ll}\text { 255S } 610 \\ 255 \mathrm{E}-607 & \text { 4607DEC }\end{array}$ |  |  |
| 405,406 | $8635 S$ $604 D 7 C$ | 519 520 | 65457 $1715 S$ | ${ }_{621,622}$ | ${ }_{\text {Cla }}^{\text {608DEQ }}$ | 731 732 | 614DQ | 880 881 | 748D7 732 D 7 | 255E-607  <br> $256 \mathrm{E}-470$ 607 DEC | $\begin{array}{ll} \text { A-87,88,89 } & \text { NLA } \\ \text { A-90,93 } & \text { 159SS } \end{array}$ |  |
| 408 | 604D7T | 521 | 1725S | 625,24 | 233DE | 734 | 629D7 | 882 | 736 D 7 | 257E-807 608DEV | A-90,93 159SS <br> A-91 159S7 |  |
| 409 | 604D7M | 522 | 173SS | 626 | 679DQ | 735 | 634D7 | 883 | 740D7 | 257P-622 608DQ | A-94,95 16 |  |
| 410 | 604DEM | 523 | 174SS | 627 | NR | 736 | 660 D 7 | 884 | 731D7 | 3005-269 757D7 | A-96 161 |  |
| 411 | 604DET | 524 | 175SS | 628 | 110DET | 737 | 662 D 7 | 885 | ${ }^{715 \mathrm{D}} 7$ | 3015-390 4759D | $\begin{array}{ll}\text { A-97 } & 162 \\ \text { A-98 } & 163\end{array}$ |  |
| 412 | 604D7C | 525 | 51157 | 629 | 820DEE | 738 | $663 \mathrm{D7} 7$ | 888 | ${ }^{798 \mathrm{D} 7}$ | 300 E -665 4759DE | A-98 163 |  |
| 413 | 604D3 | 526 | 3745S | 630 | 820 DE | 739 | 664 D 7 | 887 | ${ }^{792 \mathrm{D} 7}$ | 302S-808 4759D7 | $\mathrm{A}-100,102$ 164 <br> $\mathrm{~A}-104,107$ 164 |  |
| 414 | NLA | 527 | ${ }^{230159}$ | ${ }_{6}^{631}$ | $820 \mathrm{D7aL}$ | 740 | ${ }^{665 \mathrm{D} 7}$ | 888 | 796D7 | 3035-659 4760D6 | A-104,107 164 <br> A-106 165 |  |
| 415,416 $417,418,419$ | 603D7T 603 D 7 C | 528 529 | 7915S | 632 633 | 820D3 821DEE | 741 742 | 667 D 7 668 D 7 | 889 890 | 793D7 119 D 7 | 303E-693 $303 \mathrm{P}-999$ NLA | $\begin{array}{ll}\text { A-108 } & 169 \\ \text { A }\end{array}$ |  |
| ${ }_{420}^{417,48,419}$ | 603D7C | 529 530 | 622SS | 633 634 | 821DEE | 742 743 | 668 D 7 688 D | 890 891 | 119 D 7 819 D 7 | $\begin{array}{ll}\text { 303P-999 } \\ \text { 304E-593 } & \text { NLA } \\ \text { 760DED }\end{array}$ |  |  |
| 421 thru 424: | 601D7C | 531 | 760DE | 635 | 821 D7A | 744 | 669D7 | 892 | 214D6 | 305S-854 4762DE |  |  |
| 425 | 601D3 | 532,533 | 864SS | 636 | 821 D 3 | 745 | 672D7 | 894 | 745 D 7 | 305E547 4761DE | $\begin{array}{ll} \text { A-113 } & 168 \\ \text { A-115 } & 170 \end{array}$ |  |
| 426 | 601D7C | 534 | 604D7C | 637 | 822DEEE | 746 | $677 \mathrm{D7} 7$ | 895 | 794D7 | 305P-999 NR | $\begin{array}{ll} \text { A-116 } & 167 \\ \text { A-117,118 } & 165 \end{array}$ |  |
| 427 | 790SS | 535 | 272SS | 638 | 822 DEE | 747 | 678D7 | 896 | 817D7 | 3065-855 NR |  |  |
| 428 | 170SS | 536 | 27458 | 639 | $822 \mathrm{D7A}$ | 748 | 679 DQ | 897 | 795D7 | 306E549 4763DE |  |  |
| 429 | 81155 | 537 | 627 D 7 | 640 | 822D3 | 749 | 680D7 |  |  | ${ }^{306 P-999}$ NR | A-120 172 <br> A-121 173 <br> A 122  |  |
| 430 | M853SS | ${ }_{5398}{ }_{5342}$ | 674D7 O854S7 | 641 642 | 823DEQ 823 DO | 750 | 681D7 ${ }_{682 \mathrm{D} 7}$ | Following are the |  | $\begin{array}{ll}\text { 307S-856 } & \text { NR } \\ 307 \mathrm{E}-603 & \text { 4764DE }\end{array}$ | $\begin{array}{ll}\text { A-121 } & 173 \\ \text { A-122 } & 174\end{array}$ |  |
| 431 432 | 1685497 | ${ }_{540} 539,542$ | O854S7 | 642 643 | 823DQ 761 DED | 751 752 | 682 D 7 683 D 7 | "Ultra Magnetic:" needles showing our |  | $\begin{array}{ll}\text { 307E-603 } & \text { 4764DE }\end{array}$ | $\begin{array}{ll}\text { A-122 } & 174 \\ \text { A-123 } & 175\end{array}$ |  |
| 433 | 650ss | 541 | 558D7 | 644 | 234DE | 753 | 684 D 7 | "Generic Stylus" |  | 308S-809 NR | $\begin{array}{ll}\text { AC-27 } & 110 S 1 \\ \text { AC-28 } & 1151\end{array}$ |  |
| 434 | 648SS | 543 | 624D7 | 645 | 235VDE | 754 | 685D7 | replacement, where |  | 308E-668 4767DE |  |  |
| 435 | 1695S | 544 | 625D7 | 646 | 235DE | 755 | 686D7 | available. |  | 308P-999 767DHE | AC-28  <br> AC-29,30 115 <br> 114  |  |
| 436 | 862SS | 545 | 626D7 | 647 | 235SDE | 756 | $687 \mathrm{D7} 7$ |  |  | $3095-777$ 768D6 | $\begin{array}{ll}\text { AC-31 } & 11251 \\ \text { AC-32 } & 11357\end{array}$ |  |
| 437 | 618SS | 546 | 629D7 | 648 | 232SDE | 757 | 689D7 | 1015-674 | 411D7C | 309E-776 768DE | AC-32 11357 <br> AC-33 115 |  |
| 438 | 592D7 | 547 | 761DED | 649,650 | 232SDE | 758 | 690D7 | 101E-572 | 4110DET | 310P-685 768DQ | $\mathrm{AC}-33$$A C-34$ |  |
| 439 | 791SS | 548 | 762DE | 651 | 239 DEC | 759 | 691 D 7 | 1025-803 | 111DEC | 311E-765 4772DHE | AD-1 thru |  |
| 440 | $5645 S$ | 549,550 | 762 DE | 652 | 239PDE | 760 | 629DO | 102E-725 | 111 DET | 311P-999 4772DHE | AD-5: 100D7 |  |
| 441 | NLA | 551 | $631 \mathrm{D7}$ | 653 654 thru 658: | ${ }_{\text {NR }}^{\text {673D7 }}$ | 761 762 | 629 D 7 693 D 7 | ${ }^{1035}$-804 | 108DEC | $\begin{array}{ll}\text { 312E-860 } & \text { 712 } \\ \text { 312P-999 }\end{array}$ |  |  |
| 442 | 232DE S856SS | 552 553 | 6223 D 7 | 654 thru 658: | ${ }_{\text {NR }}^{\text {N60 }} 6$ | 762 763 | 693D7 | $103 \mathrm{E}-587$ 1045888 | 111DEM | $\begin{array}{ll}\text { 312P-999 } & \text { 771DHE }\end{array}$ | AD-6 thru NLA |  |
| 443 444 | S856SS | 553 554 | 623D7 628 D 7 | 659 660 | 760D6 629 DE | 763 764 | 694D7 695 D 7 | $1045-588$ $104 \mathrm{E}-723$ | 411D7C 4110 DET | $\begin{array}{ll}\text { 313E-887 } & \text { 773DHE } \\ \text { 350S-631 } & \text { 820D7AL }\end{array}$ |  |  |
| 445 | 525D7 | 555 | 106DE | 661 | 679 DE | 765 | 772 DMR | 105E-683 | 108DET | 350E-630 4820DE | $\mathrm{D}-20$ 106DE <br> $\mathrm{D}-21$ 105DE |  |
| 446 | 3715S | 556 | 108DEC | 662 | 239DQ | 766 | 697 D 7 | 105P-720 | 108DQ | 350P-999 NR | $D-22,23,24 \text { 107DE }$ |  |
| 447 | S853SS | 557 thru 560: | NLA | 663 | 899 D 7 | 767 | 239D7C | 106E-726 | 112DEX | 3515-639 821D7A | AE-1 252D7 <br> AE-2,3 251 D 7 |  |
| 448 | L853ss | 561 | S853SS | 664 | 2362DE | 768 | 614D7 | 1075-888 | NR | 351E-638 821DE | $\begin{array}{ll}\mathrm{AE}-2,3 & \text { 221D } \\ \mathrm{AE}-4,5,7,9 & 232 \mathrm{DE}\end{array}$ |  |
| 449 | M853SS | 562 563 | ${ }_{\text {2854SS }}$ | 665 666 | 759DE | ${ }^{769} 77071$ | 614 DE | 108S-889 150S 585 | NR ${ }_{612 \mathrm{D}}$ | $\begin{array}{ll}\text { 351P-999 } & \text { NR } \\ \text { 352E-637 }\end{array}$ |  |  |
| 450 | O855S7 | 563 564 | S8545S | 666 667,669 | 675D7 239DQ | ${ }_{772}^{770,771}$ | 614Q | 150S-585 151S-615 | 612 D 7 635 D 7 | $\begin{array}{ll}\text { 352E-637 } & \text { 822DEEE } \\ \text { 352P-999 } & \text { NR }\end{array}$ | $\begin{array}{ll}\text { E-8,10 } & \text { 232SDE } \\ \text { E-12 } & \text { 252D }\end{array}$ |  |
| ${ }_{452}^{451,453}$ | L855sS | 564 565 | ${ }_{\text {M853SS }}$ | ${ }_{668}^{667,669}$ | 239DO 767DED | 772 773 | 108DQ | - $1515 \mathrm{LS-706}$ | 639 D 7 629 D | $\begin{array}{ll}\text { 352--99 } \\ \\ 3535-810 & \text { NR }\end{array}$ |  |  |
| 454 | L854SS | 566 | 085657 | 670 | 238DEQ | 774 | 236ZDE | 152E-690 629DE |  | 353E-811 825DEV | $\begin{array}{ll}\text { AE-12 } & \text { 252D7 } \\ \text { AE-15,17 } & \text { 232SDE }\end{array}$ |  |
| 455,457 | S853SS | 567 | M856SS | 671 | 237 DEC | 776 | 768 DE | $\begin{array}{ll}\text { 152P-691 } & \text { 629DQ } \\ 153 \mathrm{E}-715 & \text { 679DE }\end{array}$ |  | 400P-594 672DQ | AE-16 | 235VDE |
| 456,458 | L853SS | 568 | S856SS | 672,673 | NR | 777 | 768D6 |  |  | 4015 -812 NR | AE-19,20 | 235SDE |
| 459,461 | M856SS | 569 | O85557 | 674 | ${ }^{110} 78 \mathrm{C}$ | 778,81,82 | NR | $\begin{array}{ll} 154 \mathrm{E}-61 & \text { 612DE } \\ 1559-707 & 679 \mathrm{DQ} \end{array}$ |  | $\begin{array}{ll}401 \mathrm{E}-728 & \text { NR } \\ 402 \mathrm{~S}-813\end{array}$ | AE-21 | 235SDE |
| 460 | L856S | 570 | $632 \mathrm{D7} 7$ | 675 | M856SS | 783,784 | ${ }^{\text {697D7 }}$ |  |  | 402S-813 4540D7U | AE-22 | 235DE |
| 462 | S854SS | 571 | 111 DET | 676 | M855ss | 785,86,87 | NR | 157S-820 697D7 |  | $402 \mathrm{E}-814$ 4540DEU | AE-23,24 | 234DE |
| 463,467 | L854SS | 572 | 110 DET | 677 | M854SS | 788 789 | ${ }^{\text {606DEL }} 7$ |  |  |  | AM-22 | 136 |
| 464 | 619SS M854SS | 573 574 | 626D7 613 D 7 | 678 679 | M853SS | 789,792 7901 | 719D7 $\mathbf{N R}$ | $\begin{array}{ll}\text { 1578-784 } \\ 15898 & \text { 206DET }\end{array}$ |  | $\begin{array}{ll}\text { 500S-997F } \\ 501 \mathrm{E}-998 \mathrm{~F} & \text { NR }\end{array}$ | AM-24 135 |  |
| 466 | L855ss | 575 | 085457 | 680 | O855S7 | 791 | 760D7 | $\begin{array}{ll}1595-836 & 710 \mathrm{D} 7 \\ 1605-837 & 207 \mathrm{D} 7\end{array}$ |  | - |  |  |
| 468 | 898SS | 576 | L854SS | 681 | 085457 | 794 | 704D7 |  |  | $\begin{array}{ll}\text { B-1,5,7 } & 273 \\ \text { B-2,6 } & 272\end{array}$ |  |  |
| 469 | 369SS | 577 | L853SS | 682 | O853S7 | 797 | 849 D 7 | 1615-838 205D6C |  |  | GARRARD, | $\begin{array}{ll}8-2,6 & 271 \\ 8-3 & 271 \\ \text { B-4 } & 274\end{array}$ |  |
| 470 | 606DEG | 578 | M853ss | 683 | 108 DET | ${ }_{8008}^{798}$ | 710D7 71 | $\begin{array}{ll}\text { 161E-839 } \\ \text { 162E-840 } & \text { 205DEC } \\ \text { 207DE }\end{array}$ |  | GE., GRADO, |  |  |  |  |
| 471 | 606DEM | 579 | S855SS | 684 | 237DEZ | ${ }^{800,801}$ | ${ }^{711}{ }^{\text {7 }} 7$ |  |  | BO-350 | 260 |  |  |
| 472 | 606DET | 580,581 | M854SS | ${ }_{689}^{685}$ | $765 D Q$ $676 D 7$ | 802 | 711 D 7 | 163E-841 | 208DE |  | HITACHI, | BO-352 | 261 |
| 473 | 606 DEC | 588 | L853SS | 686 687 | ${ }_{6}^{676 \mathrm{D}^{7}}$ | 815 | ${ }^{671 D^{\prime} 7}$ | 164P-842 | 208 DEL | IVC | BO-353 | NLA |
| 474 | 606D7M | 583 | 375SS | 687 | 629D7 | 826 827 | 706 D 7 699 D 7 | 165E-843 | 208DEM |  | BO-354,355 | 263D7 |
| 475 | 606D7T | 584 | 305ss | 688,689 690 | 679 DQ | 827 828 | 699D7 | 166S-844 | 209D6T 71007 | See Section If | CRA-55 | 700 |
| 476,477 | $606 \mathrm{D7C}$ | 585 586 | 612D7 | 690 | 629DE | 828 829 | 703 D 7 705 D 7 | ${ }_{1}^{1675}$ 16845-846 | ${ }^{71009}$ 2097 |  | CRA-56 | 701 |
| 478 479 | 606D3 | 586 587 | 494SS | 691 | 629DQ | 829 830 | 705D7 | 168S-846 | 209D6T 212D6C |  | CRA-57 | 702 |
| ${ }_{480,481}$ | 605DEM | 588 588 | 111 DEC | 692 693 | 760DE | ${ }_{831} 83$ | 713D7 | 170S-871 | 4211D6 |  | CS-1 | 290 |
| 482 | 605D7M | 589 | 111 DEM | 694 | 692D7 | 832 | 848D7 | 171S-872 | 213D6C |  | DU-13 | 301 |








