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|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MANUAL UPDATING COVERAGE</b><br><br>This supplement adapts your manual to Serial Numbers prefixed through:<br>3708A | <b>MANUAL IDENTIFICATION</b><br><br><b>Instrument:</b> HP 5087A<br>Distribution Amplifier<br>Operating and Service Manual<br><br><b>Manual Part Number:</b> 05087-90008<br><b>Manual Print Date:</b> September 1996 |
|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### ABOUT THIS SUPPLEMENT

The information in this supplement is provided to correct manual errors and to adapt the manual to instruments containing changes after the manual print date.

Change and correction information in this supplement is itemized by page numbers corresponding to the original manual pages. The pages in this supplement are organized in numerical order by manual page number.

#### HOW TO USE THIS SUPPLEMENT

**Insert this title page** in front of the title page in your manual.

**Perform all changes specified for "All Serials"**, and all changes through the Series Prefix of your instrument or board.

**Insert any complete replacement pages** provided into your manual in the proper location. The following pages are included in this update package: Title Page, 6-13/14.

If your manual has been updated according to the last edition of this supplement, you need only perform those changes pertaining to the new series prefix; see List of Effective Pages. New information affecting "All Serials" will be indicated by a "#" in front of the change.

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## LIST OF EFFECTIVE PAGES

#All Serials ..... Title Page, 1-2, 1-5, 5-9, 6-4 thru 6-12, 6-13/14, 8-15, 8-19, 8-25.

### PLEASE NOTE

This instrument incorporates a new method for tracking changes to its circuit boards. Starting July 1, 1988, all circuit boards will be labeled with a unique serial number. The SERIAL number will replace the previously used SERIES number, even though there may have been no change to the circuit board. Thus, if changes were made after July 1, 1988, they will be documented in this change sheet using the new circuit board SERIAL number. Changes made before that time are documented with the SERIES number.

Therefore, Circuit changes described in this change sheet may reference either the older SERIES number or the new SERIAL number. Using both numbers enables this change sheet to support both older and newer products. To determine which changes apply to your instrument, find the instrument's serial number prefix located on the rear panel, and make the manual changes indicated in this change sheet for that serial number prefix. For example, if the serial number is 2804A12345, make changes to the manual indicated for serial prefix 2804.

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## MANUAL CHANGES, MODEL 5087A (05087-90008)

All affected pages

#All Serials

> Change "HP" to "Agilent" throughout

> Change "Hewlett-Packard Company" to "Agilent Technologies" throughout

### PAGE 1-2. GENERAL INFORMATION:

All Serials

Table 1-1, Specifications:

> Change NON-HARMONIC DISTORTION specifications to read:  
Greater than 80 dB below rated output on 100 kHz, 1 MHz and  
5 MHz outputs. Greater than 70 dB on 10 MHz outputs.

### PAGE 1-5, TABLE 1-4, ASSEMBLIES USED IN THE 5087A DISTRIBUTION AMPLIFIER:

All Serials

> Change A1 Power Module from 5060-1189 to 0960-0504.

### PAGE 5-9, PERFORMANCE CHECKS, 2. NON-HARMONICALLY RELATED SIGNALS:

All Serials

> Insert the following sentence after the first sentence of the paragraph:  
Greater than 70 dB on 10 MHz outputs.

### PAGE 6-4, TABLE 6-2. A2 POWER SUPPLY ASSEMBLY REPLACEABLE PARTS:

All Serials

> Change A2 (05087-60008) SERIES from 1240 to 2208.

### PAGE 6-4, TABLE 6-2. A3 MOTHER BOARD REPLACEABLE PARTS:

All Serials

> Change A3 HP and Mfr part numbers from 05087-60007 to 05087-60015.  
> Change A3 (05087-60015) SERIES from 1620 to 2032.

### PAGE 6-5, TABLE 6-2. A6 INPUT PREAMPLIFIER (05087-60005) REPLACEABLE PARTS:

All Serials

> Change A6 HP Part Number from 05087-60005 to 05087-60004,  
and change CD from 0 to 9.  
> Change A6Q1, Q2 and Q4 description to TRANSISTOR SIM 2N2222A.

