SERVICE NOTE

SUPERSEDES:

HP MODEL 8690A SWEEP OSCILLATORS Serials Below 803-2061

Improved +275 V/-300 V Power Supplies

A new improved Low Voltage Power Supply Assembly, HP Part Number 08690-6043, is the recommended replacement for Low Voltage Power Supply Assemblies A5 and A6, HP Part Numbers 08690-6015 and 08690-6024. The new assembly has improved reliability and stability, and is directly interchangeable with the old power supply.

The entire new assembly, consisting of Boards A5 and A6, must be installed at the same time. Neither of the new assemblies will work with one of the old A5 or A6 Assemblies.

The following pages contain complete theory of operation, trouble-shooting flow diagram, replaceable parts list, and schematics for the new power supply.

AFTER INSTALLING THE NEW POWER SUPPLY, ATTACH THIS SERVICE NOTE TO YOUR 8690A SWEEP OSCILLATOR OPERATING AND SERVICE MANUAL.

MS/mh/wo

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GENERAL POWER SUPPLY OPERATING

PRINCIPLES

All the dc operating voltages shown in Figure 4-2 of the 8690A Operating and Service Manual are electronically regulated. Some are obtained directly from regulated supplies, others are derived by voltage division from regulated supplies.

There are five transistor type regulators, two vacuum tube types supplying +275 volts and -300 volts, and three transistor types supplying +20, 12.6 and -6.3 volts. All of the regulators operate as follows. As shown in Figure 4-14 of the Operating and Service Manual, a regulating element (Series Regulator) is connected in series with the load and the dc power source (Rectifier). The resistance of the regulating element is made adjustable so that the voltage at its output will be adjustable. The resistance is adjusted by a control voltage; the higher the control voltage, the higher the output voltage. A sample of the Series Regulator output voltage is compared against a stable dc reference voltage by a Comparison Amplifier and the difference voltage is inverted and applied to the Series Regulator. As a result, any tendency for output voltage to change is immediately counteracted by the control voltage, and the supply output voltage remains constant.

Since the gain of the Comparison Amplifier determines the degree of regulation, it may be followed by an additional control, or driver, amplifier to improve regulation. The Comparison Amplifier is a differential type for temperature stability. The dc reference voltage used for comparison is obtained from voltage regulator electron tubes, from semiconductor voltage reference diodes, or by voltage division from another regulated power supply. When an adjustable power supply is used as the reference for another supply, changing its output level also changes the level of the supply for which it is the reference.

+275 AND -300V POWER SUPPLY TURN-ON SEQUENCE.

The following paragraphs describe the $+275\mathrm{V}$ power supply. A similar description applies to the $-300\mathrm{V}$ supply, with exceptions noted.

A5CR1, A5CR2 and A5CR3 form a voltage reference stick, and provide +180V to forward bias A5CR20. Current flows through A5R29 and A5R24, and then into the base of A6Q7. A5V1 will not conduct at first because filaments have not heated.

. The resulting large A6Q7 base current (about 0.9 mA) causes A6Q7 to saturate. The high A8Q7 collector current robs base current from A6Q6 and shuts off series regulator A6Q10 by making A6Q5 and A6Q10 collector currents zero. This prevents current flow through the series regulator. Because A6Q10 is cut off, the impedance of the power supply is high and very little current flows through A5R34 into the $\pm 275 \rm V$ supply load.

Voltage at A6F1 (input to the +275V supply voltage limiter) is about 360V. Thus, current flows through A5R2, A6CR4, A6CR5, A6R6 and A6Q7. Initial +40V output voltage is established by voltage division between A5R2 and A6R6. The output voltage stays at about 40V magnitude (+ for +275V supply; - for -300V supply) until after A5V1 vacuum tube filaments have heated up. The output voltages track as they increase from the 40V level to the normal output levels.

A few seconds after turn-on, A5V1 conducts and shunts base current formerly available to A6Q7. A6Q7 collector current then decreases, allowing current to flow through the base of A6Q6. Series regulator A6Q10 then conducts only through the load impedance because the current path through A6CR5 and A6R6 is closed by limited A6Q7 base current.