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| RECOTON <br> (Continued) | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ |
| :---: | :---: |
| 664 | 65095 |
| 665 | 812ss |
| 666 | 085457 |
| 667 | M854SS |
| 668 | 11658 |
| 669 | 232SDE |
| 670,671 | 252D7 |
| 672 | 23017 |
| 673,674 | 757D7 |
| 675 | 605DEM |
| 676 | 605D7M |
| 677 | 605D7T |
| 678 | 6095s |
| 679 | 7915 |
| 680 | $621{ }^{\text {7 }}$ |
| 681 | 8439s |
| 682 | 16559 |
| 683 | 59357 |
| 684 | 592D7 |
| 685 | 169SS |
| 686 | 37155 |
| 687 | 62258 |
| 688 | S853ss |
| 689 | M853SS |
| 690 | L853SS |
| 691 | 085457 |
| 692 | 085597 |
| 693 | 085657 |
| 694 | S856ss |
| 695 | M856SS |
| 696 | 606DEM |
| 697 | 606 DET |
| 698 | 606D7T |
| 699 | 37359 |
| 700 | L855S |
| 701 | L854SS |
| 702 | L856SS |
| 703 | $5645 S$ |
| 704 | 65157 |
| 705 | 81359 |
| 706 | 864SS |
| 707 | 898ss |
| 708 | ${ }^{2} 85655$ |
| 709 | 232SDE |
| 710 | 235 VDE |
| 711,12 | NLA |
| 713 | 605DET |
| 714 | 605D7C |
| 715 | 606D7C |
| 716 | 606D7M |
| 717 | 759D7 |
| 718,719 | 759DE |
| 720,721 | 760DE |
| 722 | 761 DED |
| 724 | 763DE |
| 725 | 37657 |
| 726,729 | 37355 |
| 727 | 3745s' |
| 728 | 36955 |
| 730 | 37558 |
| 731 | 1715S |
| 732 | 172ss |
| 733 | 1735S |
| 734 | $1745 S$ |
| 735 | 17555 |
| 736 | 510ss |
| 737 | 511 SS |
| 738 | 653DS |
| 739 | 65457 |
| 740 | 623 D 7 |
| 741 | 236 ZDE |
| 742 | 235VDE |
| 743 | $235 S D E$ |
| 744 | 233DE |
| 745 | 332D7 |
| 746 | 606DEG |
| 747 | 629D7 |
| 748 | 27358 |
| 749 | 27459 |
| 750 | 627D7 |
| 751 | 674D7 |
| 752 | 652SS |
| 753 | 085357 |
| 754 | 760DEJ |
| 755 | 760D6 |
| 756 | 762DE |
| 757 | 30559 |
| 758 | 558D7 |
| 759 | 624 D 7 |
| 760 | 62807 |
| 761 | 626 D 7 |
| 762 | $6^{611} 7$ |
| 763 | $625 \mathrm{D}^{7}$ |
| 764 | 630D7 |



| RECOTON <br> (Continued) | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ | RECOTON (Continued) | $\begin{aligned} & \mathrm{Our} \\ & \mathrm{Na} . \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| 861 | IIDPC | $100 \mathrm{E} / 72$ | NLA |
| 865 | 111DEC | 1015-802 | 4111D7C |
| 866 | 111DET | 101E-797 | 4110DET |
| 867 | 111DEM | 102S-904 | 111DEC |
| 868 | 108DEX | 102E-866 | 111DET |
| 869 | 108DEQ | 1035-905 | 108DEC |
| 870 | 112DEX | 103E-867 | 111DEM |
| 871 | 629D0 | 1045-906 | 4111D7C |
| 872 | 629DE | 104E-864 | 4110DET |
| 873 | 679DE | 105E-869 | 108DET |
| 874 | 698D7 | 105P-799 | 108DQ |
| 875 | 690D7 | 106E-870 | 112 DEX |
| 876 | 238DEQ | 1075-985 | 121D7 |
| 877 | 237D7C | 108S-986 | $117 \mathrm{D7}$ |
| 878 | 239DET | 1505.782 | 612D7 |
| 879 | 237DEZ | 1515-784 | 635D7 |
| 880 | 694D7 | 152S-747 | 629D7 |
| 881 | 667D7 | 152E-828 | 629DE |
| 882 | 695 D 7 | 152P-829 | 629D9 |
| 883 | $687 \mathrm{D7}$ | 153E-830 | 679DE |
| 884 | $691{ }^{\text {7 }}$ | 154E-831 | 612DE |
| 885 | 692D7 | 155P-832 | 679DQ |
| 886 | 693D7 | 156E-873 | 679D0 |
| 887 | 678DQ | 157S-901 | 697 D 7 |
| 888 | 604 DET | 157E-899 | 206DET |
| 899 | 662D7 | 158S-926 | 710D7 |
| 890 | 663D7 | 159S-944 | 710D7 |
| 891 | 668DQ | 1605-945 | 207 D 7 |
| 892 | 677D7 | 1615-947 | 205D6C |
| 893 | 698D7 | 161E-948 | 205DEC |
| 894 | 669D7 | 162E-949 | 207 DE |
| 895 | 668D7 | 163E-950 | 208DE |
| 89 | 608DQX | 164P-951 | 208DEL |
| 897 | 606DEX | 165E-952 | 208DEM |
| 898 | 608D9 | 166S-953 | 209D6T |
| 899,901 | 69707 | 167S-954 | 71007 7 |
| 900 | 666D7 | 168S-955 | 209D6T |
| 917 | 849D7 | 169S-965 | 212D6C |
| 918 | 704D7 | 1705968 | 4211D6 |
| 919 | NR | 1715-969 | 4213D6 |
| 923,24,25 | 711D7 | 172S-970 | 208D6 |
| 926 | 710D7 | 173E-971 | 212DE |
| 927 | 719D7 | 174E-972 | 212DEC |
| 928 | 706D7 | 2005-671 | 252D7 |
| 929 | 699D7 | 201E-709 | 232DE |
| 930 | 703D7 | 202S-672 | 23007 |
| 931 | 705D7 | 2035-907 | 225D7 |
| 932 | 679D7 | $203 \mathrm{E}-741$ | 235SDE |
| 933 | 697D7 | 204E-744 | 233DE |
| 934 | 614 DE | 204P-999 | NR |
| 935 | 614DQ | 205S-877 | 4237D7C |
| 936,937 | NR | 205E-805 | 4237DEC |
| 938 | 713D7 | 205P-876 | 238DQ |
| 939 | 23DS | 206S-908 | 4237D7C |
| 940 | 848DS | 206E-807 | 4239PDE |
| 941 | 719D7 | 207E-878 | 4239DET |
| 942 | 709D7 | 207P-999 | NR |
| 943 | 708D7 | 208E-966 | 4241D7 |
| 946 | 760 D 7 | 250S-647 | 601D7C |
| 957 | 722D7 | 2515-652 | 603D7C |
| 958 | 0853 D 7 | 252S-656 | 4604D7C |
| 959 | 912DS | 252E-653 | 4604 DEC |
| 960 | 721D7 | 252P-999 |  |
| 961 | 724D7 | 2535-677 | 4605D7C |
| 962 | 718D7 | 253E-675 | 4605 DET |
| 963 | 720D7 | 253P-999 | NR |
| 964 | 712 D 7 | 254S-698 | 4606D7C |
| 967 | NR | 254E-6\% | 606 DEC |
| 973 | 596D7 | 254P-999 | NR |
| 974 | 730D7 | 2555.769 | 4607D7C |
| 975 | 733D7 | 255E-768 | 607 DEC |
| 976 | 737D7 | 256E-746 | 606DEL |
| 977 | 748D7 | 257E-909 | 608DEV |
| 978 | 732D7 | 257P-840 | 608DQ |
| 979 | 736D7 | 300S-674 | 757D7 |
| 980 | 740D7 | 301S-717 | 4759D7 |
| 981 | 731D7 | $301 \mathrm{E}-718$ | 4759DE |
| 982 | 715 D 7 | $3025-825$ | 4759D7 |
| 983 | 798D7 | 3035-720 | 4760D6 |
| 984 | 793D7 | $303 \mathrm{E}-754$ | 4760DE |
| 985 | 119D7 | 303P-999 | NLA |
| 986 | 819D7 | 304E-794 | 4760DE |
| 987 | 792D7 | 3055-920 | 4762DE |
| 988 | $796 \mathrm{D7}$ | 305E-72 | 4761DE |
| 989 | 214D6 | 305P-999 | NR |
| 991 | 745D7 | 306S-921 | NR |
| 992 | 794D7 | 306E-724 | 4763DE |
| 993 | 817 D 7 | 306P-999 | NR |
| 94 | 795D7 | 3075-922 | NR |
|  |  | 307E-792 | 4764DE |
| Following are the "Ultra Magnetics" numbers: |  | 307P-999 | 764DMR |
|  |  | 309S-851 |  |
|  |  | 308E-850 | 4767DE |
|  |  | 308P-999 | 767DHE |

NEEDLE CROSS－REFERENCE

| RECOTON （Continued） | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ | SEARS <br> （Combaved） | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ | SEARS （Continued） | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ | T．A．E． （Continued） | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ | T．A．E． （Conthued） | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ | T．A．E． （Continued） | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ | T．A．E． （Continued） | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 309s－852 | ${ }^{76856}$ | 5760，5761 | 50151 | 26594－41 | $5854{ }^{\text {d }}$ | 5059 | 16705 | 5650 | $366 \mathrm{D} / 7$ | ${ }^{7773}$ thru |  | 7905 | 614DE |  |
| 309E－853 | 768 DE | 5762 | 501525 | 26594－43 | M854DS | 5060 | 168DS | 5851 | 367DS | 7778： | NR | 7905 | 614DQ |  |
| 310P．854 | 765DQ | 5763 | 50081 | 26594－73 | M856DS | 5061 | 170DS | 5852 | 368DS | 7779 | 742D7 | 7906 | 621DE |  |
| 311E－910 | 4772 DHE | 5769 | 70051 | 32754－51 | M853DS | 5062 | 165 DS | 5871，5876 | 369 DS | 7780 | 799D7 | 7907 | 629DE |  |
| 311P－999 | 4772 DHE | 5770 | 70053 | 32754－52 | M853DS | 5063 | 174DS | 5872 | 557DS | 77981 thru |  | 7908 | 661 D 7 |  |
| 312E－956 | 771DHE | 5771 | 70052 |  |  | 5064 | 175 DS | 5873，5874 | 371D6 | 7784： | NR | 7909 | 660077 |  |
| 312P－999 | 771 DHE | 5773 | 80658 | Following | ave prefix | 5065 | 171 DS | 5875，5881 | 374DS | 7785 | 215 DE | 7910 | 662 D 7 |  |
| 313E－984 | 773 DHE | 5776 | 80458 | 20200： |  | 5066 | 172DS | 5877，5878 | 373DS | 7786 | 215 DET | 7911 | 663 D 7 |  |
| 3505－823 | 820D7AL | 5778 | 70058 |  |  | 5067 | 173DS | 5879 | 376D7 | 7787 | 215DEL | 7912 | $664 \mathrm{D7}$ |  |
| 350E－821 | 4820DE | 5787 | 941DS | 02 | 754DS | 5100 | 246DEX | 5880 | 375 DS | 7788，7789 | NR | 7913 | 665D7 |  |
| 350P－999 | NR | 5801 | 80858 | 04 | 70053 | 5101，5102 | 740D7 | 5885 | 558D7 | 7790 | 748D7 | 7914 | $667 \mathrm{D7}$ |  |
| 3515－818 | 821D7A | 5804 | 70052 | 05 | 700S1 | 5103 | 246DE | 6001 | 460D7 | 7791 | 747D7 | 7915 | 668D7 |  |
| 351E－817 | 821DE | 5806 | 70051 | 06 | 70052 | 5104 | 246DEX | 6002 | $461{ }^{\text {d }}$ | 7792 | 542DEZ | 7916 | 669 D 7 |  |
| 351P－999 | NR | 5807 | 70053 | 07 | 700D1 | 5105 | 246D6 | 6003 | 462DS | 7793 | NR | 7917 | 672 D 7 |  |
| 352E－816 | 822DEEE | 5809 | 46057 | 08 | 800Ss | 5106，5107 | 247D6 | 6004 | 463DS | 7794 | 596D7 | 7918 | 673D9 |  |
| 352P－999 | NR | 5810 | 46053 | 09 | 800DS | 5108 | 243DE | 6005 | 464DS | 7795 | 735 D 7 | 7919 | 678D7 |  |
| 3535－911 | NR | 5812 | 808ss | 10 | 702S1 | 5109，10，11 | NR | 6007 | 465DS | 7796 | 745D7 | 7920 | 683D7 |  |
| 353E－912 | 825DEV | 5817，5820 | 70057 | 11 | 70253 | 5112 | 242DE | 6029 | 111D7C | 7797 | 734D7 | 7921 | 685D7 |  |
| 400P－798 | 679DQ | 5822 | 46255 | 12，14，18 | 70057 | 5113 | 245DE | 6030 | 111DEC | 7798 | 214D6 | 7922 | 686 D 7 |  |
| 4015－913 | NR | 5824 | 36559 | 13，19 | 70053 | 5114 | 242DET | 6031 | 111DET | 7799 | $7410{ }^{\text {7 }}$ | 7923 | 687 D 7 |  |
| 401E－914 | NR | 8800 | 16458 | 15 | 70052 | 5115 5116 | ${ }^{242} \mathbf{2 4 E X}$ | ${ }_{6032}^{6033}$ | ${ }_{112 \mathrm{DEM}}$ | ${ }_{7} 780000$ | ${ }^{710 D 7}$ | 7924 | 688DQ |  |
| 402S－915 | 4540D7U | 8801 | 27057 | 16 | 70252 | 5116 | NR | 6033 | 112DEX | 7801，02，04 | NR | 7925 | 699 D 7 |  |
| 402E－916 | 4540 DEU | 8802 | 35958 | 17 | 70257 | 5117 | ${ }^{241 \text { DFR }}$ | ${ }_{6}^{6034}$ | 112 DEC | 7803 | $736 \mathrm{D7} 7$ | 7926 | ${ }_{69007}$ |  |
| 403E－990 | 4541 DE | 8803 | ${ }^{4625 S}$ | 20 | 700 D 7 | 5118 5119 | ${ }_{2 \times}{ }_{\text {24 }}$ | ${ }_{6}^{6036}$ | ${ }_{108 D E Q}$ | 7805 7806 | 740 D 7 | 7927 7928 | 69157 |  |
| 5005－997 | NR | 8804 | 64455 | 21 | 841DS | 5119 | 244DE | 6037 | 108DEQ | 7806 | 794 D 7 | 7928 | 692 D 7 |  |
| 501E－998 | NR | 8805 | 70057 | 22，25，29，30 | 70053 | 5120 | 245DE | 6038 | 108DET | 7907 | $\mathrm{mP7}^{\text {97 }}$ | 7929 | ${ }_{693 D 7}$ |  |
|  |  | 8806 | 89655 | 23，28 | 70057 | 5121 | 245D6 | 6039，40，41 | 114 DEC | 7808，7809 | NR | 7930 | $694 \mathrm{D7}$ |  |
|  |  | 8807 | 46157 | 24，31 | 70051 | 512 | 243D6 | 6042 | NR | 7810 | 699D7 | 7931 | 695D7 |  |
|  |  | 8808 | 35858 | 26 | 159DS | 5123 | 243 DE | 6043 | 113 DFC | 7811 | 212 DEL | 7932 | 696 D 7 |  |
| SANSUI， |  | 8809 | 16458 | 27 | 804DS | 5124 | 242 DLAC | 6044 | 113DEC | 7812 | 212DE | 793 | 681 D 7 |  |
| SANYO， | SHARP | 8810 | ${ }^{3315} 7$ | 32 | 702 D 7 | 5125 | 242DEX | 6045 | 113 DET | 7813 | 4213D6 | 7935 | $682 \mathrm{D7} 7$ |  |
| See Sec | ction II | ${ }_{8812}^{8811}$ | 36858 | 33 | 70253 | 5128 | 242DET | 6046 | 113 DEM | 7814 | ${ }^{738 D} 7$ | 7936 | 697 D 7 |  |
|  | （ion II | 8812 | 46255 | 35，37 | 460S3 | 5127 | 241DME | 6047 | $113 D 7 \mathrm{C}$ | 7815 | NR | 7937 | $698 D 7$ |  |
|  |  | 8813，8814 | 36958 | 36 | 46057 | 5128 | 241DE | 6048 | 115DEM | 7816 | 212 DLX | 7988 | 666 D 7 |  |
| SHU | RE | ${ }^{8815}$ | 16958 | 38 | 460D7 | 5129 | 242DE | 6049 | 121D7 | 7817 | 212 DEM | 7939 | 118D7 |  |
| Private | LABEL | ${ }_{8917}^{8816}$ | 16458 | 39 40 | ${ }^{46157} 7$ | ${ }_{5130}$ | ${ }^{239 \mathrm{D} 7 \mathrm{C}}$ | ${ }_{6}^{6050}$ | ${ }^{119 D 7}$ | 7818 | 212DET | ${ }^{7940}$ | ${ }^{566 D S}$ |  |
| See Sect | tion IV | 8817 8818 | 16557 27258 | ${ }_{25130121}$ | 70017 793 D 7 | 5131,5132 5134,5135 | 239 PEC | 6051 6052 | 11607M | 7819 7820 | 212DEC | 7941,42 793 | ${ }_{\text {NR }}^{\text {N1D }} 7$ |  |
|  |  | 8819 | 085457 | 5690300001 | 796D7 | 5136 | 239DQ | 6053 | 116DEZ | 7821 | 2111D6 | 7\％ | 704D 7 |  |
|  |  | 8820，8821 | 16158 |  |  | 5137 | 239DET | 6054 | 121 D 7 | 78827825 | NR | 7945 | 69707 |  |
| SILVER | RTONE | ${ }^{8822}$ | $\underline{L 85595}$ |  |  | 5138 | 239 DEX | 6055 | 119D7 | 7823 | 743 D 7 | 7946，47 | 629 D 7 |  |
| （Ses | rs） | 8823 8825 | M854SS | SONOT | ONE， | 5139 5140 | 236ZDE | 6060,6061 6200 | ${ }_{492077}$ | 7824 7826 | ${ }^{792 \mathrm{D}} 7$ | 7948 | 629DE |  |
|  |  | 8825 8826 | 164SS 36958 | SONY， |  | ${ }_{5168,5171}$ | 2415 7 | 6202 6203 | 492D7 | 7826 7827 | ${ }_{732 \mathrm{D}}^{7}$ | 7949，50 | ${ }_{204 \mathrm{DEC}}^{292 \mathrm{D}}$ |  |
| If number h | as five | 8827 | 332D7 | STANT |  | 5173，5174 | 252D7 | 6204 | 493D7 | 7828 | 739D7 | 7952 | 205 DEC |  |
| digits，the la | material： | 8828，29，30 | ${ }^{36958}$ | STANT | Ion II | 5175，5176 | 232 DE | 6205 | 594DS | 7829 | 731D7 | 7953 | 705D7 |  |
| denotes tip | d | 8831 | O85157 | Se | Ion 11 | 5176 ED | 2325DE | 6211，13 | 500D1 | 7830 | 243D6 | 7954 | 707 DE | $>$－ |
| 2＝Sapphire |  | ${ }_{8833}^{8832}$ | ${ }^{0} \mathbf{0 8 5 5 3 7}$ |  |  | ${ }_{5178 \mathrm{ED}}^{5178}$ | 230D7 | 6215 6216 | 501D7 | 7831 7832 | ${ }^{746 \mathrm{D}} 7$ | 7955 7956 | 7630077 |  |
| 3 ＝Diam．／S | apph． | 8833 8834 | S85357 | T．A |  | 5178ED 5180ED | 230DE | 6216 6218 | 509D7 50047 | 7832 7833 | NR10 | 7956 7957 | 709 D 71007 | $\bigcirc$－ |
| We list only | the | 8835 | L2553s |  |  | 5186 | 235VDE | 6219 | 505D7 | 7834 | 210DE | 7958 | 703D7 | いへ |
| sapphire ve | rion for | 8836，37，38 | 3695s | 901 | NLA | 5187 | 235SDE | 6220 | 506DS | 7835 | ${ }^{31707}$ | 7959 |  | $\bigcirc 山$ |
| clarity． | 80658 | 8839 8840 | ${ }^{604 D 7 C}$ | 002 | 911 DS | 5188 | 235DE | 6221 | 507DS | 7836，7837 | NR | 7900 | ${ }^{848 D 7}$ | แ Za |
| 5704 | 61652 | ${ }_{8841} 88$ | 760DE | ${ }_{603} 904$ | 942 DS | 5189 5190 | ${ }_{234 D E}$ | 622 6223 | NLA | 7838 7899 | 74007 74007 | 7\％62 thru | 673D7 | の |
| 5706 | ${ }^{80558}$ | 8841 8842 | ${ }^{\text {7604SS }}$ | 904 905 | NLIDS | 5190 5191 | 23177C | 6223 6224 | 509DS | 7898 | 74007 | 7\％65： | NR |  |
| 5708 | ${ }^{80858}$ | 8843 | 27458 | 906 thru 916： | NLA | 5192，5193 | 237 DEC | 6225 | 511D7 | 7841 | 542DE | 7966 | 718D7 |  |
| 5709 | ${ }_{70059}$ | 8844 | 085357 | 917 | P－51 | 5194，5195 | 237DET | 6201 | 490D1 | 7842 | NR | 7967 | 685D |  |
| 5711 5712 | ${ }^{7} \mathbf{7 0 0 5 7}$ | 8845 | 27358 | 923 | 912DS | 51\％6，97，99 | 238DQ | 6251 | 530D1 | 7843 | 797D7 | 7968 | NR |  |
| 5712 | BASS | 8846 | S854SS | 5003 | 110D1 | 5198 | 238 DEP | 6501 | 525D7 | 784 | 72207 | 7969 | 713 D 7 |  |
| 5714，5716 | 35257 | 8847 | 5855ss | 5004 | 111D1 | 5200 | 240 DEDR | 6500，03，04 | NRA | 7815，7846 | 719 D 7 | 7970 | 62208 |  |
| 5715 | 35253 | 8848 8849 | 27458 86358 | 5005 | 114DS | 5200 | NLA | 6801 | ${ }_{\text {NR }}^{\text {N25 }}$ | 7848 | 723D7 | ${ }_{7973}^{79712}$ | $\mathrm{NR}_{6}$ |  |
| 5717 5718 | ${ }_{7}^{702253}$ | 8983 | 710D7 | 5007 | 113 D \％ | 5206 | 264DE | 7201 | 552DS | 7849 | NR | 797475 | NR |  |
| 5718 5719 | 70253 | 8984，85，86 | $711{ }^{7} 7$ | 5008 | 115D7 | 5212，13，18 | 272DS | 7301 | 556DS | 7850，51，52，53 | NR | 7976 | 71707 |  |
| 5719 | 70287 | 88987 | ${ }_{76000}^{111 D}$ | 5009 | ${ }^{116 D S}$ | 5214，17 | 273DS | 7738 | NR | 7854 | 2088 DEX | 7977 thru |  |  |
| 5721 | 801ss | 8988 | 760D7 | 5010 | $117 \mathrm{D7}$ | 5215，16 | ${ }^{274 \mathrm{DS}}$ | 7740 | NR | 7855 | 208 DEL | 7987： |  |  |
| 5724 | BAS－S | ${ }_{8990}$ | 666D7 | 5011，12 | NLA | ${ }_{5461}^{5403}$ | 290D 7 | 7741 774 | ${ }_{\mathbf{N R}}^{818 \mathrm{D} 7}$ | ${ }_{7856} 78$ | 208DE | 7988 | 7607 |  |
| 5777，5728 | NLA | 8992 | 629D7 | 5013 5014 | 108 DEC | 56012 | 301 DS | 774 | ${ }_{901 \mathrm{D}}$ | 7858 | ${ }_{\text {NR }} \mathbf{2 0 1 0}$ | 7994： |  |  |
| 5729 | ${ }_{15653}$ | 8993 | M853DS | 5015 | 111DET | 5603 | 302 D 7 | 774 | NR | 7859 | 611 D 7 | 7995 | 72007 |  |
| 5730 5731 | ${ }_{\text {BASS }}$ | 8994 | 629DQ | 5016 | 111D7C | 5694 | 303D7 | 7745 | NR | 7860 | NR | 7996 thru |  |  |
| 5731 5732 | 152s2 | 8995 | 761 DE | 5018 | 108DQ | 5605 | $304 D 8$ | 7746 | 819D7 | 7861 | 714 D 7 | 7999： |  |  |
| 5733 | 75253 | ${ }_{8998}^{8996}$ | M854DS | 5021 thru |  | ${ }_{5606}$ | 365DS | 7748 | NR | 7862 thru |  | ${ }_{8002}$ | 56008 |  |
| 5734 | ${ }_{75251}$ | 8999 | 617D7 | 5025 | 106DE | 5802 | 325DI | 7749 | 741D7 | 7871 | 715D7 | ${ }_{8} 8016$ | 586D1 |  |
| 5735 5737 | ${ }_{70051}$ |  |  | 5026 | 107DEX | 5804 | 326DS | 7750 | NR | 7872，73，74 | NR | 8017 | 585DS |  |
| 5737 5738 | 70051 |  |  | 5027 | $111 \mathrm{D7C}$ | 5805 | 327 DS | 7751 | NR | 7875 | ${ }^{712 D 7}$ | 8018 | $587 \mathrm{D1}$ |  |
| 5739 | 70052 | SYLVANIA |  | 5028 | 110DET | 5806 | 328DS | 7752 | 817D7 | 7876，77，78 | NR | 8020 | 588D7 |  |
| 5741 | 64151 |  |  | 5031 | 150D1 | 5807 5808 | 330 DS | 7753 7754 | 208 DEV | 7879 7880 | S541DE | ${ }_{8002}^{8002} 8$ | 591D |  |
| 5742，5746 | 800ss | All prefix 11： |  | 5032 5033 | ${ }_{152 \mathrm{D} 1}$ | 5809 | 329D7 | 7755 | 740D7 | 7881，82 | 4540 DEU | ${ }^{3024}{ }^{\text {a }}$ | 592P7 |  |
| 5745 | 15651 | 10329－1 | 70051 | 5034 | 153DS | 5810，11 | 563DS | 7756 | 793 D 7 | 7883 | 4540 D 7 U | 3025 | 593D7 |  |
| 5747 5748 | ${ }^{80258}$ | 10329－2，13 | 16455 | 5005 | 154D1 | 5812 | 332 D 7 | 7757 | 794D7 | 7884,86 | NR | 3049 | 581DS |  |
| 5748 5749 | 50351 500525 | 10329－3 | 70057 | 5037，43 | NLA | 5831 | 350D1 | 7759 | 900 D 7 | 7885 | 209 D 6 T | 9051 | 618DS |  |
| 5750 | 15451 | $10329-4,14$ $10329-15$ | 166DS 163DS | 5044 | 159DS 159 D 7 | 5833 5834 | 351DS | 7760 7761 | ${ }_{816 \mathrm{D}}^{7} 7$ | $7887,88,89$ 7890 | ${ }_{\text {N21D }}$ | 8052 8054 | 616D7 |  |
| 5751 | 15458 | 10329－16 | 165DS | 5047 50475051 | 159D7 164DS | 5838 | 354 DI | 7762 | 746D7 | 7891 thru |  | ${ }_{8056}$ | 61707 |  |
| 5752 | 80258 | 10329－17 | 604D7T | 5048 | 161DS | 5841 | 355DI | 7763 | 7\％D7 | 7896： | NR | 8058 | 619DS |  |
| ${ }_{5754}$ | 7545 | 10329－18 | 606D7M | 5049 | 162DS | 584 | 356DS | 7764，65 | $\mathbf{N R}$ | 7897 | 712D7 | 8059 | 622DS |  |
| ${ }_{5756}$ | ${ }^{80151}$ | 10329－19，20 | 365DS | 5050 | 163DS | 5815 | 358 DS | 7766 | 819 ${ }^{\text {7 }}$ | 7989，7999 | NR | 8060 | 791DS |  |
| 5756 | 15358 | 10329－22 | 605D7T | 5053 | 165DS | 5846 | 360D1 | 7767 thru |  | 7900，7901 | 595D7 | 8061 | 627 D 7 |  |
| 5757 <br> 758 | 15681 | 10329－30 | ${ }^{27455}$ | 5057 | 169DS | 5845 | 359 DS | 7771 ： | NR | 7902 | 612 DE | 8062 | $674 \mathrm{D7}$ |  |
| 5758 | 15051 | 26594－11 | S855DS | 5058 | 166D7 | 5849 | 365DS | 777 | 798D7 | 7903 | 612DQ | 8063 | 621 D 7 |  |


