

## SEMI-CONDUCTOR/TRANSISTOR CROSS-REFERENCE LIST

### Peavey Electronics Corporation

| ORIGINAL<br>IN-HOUSE<br>NUMBER | ALTERNATE<br>IN-HOUSE<br>NUMBER                   | FIELD<br>REPLACEMENT<br>NUMBER  | ORDER<br>NUMBER      | NOTES                                |
|--------------------------------|---------------------------------------------------|---------------------------------|----------------------|--------------------------------------|
|                                |                                                   | <b>TO-92<br/>TRANSISTORS</b>    |                      |                                      |
| 2N3391(A)                      | SPS-953(A, B)<br>MPS-8097, 2N6520                 | MPS-A18, 2N6539,<br>SK-3919     | OBSOLETE<br>70403919 | LEAD CONFIG. DIFF. ON<br>3391        |
| 2N4249                         | SPS-690, 699-1,<br>PN-2907A                       | 2N5086, 2N4249                  | 70404249             | REPLACE WITH SPS<br>761 IN DIF. AMPS |
| 2N3904                         | SPS-7239, MPS-3405,<br>MPS-3417, 30615,<br>2N5550 | MPS-8098                        | 70403904             | DIF. AMP REPLACE IN<br>PAIRS         |
| 2N4888                         | SPS-761                                           | 2N5400, 2N5401                  | 70400761             | DIF. AMP REPLACE IN<br>PAIRS         |
| SPS761                         | 2N5400, 2N5401                                    |                                 | 70400761             | DIF. AMP REPLACE IN<br>PAIRS         |
| 2N5400                         | 2N5401, SPS761                                    |                                 | 70400761             | DIF. AMP REPLACE IN<br>PAIRS         |
| 2N5401                         | 2N5400, SPS-761                                   |                                 | 70400761             | DIF. AMP REPLACE IN<br>PAIRS         |
| SPS-953 A, B*                  | SK-3919, MPS-8097,<br>2N6520                      | 2N3391(A), MPS-A18,<br>2N6539   | 70403919             | A=LOW NOISE<br>B=SUPER LOW NOISE     |
| SK-3919                        | SPS-953(A, B),<br>MPS-8097, 2N6520                | 2N3391(A)                       | 70403919             | 2N3391 SEE ABOVE                     |
| 2N6520                         | SPS-953(A, B), SK-<br>3919, MPS-8097              | 2N3391(A)                       | 70403919             | 2N3391 SEE ABOVE                     |
| SPS-690                        | 2N4249, 699-1                                     | 2N5086, 2N4249                  | 70404249             |                                      |
| 699-1                          | SPS-690, 2N4249                                   | 2N4249, 2N5086                  | 70404249             |                                      |
| SPS-7239                       | 2N3904, 30615,<br>2N5550                          | MPS-8098, MPS-3405,<br>MPS-3417 | 70403904             |                                      |
| 30615                          | 2N3904, SPS7239                                   |                                 | 70403904             |                                      |
| MPS-6530                       | 2N3642, MPS6531                                   | 2N3642                          | 70406530             |                                      |
| MPS-6531                       | 2N3642/MPS-6530                                   | 2N3642                          | 70406531             |                                      |
| MPS-6533                       | 2N3638, MPS-6534                                  | 2N3638                          | 70406533             |                                      |
| MPS-6534                       | 2N3638, MPS-6533                                  | 2N3638                          | 70406533             |                                      |

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|--------------------------------|---------------------------------------|--------------------------------|-----------------|--------------------------------|
| 2N4403                         | 2N3638, 2N6533,<br>2N6534             | 2N3638                         | 70406533        |                                |
| 2N3644                         | 2N3638, 2N6533,<br>2N6534             | 2N3638                         | 70406533        |                                |
| 2N4401                         | 2N3642, 2N5630,<br>2N6531             | 2N3642                         | 70406531        |                                |
| 786                            | 2SD-78                                | 2SD-786E                       | 70400786        |                                |
| A13                            | MPS-A13                               | MPS-A13                        | 70400013        | NPN DARLINGTON                 |
| A63                            | MPS-A63                               | MPS-A63                        | 70400063        | PNP DARLINGTON                 |
| 1815                           | 2SC1815                               | 2SC1815                        | 70401815        | NPN TRANSISTOR                 |
| 2878                           | 2SC2878                               | 2SC2878                        | 70402878        |                                |
| 5550                           | 2N5550                                | 2N5550                         | 70405550        |                                |
| 2N3638                         | MPS-6533, MPS-6534,<br>2N3644, 2N4403 | 2N3638, 2N3644                 | 70403638        |                                |
| 2N3642                         | MPS-6530, MPS-6531                    | 2N3642                         | 70403642        | 3642 BACKSTAGE 30<br>(LIMITER) |
|                                |                                       | <b>TO-126<br/>TRANSISTOR</b>   |                 |                                |
| SJE-5331                       | SJE-360, SJE-5919                     | MJE-243 CASE 77                | 70405331        | LEAD CONFIG. MAY DIFFER        |
| SJE-5332                       | SJE-5920, FT-417B                     | MJE-253, MJE-15029             | 70405332        | LEAD CONFIG. MAY DIFFER        |
| MJE-243/4                      | SJE-5331                              | MJE-243, CASE 77               | 70405331        | + & - 42 VOLT RAILS ONLY       |
| M-10049                        | SJE-5331                              |                                | 70405331        | SEE ABOVE.                     |
| MJE-253/4                      | SJE-5332                              | CASE 77                        | 70405332        | SEE ABOVE.                     |
| SJE-5986                       | SJE-5332                              | CASE 77                        | 70405332        | SEE ABOVE.                     |
| SJE-7036                       | SJE-5332                              | CASE 77                        | 70405332        | SEE ABOVE.                     |
| SJE-360                        | SJE-5331 SEE ABOVE                    |                                | 70405331        |                                |
| SJE-6018                       | 355-1                                 | MJE-340, SJE-3517              | 70406018        |                                |
| SJE-6019                       |                                       | MJE-350                        | 70406019        |                                |
| SDS-7204                       | 1034                                  | 2N6557, MPS-U10                | 70407204        |                                |
| SDS-7205                       | MPS-U60, BF-463,<br>9058S, 0694       | MPS-U60                        | 70407205        | TUBE DRIVER, REPLACE<br>PAIR   |