### PAGE 6-6, TABLE 6-2. A7 1 MHZ TO 100 KHZ DIVIDER BOARD (05087-60006):

All Serials

> Change A7 description to 1 MHZ TO 100.0 KHZ DIVIDER ASSY (OPTION 006).  
> Change A7C2 description to CAPACITOR-FXD 1000 PF 300V.  
> Change A7C12 description to CAPACITOR-FXD 8200 PF 1%.  
> Change A7Q1, Q2 and Q4 description to TRANSISTOR SIM 2N2222A.

### PAGE 6-7, TABLE 6-2. A8 5 MHZ AMPLIFIER (05087-60001) REPLACEABLE PARTS:

All Serials

> Change A8T1 and A8T2 description to TRANSFORM RF; 5 MHZ, 14UH PRI IND.

MANUAL CHANGES, MODEL 5087A (05087-90008)

**PAGE 6-8, TABLE 6-2. A9 1 MHZ AMPLIFIER (05087-60002) REPLACEABLE PARTS:**

- |             |                                                                                                                                                                                  |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| All Serials | <ul style="list-style-type: none"><li>&gt; Change A9Q1 and Q2 description to TRANSISTOR SIM 2N2222A.</li><li>&gt; Change A9R7 description to RESISTOR-FXD 82 2% .125W.</li></ul> |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**PAGE 6-9, TABLE 6-2. A10 100 KHZ AMPLIFIER (05087-60003) REPLACEABLE PARTS:**

- |             |                                                                                                                                                                                                                                                                      |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| All Serials | <ul style="list-style-type: none"><li>&gt; Change A10 description to 100 KHZ AMPLIFIER ASSY (OPTION 003).</li><li>&gt; Change A10 Mfr Part Number from 05087-60002 to 05087-60003.</li><li>&gt; Change A10Q1 and Q2 description to TRANSISTOR SIM 2N2222A.</li></ul> |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**PAGE 6-10, TABLE 6-2. A11 5 MHZ TO 10 MHZ DOUBLER (05087-60011) REPLACABLE PARTS:**

- |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| All Serials | <ul style="list-style-type: none"><li>&gt; Change A11 description to 5 MHZ TO 10 MHZ DOUBLER ASSY (OPTION 011)</li><li>&gt; Change A11 Mfr Part Number from 05087-60002 to 05087-60011.</li><li>&gt; Delete A11C8, 0141-0178, 1, 1, CAPACITOR-FXD 560PF 5%, 28480, 0141-0178.</li><li>&gt; Add A11C8*, 0141-0234, 2, 1, CAPACITOR-FXD 500 PF +-1% 300 VDC MICA, 28480, 0140-0234.</li><li>&gt; Add A11C8*, 0160-0363, 8, 1, CAPACITOR-FXD 620 PF +-1% 300 VDC MICA, 28480, 0160-0363.</li></ul> |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**PAGE 6-11, TABLE 6-2. A12 10 MHZ AMPLIFIER (05087-60012) REPLACEABLE PARTS:**

- |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| All Serials | <ul style="list-style-type: none"><li>&gt; Change A12 description to 10 MHZ AMPLIFIER ASSY (OPTION 012) (SERIES 1732)</li><li>&gt; Add A12R16, 2, 1, 0757-0940; RESISTOR-FXD FLM 4700 OHM 2% 1/8W, 28480, 0757-0940.</li><li>&gt; Change A12C9 description to CAPACITOR-FXD 33 PF 5% 300 VDC.</li><li>&gt; Change A12Q3 and Q4 description to TRANSISTOR S1 NPN / 80131/SN3866.</li><li>&gt; Change A12T1 and T2 description to TRANSFORMER RF; 5 MHZ, PRI IND.</li></ul> |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**PAGE 6-12, TABLE 6-2. A13 10-TO-5 MHZ DIVIDER (05087-60013) REPLACEABLE PARTS:**

- |             |                                                                                                                     |
|-------------|---------------------------------------------------------------------------------------------------------------------|
| All Serials | <ul style="list-style-type: none"><li>&gt; Change A13Q1, Q2 and Q4 description to TRANSISTOR SIM 2N2222A.</li></ul> |
|-------------|---------------------------------------------------------------------------------------------------------------------|