| T.A.E. (Continued) | $\begin{aligned} & \mathrm{Our} \\ & \mathrm{Ne} . \end{aligned}$ | T.A.E. (Comilmued) | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ | T.A.E. (Centimed) | $\begin{aligned} & \text { Our } \\ & \text { Ne. } \end{aligned}$ | TETRAD (Continued) | Our No. | TRANSCRIBER  <br> (Continued) O |  | $\begin{array}{ll}\text { TRANSCRIBER } & \text { Our } \\ \text { (Continued) } & \text { No. }\end{array}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8065 | 62357 | 84103 | 6 EIDI | 8362 | 8 IIDS | 820,82S | L35615 |  |  | 83 | 303 D 7 | 199 | 899D7 |
| 8065 | 624]7 | 8405,8407 | 643DS | 8803 | 842DS | 83D,83S | M856DS | P-48 | 860D1 | 84 | NLA | 200 | 274DS |
| 8066 | 494DS | 8408 | 644DS | 8804 | 843D | 84D,84S | L856DS | P. 52 | 646D1 | 85 | 997DS | 201 | 849D7 |
| 8067 | $611 \mathrm{D}^{7}$ | 8409 | 645D7 | 8816 | 850D1 | 90D,90s | O855D7 | P-53 | 354D1 | 86,87 | ${ }^{251 D 7}$ | 202 | NR |
| 8068 | 612D7 | 8410 | 646D7 | 8818 | $851 \mathrm{D7}$ | 93D,93S | M855DS | P-54 | 355DI | 88 | $252 \mathrm{D7}$ | 208 | $711{ }^{\text {7 }}$ |
| 8069 | 613D7 | 8411 | 647D8 | 8826 | O855D7 | 110 D | O855D 7 | P-55,56,57 | NLA | 89 | SS54DS | 204 | O853D7 |
| 8070 | 628D7 | 8412 | 648DS | 8827 | M854DS | 121D | S854DS | P-58 | 161DS | 90 | S853DS | 205 | 72207 |
| 8071 | 625D7 | 8413 | 649D7 | 8828 | S855DS | AOD,AOS | O853D7 | P-59 | 912DS | 91 | S855DS | 206 | 596D7 |
| 8072 | 626D7 | 8414 | 650Ds | 8829 | S854DS | A1D,A1S | S853DS | PE-10 | 561 DS | 92 | L355DS | 207 | 719D7 |
| 8073 | $631{ }^{\text {7 }}$ | 8415 | $651{ }^{\text {b }} 7$ | 8830 | L855DS | A2D,A2S | L853DS | PE-12 | 560DS | 93,94 | M855DS | 208 | 793D7 |
| 8074 | 632D7 | 8416 | 653D8 | 8831 | M855DS | A3D,A3S | M853DS | PE-7000 | 562D1 | 95 | L853DS | 209 | 796D7 |
| 8075 | 635D7 | 8417 | $654 \mathrm{D7}$ | 8832 | L856DS | A4D,A4S | L853DS |  |  | 96 | 563DS | 400 | 823DEQ |
| 8076 | 637D7 | 8431,8433 | 700D7 | 8833 | L853DS | B0D,BOS | O853D7 | Following | re all | 97 | S954DS | 401 | 823DQ |
| 8077 | 638D7 | 8434 | 701 D 1 | 8834 | L854DS | B1D,B1S | S853DS | stereo need | ces, either | 98 | M853DS | 402 | 822DEEE |
| 8078 | 63007 | 8436,8437 | 702 D 7 | 8835 | O853D7 | B2D,B2S | L853DS | PS or NO | efix: | 99 | 593D7 | 408 | 822 DEE |
| 8079 | 639D7 | 8601 | 72598 | 8836 | M853DS | 83D,B3S | M853DS | 1 | 804DS | 100 | 863DS | 404 | 822D7A |
| 8080 | 614D7 | 8611 | 752D7 | 8837 | M856DS | B4D,B4S | L853DS | 2,3A | 702 D 7 | 101 | 862DS | 405 | 821DEE |
| 8081 | 636D7 | 8612 | 751D | 8838 | L855DS | COD,COS | O853D7 | 3 | 290D7 | 102 | 649D7 | 406 | 821DE |
| 8082 | 621 D 7 | 8613 | 750D1 | 8839 | O856D7 | C1D,C1S | S853DS | 4 | 910DS | 103 | 464DS | 407 | 820D7A |
| 8083 | 633D7 | 8614 | 754DS | 8840 | O854D7 | C2DC2S | L853DS | 5 | 352 D 7 | 104 | 493D7 | 408 | 820DEE |
| 8084 | 63477 | 8615,8617 | 4760D6 | 8841 | L854DS | C3D,C3S | M853DS | 6 | 941DS | 105 | 329D7 | 409 | 820DE |
| 8085 | 67007 | 8616 | 760DEJ | 8842 | S856DS | CAD,C4S | L854DS | 7 | NLA | 106 | NR | 410 | 820 D 7 AL |
| 8086 | 671D7 | 8618,862 | 757 D 7 | 8843,8844 | L856DS | EOD,EOS | O854D7 | 8 | 270D7 | 107 | 590D7 | 500 | 605 DEM |
| 8087 | 673D7 | 8619 | 47600 | 8445,8850 | O853D7 | E1D,E1S | S854DS | 9,98 | 757D7 | 108 | 592D7 | 501 | 605DET |
| 8088 | 672D9 | 8620 | 4764DE | 9202 | 860D1 | E2D,E2S | L854DS | 10 | 804DS | 109 | 368DS | 502 | 605D7M |
| 8099 | 675D7 | 8622,23,24 | 4759D7 | 9204 | 86158 | Ead,EzS | M854DS | 11 | 700D7 | 110 | 272DS | 593 | $605 \mathrm{D7T}$ |
| 8090 | 67617 | 8625,25,27 | NLA | 9208 | 863DS | EAD,ELS | L854DS | 12 | 980DS | 111 | 169DS | 504 | 605D7C |
| 8091 | 677D7 | 8628,30 | 4760DE | 9210 | 862DS | GOD,GOS | O854DS | 14 | 4600] | 112 | 7900DS | 505 | 604D3 |
| 8092 | 679DE | 8629,33 | 4759DE | 9211,9212 | 864DS | G1D,G1S | S854DS | 15,22 | 757D7 | 113 | 232DE | 506 | 604DEM |
| 8093 | 68007 | 8632 | NLA | 9435 | 892D7 | G2D,G2S | L854DS | 16 | 643D6 | 114,117,119 | L853DS | 507 | 604DET |
| 8094 | 629DQ | 8634,35 | 476006 | 9439 | 893DS | G3D,G3S | M854DS | 17 | 504D | 115 | 170DS | 508 | 604D7M |
| 8095 | 678D9 | 8636,38 | 4761DE | 9802 | 896DS | G4D,G4S | L854DS | 18 | 993DS | 116 | 369DS | 509 | 604 DTT |
| 80\% | 648D7 | 8639 | 4762DE | 9803 | 897DS | K1D | S853DS | 19 | 892D7 | 118 | 167DS | 510 | 604D7C |
| 8097 | 679DQ | 8640 | 4763DE | 9804 | 898DS | TILD | M855DS | 20,29 | 808DS | 120 | 16607 | 511,512 | $603 \mathrm{D7T}$ |
| 8098 | 706D7 | 8611 | 801D1 | 9805 | 899D7 | T2MD, 73 MD | M854DS | 21 | 841DS | 121 | 304DS | 513 thru 516: | 603D7C |
| 8099 | 849D7 | 8642 | 800DS | 9952 | 727D7 | T5HD | M853DS | 23 | 114DS | 12 | 618DS | 517,522 | NR |
| 8101 | 601DEM | 8643 | 802DS | 9953 | 728D7 | T10LD | 0855 D 7 | 24 | NLA | 123 | 370DS | 518 thru 521: | 601D7C |
| 8102,03 | 4604 DEC | 8644 | 808DS | 9954 | 4726D7/ | T20MD | $0854 \mathrm{D7} 7$ | 25 | 70017 | 124 | 812DS | 523 | $601 \mathrm{D7C}$ |
| 8104,07 | 4604D7C | 8646 | 803D1 |  | PR | T30MD | 0854D7 | 26 | 492D7 | 125 | 650DS | 524,25,26 | 605D7C |
| 8109.8110 | 603D7T | 8647 | 809DS |  |  | T50HD | O8S3D7 | 27 | $5^{505 D 7}$ | 126 | 843 DS | 527 | $604 \mathrm{D3}$ |
| 8111,8112 | 603D7C | ${ }^{8648}$ | 812DS |  |  | TD-1 | 0856 D 7 | ${ }^{28}$ | 159DS | 127 | L854DS | 528 | 604D7C |
| 8116,17,21 | 601D7C | 8649 | 811DS | TELEF | NKEN | TS-1 | 085657 | 30 | $461{ }^{\text {7 }}$ | 128 | 165DS | 529 | $604 \mathrm{D7T}$ |
| 8123 | GOSDEM | 8650 | 810 D 7 | See Se | tion II | TZ1D | S854TD | 31 | 330DS | 129 | 791DS | 530 | 606DEM |
| 8124,26 | 4605 DET | 8653 | 807DS | See Se | Ion 1 |  |  | 32 | 944DS | 130 | 117D1 | 531 | 606DET |
| 8125 | 4605D7C | 8654 | 806DS |  |  |  |  | 33 | 807DS | 131 | 813DS | 532 | 606DEC |
| 8127 | 4604 DEC | 8655 | 805DS |  |  |  |  | 338 | 806DS | 132 | 623 DS | 533 | $606 \mathrm{D7M}$ |
| 8128,8129 | 4604D7C | 8656,8657 | 812DS | TET | AD | TOSHI | IBA, | ${ }^{33} \mathrm{C}$ | 805DS | 133,134 | L853DS | 534 | 606 D 7 T |
| 8130,8131 | 4605D7C | 8658 | ${ }^{\text {813DS }}$ |  |  | TOYO | TA | 34 | 164DS | 135 | M853DS | 535536 | 606D7C |
| 8133 | 606 DEC | 8660,61,62 | ${ }_{766 \mathrm{DF}}$ | SUFFIX | DEt | See Section |  | 35 | 462DS | ${ }_{1}^{136}$ | S854DS | 537 538 | ${ }_{606 \mathrm{D} 3}$ |
| 88134 | 606DEM | ${ }^{8663}$ | 76657 | D = Diamo | id or | See Sect |  | 36 37 | 32685 | 137 | L854DS | 538 539 | ${ }^{606 D E G}$ |
| 8135 | 606DET | ${ }^{8664}$ | 765 DQ | Diamond/ | pphire |  |  | 37 | ${ }^{328 \mathrm{DS}}$ | ${ }^{138}$ | M854DS | 539 | 604 DEC |
| 8136 | $6065 E C$ | 8665 | ${ }^{7688 \mathrm{DE}}$ | $\mathbf{S}=$ Sapph | or |  |  | 38 | 506 DS | 139 | 811DS | 540 thru 543: | 525D7 |
| ${ }^{8137} 8138139$ | 606D7M | 8666 | 768D6 | Sapphire/8 | pphire | TRANSC | RIBER | 39 | ${ }^{640} 5$ | 140 | 648DS | 54 thru 550. | NLA |
| ${ }_{8142}^{8138,8139}$ | 4606D7C | 8667 8668 | 76003 75908 | We liat Dit | ond |  |  | 40 | 842DS 301 DS | 141,14 143 | 664DS | 551,54,56 552,57 | ${ }_{\text {NLA }}$ |
| 8143 | 607 DEC | 8669 | 76153 | only, for |  | Prefix Code: | onaual | 42 | 359DS | 144 | 813DS | 558 thru 562: | NLA |
| 8144,8147 | 4607D7C | 8670 | 4772DHE |  |  |  | edies | 43 | 358DS | 145 | 235 VDE | 563 | 104DE |
| 8145 | 607DEM | 8671 | 767D3 | 100,10s | O8S5D7 |  |  | 4 | 896DS | 146 | 615D7 | 564 | NLA |
| 8146 | 607D7M | 8672 | 76013 | 11D,115 | S855DS | P-2A | 503D1 | 45 | 588D7 | 147 | S853DS | 570 | 607DEM |
| 8148 | 606DEX | 8673 | 767DHE | 12D,12S <br> 13 D <br> 15 | LR55DS | ${ }_{\text {P-3 }}$ | 700D1 | 46 | 15977 | 148 | 998DS | 571 | 607D7M |
| 8149,50 | 609DEQ | 8674 | 769DED | $13 \mathrm{D}, 13 \mathrm{~S}$ 140.145 | M855DS | P-3A | 702D1 | 47 | NLA | 149 | 174DS | 572 | 607DET |
| 8151 | 608DQx | 8675 | 769DEJ | $14 \mathrm{D}, 14 \mathrm{~S}$ 200,20s |  | P-4 | 800DS | 48 | ${ }_{\text {462 }}^{46 \mathrm{DS}}$ |  | 791DS | 573 574 | 607 DEC |
| 8152 8153 | 606DEL | 8676 8677 | 769D7 | 200,20s $21 \mathrm{D}, 215$ | O854D | P-5 | 802DS | 49 50 | 505D7 617 D | 151 | ${ }_{2730 \mathrm{D} 7}$ | 574 | ${ }_{N R}^{607 D 7 T}$ |
| 8153 8154 | 608DEV 600DSE1 | 8677 8678 | 764DMR 768 DE | 21D,215 $20 \mathrm{D}, 225$ | O854DS | P-6 | 754DS | 50 51 | 617 D 7 615 D | 152 153 | 373D7 | 575 576 |  |
| 8154 8155 | 600DSE1 | 8678 8679 | 768DE 768 D 6 | 23D,235 | M854DS | P-7 | 556DS | 51 52 | 615D 591DS | 153 154 | 376D7 L856DS | 576 | 607D7 696DEX |
| 8156 | 6000 $6 E$ | 8680 | 76007 | 24D,24S | LP54DS | P-9 | 640D | 53 | 463 DS | 155 | 369DS | 578 | 607DET |
| 8157 | 60007E | 8681 | 771DHE | 30D,305 | O955D | P-10 | 752 D 1 | 54 | 808DS | 156 | 465DS | 579 | 607 DTT |
| 8158 | 600DSE | 8682 | 771DHE | 31D,315 | S855DS | P-12 | 156D1 | 55 | 33117 | 157 | 464DS | 580 | 608DEV |
| 8159 | 60403 | 8683,8684 | NLA | 32D,325 | L855DS | P-13 | 150D1 | 56 | 507 DS | 158 | 171DS | 581 | 606 DEL |
| 8160 | 60403 | 8685 | NR | 33 D 335 34 D 345 | M855DS | P-14 | NLA | 57 | 36658 | 159 | 172DS | 582 | 608D0X |
| 8161 | 608DEV | 8686 | 771D8 |  | 18551 | P-15 | 942DS | 58 | 363D7 | 160 |  | 583,584 | 608DEQ |
| ${ }^{8163}$ | 609 DE | ${ }_{8689}^{8668888}$ | NTA | 40D,40s | O854D | P-16 | 911DS | 59 60 | 812DS 811DS | 161 162 | ${ }_{\text {L854DS }}$ | 585 586 | 6000D5E |
| 816,65,66 8167 | NR | 8689 8690 | 770DEC | 41D,41S | S854DS | P-17 | 581 DS | 60 61 | 811DS 809DS | 162 163 | L354DS | 586 587 | 60006E 607DEM |
| ${ }_{8168}$ | 609 DEX | ${ }_{8691}$ | NLA | 43D43S | M854DS | P-19 | 5830 D 1 | 62 | 115 D 7 | 164 | 700D7 | 588 | 608DEV |
| 8169 | 609DX | 8692 thru |  | 44D,44S | ${ }^{\text {LP54DS }}$ | P-22 | 500 D 1 | 63,64,66 | 758D7 | 165 | 173DS | 589 | 600D7E |
| 8170,71 | NR | 8695: | NR | 50D50S | O853D7 | $\stackrel{+}{\text { P-23 }}$ | 801 D 1 | 65 | 759D7 | 166 | 274DS | 590 | 600D8E |
| 8250 | 824 DE | 8696,8697 | 775DLT | 51D,515 | S853DS | P-24 | 751D1 | 67 | 164DS | 167 | S853DS | 591 | 604D7C |
| 8251 | 4820 DE | 8698 | 775 DLX | 52D,52S | L853DS | P-25 | 880D1 | 68 | S855DS | 168 | 653DS | 592 | 604D7T |
| 8252 | 820DEE | 8699 | 771DLT | 53D,53s | M853DS | P-26 | 351 DS | ${ }_{69} 9$ | S854DS | 169 173. | 654D7 | 593 59 | 604DEC |
| 8253 | 820 D 7 AL | ${ }^{8700}$ | ${ }_{7900 \mathrm{~S}}$ | 54D,54S 600.605 | O853D7 | P-27 | 752D1 | 70 | 509DS | 170 thru 173: | 332D7 | 594 | ${ }_{609 \mathrm{DE}}^{60}$ |
| 8254 | 821DEE | ${ }_{8702}^{8701}$ | 790DS | 601,605 $61 \mathrm{D}, 615$ | S853DS | P-28 | 751 D 1 | 7 7 | 898DS | ${ }_{179}^{174}$ | 263D7 |  | ${ }^{\text {699DEL }}$ |
| 8255 8256 | 8210 L | 8702 8703 | ${ }^{791 \mathrm{DS}}$ | 61D,615 | L853DS | P-29 | 154D1 | 72 73 | ${ }_{6}^{165 D S}$ | 179,184 180,181 | 374DS 373DS | 596,597 600 thru 603: | 609DEX |
| 8257 | 222DEEE | 8704 | 776DHE | 63D,63s | M853DS | P-32 | 350D1 | 74 | 163DS | 182,183 | 371DS | 604,605 | NLA |
| 8258 | 822DEE | 8705 | 778 DE | 64D,64S | ${ }^{\text {L253DS }}$ | P-34 | 152D1 | 75 | 810D7 | 185,186 | 494DS | 606,607 | T9907 |
| 8259 | 824DEI | 8706 | 773DHL | 70D,70s | O856D ${ }^{\text {S }}$ | P-35 | NLA | ${ }_{76}^{76}$ | ${ }^{302 \mathrm{D}}$ 7 | ${ }^{187,188}$ | ${ }^{161 D^{\prime}}$ | 608,609 | 7590 ${ }^{\text {P }}$ |
| 8260 | 822774 | 8707 | ${ }_{777 \mathrm{DHE}}$ | 71D,715 720725 | S856DS | P-36 | 151D1 | 77 | 535DS | 189 thru 193: | NR | 610 | 7600ED |
| 8262 | ${ }^{826 \mathrm{DE}}$ | 8708 8709 | 77DHX | 73D,73S | M856DS | P-37 | 490D1 | 78 79 | 557DS | 194 | 62707 | 611,614 | NLA |
| 8263 8264 | ${ }_{826 \mathrm{DEX}}$ | 8709 8710 | 773DLT 773DMR | $73 \mathrm{D}, 735$ $74 \mathrm{D}, 745$ | L856DS | P-42 | 840DS | 79 80 | 464DS | 195 196 | 632D7 510DS | 612,613 $615,616,624$ | 762DE |
| 8264 8265 | ${ }_{\text {826 }} \mathbf{8 2 6 0 X}$ | 8710 8711 | 773DMR 773DHE | 80D,808 | 0856 D 7 | P-43 | 701D1 | 80 81 | ${ }_{23} 23 \mathrm{DSS}$ | 197 | 558D7 | 615,616,624 | 761DED |
| 3401 | 640D1 | 8801 | 840DS | 81D,81S | S856DS |  |  | 82 | 647DS | 198 | 595D7 | 618,621 | NLA |