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|                                |                                 | <b>TO-220<br/>TRANSISTOR</b>   |                 |                              |
| 2005M                          | TDA-2005M                       | TDA-2005M                      | 70402005        | 20W PWR IC                   |
| 2008                           | TDA-2008                        | TDA-2008                       | 70402008        | 12W PWR IC                   |
| 2040                           | TDA-2040                        | TDA-2040                       | 70402040        | PWR OP-AMP IC                |
| 2152                           | SJE-2152                        | TIP-101                        | 70402152        | NPN DARLINGTON               |
| 2153                           | SJE-2153                        | TIP-106                        | 70402153        | PNP DARLINGTON               |
| EP-430                         | TIP-31C, TIP-29C                | TIP-31C, TIP-29C               | 70400430        |                              |
| EP-431                         | TIP-30C                         | TIP-30C, TIP-32C               | 70400431        |                              |
| TIP-29C                        | EP-430                          | TIP-31C                        | 70400430        |                              |
| TIP-31C                        | EP-430                          | TIP-29C                        | 70400430        |                              |
| TIP-30C                        | EP-431                          | TIP-32C                        | 70400431        |                              |
| 64278*                         | 65837, SDS-7204,<br>1034        | 2N3439, MJE-3439               | 70407204        | TUBE DRIVER, REPLACE<br>PAIR |
| 65837*                         | SDS-7204, 1034                  | 2N3439, MJE-3439               | 70407204        | TUBE DRIVER, REPLACE<br>PAIR |
| SJ-5884                        | MJE-15030                       | MJE-15028, TO-220              | 70405884        | TUBE DRIVER, REPLACE<br>PAIR |
| CA-2004M                       |                                 |                                | 70402004        |                              |
| CA-2008                        |                                 | TDA-2008, TO-220               | 70402008        | 12 WATT                      |
| TDA-2030                       |                                 |                                | 70402030        | 14 WATT TO-220               |
| MJE-700T                       | SJE-5879                        | SJE-5879, TO-220               | 70400700        | PNP DARLINGTON               |
| MJE-800T                       | SJE-5880                        | SJE-5880                       | 70400800        | NPN DARLINGTON               |
| SJE-5879                       | MJE-700T                        |                                | 70400700        |                              |
| MJE-15030                      |                                 |                                | 70415030        | NPN DRIVER 150V              |
| MJE-15031                      |                                 |                                | 70415031        | PNP DRIVER 150V              |
|                                |                                 | <b>VOLTAGE<br/>REGULATORS</b>  |                 |                              |
| LM-78L05                       |                                 |                                | 70407805        | TO-92 5V REG.                |
| MC-79L12                       |                                 |                                | 70407912        | TO-92 12V REG.               |
| 7806                           |                                 |                                | 704007806       | +6V REG. TO-220              |

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| 7810                           |                                 |                                | 70407810        | +10V REG. TO-220 |
| 7812                           |                                 |                                | 70407812        | +12V REG. TO-220 |
| MC-7905CT                      |                                 |                                | 70427905        | -5V REG.         |
| 7915                           |                                 |                                | 70400320        | -15V REG.        |
| 7815                           |                                 |                                | 70400340        | +15V REG.        |
| MC-7824CT                      |                                 |                                | 70427824        | +24V REG.        |
| MC-7924CT                      |                                 |                                | 70427924        | -24V REG.        |
| MC-7815CK                      |                                 |                                | 70407815        | +15V REG. TO-3   |
| MC-7915                        |                                 |                                | 70407915        | -15V REG. TO-3   |
| MC-7824 CK                     |                                 |                                | 70407824        | +24V REG. TO-3   |
|                                |                                 | <b>TO-3 TRANSIS-<br/>TORS</b>  |                 |                  |
| 404118*                        | 84140                           | 2N3772                         | 70484140        | NPN              |
| SJ-4096*                       | 81200                           | MJ-15020                       | 70481200        | NPN 200V DRIVER  |
| SJ-4097*                       | 71200                           | MJ-15021                       | 70471200        | PNP 200V DRIVER  |
| SJ-6343*                       | 83180                           | MJ-15024                       | 70483180        | NPN 180V OUTPUT  |
| SJ-6344*                       | 81140                           | MJ-13330                       | 70481180        | NPN 140V DRIVER  |
| SJ-6357*                       | 84140                           | MJ-15003                       | 70484140        | NPN 140V OUTPUT  |
| SJ-6387*                       | 81180                           | MJ-13330                       | 70481180        | NPN 180V DRIVER  |
| SJ-6392                        | 83100                           | MJ-15015, 2N3055A              | 70483100        | NPN 100V OUTPUT  |
| SJ-6451*                       | 83180                           | MJ-15024                       | 70483180        | NPN 180V OUTPUT  |
| SJ-6465*                       |                                 | MJ-4247                        | 70406465        | NPN TUBE DRIVER  |
| SJ-6505*                       | 73100                           | MJ-15016, 2N6228               | 70473100        | PNP 100V OUTPUT  |
| SJ-6506*                       | 81180                           | MJ-15020                       | 70481180        | NPN 180V DRIVER  |
| SJ6507*                        | 71180                           | MJ-15021                       | 70471180        | PNP 180V DRIVER  |
| SJ-6552*                       | 81140                           | MJ-15018                       | 70481180        | NPN 140V DRIVER  |
| SJ-6553*                       | 71140                           | MJ-15019                       | 70471180        | PNP 140V DRIVER  |
| SJ-8226*                       | 84140                           | MJ-15052                       | 70484140        | NPN 140V OUTPUT  |
| SJ-8227*                       | 74140                           | MJ-15053                       | 70474140        | PNP 140V OUTPUT  |

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| SJ-8306*                       | 84200                           | MJ-15024                       | 70484200        | NPN 200V OUTPUT |
| SJ-8307*                       | 74200                           | MJ-15025                       | 70474200        | PNP 200V OUTPUT |
| SJ-8332*                       | 83180                           | MJ-15024                       | 70483180        | NPN 180V OUTPUT |
| SJ-8333*                       | 73180                           | MJ-15025                       | 70473180        | PNP 180V OUTPUT |
| 60142*                         | 84140                           | 2N3772                         | 70484140        | NPN 140V OUTPUT |
| 62188                          | 84140                           | 2N3773                         | 70484140        | NPN 140V OUTPUT |
| 62792*                         | 84140                           | 2N3055                         | 70484140        | NPN 140V OUTPUT |
| 64601*                         | 68271                           | 1B05                           | 70468271        | CS-800 OUTPUT   |
| 67068*                         | 68271                           | 1B09                           | 70468271        | CS-800 DRIVER   |
| SJ-63180                       |                                 | MJW-3281A                      | 70463180        | NPN CS-150      |
| SJ-53180                       |                                 | MJW-1302A                      | 70463180        | PNP CS-150      |
| 66161*                         | 83180                           | 1B05                           | 70483180        | NPN 180V OUTPUT |
| 67376                          | 84140                           | 2N5630                         | 70467376        | NPN OUTPUT      |
| 68271                          |                                 | MJ-15024                       | 70468271        | CS-800 OUTPUT   |
| 73070                          |                                 |                                | 70473070        | PNP-70V OUTPUT  |
| 83070                          |                                 | MJ-3055                        | 70483070        | NPN-70V OUTPUT  |
|                                |                                 | <b>MOSFET<br/>TRANSISTORS</b>  |                 |                 |
| IRFP-360                       |                                 | TO-3                           | 70410360        | N-CHANNEL       |
| IRFI-634                       |                                 | TO-220                         | 70410634        | N-CHANNEL       |
| IRFP-9240                      |                                 | 200V                           | 70419240        | P-CHANNEL       |
| RFM-1015                       |                                 |                                | 70420015        |                 |
| IRFP-350NM                     | USE 70900497                    | INSULATOR ONLY                 | 70400350        | HIGH POWER FET  |
| IRF-634                        |                                 |                                | 70400634        | N-CHANNEL       |
| IRF-830                        |                                 |                                | 70400830        | N-CHANNEL       |
| BF-966S                        | DUAL GATE                       |                                | 70400966        | N-CHANNEL       |
| VN-2222LL                      | TO-92                           | ENHANCEMENT                    | 70402222        |                 |
| IRF-230                        |                                 |                                | 70420230        |                 |
| IRF-240                        |                                 |                                | 7040240         |                 |