The output voltage begins to rise as A6Q10 collector current flows into the load and charges C8B. When the output reaches +275V, A5V1 shunts just enough current away from the base of A6Q7 to control the output current, maintaining a constant voltage regardless of the load impedance. The initial conditions hold until A5V1 begins to conduct appreciable current and the power supply outputs increase in voltage toward a stable condition.

When the -300V supply output voltage increases more negative than -82V, A5V2 turns on to regulate the A5Q1 and A5Q2A base voltages at this level. When the output voltage is -300V, voltage at the center tap of A5R7 -300V ADJ is set to -82V and A5Q2A will take over control of the A6Q9 base current. This control establishes the stabilized -300V output voltage.

Since the voltage difference between A5V1 cathode and A5CR14 cathode is less than 10V, A5CR17 prevents current from passing through A5R16 and into A5R22 when a stable condition is reached. This minimizes +275V supply drift by reverse biasing A5CR15; i.e., there are no voltage variations across nonconducting A5CR15.

+275V AND -300V POWER SUPPLY INTERDEPENDENCE.

When the +275V supply output voltage exceeds +180V, A5CR21 conducts, A5CR20 is reverse biased, and A5V1 is supplied with a well regulated plate voltage. A5V1 can conduct the proper current only if the -300V supply voltage for A5R22, A5R23 and A5R26 is approximately correct. Thus, the +275V supply is dependent on the -300V supply for proper operation.

Model 8690A

Further, the -300V supply needs correct bias current supply by the +275V supply. The -300V supply sequences through the following states as the output voltage increases from -40V to -300V.

At turn-on, some of the A5R15 (next to test loop B) current flows through the base of A6Q9, turning on A6Q9, A6Q8 and the -300V series regulator A6Q11. A6Q11 collector current passes through the -300V supply load impedance and develops an output voltage which is controlled by the relationship between A5R15, A5R16 and A5R22. Assuming that A6Q9 base current is negligible and that the voltage at A5CR14 cathode is always about 4.5 volts, the current flowing through A5R15 will also flow through A5R16 and A5R22 (A5V1 is off because filaments have not yet heated) and will develop a voltage at test point 1 about equal but of opposite polarity to the voltage at test point 2, because the resistive sum of A5R22 and A5R16 is about equal to A5R15. The two power supply outputs approximately track each other during turn-on because equal currents flowing through equal resistances yield equal voltages. The small base current required by A6Q6 to maintain tracking is controlled by the voltage at either end of the A5R15/A5R16/A5R22 resistor stick.

+275 AND -300V CURRENT LIMITERS.

The two current limiters are identical in function; the following paragraphs describe the +275V current limiter. The current limiters are similar to a bridge circuit. A5Q4 acts as a switch to shunt base current away from A6Q6 which drives the series regulator, thus turning off the current available to the load. The unique characteristic of the circuit is that the maximum current available to the load is roughly proportional to output voltage.

Under normal operating conditions A5Q4 is turned off and the series regulator can have as much base current as it needs. If the load resistance begins to decrease so that the load current increases, A6Q10 emitter voltage increases due to the increase of voltage across A5R34. A5Q4 base voltage also increases and eventually exceeds A5Q4 emitter voltage. This turns on A5Q4, unbalances the bridge and provides a current path from the base of A6Q6 to the emitter of A5Q4, limiting the base current available to A6Q6.

Once A5Q4 collector current starts to flow, the output voltage decreases as series regulator A6Q10 base current is limited. A6Q7 will cut off as the feedback circuit tries to restore the output voltage, but the resulting extra base current available for the base of A6Q6 will be limited by the amount of A5Q4 collector current. With this limiting, the output voltage is no longer controlled by the feedback circuit, but is instead controlled by the current limiting circuit.

+275V AND -300V VOLTAGE LIMITERS.

The two voltage limiters are identical in function; the following paragraphs describe the $\pm 275V$ voltage limiter. The $\pm 275V$ voltage limiting circuit works in conjunction with the $\pm 275V$ current limiter to control voltage and current levels during all phases of turn-on, normal operation, and short circuit operation.