## SECTION v

NEEDLE CROSS-REFERENGE


| ZAFIRA (Continued) | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ | Zafika <br> (Cendined) | Our No. |
| :---: | :---: | :---: | :---: |
| -68839 | 63657 | 6572 | $6 \% 81$ |
| 6440 | 616 D 7 | 6573 | 621 D 7 |
| 641 | 615D7 | 6574 | 664D7 |
| 6412 | 617 D 7 | 6757,78 | NR |
| 6143 thru |  | 6576 | 699D7 |
| 6446: | NR | 6577 | $634 \mathrm{D7}$ |
| 6447 | 662 D 7 | 6579 | 677D7 |
| 64472 | 795D7 | 6579.2 | 743D7 |
| 64473 | 4213D6 | 6579.3 | 698D |
| 6447 A | 818D7 | 6579.4 | 710D7 |
| 6448 | NR | 6579.5 | 732D7 |
| 649 | 698D7 | 6579.6 | 738D7 |
| 6450 | 624D7 | 6579.7 | 4213D6 |
| 6451 | 663D7 | 6579.8 | 744D7 |
| 6452 | 611D7 | 6579.9 | NR |
| 6453 | NR | 6580 | 680D7 |
| 6454 | 628D7 | 6580.2 | NR |
| 6455 | 717 D 7 | 6580.3 | 118D7 |
| 6456 | 623D7 | 6580.4 | 813DS |
| 6457 | 621 D 7 | 6580.5 | 713D7 |
| 6458 | NR | 6580.6 | 715D7 |
| 6459 | 703D7 | 6580.7 | 708D7 |
| 6460 | 71007 | 6580.8,9 | 719D7 |
| 6461,64 | 737D7 | 6581 | 665D7 |
| 6462 | 733D7 | 6581.2 | 7947 |
| 6463 | 4211D6 | 6581.3 | NR |
| 6465,66 | 748 D 7 | 6581.4 | 7947 |
| 6467,68,70 | NR | 6581.5,9 | 817D7 |
| 6469 | 4216D5 | 6581.6 | 746D7 |
| 6471 | 81607 | 6581.7 | 214D6 |
| 6480 | 69707 | 6581.8 | 793D7 |
| 6481,83 | 71007 | 6582 | $614 \mathrm{D7}$ |
| 6462 | 411D7C | 6582.2 | 736D7 |
| 6484 | 2 ALDS | 6582.3 | 736D7K |
| 6485 | 721D7 | 6582.4 | 119D7 |
| 6486 | 718D7 | 65825 | 796D7 |
| 6487 | NR | 6582.7 | 740D7 |
| 6488 | 4211D6 | 6582.8 | 693D7 |
| 6489 | 541DEG | 6582.9 | 799D7 |
| 6490,91 | NR | 6583 | 666D7 |
| 6492 | 117D6 | 6583.2 | 90107 |
| 6493 | 71107 | 6584,67 | NR |
| 6495 | 799D7 | 6585 | 686D7 |
| 6500,02 | NR | 6586 | 667D7 |
| 6508 | 212DE | 6588 | 712D7 |
| 6508.2 | NLA | 6589 | 621 D 7 |
| 6508.3 | 411DC | 6590 | 69707 |
| 6508.4 | 4760DE | 6590.8 | 202DEM |
| 6508.5 | 4213D6 | 6591 | 200D7C |
| 6508.6 | 760D6 | 6592 | 201 DEX |
| 6508.7 | 776 DE | 6593 | 714D7 |
| 6508.8 | 1100 ET | 6594,96 | 71007 |
| 6508.9 | 60407 | 6595 | 209D6T |
| 6509 | 697D7 | 6597 | 206DEM |
| 6509.2 | 711 D 7 | 6597.2 | 670D7 |
| 65093 | 773 DHL | 6597.3, 8 | NR |
| 6510 | 206DET | 6597.4 | 731D7 |
| 6520 | 640D1 | 6597.6 | 710D7 |
| 6521 | 641 D 1 | 6597.7 | 210DE |
| 6523 | 643DS | 6597.9 | 745D7 |
| 6525 | 64DS | 6598 | $721{ }^{\text {P }}$ |
| 6526 | 645D7 | 6598.2 | 614D7 |
| 6523 | 646D7 | 6598.3 | 212D6C |
| 6530,40,50 | NR | 6598.4 | 4213D6 |
| 6559 | 666D7 | 6598.5 | 746D7 |
| 6560 | 70207 | 6598.6 | 736D7 |
| 6561,62 | NR | 6598.7 | 4211D6 |
| 6563 | 70007 | 6598.8 | NR |
| 6564 | 701 D 1 | 6598.9 | 740D7 |
| 6566,67,68 | NR | 6601,05 | NR |
| 6568.2 | 2 201DEX | 6602 | $200 \mathrm{D7T}$ |
| 6568.3 | 207 DE | 6603 | 697 D 7 |
| 6568.4 | NR | 6604 | 209D6T |
| 6568.3 | NR | 6606 | 4213D6 |
| 6569 | 697D7 | 6607 | 792D7 |
| 6569.2 | 695D7 | 6608 | 740D7 |
| 6569 A | 68017 | 6609 | 669 D |
| 6569.5 | NR | 6612 | 617D7 |
| 6569.6 | 210DE | 6612.2 | 4213D6 |
| 6569.7 | 721D7 | 66123 | 742D7 |
| 6569.8 | 792D7 | 66124,5 | NR |
| 6570 | 665D7 | 66126 | 736D7 |
| 6570.2 | 670077 | 66127 | NR |
| 6570.3 | 201DQx | 6612.8 | 674D7 |
| 6570.4 | 20007C | 66129 | 793D |
| 6570.6 | 697D7 | 6613 | 724D7 |
| 6570.8 | 635D7 | 6613.2 | 817D7 |
| 6570.9 | NR | 6613.3 | NR |
| 6571 | 636D7 | 6613.4 | 4211D6 |
| 6571.2 | 669D7 | 6613.5 | 901 D 7 |
| 6571.3 | NR | 6613.6 | 4211D6 |
| 65714 | 732D7 | 6614 | 710D7 |
| 6571.5 | 819D7 | 6615 | 669D7 |
| 6571.6 | 4211D6 | 6616 | 200D7C |