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| 15N40*                         | IRFP-350                        |                                | 70430350        |                |
| IRFP-340                       |                                 | TO-3                           | 70430340        | N-CHANNEL      |
| IRFP-350                       |                                 | TO-3                           | 70430350        | N-CHANNEL      |
| IRFIP-351                      |                                 |                                | 70430351        |                |
| 634                            |                                 | ISO-220 PACKAGE                | 70410634        | 250V N-CHANNEL |

\* = Original in-house part obsolete; no longer available. N = Note: Save good devices left over for future use.

Our semi-conductors are selected for "safe operating area" and beta range. Commercially available equivalents may not parallel these specs.

## Transistor Summary

### \*NOTICE\*

When replacing power output devices, our designs do NOT require Banks or that all be replaced. We do require that any defective device be replaced with the same part number by PEAVEY. DO NOT MIX BRANDS OR PART NUMBERS, EXCEPTIONS LISTED BELOW.

| ITEM NUM-BER | NOTES                                                                                                                                                                                                                           |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 64601        | No longer available; replace with RCA-68271, order by 70468271.                                                                                                                                                                 |
|              | Driver output for 64601 is 68271, order by 70468271.                                                                                                                                                                            |
| RCA-66161    | No longer available. Replace with RCA-68271, order by 70468271. NOTE: Replacement of the above devices with the RCA device 70468271 requires no circuit modification. Devices may be mixed or totally changed over to 70468271. |
| SJ-6451      | Motorola part 70406451. No longer available. Replace all ten in each module with 70483180. DO NOT MIX 6451 with 831803. Driver output for 83180 is 70481180. Original driver number was 6506.                                   |
| SJ-8332      | No longer available. Replace with 70483180. DO NOT MIX 8332 with 83180. Driver output for 83180 is 70481180.                                                                                                                    |
| SJ-6506      | No longer available. Replace with 70481180. Driver output for 6343 (A&B), SJ-8332, or RCA-68271.                                                                                                                                |
| SJ-6387      | No longer available. Replace with 70481180. NOTE: DO NOT DRIVE 66161 with SJ-6387 OR 81180, Use 67068 or another 66161.                                                                                                         |
|              | Motorola 6343 (A&B) No longer available. Replace with 70483180. O.K. to mix in pairs.                                                                                                                                           |
| SJ-8332      | No longer available. Replace with 70483180. NOTE: DO NOT MIX.                                                                                                                                                                   |
| 6344         | No longer available. Replace with 70481140. DO NOT MIX.                                                                                                                                                                         |
| SJ-6552      | No longer available. Replace with 70481140. DO NOT MIX.                                                                                                                                                                         |
| SJ-6357      | No longer available. Replace with 70484140. MIX IN PAIRS.                                                                                                                                                                       |
| 4096         | No longer available. Replace with 70481200. DO NOT MIX.                                                                                                                                                                         |
| 4097         | No longer available. Replace with 70471180. DO NOT MIX.                                                                                                                                                                         |
| 6507         | No longer available. Replace with 70471180. DO NOT MIX.                                                                                                                                                                         |
| 6553         | No longer available. Replace with 70471140. DO NOT MIX.                                                                                                                                                                         |
| 8226         | No longer available. Replace with 770484140. DO NOT MIX.                                                                                                                                                                        |
| 8227         | No longer available. Replace with 70474140. DO NOT MIX.                                                                                                                                                                         |
| 8306         | No longer available. Replace with 70484200. DO NOT MIX.                                                                                                                                                                         |
| 8307         | No longer available. Replace with 70474200. DO NOT MIX.                                                                                                                                                                         |
| 8332         | No longer available. Replace with 70483180. DO NOT MIX.                                                                                                                                                                         |

| ITEM NUMBER | NOTES                                                   |
|-------------|---------------------------------------------------------|
| 8333        | No longer available. Replace with 70473180. DO NOT MIX. |

Part numbering system for Peavey TO-3 power transistors. Example: 70484200 = Transistor/NPN/4 amps/200 volt.

CATEGORY/POLARITY/IC VALUE/BVCEO VALUE

704 X Y ZZZ

X = Odd number = (7) = PNP

X = Even number = (8) = NPN

Y = Current value where "HFE" gain is specified.

PNP transistors will be "red ink, NPN transistors will be "black" ink.

ZZZ = Voltage value where ICEO is specified.

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|--------------------------|---------------------------|-----------------------------------|--------------|-------------------------|
|                          |                           | <b>SPECIAL APPLICATIONS PARTS</b> |              |                         |
| 4025                     |                           | MAC-525-6                         | 70404025     | 400V 25A TRIAC          |
| Q4040P                   |                           |                                   | 70404040     | 400V 40A TRIAC          |
| 2N6346A                  | SAC-187                   |                                   | 70416346     | 200V 12A TRIAC          |
| MAC-97                   |                           | TO-92 CASE                        | 70400097     | 6A 400V TRIAC           |
| TRIAC 99                 |                           |                                   | 70400099     | 400V 16A TRIAC          |
| SAC-187                  |                           | 2N6346A                           | 70400187     | 200V 12A TRIAC          |
| MAC-252-6                |                           | MAC-525-7/8/9/10                  | 70400525     | 400V 25A TRIAC          |
| MAC-223                  |                           | TO-220 CASE                       | 70400223     | 25A 200V TRIAC          |
| SBS-14                   | MBS-4992                  | TO-92                             | 70400014     | 8V SWITCH               |
| M0C-635A                 |                           |                                   | 70400635     | OPTO-COUPLER            |
| 2IL628                   |                           |                                   | 70240102     | LDR                     |
| 21L565                   |                           |                                   | 70240101     | LDR                     |
| SBS-14                   |                           | MBS-4992                          | 70400014     | TO-92 8V SWITCH         |
| CL-60                    |                           |                                   | 70240200     | IN RUSH CURRENT LIMITED |
| TDA-1074                 |                           |                                   | 704001074    | DC CONTROLLED DUAL POT  |
| POT DIGITAL              | POT                       | 70401267                          | 14-PIN       | DUAL DIGITAL POT        |
|                          |                           | <b>DIODES</b>                     |              |                         |
| FEP-16                   |                           | POSITIVE                          | 70400009     | HALF BRIDGE             |