**PAGE 8-15, FIGURE 8-6. A7 1.0 MHz TO 100.0 kHz DIVIDER BOARD:**

- |             |                                                                                                                                                         |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| All Serials | <ul style="list-style-type: none"><li>&gt; Change input terminal 5,E to connect to B.</li><li>&gt; Change input terminal 7,H to connect to C.</li></ul> |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|

**PAGE 8-19, FIGURE 8-8. A9 1.0 MHz AMPLIFIER BOARD:**

- |             |                                                                                                  |
|-------------|--------------------------------------------------------------------------------------------------|
| All Serials | <ul style="list-style-type: none"><li>&gt; Change A9R7 value from 100 ohms to 82 ohms.</li></ul> |
|-------------|--------------------------------------------------------------------------------------------------|

**PAGE 8-25, FIGURE 8-11. A12 10 MHz AMPLIFIER BOARD:**

- |             |                                                                                                              |
|-------------|--------------------------------------------------------------------------------------------------------------|
| All Serials | <ul style="list-style-type: none"><li>&gt; Change input terminal 5E, B to read 5, E connects to B.</li></ul> |
|-------------|--------------------------------------------------------------------------------------------------------------|



# **AGILENT 5087A DISTRIBUTION AMPLIFIER**

## **OPERATING AND SERVICE MANUAL**

### **AGILENT 5087A SERIAL NUMBER PREFIX: 3708A**

This manual applies directly to AGILENT Model 5087A having serial number prefix 3708A and below.

### **NEWER INSTRUMENTS**

This manual, with enclosed "Manual Changes" sheet, applies to AGILENT Models 5087A having serial number prefixes as listed on the "Manual Changes" sheets.

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**Agilent Technologies**

Table 6-2. Replaceable Parts (Continued)