| ZAFIRA <br> (Continued) | Oar No. |
| :---: | :---: |
| 6617 | 6551 |
| 6618,20.21 | NR |
| 6619 | 621D7 |
| 6622 | 716D7 |
| 6662,25,27 | NR |
| 6624 | 697D7 |
| 6626 | 667D7 |
| 6628 | 695D7 |
| 6629 | 660D7 |
| 6629.2 | NR |
| 6629.3 | 698D7 |
| 6629 A | 708D7 |
| 6629.5 | 4211D6 |
| 6629.6 | 710D7 |
| 6629.7 | 799D7 |
| 6629.8 | 214D6 |
| 6629.9 | 792D7 |
| 6630 | 776DE |
| 6630.2 | 757D7 |
| 66303 | 765DQ |
| 66304, 5 | NLA |
| 6630.6 | 768DE |
| 6630.7,8 | NR |
| 6630.9 | 772DLT |
| 6631 | 776DEL |
| 66312 | 769D7 |
| 6631.3 | 769 DED |
| 66314 | 769DE |
| 6632 | 776DEX |
| 6632.2 | 778DE |
| 66323 | 776DHE |
| 6632.4 | 773DHL |
| 6632.5 | 777DHE |
| 6632.6 | 777DHX |
| 6633 | 4772 DHE |
| 6633.2 | 773DHE |
| 6633.3 | 773DLT |
| 66334 | 773DMR |
| 6633.5 | 760DED |
| 6633.6 | 767DHE |
| 6633.7 | 771DHE |
| 6633.8 | 764DMR |
| 6636 | 766D7 |
| 6637,39 | 4759D7 |
| 6638 | 4759DE |
| 6640,41, 22 | NR |
| 6613 | 47600E |
| 6645 | 4761DE |
| 6648 | 4763DE |
| 6649 | 4764DE |
| 6650,55 | NR |
| 6651 | 4767DE |
| 6653 | 768D6 |
| 6654 | 770DEC |
| 6656 | 4749D7 |
| 6658 | NR |
| 6659 | 771DHE |
| 6659.2 | 771D7T |
| 66593 | 774DE |
| 66594,5 | NR |
| 6659.6,7 | 475907 |
| 6659,8, 9 | 4759DE |
| 6660 | 4726D7Pr |
| 6660.2 | $4^{4727 D 7 P r}$ |
| 66603 | 4728D7PT |
| 6662 thru |  |
| 6662.7: | NR |
| 6662.8 | 212DEC |
| 6662.9 | 212DET |
| 6663 | 212DEL |
| 6665 | 202DEM |
| 6665.2 | NR |
| 6665.3 | 710D7 |
| 6665.4 | 4111D7C |
| 6665.5 | 721D7 |
| 6665.6 | NR |
| 6665.7 | 711D7 |
| 6665.8 | 4211D6 |
| 6666 | 697D7 |
| 6666.2 | NR |
| 66663 | 732D7 |
| 6666 A | 742 D 7 |
| 6667 | 695D7 |
| 6668 | 698D7 |
| 6669 | NR |
| 6669.2 | 721D7 |
| 6669.3 | 4111D7C |
| 6669 A | 680D7 |
| 6669.5 | 710D7 |
| 6669.6 | 670D7 |
| 6669.7 | 713D7 |
| 6669.8 | 210DE |
| 6669.9 | 792D7 |
| 6670 | 803 DI |


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| EMPIRE <br> (Continued) | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ | $\begin{array}{ll}\text { EMPIRE } & \text { Our } \\ \text { (Conthued) } & \text { No. }\end{array}$ | JENSEN $\begin{aligned} & \text { Our } \\ & \text { No. }\end{aligned}$ | $\begin{array}{ll} \text { MAGNAVOX } & \text { Our } \\ \text { (Contimued) } & \text { No. } \end{array}$ | Penncrest ${ }^{\text {Our }}$ No. | $\begin{array}{ll} \text { P-E } & \text { Our } \\ \text { No. } \end{array}$ | PHILCO Our <br> (Continued) No. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $2600 \times$ | M10SE | $9900 \mathrm{E} 2,3{ }^{140 \mathrm{C}}$ |  | 5690200003,7 P-187D | - - |  | -4 P4160 |
| 3000 | $140 C$ | 11000LSX/II: M105E |  | 5690500007,9 AT3400 | PLEASE NOTE | P-E | 2894 - P-413D |
| 3000 I | 140 C |  | JENSEN | 5690500008 P-187D | PLEASE NOTE | P-E | 2896-1 P-402D |
| 30001I,III | 140 C |  |  | 5690500010 P-187D | If the number you are |  | $\begin{array}{ll}\text { 2897-1 } & \text { P-181D } \\ \text { 2897-2 } & \text { P420D }\end{array}$ |
| 3000 A | M105E | GARRARD | late modelo,Jensen | 7044250634 AT3400 | looking for is not | All have PE-prefix : <br> 9000/2 M-44-C | P420D |
| $3000 \mathrm{~A} / \mathrm{I}$ | 140 C | GARRARD | cartidge numbers were |  | listed, then we no longer provide a |  | All have 325-prefix: |
| 3000A/III | ${ }_{140 C}^{140 C}$ |  | the rame as EVG. See |  | longer provide a replacement for it. | PFANSTIEHL | 0065 P. |
| 3000AE/III | $140 C$ M105E | $\mathrm{KS4AA}$ $\mathrm{P}-226$ <br> KS1C P-132D | EVG listing If Jensen number is not found | MOTOROLA | replacement for it. | PFANSTEHL | $0145-148 \quad$ P-181D |
| $\begin{aligned} & 3000 \mathrm{~A} / \mathrm{V} \\ & 3000 \mathrm{D} / \mathrm{X} \end{aligned}$ | ${ }_{140 \mathrm{C}}^{\text {M105 }}$ | KS41C P-132D <br> Model 30 P-158D | number is not found here. |  |  | NOTE: "NS" | 0169 P-421D |
| 3000 E | 140 C |  | here. 1 | All 398 E prefix |  | indicates that we have | $\begin{array}{ll}0170 & \text { P-434 } \\ \text { 13719 }\end{array}$ |
| 3000E/D | 140 C |  | 37,37SD 942DS |  | PENNCREST | no suitable substitute | $\begin{array}{ll}1371-9 & \text { P-16 } \\ \text { 13768 }\end{array}$ |
| 3000E/II | 140 C | E | 41,42,43 911DS | 60872AC2 P-132D |  | for the old Pfanstiehl | $\begin{array}{ll}1376-68 & \text { P-18 } \\ 1513-44 & \text { P-406D }\end{array}$ |
| 3000E/III | 140 C |  | 46,47 941DS |  | $\begin{array}{ll}\text { 2-11D-J1 } & \text { P-412D } \\ \text { 2-11D-3 } & \text { P.412D }\end{array}$ | cartridge, which has | $\begin{array}{ll} 1513-44 & \text { P-406D } \\ 1513-45 & \text { P-406D } \end{array}$ |
| 3000ME/X | 140 C | 11985265-1,-2 P-2 | 48 P-2 | ${ }_{60459}{ }^{\text {Al3C-prefix: }}$ P-413D | 2-11D-J3 P-412D | been discontinued | ${ }_{8037}^{1513-45}$ |
| 3000 MKI | 140 C | 11985431-1,-2 P-16 | 80,80 SD P-132D | 60695 | 2-12D-A $\quad$ P415D |  | 8068 P-132D |
| 3000 MKII | ${ }^{140 C}$ | $\begin{array}{lll}\text { C40 } & \text { P-132D } \\ \text { C100 }\end{array}$ | 935 D P-175D | 60868 P-409D | $\begin{array}{ll}\text { 3-41D-j2 } & \text { P420D } \\ 3-41 \mathrm{D} & \text { P-420 }\end{array}$ | AT3472P AT3457P | 8076 P-132D |
| 3000 MKIII | 140C M105E | $\mathrm{C} 100, \mathrm{~A}$ $\mathrm{P}-132 \mathrm{D}$ <br> C 200  | A41,42,43 E37 | 66868  <br> 61150 P-400 | $\begin{array}{ll}\text { 3-41D-35 } & \text { P-420D } \\ \text { 3-42D-A }\end{array}$ | P-1,3,4 NS | 25130071 AT3400 |
| 3000MKV | M105E | $\begin{array}{ll}\text { C200,400 } & \text { P-132D } \\ \text { C } 50\end{array}$ | $\begin{array}{ll}\text { E37 } & \text { 942DS } \\ \text { E46,47 } & \text { 941DS }\end{array}$ | 61182 | $\begin{array}{ll}\text { 3-42D-A } & \text { P-414D } \\ \text { 3-61D-74 }\end{array}$ | P-6,7,9 NS | 25130078 P-187D |
| 3000 Ph . IV | $140 C$ | C450 P-132D | E46,47 941DS | $61276801 \quad$ P-226D | 3-61D-J4 P-419D | P-10A,12A NS | 2513007 P-1880 |
| 3000 PPC | ${ }_{\text {M105E }}$ | C650,660 P-150D | $\mathrm{FHOB}^{\text {F50 }}$ | 61239801 | $\begin{array}{ll}\text { 364D-A } & \text { P-413D }\end{array}$ | P-13 NS | P-3 P-416D |
| $30007 \mathrm{TE} / \mathrm{X}$ | ${ }_{140 \mathrm{C}}^{\text {M105E }}$ |  | $\begin{array}{ll}\text { R50B } & \text { P-132D } \\ \text { RSD50B } & \text { P-132D }\end{array}$ | 61359803 P-472D | $\begin{array}{ll}\text { 5115A, B } & \text { P-16 } \\ \text { 35918 }\end{array}$ |  | P-4 P-430D |
| 3000xLE | 140 C | All have EAsoX-prefix: | $\begin{array}{ll}\text { RSD508 } & \text { P-132D } \\ \text { RX49B } & \text { P-132D }\end{array}$ | 61359805 P423D | $\begin{array}{ll}35918 & \text { P-412D } \\ 431518 & \text { P-412 }\end{array}$ | P-17 to 28 NS | P.5X P-406D |
| 3000ZE | M105E | 152 P-132D | $\begin{array}{ll}\text { RX49B } & \text { P-132D } \\ \text { RXSC49B } & \text { P-132D }\end{array}$ | ${ }_{61438} 6$ |  | P-30,31,32 NS | P-8X P406D |
| 3009EE, EEE | ${ }_{140}^{140 C}$ | $\begin{array}{lll}\text { 165,209,234 } & \text { P-150D } \\ 42 & \text { IV/ATE }\end{array}$ | RXSD49B P-132D | ${ }_{61519801}{ }^{\text {61438 }}$ P-226 | $\begin{array}{ll}\text { 95929-029 } & \text { P-129 } \\ 95929-033 & \text { P-126 }\end{array}$ | ${ }_{\text {P-34,36 }}$ P 3 NS | P-9X P-430D |
| $30035 C$ 3100 C | ${ }^{140 C}$ M105E | $\begin{array}{ll}422 & \text { PV/ATE } \\ 431 & \text { P-150D }\end{array}$ |  | 61597 P-149 | $\begin{array}{ll}\text { 95929-033 } & \mathrm{P}-126 \\ 2005039 & \mathrm{P}-404 \mathrm{D}\end{array}$ | P-38 P-41 to 44 | P-10,13 P-416D |
| 3100TE | M105E | 522 IV/AT |  | 61598801 | 200503971 | $\begin{array}{ll}\text { P-41 to } \\ \text { P-46,49 } & \text { NS } \\ \text { NS }\end{array}$ |  |
| 3300 MS | $140 C$ | 523 M-44C |  | 61598802 P | $2011158-11 \quad$ P-409D | P-50,52 NS |  |
| 3500E/III | 140 C |  | VC | P16 P-126 | $1002-5021$ NP/AC | P-53 P-11 | PHILIPS |
| 3500/Z-II | 140 C | All have EAgzx: |  | ${ }_{62510}^{6194}$ P-424D | 1006 -6082 P-420D | P-54.55 NS |  |
| $35007 E$ | M105E | 155 to 576 P-132D | CS1022M P-15 | $\begin{array}{ll}62910 & \text { P-180 } \\ 6291 & \text { P-439 }\end{array}$ | 10066595 | P-57,87 NS |  |
| 3800 TE | M105E |  | HMDI004 M-44C | $\begin{array}{ll}62971 & \text { P-439 } \\ 63463 \mathrm{AO} & \text { P-48D }\end{array}$ | 1006 -6603 P-417D | P-119,120 NS | All have AGE Prefix: |
| 4000E/V | ${ }_{140}^{140}$ | Allea-prefix: | MD1004 M-44C | ${ }_{634633} 6304 \mathrm{P}$ P438D | $\begin{array}{ll}1006-6611 \\ 1007-3583 & \text { P.404D }\end{array}$ | $\mathrm{P}_{\mathrm{P}-123}$ | $\begin{array}{ll}\text { 320,3202 } & \text { P-143D } \\ 3221,322 & \text { P-143 }\end{array}$ |
| 4000 MKI | 140 C | 1013 P-150D | MDIO11 M-44C | ${ }_{63463 A 05} 6$ | $\begin{array}{ll}1007-3583 & \text { P-129 } \\ 1008-1164 & \text { P-169 }\end{array}$ | P-124,125 P-126 | $\begin{array}{ll}3221,322 \\ \text { 324,328 } & \text { P-143D }\end{array}$ |
| 4000 MKIII | 140 C | 1493 P-200 | MD1013B M-44C | $\begin{array}{ll}\text { 63443A05 } \\ \text { 6363A06 } & \text { P-438D }\end{array}$ | $\begin{array}{ll}\text { 1008-1164 } & \text { P-169 } \\ 1008-1172 & \text { P-169 }\end{array}$ | $\begin{array}{ll}\text { P-127 } & \text { P-126 } \\ \text { P-128 } & \text { PS }\end{array}$ | 321, 332,3305 |
| 40005 | M105E | 223 P-150D | MD1014,55 AT3400 | $\begin{array}{ll}\text { 63463A06 } \\ 63463 \mathrm{~A} 07 & \text { P-438D }\end{array}$ | $\begin{array}{ll}\text { 1008-1172 } \\ 1020-8056 & \text { P-169 } \\ \text { P-180D }\end{array}$ | P-128 NS | $\begin{array}{ll}3302305 \\ 3306310 & \text { P-143D }\end{array}$ |
| 4000x,XLI | 140 C | 2389 | Y590 P-89 | 63463A08 P-438D | ${ }^{1020-8056}$ P-180D | P-130 P-129 | 3306,3310 P-143D |
| $4000 \times \mathrm{LIII}$ | 140 C | 2467 P-40 |  | $\begin{array}{ll}\text { 63433A08 } \\ \text { 63784A01 } & \text { P-488 }\end{array}$ | $1020-8296$ P-421D | P-131 NS |  |
| $4000 \times$ LIII | 140 C | 3133 IV/ATE |  |  | $1020-8304$ P-180D | P-133D NS | $200224{ }^{\text {ald }}$ P-143D |