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| FEP-16                         |                                 | NEGATIVE                       | 70400010        | HALF BRIDGE      |
| 1N34A                          | US-270                          |                                | 70400034        | 5MA, 60V, GERM.  |
| HER-130                        | MUR-120                         |                                | 70400103        | 200V, 1AMP       |
| 1SS142                         |                                 |                                | 70400142        | 250V, SWITCHING  |
| MUR-150                        |                                 |                                | 70400150        | 1 AMP, 500V      |
| FEN16GT                        |                                 |                                | 70400160        | HALF BRIDGE      |
| FEP16GT                        |                                 |                                | 70400161        | HALF BRIDGE      |
| B-400*                         | IR20F-20                        | GEA-327B                       | 70400400        | 10A, 200V STUD   |
| P-300D                         | 1N5402, 1N5403                  |                                | 70400502        | 200V, 3 AMP      |
| MR-502                         | 1N5403, 1N5402                  |                                | 70400502        | 200V, 3 AMP      |
| BB-619A                        | SURFACE MOUNT                   |                                | 70400619        | TUNING DIODE     |
| BAR -74S                       | SURFACE MOUNT                   |                                | 70400740        | G.P.             |
| 1N747A                         |                                 |                                | 70400747        | 3.6V, 5% ZENER   |
| 1N 751A                        |                                 |                                | 70400751        | 5.1V, 5% ZENER   |
| MR-752                         | P-600D                          |                                | 70400752        | 6 AMP, 200V      |
| 1N754A                         | 1N9557B                         |                                | 70400754        | 6.8V, 5% ZENER   |
| 1N757A                         | 1N5239                          |                                | 70400757        | 9.1V, 5% ZENER   |
| 1N968B                         |                                 | 5% ZENER                       | 70400968        | 20V, .5W         |
| 1N969B                         |                                 |                                | 70400969        | 22V, 5% ZENER    |
| 1N978A                         | SZG-30720                       |                                | 70430720        | 51V ZENER        |
| D10LC40                        |                                 |                                | 70401040        | FAST RECOVERY    |
| 1202                           |                                 | PV LITE 2400                   | 70401202        | ZENER            |
| 15N40                          | KBP-2504                        |                                | 70401540        | 25A, 400V BRIDGE |
| DB2504P                        |                                 | BRIDGE RECT.                   | 70402504        | 400V, 25A W/LEAD |
| 2508                           |                                 | BRIDGE RECT.                   | 70402508        | 800V, 25 AMP     |
| SR-2873                        | MR-2502                         | TUBE FLYBACK                   | 70402873        | 2K PIV 250MA     |
| 1N4003                         |                                 |                                | 70464003        | 1A, 200V, SIL.   |
| 1N4004                         |                                 |                                | 70464004        | 1A, 400V, SIL.   |
| 1N4007                         |                                 |                                | 70464007        | 1A, 1000V, SIL.  |

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| ***1N270                       |                                 | 1N270                          | 70410270        | 200 MA, 80V       |
| **SZ-13886                     | SZ-13551                        | MZ-2361                        | 70413886        | DUAL DIODE        |
| 1N5239C                        |                                 | 2% ZENER                       | 70415239        | 9.1V, .4W         |
| 1N4148                         | (LL34)                          |                                | 70418026        | SMT (1134)        |
| 1N751                          | (LL34)                          |                                | 70418027        | SMT (LL34)        |
| RL-25227B                      |                                 |                                | 70418028        | 3.6V ZENER SMT    |
| MBR-350                        |                                 |                                | 70420350        | MRB-350 SCHOTTKY  |
| 1N758A                         |                                 | 5% ZENER                       | 70420758        | 10V, 400MW        |
| RUR-820                        |                                 |                                | 70420820        | FAST RECOVERY     |
| FAST REC.                      |                                 |                                | 70420830        | 300V, 8 AMP       |
| 1N4150                         |                                 |                                | 70424150        | SIGNAL DIODE      |
| SPZ-30050                      | 1N4745                          |                                | 70430050        | 16V, 1W ZENER     |
| SZ-30720                       |                                 | 10% ZENER                      | 70430720        | 51V, .5W T&R      |
| SZG-40102                      | 1N4744                          |                                | 70440102        | 15V, 1W 5% ZENER  |
| 1N4003                         |                                 |                                | 70464003        | 200V, 1A DIODE    |
| 1N4004                         |                                 |                                | 70464003        | 400V, 1A DIODE    |
| 1N4007                         |                                 |                                | 70464007        | 1000V, 1A SIL.    |
| 1N4148                         | 1N914, 1N4                      |                                | 70464148        | 75V, 10MA SIL.    |
| 1N4742                         |                                 |                                | 70464742        | 12V, 1W, 5% ZENER |
| 1N5393                         |                                 |                                | 70465393        | 200V, 1.5A        |
| 1N4749                         | SPZ-20100                       |                                | 70466164        | 24.5V, 1W ZENER   |
| MR-812                         | 4933, 1N4935                    |                                | 70404933        | FAST RECOVERY     |
| BA-5CS*                        | 1N4003                          | 1N4003                         | 70464003        | 1A, 400V          |
| MA5CS*                         | MR-752, P-600D                  |                                | 70400752        | 6A, 200V          |
| 1N4744                         |                                 | 1N4744                         | 70440102        | 15V, 1W ZENER     |
| SZP-20100                      | 1N4749                          |                                | 70466164        | 24.5V, 1W ZENER   |
| 15AF40                         | KBP-2504                        | BRIDGE RECTIFIER               | 70401540        | 25A, 400V         |
| FE-186                         |                                 |                                | 70400161        | HALF BRIDGE       |
| P-300D                         | 1N5402, 1N5403                  |                                | 70400502        | 3A, 200V          |

- \* Original in-house part number; no longer available.
- \*\* SZ-13886 is a special selection from MZ-2361 for voltage drop characteristics. Commercially available parts may not perform to these specs.
- \*\*\* To be used only in the Studio Chorus 70, not the same part as 70400034 branded #US-270.

## ANALOG IC'S

**Warnings:** All integrated circuits are static sensitive. PLEASE HANDLE WITH CAUTION, USE GROUNDED STATIC-FREE WORKSTATION.