| Reference Designation | HP Part Number     | C D      | Qty      | Description                                                   | Mfr Code     | Mfr Part Number    |
|-----------------------|--------------------|----------|----------|---------------------------------------------------------------|--------------|--------------------|
| <b>A14</b>            | <b>05087-60014</b> | <b>1</b> | <b>1</b> | <b>BOARD, 10-TO-1-MHZ DIVIDER (OPT 014)<br/>(SERIES 1240)</b> | <b>28480</b> | <b>05087-60014</b> |
| A14C1                 | 0150-0093          | 0        | 3        | CAPACITOR-FXD 0.01UF +80-20% 100VDC                           | 72982        | 801-K800011        |
| A14C2                 | 0140-0198          | 3        | 2        | CAPACITOR-FXD 200PF 5%                                        | 72136        | RMD15F201J3C       |
| A14C3                 | 0150-0093          | 0        |          | CAPACITOR-FXD 0.01UF +80-20% 100VDC                           | 72982        | 801-K800011        |
| A14C4                 | 0180-0116          | 1        | 1        | CAPACITOR-FXD 6.8 UF 10% 35VDCW                               | 56289        | 150D685X903582-DYS |
| A14C5                 | 0180-0117          | 2        | 3        | CAPACITOR-FXD 2.7UF 10% 35VDCW                                | 28480        | 0180-0117          |
| A14C6                 | 0180-0117          | 2        |          | CAPACITOR-FXD 2.7UF 10% 35VDCW                                | 28480        | 0180-0117          |
| A14C7                 | 0140-0198          | 5        |          | CAPACITOR-FXD 200PF 5%                                        | 72136        | RMD15F201J3C       |
| A14C8                 | 0140-0196          | 3        | 1        | CAPACITOR-FXD 150 PF 5%                                       | 28480        | 0140-0196          |
| A14C9                 | 0150-0093          | 0        |          | CAPACITOR-FXD 0.01UF +80-20% 100VDC                           | 72982        | 801-K800011        |
| A14C10                | 0140-2224          | 2        | 1        | CAPACITOR-FXD 1800PF 5%                                       | 28480        | 0140-2224          |
| A14C11                | 0180-0117          | 2        |          | CAPACITOR-FXD 2.7UF 10% 35VDCW                                | 28480        | 0180-0117          |
| A14CR1                | 1901-3104          | 4        | 1        | DIODE-BREAKDOWN 5.62V 5%                                      | 04713        | SZ10939-110        |
| A14CR2                | 1901-0040          | 1        | 2        | DIODE 50 MA 30 MV                                             | 07263        | FDG1088            |
| A14CR3                | 1901-0040          | 1        |          | DIODE 50 MA 30 MV                                             | 07263        | FDG1088            |
| A14L1                 | 9140-0138          | 2        | 1        | COIL-CHOKE 180UH 5%                                           | 28480        | 9140-0138          |
| A14L2                 | 9100-0129          | 7        | 1        | COIL-CHOKE 220 UH 5%                                          | 28480        | 9100-0129          |
| A14L3                 | 9100-2282          | 7        | 1        | COIL-CHOKE 330 UH 5%                                          | 99800        | 9100-2282          |
| A14Q1, Q2, Q4         | 1854-0477          | 7        | 3        | TRANSISTOR SS 2N2222A                                         | 28480        | 1854-0477          |
| A14Q3                 | 1854-0003          | 5        | 1        | TRANSISTOR NPN                                                | 28480        | 1854-0003          |
| A14R1                 | 0757-0893          | 4        | 1        | RESISTOR 51 OHM 2% 1/8W                                       | 28480        | 0757-0893          |
| A14R2                 | 0757-0939          | 9        | 1        | RESISTOR 4.3K OHM 2% 1/8W                                     | 28480        | 0757-0939          |
| A14R3                 | 0757-0932          | 2        | 1        | RESISTOR 2.2K OHM 2% 1/8W                                     | 28480        | 0757-0932          |
| A14R4                 | 0757-0920          | 8        | 1        | RESISTOR 680 OHM 2% 1/8W                                      | 28480        | 0757-0920          |
| A14R5                 | 0757-0931          | 1        | 1        | RESISTOR 2K OHM 2% 1/8W                                       | 28480        | 0757-0931          |
| A14R6                 | 0757-0928          | 6        | 1        | RESISTOR 1.5K OHM 2% 1/8W                                     | 28480        | 0757-0928          |
| A14R7                 | 0757-0908          | 2        | 2        | RESISTOR 220 OHM 2% 1/8W                                      | 28480        | 0757-0908          |
| A14R8                 | 0757-0923          | 1        | 1        | RESISTOR 910 OHM 2% 1/8W                                      | 28480        | 0757-0923          |
| A14R9                 | 0757-0943          | 5        | 1        | RESISTOR 6.2K OHM 2% 1/8W                                     | 28480        | 0757-0943          |
| A14R10                | 0757-0934          | 4        | 1        | RESISTOR 2.7K OHM 2% 1/8W                                     | 28480        | 0757-0934          |
| A14R11                | 0757-0917          | 3        | 2        | RESISTOR 510 OHM 2% 1/8W                                      | 28480        | 0757-0917          |
| A14R12                | 0757-0908          | 2        |          | RESISTOR 220 OHM 2% 1/8W                                      | 28480        | 0757-0908          |
| A14R13                | 0757-0917          | 3        |          | RESISTOR 510 OHM 2% 1/8W                                      | 28480        | 0757-0917          |
| A14T1                 | 107A-9H            | 6        | 1        | TRANSFORMER ASSY, 1 MHZ                                       | 28480        | 107A-9H            |
| A14U1                 | 1820-0055          | 6        | 1        | IC TTL DECADE COUNTER 10 MHZ MIN                              | 01295        | SN7490N            |
|                       | 8159-0005          | 0        | 1        | JUMPER                                                        | 28480        | 8159-0005          |

See introduction to this section for ordering information  
\*Indicates factory selected value