| 40002/IIII | ${ }^{140 C}$ | 3134 M-44-C | YDS | $\begin{array}{ll}\text { 63784A03 } \\ 63816 & \text { P-428D } \\ & \text { P-400 }\end{array}$ | $\begin{array}{ll}1020-9427 & \text { P-412D } \\ 1009\end{array}$ | P-135D to 142 NS | $\begin{array}{ll}\text { 200,224 } & \text { P-143D } \\ 228 & \text { P-143D }\end{array}$ |
| 4000ZE/IV | 140 C | MA-8 AT3400 | LLOYD | ${ }_{645270}^{63816}$ P415S | $1020-9435$ P-412D | P-145D P-150D | 228 Pr P-143D |
| 4000ZX | M105E |  |  | 645270 9415S | 1027 -6034 P.420D | P-146 to 148 NS | $\begin{array}{ll}\text { 233,310 } \\ 410,11,12 & \text { P-143D } \\ \end{array}$ |
| $4001 \mathrm{E} / \mathrm{X}$ | ${ }^{140}$ C | All have RS-prefix: | PH42 P-12 |  | $\begin{array}{ll}1027-8385 \\ 1029 & \text { P-129 }\end{array}$ | P-151D to 157D NS | 410,11,12 M-44-C |
| 4002zE/X | 140 C | 1599 9115s | PF482  <br> 9F85 P-12 |  | $\begin{array}{ll}1022-9078 & \text { P-417D } \\ 10202177\end{array}$ | P-159D P-158D |  |
| 4004AJS-4 | M105E | 3824,25 P-132D | ${ }^{\text {9FP1P19,A }}$ P-149 | $\begin{array}{ll}60336 \\ 60872 & \text { P-132D }\end{array}$ | 102-9177 P-420D | P-160D to 163 NS |  |
| 4004D/IV | M105E | 4694 P-132D | 9MP19, A P-149 | 61182 | $\begin{array}{cc}1022-9268 & \text { P-149 } \\ 1022-967 & \text { P-405 }\end{array}$ | P-165 to 167 NS | PHONOLA |
| 4004ZE/X | M105E | 6295 P-132D |  | ${ }_{61182} 6$ | $1022.9367{ }^{\text {P }}$-405D | P-172 to 174D NS |  |
| 4400/IV | M105E |  |  | 61496 P-132D | 1022-9417 P-180D | P-178D, 183 NS |  |
| 4440 D | M105E | All have RIE prefix: | MAGNAVOX |  | 102 -9557 P-170D | P-201 to 208 NS | $\begin{array}{ll}13208 & \text { 911DS } \\ 13376939 & \text { P-132 }\end{array}$ |
| 5000E EIII | 140 C | 1051 P-16 |  | ${ }_{642982}{ }^{\text {all }}$ Prefix: ${ }_{\text {P }}$-132D | 1022-9573 P-182 | P-207 P-129 | $\begin{array}{ll}13376,939 & \text { P-132D } \\ 14713\end{array}$ |
| $5000 \mathrm{E} / \mathrm{X}$ | 140 C | 1054,1660 P-2 |  | $\begin{array}{ll}642982 & \text { P-132D } \\ 945704\end{array}$ | 1022-9581 P-169 | P-209 P-29 | 14713 P-132D |
| 5000 HITT Imp. | M105E | 2716,17 P-8 | Following have $560^{\circ}$ as first three digits : | $\begin{array}{ll}645704 & 94195 \\ 64575 & 941 \mathrm{DS}\end{array}$ | 1022-9599 NP/AC | P-210to 213 NS | 15399 P-132D |
| 5000 LAC | M105E | 4240 P-40 | first three digits : ${ }_{\text {128-2 }}$ | 65875 | 1023 -9631 AT3400 | ${ }_{\text {P-214 }}$ | $\begin{array}{ll}16406,744 & \text { P-132D } \\ 16881 & \\ \text { P-132D }\end{array}$ |
| 50001S/XIII | ${ }^{140 C}$ | 4496 P-33 | $\begin{array}{ll}192-2 & \\ 1921,2 & 9115 s\end{array}$ | 59X97052 P-434D | $1031-8566$ P-170D | P-216 P-334 | $\begin{array}{ll}16881 & \text { P-132D } \\ 17260 & \text { P-132D }\end{array}$ |
| 5000 MKI 5000 MkII | $140 C$ 140 |  | 207-1,2 9 | PK175,80 $\quad$ P-439D | $\begin{array}{ll}\text { 1043-2599 } & \text { P-421D } \\ 1043-2607 & \text { P-420 }\end{array}$ | P-217,218 NS | $\begin{array}{ll}17260 & \text { P-132 } \\ 19731 & \text { P-129 }\end{array}$ |
| 5000 MKV | ${ }_{\text {M105E }}^{140}$ |  | 212,213 9115S | PP202,301 P-428D | $\begin{array}{ll}\text { 1043-2607 } & \text { P-420D } \\ 1047-7362 & \text { P-169 }\end{array}$ | $\begin{array}{ll}\text { P-219 } & \text { P-309 }\end{array}$ | 21292 P-126 |
| 5000 Ph . IV | 140 C | GLENBURN | 214,215 915s | SK400 P-438D | 1047-7388 ${ }^{\text {QLM }}$ | $\begin{array}{ll}\text { P-220 to } 223 \\ \mathrm{P}-224 \mathrm{D} & \mathrm{NS} \\ \mathrm{P}-225\end{array}$ | 21293 P-126 |
| 5000 V Imp. | M105E |  | 313-3,5 $313-8$ |  | 1050-5035 P-169 | P-227, ${ }^{\text {P-2, }}$ P-228 | 21373 P-427D |
| 5000/XE. 1 | 140 C |  |  |  | $1054-8303$ AT3400 | P-229,D P-226 | 21839 P-422 |
| $5000 / \mathrm{ZzV}$ | M105E | molded into inside | $\begin{array}{ll}\text { 344,345 } & \text { P-134D } \\ 346,347 & \text { P-14D }\end{array}$ | OLYMPIC | ${ }^{1054-8881}$ 1 P-421D | P-300,301 NS | 2239 P-423D |
| 5500 MS | M105E | surface of headshell: | $\begin{array}{ll}\text { 346,347 } & \text { P-134D } \\ 350-1 & \text { P-134D }\end{array}$ |  | 1055-6737 ${ }^{\text {P }}$ | P-302,305 NS |  |
| 6000 | ${ }^{140 C}$ | surface of headshell | $\begin{array}{ll}350-1 & \text { P-134 } \\ 355,-1 & \text { P-134 }\end{array}$ | P×30972 P-121 | 1060-6036 P-169 | P-306,307 NS | $\begin{array}{ll}22589 & \mathrm{P}-26 \mathrm{D} \\ 2782 & \mathrm{P}-24 \mathrm{D}\end{array}$ |
| 6000E, E/X | 140 C | CL26 P-433D | 365-2 P-134D | PX60322 P-406D | $\begin{array}{ll}1062-0839 & \text { P-441D } \\ 1063-6533\end{array}$ | P-310,311 NS | 2782  <br> 23302 P-129 |
| ${ }_{60000 \mathrm{II}}$ | 140 C | GL49,50 P-409D | 369-1 ATIIOE | PX60323 P-129 | 1063-6533 ${ }^{1064-2304} 0$ | ${ }_{\text {P-312 }}$ P312 NS | 23449 P-126 |
| 60001 V 6000 V | ${ }_{\text {M105E }}^{140}$ | GL.51,52 P-409D | 369-8,9,10 AT3400 | PX61614 P-129 | $\begin{array}{ll}\text { 1064-2304 } & \text { Q } \\ 1065997 & \text { P-404D }\end{array}$ | ${ }_{\text {P-315,320 }}$ P 316 NS | 23784 P-433 |
| 6000XEE | 140 C | GL65,66 P-411D | 376-1 P-420D | $\begin{array}{ll}\text { PX61680 } & \text { P-129 } \\ \text { PX70015 } & \text { P-226D }\end{array}$ | 1068-7325 P-182 | ${ }_{\text {P-316 to } 319}$ NS | 24084 P-228 |
| 6000 XEL | 140 C | $\begin{array}{ll}\text { GL67,68 } & \text { P-411D } \\ \text { GL3 }\end{array}$ | $380-1$ | $\begin{array}{ll}\text { PX7015 } & \text { P-71639 }\end{array}$ | 1073-2279 P-149 | P-325 to 328 NS | 2412 P-434D |
| 6006 | 140 C | GL77,78 P-409D | $\begin{array}{ll}380-2 \\ 389-1,3 & \text { P-181D }\end{array}$ | PXD70000 P-149 | 1073-2329 P-169 | P-330 to 333 NS | 24158 P-422 |
| 6009,6900T | M105E | GL79,80 P-409D | 398-1 $\quad$ P-4/ATE | PXD70015 P-226D | 1078-1805 P-420D | P-335 NS | $\begin{array}{ll}24228 & \text { P-24D } \\ 24389 & \text { P-226 }\end{array}$ |
| 6900 | 140 C | GL89,93 P-421D | 398-2 M-44C | PXG61190 P-407D | 1079-1713 P-40D | P-418D P-42D | 25148 |
| 6990E/III | ${ }^{140 C}$ | GL99 P-420D | $\begin{array}{ll}\text { 398-2 } \\ 405-1 & \text { P-410D }\end{array}$ | PXG61588 P-225 | $\begin{array}{ll}1079-6050 \\ 10823680 & \text { P-441D }\end{array}$ | P-429D P-421D | $\begin{array}{ll}25146 & \text { P-228 } \\ 25183 & \text { P-414D }\end{array}$ |
| 6900E/T | ${ }_{140}$ | GL117 P-421D | 407-1 P-414D | PXG70002 P-226D | $\begin{array}{ll}1082-3680 & \text { QLM } \\ 1085066 \\ \text { AT3400 }\end{array}$ | $\begin{array}{ll}\text { P-436D } & \text { P-435D } \\ \text { P-4370 }\end{array}$ | 27817 P-180D |
| 7000/1 | $140 C$ $140 C$ | GL125,126 P-420D | 418-1 A13400 | PXG70015 P-226D | $\begin{array}{ll}1082-6667 & \text { AT3400 } \\ 1085-8462 & \text { QLM30 }\end{array}$ | P-437D P-438D | 25896 |
| 7000/III | 140 C | GL127,128 P-420D | 422-1 P-411D | ${ }_{\text {PXG760036 }}$ NP/AC | ${ }^{1055-9734}$ QLM30 |  | - |
| 7000/VII | M105E | GL609 P-433D | $\begin{array}{ll}\text { 428-1 } \\ 429-2 & \text { P-411D } \\ \end{array}$ | $\begin{array}{ll}\text { PXV6034 } & \text { P-126 } \\ \text { PXV60322 } & \text { P-406D }\end{array}$ | 1086-0575 PSX20 | CO |  |
| 7000ED | 140 C |  | 429-2 $432-1$ | PXV60534 P-126 | 1086-8081 AT3400 | PHILCO | PICKERING |
| 7000E/X | 140 C |  | 435-1 P-185D |  | 1088-8436 PSX20 |  |  |
| 8000/III | 140 C | HARMAN- | 435-1 P-108D |  | 1089.5910 PSX20 | All have 3. ${ }^{\text {Prefix: }}$ | All MICRO: |
| 8000/XVE | 140 C | KARDON | 25130071 AT3400 |  | $\begin{array}{ll}\text { 1090-4829 } \\ 1091-7144 & \text { AT3400 }\end{array}$ | 16104 P-404D | 260DD,DS IV/AC |
| 8000E/X $9000 \mathrm{E} / \mathrm{X}$ | 140C M105E | KARDON | $\begin{array}{ll}25130071 \\ 25130078 & \text { P13400 } \\ & \text { P187D }\end{array}$ | PANASONIC | $\begin{array}{ll}\text { 1091-7144 } \\ 1094-5954 & \text { PSX } 20 \\ \text { P-411D }\end{array}$ | $\begin{array}{ll}2805 & \text { P11SS } \\ 2853,2856 & \text { P-132 }\end{array}$ | 350,370 IV/AC |
| ${ }^{9000 E / X}$ | M105E | 01221652 P.431D | 25130122 P-187D |  | $\begin{array}{ll}1094-5654 \\ 1101-637 & \text { P-411D }\end{array}$ | $\begin{array}{ll}\text { 2853,2856 } & \text { P-132D } \\ \text { 28572859 } & \text { P-132D }\end{array}$ | 380A IV/AM |
| 9000 T Imp. | M105E | 01222753 P-435D | $\begin{array}{ll}25130129 & \text { P-187D } \\ \end{array}$ | All EPC-prefix: ${ }_{\text {P-180 }}$ | 1104-1068 M93E-P | $\begin{array}{ll}28763 \\ 287659 & \text { P-131 } \\ \end{array}$ |  |
| 9000 X | M105E | 01222753 HP/AC1 | $\begin{array}{ll}\text { 256903\% } & \\ 5604370021 & \text { AT3400 } \\ \text { OLM }\end{array}$ | 13 P-185D | 1114-3856 AT3400 | 2877-1, 3 P-430D | ${ }^{381 A}$ 381E $\quad$ XV15/400E |
| $9000 \mathrm{~V} / \mathrm{SI}$ | 140 C | 01223194 HP/AC1 | $\begin{array}{ll}5604370021 & \text { OLM30 } \\ 5604370033 & \text { P-187D }\end{array}$ | $\begin{array}{ll}\text { 42 series } & \text { P-170D } \\ 75,77,82 & \text { AT3400 }\end{array}$ | $1119-5534$ PSX20 | 2877-2 P-406D | D120,140 IV/AC |
| $9000 \mathrm{~V} / \mathrm{SII}$ | 140 C | $01223965 \quad \mathrm{P}-434 \mathrm{D}$ | $\begin{array}{ll}\text { 560437033 } \\ 5604370055 & \text { P-1890 }\end{array}$ | $\begin{array}{ll}\text { V-15/AC-2 } & \text { IV/AC }\end{array}$ | 1138-8758 AT3400 | 2878-3 P-416D | D220,240 IV/AC |
| $9000 \mathrm{~V} / \mathrm{SII}$ | M106E | 01225469 P-433D |  | $V-15 / \mathrm{AC-2}$ - $\mathrm{V} / \mathrm{AC}$ |  | ${ }^{2887-1}$ P-435D | C6-38AT IV/AT |
| 9000Z/X ${ }^{\text {900ZE/X }}$ | M108E 140 C | $\begin{array}{ll}01226270 & \text { P-435D } \\ \text { HK-609 } & \text { HS/CAC }\end{array}$ | 5604370095 P.187D |  | $\underline{\square}$ | $\begin{array}{ll}\text { 2890-1 } & \text { P981-1, }\end{array}$ | C6-38ATG V/AT |
| ${ }^{900 \mathrm{ZE} / \mathrm{X}}$ | ${ }_{140 C}^{140}$ | HK-609 HS/CAC | $5604370111 \quad 3482 \mathrm{P}$ |  |  | 2891-1,2 P-129 | GA38AT IV/AT |