| ORIGINAL<br>IN-HOUSE<br>NUMBER | ALTERNATE<br>IN-HOUSE<br>NUMBER     | FIELD<br>REPLACEMENT<br>NUMBER | ORDER<br>NUMBER | NOTES           |
|--------------------------------|-------------------------------------|--------------------------------|-----------------|-----------------|
| TK-11745                       |                                     | TO-92                          | 70411745        | 4.5V REGULATOR  |
| TLO-72                         | 4558, 3678, 5532,<br>4560           |                                | 70400072        | BI-FET DUAL JG  |
| TLO-74                         | TLO-84, XR-4741,<br>MC-33179        |                                | 70400074        | QUAD BI-FET PKG |
| BA-682                         |                                     |                                | 70400682        | L.E.D. DRIVER   |
| UA-741                         | REPLACES TL-071,<br>LF-355, SC-5278 |                                | 70400741        | SINGLE BI-POLAR |
| LB-1412                        |                                     |                                | 70401412        | L.E.D. DRIVER   |
| RS-232                         |                                     | DPM-C8                         | 70401488        | LINE DRIVER IC  |
| RS-232                         |                                     | DPM-C8                         | 70401489        | LINE RECEIVER   |
| SCM-2017P                      |                                     |                                | 70402017        | AUDIO PREAMP IC |
| TLE-2062CP                     |                                     |                                | 70402062        | DUAL J-FET      |
| TLE-2064CN                     |                                     |                                | 7042064         | QUAD J-FET      |
| 1281                           |                                     | 12X8X1                         | 70402093        | CROSSPOINT SW   |
| MC-142100                      |                                     | 4X4X1                          | 70402100        | CROSSPOINT SW   |
| RA-3678                        | 4560, 5532                          | LOW NOISE                      | 70403678        | DUAL BI-POLAR   |
| LA-4170                        |                                     |                                | 70404170        | HEADPHONE AMP   |
| RC-4558                        | BA-4560                             | (NOT IN REVERB)                | 70404558        | DUAL BI-POLAR   |
| BA-4560                        | RC-4558                             | (NOT IN REVERB)                | 70414560        | DUAL BI-POLAR   |
| L-4962                         |                                     | 5V TO 40V, 1.5A                | 70404962        | REGULATOR       |
| NE-5532**                      | 4560, 3678                          | LOW NOISE OP-AMP               | 70405532        | DUAL BI-POLAR   |
| NE-5534FE                      | LOW NOISE                           | CS DRIVE BOARD                 | 70405534        | SINGLE BI-POLAR |
| ICL-7660S                      |                                     |                                | 70407662        | VOLTAGE INVERT  |
| MC-33179                       | TLO-74/84                           |                                | 70433179        | BI-POLAR QUAD   |
| MC-34071AP                     |                                     |                                | 70434071        | SINGLE BI-POLAR |
| MC-34181                       |                                     |                                | 70434181        | SINGLE J-FET    |

| ORIGINAL<br>IN-HOUSE<br>NUMBER | ALTERNATE<br>IN-HOUSE<br>NUMBER | FIELD<br>REPLACEMENT<br>NUMBER | ORDER<br>NUMBER | NOTES                                      |
|--------------------------------|---------------------------------|--------------------------------|-----------------|--------------------------------------------|
| UAA-180                        |                                 | MC & MR MIXER                  | 70467180        | L.E.D. DRIVER                              |
| SN-75150                       |                                 |                                | 70475150        | QUAD LINE DRIVE                            |
| 87478                          | CA-3094                         |                                | 70487478        | SINGLE O.T.A.                              |
| 87C751                         |                                 |                                | 70487751        | MICRO-CONTROL                              |
| TL-604                         | SN-99661                        | SPECIAL HANDLING               | 70400604        | CMOS                                       |
| MC-3302                        |                                 | COMPARATOR                     | 70403302        | BI-POLAR                                   |
| LM-325                         |                                 | MC & MR MIXERS                 | 70400325        | REGULATOR IC                               |
| LM-3915                        |                                 | BI-POLAR                       | 70403915        | L.E.D. DRIVER                              |
| SC-5278*                       | LF-355, UA-741, TLO-71          |                                | 70405534        | CS DRIVE BOARD                             |
| LF-355*                        | UA-741, TLO-71                  |                                | 70405534        | CS DRIVE BOARD                             |
| TLO-71*                        | UA-741, LF-355N, SC-5278        |                                |                 |                                            |
| TLO-84                         | TLO-74                          |                                | 70400074        |                                            |
| XR-4741                        | TL-O74, TL-O84, MC-33179        |                                | 70404741        | XR-4741 EQ                                 |
| SN-99661                       | TL-604                          | SPECIAL HANDLING               | 70400604        | CMOS DEVICE                                |
| CA-3094                        | 87478                           |                                | 70487478        | SINGLE O.T.A.                              |
| MF-6                           | MF-6CN-50                       | (6 POLE)                       | 70400650        | BUTTERWORTH FIL                            |
| MC-1436P1                      | MC-1436P1                       | STUDIO CHORUS                  | 70401436        | HI VOLT OP AMP                             |
| TDA-2005M                      | 20 WATTS                        | MC-1436P1                      | 70401436        | BRIDGE AMP                                 |
| TDA-2040                       |                                 | TDA-2040                       | 70402040        | POWER AMP                                  |
| CD-4511                        |                                 | CD-4511                        | 70404511        | 7 SEG. DRIVER                              |
| SLK-2452-02                    |                                 | SLK-2452-02                    | 70402452        | COUNTER/TIMER                              |
| 3005                           |                                 | MN-3005, 4096                  | 70403005        | STAGED BBD IC                              |
| 3007                           |                                 | MN-3007/1024-ST                | 70403007        | LO-NOISE BBD                               |
| 3101                           |                                 | MN-3101                        | 70403101        | BBD CLOCK GEN.                             |
| CA-32080E                      | DUAL O.T.A.                     | CA-3280G                       | 70403280        | DUAL INLINE                                |
| 3302N                          | DUAL INLINE                     | LM-3302N, MC-3302              | 70403302        | COMPARATOR IC                              |
| PWM-25                         |                                 | IP-3525A                       | 70400025        | IF IP-3525A IS USED, CALL FOR MODIFICATION |

| ORIGINAL<br>IN-HOUSE<br>NUMBER | ALTERNATE<br>IN-HOUSE<br>NUMBER | FIELD<br>REPLACEMENT<br>NUMBER | ORDER<br>NUMBER | NOTES                       |
|--------------------------------|---------------------------------|--------------------------------|-----------------|-----------------------------|
| BA-6144                        |                                 | BA-6144                        | 70406144        | 5 SEG. LED DRIVE            |
| BA-6209                        |                                 | BA-6209                        | 70406209        | MOTOR DRIVER                |
| STK-6327A                      | 16-PIN SIP PACK                 | STK-6327A                      | 70406327        | EQ PACKAGE                  |
| 8038CP                         |                                 | XR-8038                        | 70408038        | PREC. WAVEFORM<br>GENERATOR |
| 665                            |                                 | TEA-0665                       | 7040665         | DOLBY B/C NR IC             |
| LM-323                         |                                 | LM-323/LT-323AK                | 70420323        | +5V 3A TO-3 REG.            |

\* Original in-house part obsolete; no longer available.

\*\* When used as input chip in UT series amps, can cause scratch or DC on pregain control.