Under normal operating conditions, A5Q4 emitter (+275V output) is at +275V so that the voltage difference between this point and the collectors of A6Q1 and A6Q3 is about 125V. (Maximum voltage at A6Q3 is +400V at high line.) With only 125V available, A6CR1 and A6CR2 will not conduct so that A6Q1 and A6Q3 will saturate. In this state, the voltage drop between the A6Q1/A6Q3 collectors and the collector of A6Q10 is nearly zero. Thus, the A6Q10 series regulator collector to emitter voltage is a maximum of 125V; a safe level for collector currents in excess of 200 mA.

If the +275V supply load resistance should suddenly decrease to zero, A6Q10 emitter voltage will be about zero. A maximum of +400V at A6F1 will drop $\verb|across|| A6R1/A6R2/A6CR1/A6R15/A6CR2. || A6CR1|$ and A6CR2 together drop approximately +140V, leaving 260V drop across A6R1 and A6R2. Disregarding A6Q1 base current, A6Q10 collector voltage level is then about 270V, i.e., the collector voltage of A6Q10 is about the same as the voltage at the junction of A6R1 and A6R2. In this state, series regulator A6Q10 collector to emitter voltage will be about 270V. This is a safe level because the current limiter limits the current through A6Q10. A6CR1/A6CR2 and A6R1/A6R2 values are such that for any combination of load current and output voltage, the voltage across A6Q3 collector to emitter will be large enough to limit the series regulator power dissipation within safe limits.