## CARTRIDGE GROSS-REFERENGE




| SHURE (Continued) | $\begin{aligned} & \text { Our } \\ & \text { No. } \end{aligned}$ | SHURE (Contlinued) | Our No. | $\begin{array}{ll} \text { SHURE } & \text { Our } \\ \text { (Continued) } & \text { No. } \end{array}$ | teledyne $\begin{aligned} & \text { Our } \\ & \text { No. }\end{aligned}$ | TETRAD Our <br> (ConHnued) No. | TETRAD <br> (Condinued) Our <br> No. | TETRAD  <br> (Continued) Our <br> No.  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Purist 3A | M 4 | ST | M104E | W910ED M105E |  | 31D-V150 P-180D | E3D-SNK P-40/D | C3D-1176 P-419D |
| Purist 5A | M105E | STA100 | M110HE | 9959ED M105E |  | 31D-V165 P-180D | E3D-111-24 P-411D | E1D-BSR79 P-420D |
| R7C | M44C | STX5 | M 44 E | 10005 M105E | TELEDYNE | 31D-V166 P-412D | COD-BSRS3 P-110 | E1D-521,A P-420D |
| R2SEC,ED | M 44 E | STX10 | M104E |  |  | 315-V164 P-180D | G1D-SN4 P-407D | E1D-V115 P4 |
| R27EED | M105E | STX20 | M105E |  | 63030 P-423D | 32D,32S-A P-404D | G1D-V49,53 P-411D | E2D-B P-414D |
| R47EB,ED | M104E | SuperPro 1 | M44E | SINGER | 63053 P-132D | 33D-NN-4 P-407D | G1D.V110 P-411D | E2D-244-5 P-414D |
| R700E | M105E | SuperPro 4 | M44E | SINGER | $63060 \quad$ P-423D | 34D-M1-7 P-407D | G1DV125 P-411D | G1D-P16 P-420D |
| R1000E | M100E | ${ }_{\text {Super }} 7$ | M1104E | PU1299 P-10 | $\begin{array}{ll}63965 \\ 63070 & \text { P-422D }\end{array}$ | $\begin{array}{ll}\text { 34D-SN1,4 } & \text { P-407D } \\ \text { 41D-BSR31 }\end{array}$ | $\begin{array}{ll}\text { G1D-V136 } & \text { P-180D } \\ \text { G1D-V186 } & \text { P-411 }\end{array}$ | G1D-S7 G1D-V43,45 |
| R1000ED | M105E | SX1000 | ${ }_{\text {M1104HE }}^{\text {M104E }}$ | PU1513 P-29 | 63071 P-434D | 41D-P5,5X ${ }^{\text {P-406D }}$ | G15-V48,52 P-411D | G1D.V137 P-180D |
| RD101,191 | M105E | T5000 | M44E | PU3012A P-42 | 63074 P-424D | 41D-V9 P-408D | G1s-V109 P-411D | G1D-V191 P-421D |
| RD195 | M10SE | TM-15 | M44C |  | 63075 P-431D | 41D-V89 P-411D | G1S-V138 P-180D | G15S8 P-420D |
| RD291 | M105E | TM-1E | M44E | All 484: | 63076 P-434D | 41D-V130, V140, | G2D-DC2 P-410D | G1S-V42,44 P-420D |
| RM98H | M105E | TM-2E | M104E | 023-003 P-10 | 63078 P-180D | V163, V173: P-180D | G2S-DC23 P-410D | G1S-V155 P-180D |
| RM900E | M104E | TM-3E | M105E | $023-005$ IV/AT | 63079 P-410D | 41S-B P-404D | G3D-111-18 P-411D | G2D-A, P P-414D |
| RM910E | M104E | TM-4E | M110HE | $0_{032008}^{02009}$ | 63080,81,84 P-417D | 41S-P3 P-421D | G35-111-29 P411D | G2S-A P-414D |
| RM910ED | M105E | TM5ETE | M110HE | 023-009 HB/AT2 | 63082 M-44- | 42D,42S-A P-404D | T2MD-GL65 P-411D | G3D-111-20 P-420D |
| RM930C | M44C | TMDE | M44E | 023-010 P-11 |  | 43D-78-5 P-407D | T2MS-GL66 P-411D | T3MD-GL125 P-420D |
| RM950ED | M105E | TR50 | M104E | ${ }_{0}^{023-011}$ |  | 43D-235-5 P-407D | T20MD-GL67 P-411D | T3MS-GL126 P-420D |
| RS3T | M44E | TR80 | M105E | $\begin{array}{ll}023-013 & \text { P-226 } \\ 023-015 & \mathrm{P}-228\end{array}$ | TETRAD | $\begin{array}{ll}\text { 43D-SN1,3 } & \text { P-407D } \\ \text { 43D-M1-7 }\end{array}$ | T20MS-GL68 P411D | T30MD-GL127.P-420D |
| RSST | M104E | Trac 1 | M105E | 023-016 P-411D |  | 51D-AR1 P-409D |  | T30MS-GL128:P-420D |
| RS6E | ${ }_{\text {M105E }}^{\text {M }}$ | ${ }_{\text {Trac }} \mathbf{T}$ | M44E |  | Following are allu: | 51D-BSR54 P-409D | T50HD GL79 P-409D | Following are all |
| RSST | M1008E | TS75 | M44E |  | Black Socket) | 51D-BSR103 P-409D | T50HS-GL80 P-409D | (Green Sock |
| RSSE | АТ3400 | TX7E | M 44 E |  | $\begin{array}{ll}\text { 11D-M1 } \\ \text { 21D-M2 } & \text { P-439, } \\ \text { P-439 }\end{array}$ | $51 \mathrm{D}-\mathrm{GL} 77 \mathrm{P}-409 \mathrm{D}$ |  | 62D-SN1,X P-407D |
| RS1208,20E | M44E | TX9E | M105E | SONOTONE | 21D-M4 P-400D | 51D-TC8H6 P-409D | Following are all 3 : | 62S-SN1,X P-407D |
| RXT4 | M104E | USA-1 | M110HE |  | 21D-501 P-402D | 51D.V93 P-409 |  |  |
| S10 | M104E | UT100 | M44E | 21TAF-SD P-132D | 21D-ssx1 P-403D | $\begin{array}{ll}\text { 51S-GL78 } & \text { P-409D } \\ \text { 51S-M10 }\end{array}$ | ${ }_{110}^{11 D-A R 2}$ | Following are all.s: |
| 520 | M105E | VE20 | M104E | 22 T series P-132D | 21D-V15 P-408D | 51S-M10 52-SN1 | 11D-GL117 P-421D |  |
| 530 | Mi10HE | VE30 | M105E | 23T " P-132D | 21D-V130B P-180D | $\begin{array}{ll}\text { 52D-SN1,X } & \text { P-407D } \\ \text { 52S-AC }\end{array}$ | 11D-P7 $11 \mathrm{D}-111 \mathrm{~A}$ | $\begin{array}{ll}\text { 11D-399-1 } \\ 11 \mathrm{D}-99 & \text { P-4260 } \\ \text { P-426 }\end{array}$ |
| S76E | M44E | VH50 | M110HE | $25 \mathrm{~T}^{\prime \prime} \quad \mathrm{P}-132 \mathrm{D}$ | 21SM7 P-403D | $\begin{array}{ll}\text { 523-A,C } \\ 53 D-B & \text { P-404D }\end{array}$ |  | 22D-B P-423D |
| S96E | M104E | VIP80 | $\mathrm{M}^{\text {M }} 14 \mathrm{E}$ E | 25T-MB " ${ }^{\text {" }}$-132D | 22D-A P-404D | $\begin{array}{ll}\text { 53S-B,BX } & \text { P-404D }\end{array}$ | $\begin{array}{ll}\text { 115-P6,11 } \\ 12 \mathrm{D}-\mathrm{A} & \text { P-421D } \\ \text { P-415D }\end{array}$ | ${ }_{\text {220-SN4 }}$ |
| S99ED | ${ }_{\text {M105E }}$ | VIP85 | $\xrightarrow{\text { M105E }}$ M110HE | ${ }^{251-P B}{ }^{\text {28 }}$ " P-132D | 23D-SN4 P-401D | 54D-A 54, | 12D-SN-1,4 P-417D | 31D-S10 P-426D |
| ${ }_{53300 \mathrm{E}}^{53}$ | M105E | W59 | M104E | $\begin{array}{ll}\text { 28T }{ }^{\prime \prime} & \text { P-132D } \\ \text { 517 }\end{array}$ | $\begin{array}{ll}\text { 31D-BSR15 } & \text { P-402D } \\ \text { 31DSN4 } & \text { P-401D }\end{array}$ | 61D-BSR11 P-405D | 13D-SN4 P417D | 31D-V5,10 P-432D |
| S400E | M105E | W950ED | M105E | 52T " $\quad$ P-132D | 31D-SN4 33D-BSR21 | 61D-S16 P-409D | 20D-W8 P-420D | 31D-V14 P-432D |
| S420 | M105E | WC975 | M104E |  | 33D-63 P-402D | 615-V82 P-409D | 20D-W14 P-181D | 31 D -V23,43 P-426D |
| S854E | M44E | WCS-1 | M104E |  | 33D-SN4 P-401D | 62D-C ${ }_{\text {20, }}$ | 22D-A ${ }_{\text {23-4 }}$ | $\begin{array}{ll}\text { 31D-V84 } & \text { P-426D } \\ \text { 31D-V147 } & \text { P-180D }\end{array}$ |
| S6000 | M44E | WCS-2 | M110HE | SYLVANIA | 41D-V169 P-180D | 62D-SNIX  <br> $625-\mathrm{C}$ $\mathrm{P}-407 \mathrm{D}$ <br> 10404 D  | 23D-W3 31D-BSR19 | $\begin{array}{ll}\text { 31D-V147 } & \text { P-180D } \\ \text { 32D-B } & \text { P-423D }\end{array}$ |
| SB19DE | M105E | WCS-3 | $\mathrm{M110HE}^{\text {M4E }}$ | SYLVANIA | 42D-Z5-B P-414D | $\begin{array}{ll}625-C & \text { P-404D } \\ 62 S S N 4 & \text { P-407D }\end{array}$ | $\begin{array}{ll}\text { 31D-BSR19 } & \text { P-421D } \\ \text { 32-A, } & \text { P-415D }\end{array}$ | $\begin{array}{ll}\text { 32D-M15 } & \text { P-424D }\end{array}$ |
| SB50E | M104E | WIZ44 $\times 10$ | M44E M104E | All 11: | 42D-2443A P-40 | 63D-SN4 P-407D | 32D-DC1 P-410D | 32S-B P-423D |
| SB8OH | Milohe | X 30 | M105E | 10328-8 911ss | $\begin{array}{lll}\text { 43D-SN1,4 } & \text { P-401D } \\ \text { 43S-111-33 }\end{array}$ | 71D-M24,27 P-412D | 33D-389-1 P-420D | 34D-M1-4 P-424D |
| SD1,1S,11 | M104E | X50 | M110HE | 10328-9 P-404D | $\begin{array}{lll}\text { 43S-111-33 } & \text { P-403D } \\ \text { 51D-4 }\end{array}$ | 71D-54 P-412D | 33D-MA-1 P-420D | 41D-301-1,3,5: P-426D |
| SD22,52,55 | M105E | X100,100E | M104E | 14162 IV/AT | A2D-244-3 P-404D | 7DDV13 P-408D | 33D-SN5 P-417D | 42D-A P-423D |
| SD77S3 | M110HE | X555,666 | M104E | 14703 P-132D | A2S-A P-404D | 71DV21,81 P-412D | 40D-B P-14D | $42 \mathrm{D}-27 \mathrm{l}$ P P-424D |
| SDS1,4 | M104E | X777,899 | M104E | 14716 P-132D | A2S-244-4 P-404D | 71S-V20 P-412D | 41D-BSR13 P-420D | 42D-M1-3 P-424D |
| SE69 | M104E | XLT-2 | M44E | 18561 IV/AM | A3D-BSR 50 P-409D | ${ }^{\text {A1D-BSR37 }}$ A1D ${ }^{\text {P-181D }}$ | 41D-BSR16 ${ }^{\text {P-420D }}$ | 42D-SN1 P-424D |
| SE99 | M105E | XLT 3 | M105E | 18939 IV/AT | CID-V142A P-409D | $\begin{array}{ll}\text { A1D-V142 } & \text { P-180D } \\ \text { A1D } 153\end{array}$ | $\begin{array}{ll}\text { 41D-BSR30 } & \text { P-420D } \\ \text { 41D-BSR94 }\end{array}$ | $\begin{array}{ll}\text { 43D-27-2 } & \text { P-424D } \\ 43 \mathrm{D}-\mathrm{B} & \mathrm{P}-423 \mathrm{D}\end{array}$ |
| SE711 | M44E | XM10,Y999 | M104E | 22322 IV/AT | C3D-SN4 P-401D | $\begin{array}{ll}\text { A1D-V153 } & \text { P-180D } \\ \text { A1D-V158 } & \text { P-180D }\end{array}$ | $\begin{array}{ll}\text { 41D-BSR94 } & \text { P-420D } \\ \text { 41D-GL125 }\end{array}$ | 43D-B  <br> $43 \mathrm{D}-\mathrm{G1}$ $\mathrm{P}-42 \mathrm{D}$ <br> -420  |
| ${ }_{\text {SEP72 }}$ | ${ }_{\text {M10 }}^{\text {M10 }}$ (10HE | Z7575ED | M104E | $\begin{array}{ll}22877 \\ 26249 & \text { HB/AT2 } \\ \text { P-431D }\end{array}$ | ${ }_{\text {G2D-A, }} \quad$ P-404D | $\begin{array}{ll}\text { A1D-158 } \\ \text { A1S-V126 } & \text { P-409D }\end{array}$ | $\begin{array}{ll}\text { 41D-GL126 } & \text { P-420D }\end{array}$ | 43D-SN4,5 P-424D |
| SH4E | M104E | Z9595ED | M105E | $\begin{array}{ll}26249 & \text { P-431D } \\ 26599 & \text { P-431D }\end{array}$ | $\begin{array}{ll}\text { G2D-Z6 } & \text { P-404D } \\ \text { G25-B } & \text { P-404D }\end{array}$ | A1S-V161 P-180D | 41D-j2,5 P-420D | 52D-Z1 P-422 |
| SK25E | M44E | ZX-3E | M104E | 26626 P-424D | G25-B-GLA9 P-409D | A2D-DC3 P-410D | 41D-P8,8X P-406D | 525-22 P-422D |
| SL-3 | M104E | ZX-4E | M44E | 26627 P-424D | ITHS-GL50 P-409D | A2S-111-2 P-409D | 41D-P13 P-416D | 61D-BSR24 P-425 |
| SL-5 | M105E | 2X5 | M105E | 28301,02 P-426D | T50HD-GL51 P-409D | A2S-A, P-404D | 41D-53,22 P-420D | 61D-S17 P-425 |
| SL95 | M105E | zx7 | M110HE | 28473 P-435D | T50HS-GL52 P-409D | A2S-DC3 P-410D | 41D-S3A,B P P420D | 62D-AC P-422D |
| So515 | M110HE | 9SEJ | M104E | 28652 IV/AM | TZ1D-Z2 P-179D | A3D-111-1,-17:P-409D | 41D-V22,88 P-420D | 62D-ZA $\quad$ P-422 |
| 50572 | M44E | 17MK6 | M110HE | 28657 M-44C | 1ZID-Z2 P-110 | $\begin{array}{ll}\text { A3D-SN4 } \\ \text { B0D-A } & \text { P-407D } \\ \text { P-404D }\end{array}$ | $\begin{array}{ll}\text { 41D-V160 } & \text { P-180D } \\ \text { 42D-A.B } & \text { P-414D }\end{array}$ |  |
| 90595 | M105E | 24.0008 24 | AT3400 | $\begin{array}{ll}32399 & \text { P-426D } \\ 32751 & \text { P-420D }\end{array}$ | Following are all 2; | $\begin{array}{ll}\text { BOD-A } \\ \text { B1D-BSR44 } & \text { P-181D }\end{array}$ | 42D-SN1,4 $\quad$ P-417D | CIDBSR40 P-425 |
| SoundPro 10 | M44E | 24-0044 $42-238$ |  | $\begin{array}{ll}\text { 32751 } & \text { P-420D } \\ 32752-1 & \text { P411D }\end{array}$ | (Blue Socket) | $\begin{array}{ll}\text { B1D-BSR44 } & \text { P-181D } \\ \text { B1D-V139 } & \text { P-180D }\end{array}$ | $\begin{array}{ll}\text { 42S-A,B1, } & \text { P-414D }\end{array}$ | CID-BSR52 P-425 |
| Sound Pro 20 | ${ }_{\text {M }}^{\text {M }}$ (05E | 42-238 89 E | M44E | $\begin{array}{ll}32752-1 & \text { P-11D } \\ 32752-2 & \text { P-181D }\end{array}$ | 10D-U4 4 P-4120 | B1S-V120 P-409D | 43D-SN1, P-417D | C3D-247-3 P-424D |
| Spec-1 | M105E | 96XE | M 44 E | 32753-1 P-181D | $\begin{array}{ll}\text { 11D-BSR18 } & \text { P-412D } \\ \text { 11D-BSR36 }\end{array}$ | B1S-V153 P-180D | 43s-SN P-417D | E1DV47 P426D |
| Spec-2 | M44E | 98-D | M105E | 32753-2 P-420D | 11D-BSR49 ${ }^{\text {P-412 }}$ | B2D-A,C P-409D | 43D-78-7 P-417D | E1D-V148 P-180D |
| Spec 40 | M44E | 98-J,100S | M104E | 34182-4 IV/AT | 11D-BSR101 P-412D | B2S-A P-404D | 43D-235-7 P-417D | E1S.V46 P-426D |
| Spec 61 | M105E | 1555 | M105E | 34302-1 M93E-P | 11D-J1,3 P-412D | B3S-111-13 ${ }^{\text {P-409D }}$ | 435-786-6 P-417D |  |
| Spee 90 | M110HE | 191E,200 | M104E | 34543-3 H8/AT2 | 11D-MC1 P-412D | $\begin{array}{ll}\text { C1D-BSR39 } & \text { P-409D } \\ \text { CID-BSR51 } & \text { P-409D }\end{array}$ | $\begin{array}{ll}\text { 43S-235-6 } & \text { P-417D } \\ \text { 51D-ESR }\end{array}$ | Following are al (Red Socket) |
| Spec 100 | M44E | 200 E | M 44 E | $\begin{array}{ll}\text { 34926-1 } & \text { P.417D } \\ \mathbf{3 4 9 7 2 - 2} & \text { P-169 }\end{array}$ | 11D-52 P-412D | $\begin{array}{lll}\text { C1D-BSR51 } & \text { P-409D } \\ \text { C1D-BSR66 } & \text { P-409D }\end{array}$ | 51D-BSR9 51D-BSR14 | 10D-N1, U2 P-435D |
| Spec 200 | M110HE | 2025 | M110HE | 349 | 11D-52A,B P-412D | $\begin{array}{ll}\text { CID-bsk6 } & \text { P-409D } \\ \text { Cid }\end{array}$ | $\begin{array}{ll}\text { 51D-01,1X } & \text { P-406D }\end{array}$ | 11D-BSR6,7 P-435D |
| ${ }^{\text {Spec } 300}$ | M110HE | 375DE | M105E |  | 11D-V4,8 P-408D | C1D-V108 P-409D | S1D-S13 P-419D | 11D-BSR28 P435D |
| ${ }_{\text {Spectra III }}$ | M44E | 395DE 400 E | M105E | All 916; 0010 | 11D-V131 P-180D | C15V159 P-180D | 51D-V25 P-419D | 11D-BSR35 P-435D |
| Spectra II Spectra I | M110HE | ${ }_{445}^{400 E}$ | M44E | 0011 P-132D | $\begin{array}{ll}\text { 11D-V133 } & \text { P-180D } \\ 11 D-V 170 & \text { P-411D }\end{array}$ | C2D-244-1 P-404D | 52D-C P-413D | 11D-BSR41 P-435D |
|  |  | 470MS | M44E | $0029 \quad$ P-132D | 11D-V171 P-411D | C2D-A P-404D | 52S-B P-413D | 11D-BRR47 P-435D |
| SPS Serie |  | 491MS | M105E |  | 11S-V3 P-408D | C2D-DC3 P410D | 53D-CM1 P419D | 11D-BSR56 P-435D |
| Brown | M105E | 600 H | M110HE | 25130078 P-187D | 12D-A P-404D | C2S-244-2 P-404D | 61D-J4 P419D | 11D-BSR80 ${ }^{\text {P-435D }}$ |
| Orange | M105E | 7005 | M105E | 25130122 P-187D | 13D-78-9 P-407D | $\begin{array}{ll}\text { C2S-A, } & \mathrm{P}-404 \mathrm{D} \\ \mathrm{C} 2 \mathrm{~S}-\mathrm{DC} & \mathrm{P}-410 \mathrm{D}\end{array}$ | $\begin{array}{ll}\text { 64D-A } & \text { P-413D } \\ \text { 71D-BSR32 }\end{array}$ | 11D-M9,13  <br> $11 \mathrm{D}-\mathrm{M} 20,21$ $\mathrm{P}-435 \mathrm{D}$ <br> P35D  |
| Tan | M104E | 755 | M104E |  | 13D-235-9 P-407D | $\begin{array}{ll}\text { C2S-DC3 } & \text { P-410D } \\ \text { C3S-111.3 } & \text { P-409D }\end{array}$ | 71D-P10 $\quad$ P-421D | 11D-M22,23 P-435D |
| Blue |  | 757EJ | M44E |  | ${ }^{\text {13D-SN2,4 }}$ Pr-4077 | EID-BSR42 P-181D | 71D-P12 P-421D | 11D-M25,26 P-435D |
| Green Black | $\xrightarrow[\text { M110HE }]{\text { M110 }}$ | ${ }^{790 \mathrm{E}} \mathrm{AK}$ | M105E | SYMPHONIC | $\begin{array}{ll}\text { 20D-U4 } & \text { P-412 } \\ \text { 21-BSR }\end{array}$ | E1D-V106 P-411D | 71D-584 P-421D | $11 \mathrm{D}-\mathrm{P2}$ P-421D |
|  |  | 955 | M110HE |  | $\begin{array}{ll}\text { 21-BSR2 } & \text { P-405D } \\ \text { 21-BSR4 }\end{array}$ | E1D-V111 P-411D | 71S-P11 P-421D | 11 D -P4 P430D |
| SPS40 | M44E | 965 | M110HE | $\begin{array}{ll}\text { AC513,517 } & \text { P-413D } \\ \text { AC519 } & \text { P-402D }\end{array}$ | 21D-BSR 77 P-181D | E1D-V112 P-4112 | 80D-B P-414D | ${ }^{11 D-P 10}$ P-416D |
| SPS1001 | M44E | 2214,2224 | M44E | $\begin{array}{ll}\text { AC519 } & \text { P-402D } \\ \text { AC524-1 } & \text { P-404D }\end{array}$ | 21D-DC3 P-410D | $\begin{array}{ll}\text { E1D-V121 } & \text { P-411D } \\ \text { E1DV156 } & \text { P-411D }\end{array}$ | $\begin{array}{ll}\text { 90D-W10 } & \text { P-421D } \\ \text { 93D-W6 }\end{array}$ | $\begin{array}{ll}\text { 11D-S1,SS } & \text { P-435 } \\ \text { 11D-V11 }\end{array}$ |
| SPS2001 | M105E | 2224,2225 | M93E-P | $\begin{array}{ll}\text { AC524-1 } & \text { P-44, } \\ \text { P-407D }\end{array}$ | 21D-GL33 P-411D | $\begin{array}{ll}\text { E1D-156 } \\ \text { E1S-DC2 } & \text { P-4110 } \\ \text { P-410D }\end{array}$ | 93S-W6 P-421D | 11D-V24,80 P-435D |
| ${ }_{\text {SPS3300 }}$ | ${ }_{\text {M }}^{\text {M4E }}$ (10HE | 25008 50008 | M44E | AC656 P-402D | 21D-V6,9 P-408D | E1S-V105 P-411D | A2S-SN1 P-417D | 11D-V135 P-180D |
| SRC10 | M44E | 50008 75005 | M105E M110HE |  | $\begin{array}{ll}\text { 22D-DC3 } & \text { P-410D } \\ \text { 22D-A.75 } & \text { P-404D }\end{array}$ | E2D-244-7 P-404D | C0S-111-16 P-419D | 115-P1 P.421D |
| SRC40 | M44E | 7575EJ | M44E |  | 23D-AN4 $\quad$ P-407D | $\begin{array}{ll}\text { E2D-A } & \text { P-404D } \\ \text { P2D }\end{array}$ | C1D-111-6 P-419D | 115-P4 P-430D |
| SRC80 | M110HE | 9000,9001 | M104E |  | 31D-AR3 P-412D | $\begin{array}{ll}\text { E2D-DC2 } & \text { P-410D } \\ \text { E2S-BC } & \text { P-404D }\end{array}$ | $\begin{array}{ll}\text { C1D-AR5 } & \text { P-419D } \\ \text { C1D-SN4 } & \text { P-417D }\end{array}$ | $\begin{array}{ll}12 \mathrm{~L}-233-5 & \mathrm{P} 42 \mathrm{DV} \\ 13 \mathrm{D}-783 & \mathrm{P}-431 \mathrm{D}\end{array}$ |
| SRC85 | M110HE | ${ }_{9500 S}$ | M110HE |  | 31D-BSR100 P-412D | $\begin{array}{ll}\text { E2S-BC } & \text { P-404D } \\ \text { E2S-BSR29 }\end{array}$ | C2D-A,B P-413D | 13D-235-3 P.431D |
| ${ }_{\text {STS }}$ | M104E | 9756C 9758ED | M44E M105E |  | 31D-GL65 P-412D | E2S-DC2 ${ }^{\text {E2S }}$ | C2S-A,B P-413D | P-431D |