NOTE: Numbers with NO SUBSTITUTES must be replaced with the original number.

| ORIGINAL<br>IN-HOUSE<br>NUMBER | ALTERNATE<br>IN-HOUSE<br>NUMBER | FIELD<br>REPLACEMENT<br>NUMBER | ORDER<br>NUMBER | NOTES                 |
|--------------------------------|---------------------------------|--------------------------------|-----------------|-----------------------|
|                                |                                 | <b>DIGITAL I.C.<br/>LIST</b>   |                 |                       |
| ADC-0804                       |                                 | (8 BIT)                        | 70400804        | A/D CONVERTER         |
| AD-565AJN                      |                                 | (12 BIT)                       | 70420565        | D/A CONVERTER         |
| AD-7524                        |                                 |                                | 70407524        | CMOS DAC              |
| AD-7528                        |                                 |                                | 70407528        | DUAL CMOS DAC         |
| AD-7545KN                      |                                 | (12 BIT)                       | 70427545        | D/A CONVERTOR         |
| AD7580                         |                                 | 10 BIT SAMPLER                 | 70407580        | A/D CONVERTOR         |
| AM-25L04PC                     |                                 |                                | 70422504        | 12 BIT SAR            |
| AM-6012DC                      |                                 |                                | 70426012        | 12 BIT P/A            |
| BA-6209                        |                                 |                                | 70406209        | BA-6209 I.C.          |
| CA-3086                        |                                 |                                | 70423086        | TRN ARRAY             |
| CA-3280E                       |                                 |                                | 70403280        | CA-3280 I.C.          |
| CD-74HC04                      |                                 |                                | 70410004        | HEX INVT. BUFFER      |
| CD-74HC27                      |                                 |                                | 70430027        | 3 INPUT NOR           |
| CD-74HCT11                     |                                 |                                | 70430011        | CMOS TRIPLE INPUT AND |

| ORIGINAL<br>IN-HOUSE<br>NUMBER | ALTERNATE<br>IN-HOUSE<br>NUMBER | FIELD<br>REPLACEMENT<br>NUMBER | ORDER<br>NUMBER | NOTES            |
|--------------------------------|---------------------------------|--------------------------------|-----------------|------------------|
| CD-74HCT257                    | CD-74HCT257E                    |                                | 70400257        | I.C.             |
| 74HCT4066                      | CD-74HCT4066E                   |                                | 70424066        | QUAD BI-LATERAL  |
| CD-22402E                      |                                 |                                | 70422402        | SYNC TIMER GEN.  |
| CD-4001DE                      |                                 |                                | 70404001        | CMOS QUAD NOR    |
| CD-4013BE                      |                                 | (FLIP-FLOP)                    | 70404013        | CMOS DUAL D      |
| CD-4016                        |                                 |                                | 70404016        | ANALOG SWITCH    |
| CD-4021                        |                                 |                                | 70404021        | CMOS PARALLEL    |
| CD-4051                        |                                 | MULTIPLEXER                    | 70404051        | ANALOG           |
| CD-4053B                       |                                 |                                | 70404053        | TRIPLE 2:1 MUX.  |
| CD-4066                        |                                 | SWITCH                         | 70404066        | QUAD BI-LATERAL  |
| CD-4071                        |                                 | BUFFER OR GATE                 | 70404071        | QUAD 2 INPUT     |
| CD-4081                        |                                 |                                | 70404081        | BINARY ENCODER   |
| CD-4532                        |                                 |                                | 70404532        | PRIORITY ENCODE  |
| CD-40106BE                     |                                 |                                | 70440106        | SCHMITT TRIGGER  |
| CDM-6264E3                     |                                 | STATIC CMOS RAM                | 70480008        | 8K X8            |
| DG-211                         |                                 |                                | 70420211        | CJ I.C.          |
| DM-2502                        |                                 |                                | 70422502        | 8 BIT SAREG      |
| DS-0026                        |                                 |                                | 70420026        | CMOS C/K DRIVER  |
| HDPL-2601                      |                                 |                                | 70422601        | OPTOCOUPLER      |
| HCPL-2611                      |                                 |                                | 70422611        | H.P. OPTOCOUPLER |
| HD-6409                        |                                 |                                | 70406409        | ENCDR/DECODER    |
| KM-41256                       |                                 | 256K X 1                       | 70480256        | DYM RAM MICRON   |
| L-296                          |                                 |                                | 70400296        | SWITCHNG REG.    |
| LF-398N                        |                                 |                                | 70420398        | SAMPLE/HOLD AMP  |
| LF-398N                        |                                 |                                | 70420398        | SAMPLE/HOLD AMP  |
| LH-324                         |                                 |                                | 70415019        | OP AMP           |
| LM-308                         |                                 |                                | 70420308        | OP AMP           |
| LM-311                         |                                 |                                | 70420311        | V COMPARITOR     |
| LM-317                         |                                 |                                | 70400317        | ADJ REGULATOR    |

| ORIGINAL<br>IN-HOUSE<br>NUMBER | ALTERNATE<br>IN-HOUSE<br>NUMBER | FIELD<br>REPLACEMENT<br>NUMBER | ORDER<br>NUMBER | NOTES               |
|--------------------------------|---------------------------------|--------------------------------|-----------------|---------------------|
| LM-325N                        |                                 |                                | 70400325        | TRACKING REGULATOR  |
| LM-399                         |                                 |                                | 70400399        | QUAD DIFF. COMP.    |
| LM-555CN                       |                                 |                                | 70420555        | TIMER               |
| LM-3080N                       |                                 |                                | 70403080        | O.T.A.              |
| LM-3080N                       | CUSTOM SELECTED                 |                                | 70413080        | O.T.A.              |
| LM-3086                        |                                 |                                | 70423086        | TRN ARRAY           |
| LM-3189                        |                                 |                                | 70403189        | IF AMP/DET.         |
| LM-835                         |                                 |                                | 70400835        | DIGITAL CONT. EQ    |
| MB-504                         |                                 |                                | 70400504        | PRESALER            |
| MC-1408P6                      |                                 | (8 BIT)                        | 70420806        | D/A CONVERTOR       |
| MC-14011                       |                                 |                                | 70414011        | CD-4011             |
| MC-14081B                      |                                 |                                | 70414081        | REVERB GATE ARR     |
| MC-145157                      |                                 |                                | 70405157        | FREQ. SYNTH         |
| MCM-4116                       |                                 | 16K X 1                        | 70424116        | BP DYN RAM          |
| 6665AP20                       | MCM-6665AP20                    | 64K BIT                        | 70426664        | DYNAMIC RAM         |
| MF-650                         |                                 | 6 POLE                         | 70400650        | BANDWITH FILTER     |
| MPQ-918                        |                                 | XTR ARRAY                      | 70400918        | QUAD AMP            |
| NE-566N                        |                                 |                                | 70420566        | V CONTROL OSC.      |
| NE-571N                        |                                 |                                | 70420571        | COMPANDER I.C.      |
| NE-572                         | SA-572                          | PROG. ANALOG                   | 70420572        | COMPANDER           |
| P-80C31BH                      |                                 |                                | 70400031        | CMOS MICROPROSS     |
| PCM-54                         |                                 |                                | 70420054        | 16 BIT V D/A        |
| PCM-56                         |                                 | SERIAL INPUT                   | 70410056        | 16 BIT DAC          |
| PCM-61                         |                                 |                                | 70401860        | 18 BIT DAC          |
| QPC-4621                       |                                 |                                | 70424621        | HI SLEW OPTOCOUPLER |
| S-3528                         |                                 |                                | 70403528        | PROG. FILTER        |
| SN74LS00N                      |                                 | (NAND GATE)                    | 70420000        | QUAD 2 INPUT        |
| SN-74LS04N                     |                                 |                                | 70420004        | HEX INVERTER        |
| SN-74LS10N                     |                                 | (NAND GATE)                    | 70420010        | TRIPLE 8 INPUT      |