Table 6-3. 5087A Chassis and Miscellaneous Parts

| Reference Designation | HP Part Number | C D | Qty | Description                                   | Mfr Code | Mfr Part Number      |
|-----------------------|----------------|-----|-----|-----------------------------------------------|----------|----------------------|
| A1                    | 0960-0504      | 5   | 1   | LINE MODULE-UNFILTERED 6A230V                 | 05245    | F2418                |
| A2                    | 05087-60008    | 3   | 1   | BD ASSEMBLY-POWER SUPPLY                      | 28480    | 05087-60008          |
| A3                    | 05087-60007    | 2   | 1   | BD ASSEMBLY-MOTHER                            | 28480    | 05087-60007          |
| A4                    | 05087-60009    | 4   | 1   | BD ASSEMBLY-CIRCUIT CHECK                     | 28480    | 05087-60009          |
| A5                    | 05087-60004    | 9   | 1   | BD ASSEMBLY-PREAMP (OPTS 004-031-032-033-034) | 28480    | 05087-60004          |
| A6                    | 05087-60005    | 0   | 1   | BD ASSEMBLY- 5/1 DIVIDER (OPTS 005-034)       | 28480    | 05087-60005          |
| A7                    | 05087-60006    | 1   | 1   | BD ASSEMBLY- 1/1 MHZ DIVIDER (OPTS 006-034)   | 28480    | 05087-60006          |
| A8                    | 05087-60001    | 6   | 1   | BD ASSEMBLY- 5 MHZ AMP (OPTS 001-031-032-034) | 28480    | 05087-60001          |
| A9                    | 05087-60002    | 0   | 1   | BD ASSEMBLY- 1 MHZ AMP (OPTS 002-031-034)     | 28480    | 05087-60002          |
| A10                   | 05087-60003    | 8   | 1   | BD ASSEMBLY- 100 KHZ AMP (OPTS 003-031-034)   | 28480    | 05087-60003          |
| A11                   | 05087-60011    | 8   | 1   | BD ASSEMBLY-DOUBLER (OPTION 011)              | 28480    | 05087-60011          |
| A12                   | 05087-60012    | 9   | 1   | BD ASSEMBLY- 10 MHZ AMP (OPTIONS 012-033)     | 28480    | 05087-60012          |
| A13                   | 05087-60013    | 0   | 1   | BD ASSEMBLY- 10/5 DIVIDER (OPTION 013)        | 28480    | 05087-60013          |
| A14                   | 05087-60014    | 1   | 0   | BD ASSEMBLY- 10/1 DIVIDER                     | 28480    | 05087-60014          |
| C1                    | 0180-4764      | 3   | 1   | CAPACITOR-FXD 1500 UF 50 V AL- ELECTR         | 56289    | 62D10013-DFP         |
| DS1, DS2              | 1990-0534      | 5   | 2   | LAMP, LED LUM INT=22MCD YELLOW                | 28480    | 1990-0534            |
|                       | 2110-0004      | 1   | 1   | FUSE (INCH).25 A 250V NTD FE UL               | 75915    | 312.25               |
|                       | 2110-0012      | 1   | 1   | FUSE (INCH) .5A 250 V NTD FE UL               | 75915    | 312.500              |
|                       | 2110-0043      | 8   | 1   | FUSE (INCH) 1.5 A 250V NTD FE UL              | 75915    | 312.01.5             |
| M1                    | 1120-1565      | 1   | 1   | METER 1.76" DIA 100 UA FSD                    | 55026    | 1212C                |
| MP1                   | 0370-0112      | 0   | 1   | KNOB- BASE BAR/SKIRT 3/4" BLACK               | 28480    | 0370-0112            |
| MP2                   | 0340-0162      | 7   | 1   | INSULATOR- TRANSISTOR TO-66 ALUM              | 28480    | 0340-0162            |
| MP3                   | 1250-0870      | 4   | 15  | CONNECTOR- RF BNC JACK                        | 24931    | 28JS112-1            |
| MP4                   | 5000-0830      | 7   | 2   | PLATE-FLUTED ALUMINUM                         | 28480    | 5000-0830            |
| MP5                   | 5000-0829      | 3   | 2   | COVER-SIDE                                    | 28480    | 5000-0829            |
| MP6                   | 5060-0729      | 3   | 2   | FRAME ASSY 3X11                               | 28480    | 5060-0729            |
| MP7                   | 5060-0767      | 9   | 5   | FOOT ASSEMBLY                                 | 28480    | 5060-0767            |
| MP8                   | 5060-7213      | 1   | 1   | TOP COVER ASSEMBLY                            | 28480    | 5060-7213            |
| MP9                   | 5060-7214      | 9   | 1   | BOTTOM COVER ASSEMBLY                         | 28480    | 5060-7214            |