## GARTRIDGE GROSS-REFERENGE




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## SECTION VII

## PHONOGRAPH MODEL NUMBER INDEX

| WELTON (TECHWOOD) |  | Y AMA HA | YORK ELECTRONICS (YORX) |  | ZENITH |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\underbrace{\sqrt[0]{[8]}=}_{111}$ |  |  |  |  |  |  |
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|  |  |  | 711 |  |  | $\bar{n}$ |
|  |  |  |  |  | $y y_{854}$ | $\underbrace{}_{898}$ |
|  |  | Model Number $\quad$ Needie Cart. | 722 | 793 |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 796 |  | Model Number | Needle Cart. |
|  |  |  | Model Number | Needle Cart. | E911 thru 966 | 898 P-176D |
|  |  |  | AVX130, 131 | $793 \mathrm{D} 7 \mathrm{P}-187 \mathrm{D}$ | E9026; ET902,904 | 898 P-1760 |
|  |  |  | AVX 200,7500 DAD207 | $\begin{array}{ll}793 \mathrm{D} & \mathrm{P}-187 \mathrm{D} \\ 796 \mathrm{D} 7 & \mathrm{P}-187 \mathrm{D}\end{array}$ | ET914,915 <br> F574 thru <br> 14 | 898 P-176D <br> 898 P-176D <br> 898  |
|  |  |  | DADM2 305 ; DAR4210 |  | F725,736 | 898 P-176D |
|  |  |  | DAR4305, 5500,5505 | 79307 P-1870 | F902 thru 916 | $\begin{array}{ll}898 & \mathrm{P}-176 \mathrm{D} \\ 898 & \mathrm{P}-176 \mathrm{D}\end{array}$ |
|  |  |  | FM2100, 2206,2207 | $\begin{array}{ll}793 \mathrm{P} & \mathrm{P}-187 \mathrm{D} \\ 793 \mathrm{D} & \mathrm{P}-187 \mathrm{D}\end{array}$ | F966,8748 | 898 P-176D |
|  |  |  | FVX131; 1 SC2203 | $\begin{array}{ll}793 \mathrm{D} & \mathrm{P}-187 \mathrm{D} \\ 7\end{array}$ | FR923 thru 937 | ${ }_{8998}^{898} 70$ P-176D |
|  |  |  | ${ }_{\text {G8501 }}{ }^{\text {c }}$ |  | G,GR584 thru 596 $6584,596,736$ | $899 \mathrm{D7}$ P-171D <br> 8854 TD $\mathrm{P}-179 \mathrm{D}$ |
|  |  |  | M2200, 2300 (116,2121 | $\begin{array}{ll}\text { 793D } & \text { P-187D } \\ 719 \mathrm{D} & \mathrm{P}-187 \mathrm{D}\end{array}$ | GR587,590,591,596 | S854TD P-179D |
|  |  |  | ${ }_{\text {M }}^{\text {M2202, }}$ (2203,2206 | $\begin{array}{ll}793 \mathrm{D} & \mathrm{P}-187 \mathrm{D} \\ 79307 \\ \mathrm{P}-1870\end{array}$ | G,GRR901,902,903 | 899 D $\mathrm{P}-171 \mathrm{D}$ <br> $\mathrm{M}-854$ $\mathrm{P}-441 \mathrm{D}$ <br> 8907  |
|  |  |  | M2207, ${ }_{\text {M207 }}$ | $\begin{array}{ll}793 \mathrm{D} & \mathrm{P}-187 \mathrm{D} \\ 796 \mathrm{D} & \mathrm{P} 187 \mathrm{D}\end{array}$ | 6904 9002 |  |
|  |  |  | M2352,2372,2405 | $\begin{array}{lll}\text { M-853 } & \text { P-409D } \\ \text { M-854 } & \text { P-441 }\end{array}$ | GR936;G946AE |  |
|  |  |  | M2390,2400,2655 | $\begin{array}{ll}\text { M-835 } & \text { P-187 }\end{array}$ | G946AES | S854TD P-179D |
|  |  |  | M2407,2408,2455 | $719 \mathrm{D} 7 \mathrm{P-187D}$ | H, HR584 thru 596 | S854TD P-179D <br> S854D P-179D |
|  |  |  | M2456,2457,2458 M2461,2489, 2500 | $\begin{array}{ll}719 \mathrm{D} & \text { P-187D } \\ 719 \mathrm{D} & \text { P-187D }\end{array}$ | ${ }_{\text {H,HR901, }}^{\text {H7 }}$, 902,903 |  |
|  |  |  | ${ }_{\text {M2462 }}^{\text {M2461,2489, }}$ |  |  | M-854 $\begin{aligned} & \text { P-441D }\end{aligned}$ |
|  |  |  | M2500, 2501,2502 M2605 2657,2686 | $\begin{array}{lll}79307 \\ 71107 & \mathrm{P}-187 \mathrm{D}\end{array}$ | ${ }_{\text {HR }}^{\text {H, HR969, }}$ He thru 922 | 89957 P-171D |
|  |  |  | ${ }_{\text {M2608,2612 }} \mathbf{M 2 6 5}$ | 11107 C QLM30 | IS4020,4030,4040 | M-854 P-411D |
|  |  |  | M2655, ${ }^{\text {M }}$ (2656 | $\begin{array}{lll}\text { M - 853 } & \text { P-440D } \\ \mathrm{M}-853 & \mathrm{P}-440 \mathrm{D}\end{array}$ | IS4021,4031,4041 | $\begin{array}{lll}\text { M-854 } \\ 76007 \mathrm{~L} & \text { P-420D } \\ \text { AT3400 }\end{array}$ |
|  |  |  | M2657; ${ }_{\text {M26eramic }}$ TT | $\begin{array}{ll}\text { M-853 } & \mathrm{P}-440 \mathrm{D} \\ \mathrm{M}-853 & \mathrm{P}-409 \mathrm{D}\end{array}$ | IS4060,4070,4080 | 76006 AT3400 |
|  |  |  | M2662,2673, 2674 | $71907{ }^{\text {P-1870 }}$ | IS4070,4071, | 760072 $760 D 72 ~ A T 3400$ AT3400 |
|  |  |  |  | $\begin{array}{ll}71987 & \text { P-187D } \\ 793 \mathrm{D} 7 & \mathrm{P-187D}\end{array}$ | IS4100,4130,4140 | M-854 P-411D |
|  |  |  | M2680 | M-854 P-411 <br> 7007  |  | S854TD P-179D |
|  |  |  | M $\begin{aligned} & \text { M2680, } 2681 \\ & M 2684,2685\end{aligned}$ | $\begin{array}{ll}719 \mathrm{D} & \mathrm{P}-187 \mathrm{D} \\ 719 \mathrm{l} & \text { P-187D }\end{array}$ | J, JR584, 587,588 | M-854 P-441D |
|  |  |  | Q/100, 101,200 | 79307 P-1870 | J,JRS500 thru 596 | 76006 AT3400 <br> M-854 P-1800 <br> 1808  |
|  |  |  | Q/100,801 ${ }^{\text {R }}$ R106,4109, 4110 |  | JR,JR900 thru 922 | $\begin{array}{lll}\text { M-854 } & \text { P-180D } \\ M-854 & \text { P-414D }\end{array}$ |
|  |  |  | R $2106,4109,4110$ R4116,4121,4125 | 793 D <br> 7 <br> $18-187 \mathrm{D}$ | JR966; J9926 | 78006 AT3400 |
|  |  |  | R4210, ${ }^{\text {S }}$ ST212, ST 5000 | $\begin{array}{lll}793 \mathrm{D} & \mathrm{P}-187 \mathrm{D} \\ 793 \mathrm{D} & \text { P-187D }\end{array}$ | K900; KR902 | $\begin{array}{ll}\text { M-854 } \\ 760056 & \text { P-411D } \\ \text { AT3400 }\end{array}$ |
|  |  |  | STX $500,4900,5000$ STX $8000 ; 2409$ | $\begin{array}{ll}\text { 793D7 } & \text { P-187D } \\ 793 \mathrm{D} 7 & \mathrm{P}-187 \mathrm{D}\end{array}$ | KR912,915,916 | M-854 ${ }^{\text {P }}$-407D |
|  |  |  | 2685 | 700 D 7 | KR919,920 L900,902 | $\begin{array}{ll}\text { M-854 } & \text { P-404D } \\ \mathrm{M}-854 & \mathrm{P}-411 \mathrm{D}\end{array}$ |
|  |  |  |  |  | LC912; LD919 | M-854 P-411D |
|  |  |  |  |  | LC912; ${ }^{\text {LD919 }}$ | $\begin{array}{lll}\text { M-854 } & \text { P-404D } \\ \text { M-854 } & \text { P-441D }\end{array}$ |
|  |  |  |  |  | L-E50 | ${ }^{213 D 6 C} 3472 \mathrm{P}$ |
|  |  |  |  |  | LR912,915,916 LR916,917;MD912 | $\begin{array}{ll}\text { M-854 } & \text { P-404D } \\ M-854 & \text { P-441D }\end{array}$ |
|  |  |  |  |  | LR917,919,920 | M-854 P-404D |
|  |  |  |  |  | M900; ${ }^{\text {LTM } 919}$ |  |
| WELTRON |  |  |  |  | MC9020 ${ }_{\text {MC9020; MD966 }}$ |  |
|  |  |  |  | MC9030,9035 | 760 DE M $\mathrm{M44E}$ |
| Model Number |  |  |  |  | MC9045' |  |
|  |  |  |  |  | MR902, 920 | M-854 $\begin{array}{ll}\text { P-411D }\end{array}$ |
|  |  |  |  |  | MR915,916,917 | $\mathrm{M}-854$ $\mathrm{P}-441 \mathrm{D}$ |
|  |  |  |  |  | NC, NR900AE 920 | $\mathrm{M}-854$ $\mathrm{P}-411 \mathrm{D}$ <br> $\mathrm{M}-854$ $\mathrm{P}-411 \mathrm{D}$ |
|  | Needile Cart. |  |  |  | ND9666 | $\begin{array}{lll}7607^{\prime} & \text { AT3400 } \\ \text { M-854 } & \text { P-414D }\end{array}$ |
|  |  |  |  |  | SJJ2599 SL2597 | $\begin{array}{lll}76006 & \text { AT3400 } \\ \text { M-854 } & \text { P-404D }\end{array}$ |
| 2007 | 864 P-226 |  |  |  | ( ${ }_{\text {SR917, }}$ | M-854  <br> $\mathrm{S}-854$ $\mathrm{P}-404 \mathrm{D}$ |



Bag Stuffers (F-9209 \& F-9210)


Store Hour Decal


Authorized Dealer Sticker


Needle and Cartridge Guide; Accessory Catalog


Display Kit - Banners

## Dealer Aids <br> available from Pfanstiehl

## BAG STUFFERS (F-9209 \& F-9210)

To further increase your sales, be sure to use Pfanstiehl's cleverly illustrated bag stuffers. Printed in colorful magenta and blue, the hand outs provide valuable information about needles and accessories. They point out the dangers of using a worn needle and explain to customers when they need to replace needles. In addition, the bag stuffers provide an area where you can write, stamp or print your store's name, address and phone number. Free when requested with your order for merchandise. Two versions - specify form number. F-9209 - needle \& accessories, F-9210 needles both sides.

## STORE HOUR DECAL

Do you need an attractive window or door decal which clearly depicts your store hours? Then use the one provided by Pfanstiehl! Our three color decal states the hours you are open, and reinforces the message "Is it time to change your needle?" In addition, it announces that you are an authorized Pfanstiehl dealer. Free when requested with your order for merchandise.

NEEDLE \& CARTRIDGE GUIDE/ACCESSORIES CATALOG
These two catalogs provide a complete guide to all Pfanstieh and Pfantone products. These manuals are divided into sections, systematically numbered, fully cross-referenced, and clearly illustrated for easy use. The Pfanstiehl needle and cartridge guide is widely recognized as the most comprehensive and up-to-date in the business! It is a vital tool for the closing of every sale. Free when requested with your order for merchandise.
AUTHORIZED DEALER STICKER
Make sure that customers think of YOUR store when they need a replacement needle. Place this classic 6" $\times 6^{\prime \prime}$ Pfanstiehl authorized dealer decal in any prominent place. It is printed on both sides, and its scratch resistant mylar surface allows repeated washings. Free when requested with your order for merchandise.

## DISPLAY KIT - BANNERS

To create a highly visible sales message in your store, decorate your walls and windows with Pfanstiehl banners. The brightly colored posters (with selling messages for diamond needles, phono cartridges, record care products, blank tape and tape player products, cables and connectors) can stand separately, form a long, continuous streamer, or be grouped at angles for an interesting effect. When used creatively, these attractive banners can enhance your store's appearance and boost sales. Free when requested with your order for merchandise.


## THE GREAT FRAME-UP

This colorful sign will help you sell more Pfanstiehl stereo needles, the most profitable line in your store. Not only will it remind customers of the importance of early needle replacement, it will also point out the top quality name brands included in the Pfanstiehl line. The Great Frame-Up is equipped with adhesive pads for quick and easy installation on any vertical surface. Free when requested with your order for merchandise. CHANGE MAT

Pfanstiehl's most popular needles are on full display with this eye-catching, full color, laminated plastic mat. With its non-skid foam backing, this mat is perfect for placement beside the cash register to attract the customer's attention. Actual size photos of the needles, with corresponding catalog numbers, allow easy selection of the correct replacement. Colorful photographs of the needle manufacturing process enhance customer interest. Free when requested with your order for merchandise. NEEDLE REPLACEMENT STICKER

To help customers keep track of needle replacement information, and to make sure they continue to think of your store, provide this handy $11 / 2^{\prime \prime}$ square sticker with each needle purchase. Customers can enter the needle number, the place of purchase and the date of installation on their stickers and place them on or near their turntables. Removes easily - won't damage any surface. With the bottom line message, "Worn Needles RUIN Records," they'll never forget to return to your store for needle replacements. Free when requested with your order for merchandise.
"HOW OLD IS YOUR NEEDLE?" STICKER
Remind your customers that needles don't last forever. Slap this bright yellow, 2" square sticker on bags, record jackets, fixtures and anywhere else the customer will see it. 1,000 per roll. Free when requested with your order for merchandise.

## AD SLICKS

To help with your store's advertising campaign, Pfanstiehl provides ready made ads that can be used in a variety of ways. The seven audio accessory selections and the twenty options for advertising needles can be placed, as is, in local and regional newspapers. Each ad slick has a space for the name of your store, the address and phone number. You may also choose to reproduce the ad slicks in various sizes to fit different ad spaces, or to make posters for store display. Free when requested with your order for merchandise.