| ORIGINAL<br>IN-HOUSE<br>NUMBER | ALTERNATE<br>IN-HOUSE<br>NUMBER | FIELD<br>REPLACEMENT<br>NUMBER | ORDER<br>NUMBER | NOTES            |
|--------------------------------|---------------------------------|--------------------------------|-----------------|------------------|
| SN-74LS11N                     |                                 | (NAND GATE)                    | 70420011        | TRIPLE 8 INPUT   |
| SN-74LS14N                     |                                 |                                | 70420014        | SCHMITT TRIGGER  |
| SN-74LS42N                     |                                 |                                | 70420042        | 1 OF 10 DECODER  |
| SN-74LS74AN                    |                                 |                                | 70420074        | DUAL D FLIPFLOP  |
| SN-74LS153N                    |                                 |                                | 70420153        | DUAL 4 IN MUX    |
| SN-74LS157N                    |                                 |                                | 70420157        | QUAD 2 IN MUX    |
| SN-74LS161N                    |                                 |                                | 70420161        | 4 BIT BIN CTR.   |
| SN-74LS174N                    |                                 |                                | 70420174        | HEX-D FLIP-FLOP  |
| SN-74LS193N                    |                                 |                                | 70420193        | UP/DOWN BINARY   |
| SN-74LS283N                    |                                 |                                | 70420283        | 4 BIT FULL ADDR. |
| SN-74LS374N                    |                                 |                                | 70420374        | I.C.             |
| SN-74LS393N                    |                                 |                                | 70420393        | COUNTER          |
| SN-74LS624N                    |                                 |                                | 70420624        | I.C.             |
| STK-6237                       |                                 | 70406237                       | 70406237        | GRAPHIC EQ       |
| TC-9135                        |                                 |                                | 70409135        | HEX PANEL SW     |
| TC-9144                        |                                 |                                | 70409144        | LOGIC CHIP       |
| TDA-7000                       |                                 |                                | 70407000        | FM TUNER I.C.    |
| TDA-8444                       |                                 | (DAC)                          | 70408444        | OCTUPLE 6 BIT    |
| TLC-274B                       |                                 |                                | 70400274        | OP AMP           |
| TLC-549                        |                                 | (8 BIT)                        | 70400549        | A/D CONVERTER    |
| TLJC-5411                      |                                 |                                | 70400541        | A/D PERIPHERAL   |
| UC-3637                        |                                 |                                | 70423637        | PWM CONTROLLER   |
| UC-3825                        |                                 |                                | 70403825        | PWM I.C.         |
| UM-8250A                       |                                 |                                | 70408250        | UART             |
| UPB-569C                       |                                 |                                | 70400569        | PRESCALER        |
| 1 MEG SIMM                     |                                 |                                | 70400248        | 1 MEG X 8 SIMM   |
| 6N138                          |                                 |                                | 70400138        | OPTOCOUPLER      |
| 68HC705C8                      |                                 |                                | 70407058        | 8 BIG MICRO CON. |
| 74AC157                        |                                 | QUAD EXCLUSIVE                 | 70410157        | OR GATE          |

| ORIGINAL<br>IN-HOUSE<br>NUMBER | ALTERNATE<br>IN-HOUSE<br>NUMBER | FIELD<br>REPLACEMENT<br>NUMBER | ORDER<br>NUMBER | NOTES           |
|--------------------------------|---------------------------------|--------------------------------|-----------------|-----------------|
| 74AC175                        |                                 | (HI SPEED)                     | 70420175        | D FLIP-FLOP     |
| 74H238                         |                                 |                                | 70410238        | 3 TO 8 DECODER  |
| 74HC02                         |                                 | QUAD 2 INPUT                   | 70410002        | NOR GATE        |
| 74HC04                         |                                 |                                | 70430004        | CMOS HEX INVERT |
| 74HC08                         |                                 |                                | 70430008        | QUAD AND GATE   |
| 74HC10                         |                                 |                                | 70430010        | CMOS            |
| 74HC14N                        |                                 | (SCHMITT)                      | 70420014        | TRIGGER INVERT  |
| 74HC32P                        |                                 |                                | 70410032        |                 |
| 74HC85                         |                                 | (4 BIT)                        | 70410085        | MAGNITUDE COM.  |
| 74HC86                         |                                 | QUAD EXCLUSIVE                 | 70410086        | OR GATE         |
| 74HC123                        |                                 | (ONE SHOT)                     | 70430123        | DUAL TRIGGER    |
| 74HC132                        |                                 | QUAD 2 INPUT                   | 70400132        | NAND GATE       |
| 74HC221                        |                                 |                                | 70430221        | DUAL NON RETRIG |
| 74HC148                        |                                 |                                | 70400148        | LIINE PRY ENCOD |
| 74HC164                        |                                 | (8 BIT)                        | 70400164        | SHIFT REGISTER  |
| 74HC175                        |                                 |                                | 70410175        | 4 BIT REGISTER  |
| 74HC257                        |                                 |                                | 70400257        | QUAD MULTIPLEX  |
| 74HC393                        |                                 |                                | 70400393        | HI SPEED CMOS   |
| 74HC404                        |                                 | HI-SPEED HEX                   | 70400104        | CMOS INVERTER   |
| 74HC573                        |                                 |                                | 70410573        | OCTAL LATCH     |
| 74HC574                        |                                 |                                | 70410574        | OCTAL REGISTER  |
| 74HC590                        |                                 |                                | 70410590        | BINARY COUNTER  |
| 74HC4020                       |                                 |                                | 70404020        | BINARY COUNTER  |
| 74HC4040                       |                                 |                                | 70414040        | BINARY COUNTER  |
| 74HCT00N                       |                                 |                                | 70410000        | CMOS NAND GATE  |
| 74HCT04                        |                                 | CMOS                           | 70430004        | HEX INVERTER    |
| 74HCT11                        |                                 |                                | 70430011        | CMOS            |
| 74HCT42                        |                                 |                                | 70430042        | CMOS            |
| 74HCT74                        |                                 | CMOS                           | 70430074        | DUAL FLIP-FLOP  |