| MP10                  | 5060-8739      | 1   | 1   | KIT-RACK MOUNT (OPTION 908)                   | 28480    | 5060-8739            |
| MP11                  | 3050-0005      | 5   | 2   | WASHER-SHOULDER NO.6.14-IN-ID.375-OD          | 00000    | ORDER BY DESCRIPTION |
| MP12                  | 05087-00001    | 0   | 1   | PANEL-FRONT                                   | 28480    | 05087-00001          |
| MP13                  | 05087-00002    | 1   | 1   | PANEL-REAR                                    | 28480    | 05087-00002          |
| MP14                  | 05087-00003    | 2   | 1   | CHASSIS-MAIN                                  | 28480    | 05087-00003          |
| MP15                  | 05087-00004    | 3   | 1   | CHASSIS-POWER SUPPLY                          | 28480    | 05087-00004          |
| MP16                  | 05087-00005    | 4   | 15  | SHIELD-BOARD                                  | 28480    | 05087-00005          |
| MP17                  | 05087-00006    | 5   | 1   | SHIELD-MAIN                                   | 28480    | 05087-00006          |
| Q1                    | 1854-0072      | 8   | 1   | TRANSISTOR-NPN 2N3054SI TO-66 PD=25W          | 04713    | 2N3054               |
| T1                    | 9100-3023      | 6   | 1   | TRANSFORMER-POWER                             | 28480    | 9100-3023            |
| W2                    | 8120-1378      | 1   | 1   | CABLE AY-POWER                                | 28480    | 8120-1378            |
| W3                    | 05087-60026    | 5   | 3   | CABLE AY-RF 4" J1 (INPUT A)                   | 28480    | 05087-60026          |
| W4                    | 05087-60026    | 5   |     | CABLE AY-RF 4" J2 (INPUT B)                   | 28480    | 05087-60026          |
| W5                    | 05087-60026    | 5   |     | CABLE AY-RF 4" J3 (INPUT C)                   | 28480    | 05087-60026          |
| W6                    | 05087-60027    | 6   | 6   | CABLE AY-RF 5.5" J4 (OUTPUT 1)                | 28480    | 05087-60027          |
| W7                    | 05087-60027    | 6   |     | CABLE AY-RF 5.5" J5 (OUTPUT 2)                | 28480    | 05087-60027          |
| W8                    | 05087-60027    | 6   |     | CABLE AY-RF 5.5" J6 (OUTPUT 3)                | 28480    | 05087-60027          |
| W9                    | 05087-60027    | 6   |     | CABLE AY-RF 5.5" J7 (OUTPUT 4)                | 28480    | 05087-60027          |
| W10                   | 05087-60027    | 6   |     | CABLE AY-RF 5.5" J8 (OUTPUT 5)                | 28480    | 05087-60027          |
| W11                   | 05087-60027    | 6   |     | CABLE AY-RF 5.5" J9 (OUTPUT 6)                | 28480    | 05087-60027          |
| W12                   | 05087-60028    | 7   | 3   | CABLE AY-RF 6" J10 (OUTPUT 7)                 | 28480    | 05087-60028          |
| W13                   | 05087-60028    | 7   |     | CABLE AY-RF 6" J11 (OUTPUT 8)                 | 28480    | 05087-60028          |
| W14                   | 05087-60028    | 7   |     | CABLE AY-RF 6" J12 (OUTPUT 9)                 | 28480    | 05087-60028          |
| W15                   | 05087-60029    | 8   | 3   | CABLE AY-RF 6.6" J13 (OUTPUT 10)              | 28480    | 05087-60029          |
| W16                   | 05087-60029    | 8   |     | CABLE AY-RF 6.6" J14 (OUTPUT 11)              | 28480    | 05087-60029          |
| W17                   | 05087-60029    | 8   |     | CABLE AY-RF 6.6" J15 (OUTPUT 12)              | 28480    | 05087-60029          |
| XF1                   | 2110-0564      | 8   | 1   | FUSEHOLDER, BODY 12A MAX FOR UL               | H9027    | 031.1657             |
|                       | 2110-0565      | 9   | 1   | FUSEHOLDER, CAP 12A MAX FOR UL                | H9027    | 031.1666             |
|                       | 2110-0569      | 3   | 2   | NUT-FUSEHOLDER M12.7 BY 1.5 POLYCARB          | H9027    | 098-0043             |
| W16                   | 05087-60029    | 8   |     | CABLE AY-RF 6.6" J14 (OUTPUT 11)              | 28480    | 05087-60029          |
| W17                   | 05087-60029    | 8   |     | CABLE AY-RF 6.6" J15 (OUTPUT 12)              | 28480    | 05087-60029          |

See introduction to this section for ordering information  
\*Indicates factory selected value