| ORIGINAL<br>IN-HOUSE<br>NUMBER | ALTERNATE<br>IN-HOUSE<br>NUMBER | FIELD<br>REPLACEMENT<br>NUMBER | ORDER<br>NUMBER | NOTES            |
|--------------------------------|---------------------------------|--------------------------------|-----------------|------------------|
| 74HC5138                       |                                 |                                | 70420138        | 3 TO 8 DECODER   |
| 74HC5153                       |                                 |                                | 70430153        | DUAL 4 INPUT MUX |
| 74HCT157                       |                                 |                                | 70430157        | CMOS DUAL MUX    |
| 74HCT161                       |                                 | (CMOS)                         | 70430161        | BINARY COUNTER   |
| 74HCT174                       |                                 | CMOS HEX                       | 70430174        | D FLIP-FLOP      |
| 74HCT193                       |                                 |                                | 70430193        | CMOS UP/DOWN     |
| 74HCT245                       |                                 |                                | 70400245        |                  |
| 74HCT283                       |                                 |                                | 70400283        | CMOS FULL ADDER  |
| 74HCT373                       |                                 |                                | 70400373        | OCTAL BUFFER     |
| 74HCT374                       |                                 |                                | 70400374        | TRI. STATE OSC.  |
| 74HCT541                       |                                 |                                | 70410541        | OCTAL BUFFER     |
| 74HCU04                        |                                 |                                | 70400104        | HI-SPEED CMOS    |
| 74LS08                         |                                 |                                | 70420108        | INPUT AND GATE   |
| 80C31                          |                                 |                                | 70414501        | MICROPROCESSOR   |
| 87C751                         |                                 |                                | 70487751        | MICROCONTROLLER  |
| 604                            |                                 |                                | 70400604        | SN99661P-CMOS    |
| 2105                           |                                 | DIGITAL SIGNAL                 | 70402105        | PROCESSOR        |
| 3765                           |                                 | FLOPPY DISK                    | 70403765        | CONTROL          |
| 4028B                          |                                 | BCD TO DEC                     | 70404028        | DECODER          |
| 4328                           |                                 | (18 BIT)                       | 70404328        | STEREO D/A CONV. |
| 4464                           |                                 | 64K X 4                        | 70424464        | 100NS D-RAM      |
| 4465                           |                                 | 64K X 4 D-RAM                  | 70424465        | 120NS            |
| 4515                           |                                 | (LATCH)                        | 70404515        | ADDRESSABLE      |
| 5380                           |                                 |                                | 70405380        | SCSI CONTROLLER  |
| 6116                           |                                 | 2K X 8 BIT                     | 70406116        | STATIC RAM       |
| 7406                           |                                 |                                | 70407406        | HEX INVERTER     |
| 8155                           |                                 |                                | 70408155        | I/O EXPANDER     |
| 8751                           |                                 | (8 MHZ)                        | 70408751        | MICROCONTROLLER  |
| 8038CP                         |                                 |                                | 70408038        | WAVEFORM GEN.    |

| ORIGINAL<br>IN-HOUSE<br>NUMBER | ALTERNATE<br>IN-HOUSE<br>NUMBER | FIELD<br>REPLACEMENT<br>NUMBER | ORDER<br>NUMBER | NOTES  |
|--------------------------------|---------------------------------|--------------------------------|-----------------|--------|
| 53528                          |                                 | PROGRAMMABLE                   | 70403528        | FILTER |

Warning: All integrated circuits are static sensitive. Please handle all with caution; use grounded static-free work station.

| ORIGINAL<br>IN-HOUSE<br>NUMBER | ALTERNATE<br>IN-HOUSE<br>NUMBER | FIELD<br>REPLACEMENT<br>NUMBER              | ORDER<br>NUMBER | NOTES               |
|--------------------------------|---------------------------------|---------------------------------------------|-----------------|---------------------|
|                                |                                 | <b>FET IN-HOUSE<br/>CROSS<br/>REFERENCE</b> |                 |                     |
| J-111                          | J-112                           | 35 VOLT                                     | 70400111        | SPECIAL APPLICATION |
| J-174                          | 2N5461**                        | SPS-576**                                   | 70400174        | 30V P-CH.           |
| J-177                          |                                 |                                             | 70400177        | 30V P-CH.           |
| J-231                          | J-202, SKA-3586**               | 2N5462**<br>SPS-3008**                      | 70400231        | 40V N-CH.           |
| SPS-576*                       | 2N5461, 2N5462                  | SPS-3008                                    | 70400576        | 40 V P-CH.          |
| 2N5459*                        |                                 |                                             | 70405951        | 25V N-CH.           |
| 2N5951                         | SKA-3586, J231**                |                                             | 70405951        | 30V N-CH.           |
| SPF-558*                       | 2N5951**                        |                                             | 70405951        | 25V N-CH.           |
| MPF-161*                       | 2N5461/2                        | J-175**                                     | 70400576        | 30V P-CH.           |
| 2N5458*                        | 2N5951**                        |                                             | 70405951        | 25V N-CH.           |
| E-203*                         | 2N5951**                        | SKA-3586**                                  | 70405951        | 40V N-CH.           |
| J-175*                         | SPS-576**                       | 2N5462**                                    | 70400576        | 30V P-CH.           |
| J-270*                         | SPS-576**                       | 2N5462**                                    | 70400576        | 30V P-CH.           |
| 2222+                          |                                 | (MOSFET)                                    | 70402222        | 60V ENHANCEMENT     |
| SK-3586*                       | 2N5951, J-231**                 |                                             | 70405951        | 40V N-CH.           |
| SPS-3008*                      | MPF-161, 2N5461/2               | J-175**, SPS-576                            | 70400576        | 40 V N-CH.          |
| 2N5461/2*                      | SPS-576, J-175**                |                                             | 70400576        | 40V P-CH.           |

\*\* = Warning: Basing different; check basing diagram below.

\* = Original in-house part number now obsolete; no longer available.

Note: Use only 40V FET's in all transient suppressor circuits. Also, note voltage rating when cross referencing FET's.

## FET BASING DIAGRAM

**From      Bottom**

S   D   G

-----

```

- 0      0 -
-      0 -
-      - -
  -  -  -

```

2N5461, 2N5462, MPF-161, SPS-3008, SPS-576

D   G   S

-----

```

- 0      0 -
-      0 -
-      - -
  -  -  -

```

J-177, J-174, J-270, J-175

D   S   G

-----

```

- 0      0 -
-      0 -
-      - -
  -  -  -

```

2N5459, 2N5458, J-231, J-111, J-112

G   D   S

-----

```

- 0      0 -
-      0 -
-      - -
  -  -  -

```

SKA-3586, 2N5951

S   G   D

-----

```

- 0      0 -
-      0 -
-      - -
  -  -  -

```

2222

## CAPACITORS

Nearly all recent model Peavey circuits utilize glass/tubular capacitors which are often mistaken for diodes. They are distinguishable by their clear body and the capacitance value is printed on the side. The values are expressed as shown below.

|                          |      |
|--------------------------|------|
| 1 uf 10%.....            | 105  |
| .001 uf 10% 50V.....     | 102  |
| .0015 uf 10% 50V.....    | 152  |
| .0022 uf 10% 50V.....    | 222  |
| .0033 uf 10% 50V.....    | 332  |
| .0068 uf 10% 50V.....    | 682  |
| .015 uf 10% 50V.....     | 153  |
| .022 uf 10% 50V.....     | 223  |
| .033 uf 10% 50V.....     | 333  |
| .047 uf +80 -20 50V..... | 473Z |
| .047 uf 10% 50V.....     | 473K |
| .068 uf 10% 50V.....     | 683  |
| .1 uf +80 -20 50V.....   | 104K |
| .1 uf 10% 50V.....       | 104K |

Capacitors with values in picofarads are light green in color and are marked in the same manner as resistors, with color bands. These are often mistaken for resistors.

Capacitors with light blue or pink bodies and color coded bands have values in microfarads and are read as follows:

1st band - brown = 1

2nd band - green = 5

3rd band - orange = 3

153 = .015 (see chart above)

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