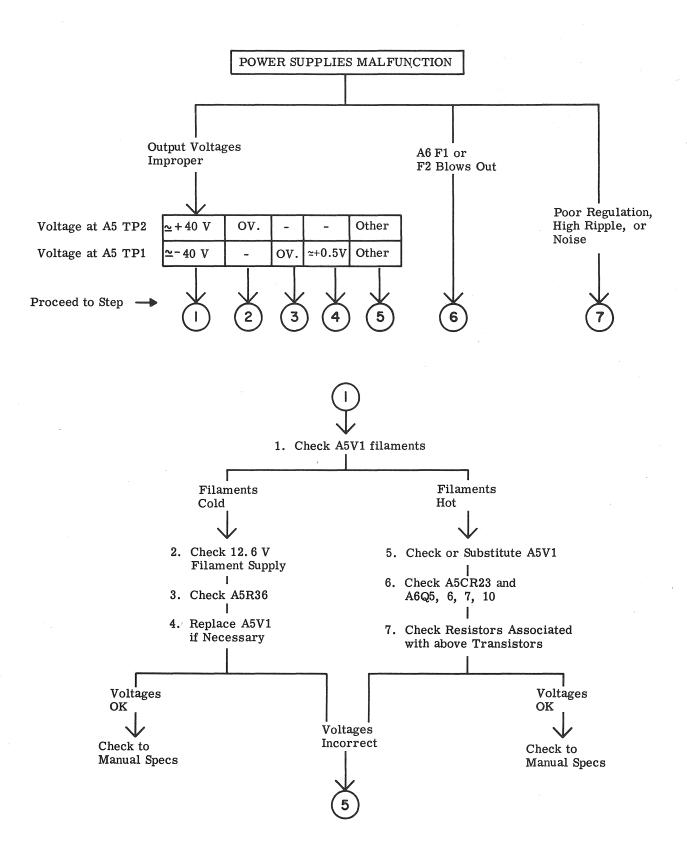


Figure 5-16. +275V and -300V Power Supply Troubleshooting Flow

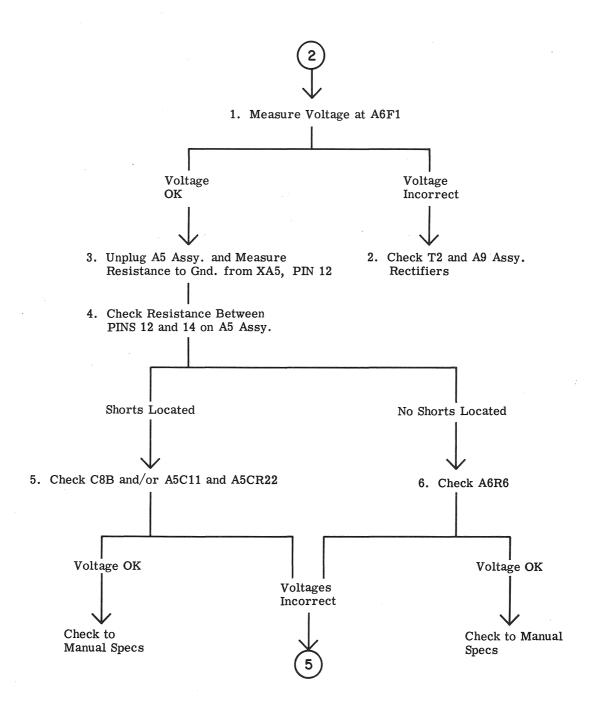


Figure 5-16. +275V and -300V Power Supply Troubleshooting Flow (Continued)

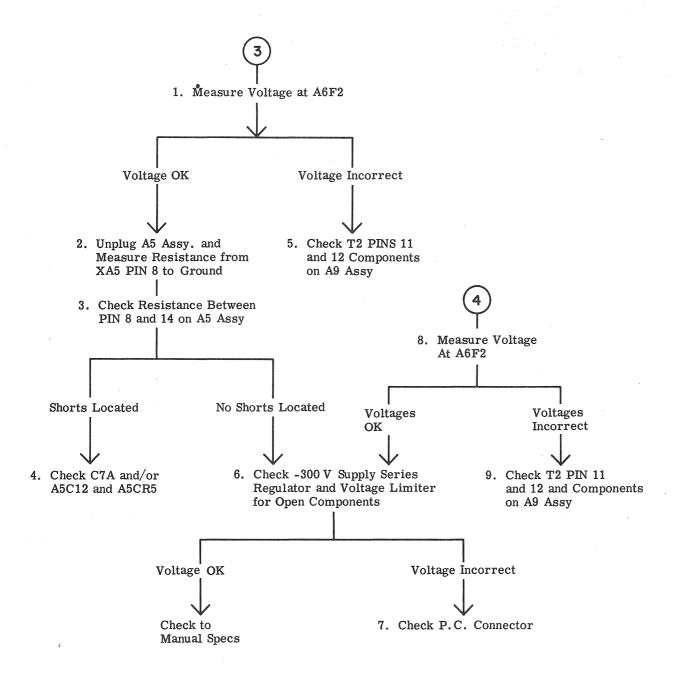


Figure 5-16. +275V and -300V Power Supply Troubleshooting Flow (Continued)

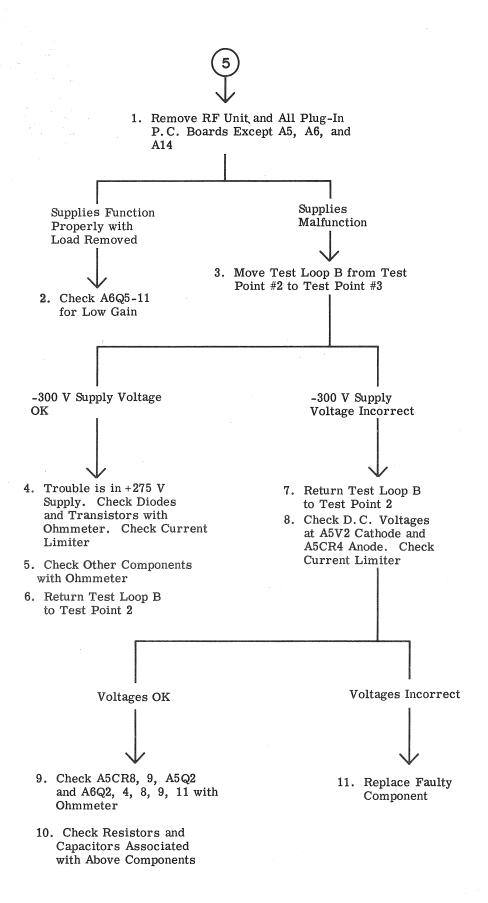


Figure 5-16. +275V and -300V Power Supply Troubleshooting Flow (Continued)

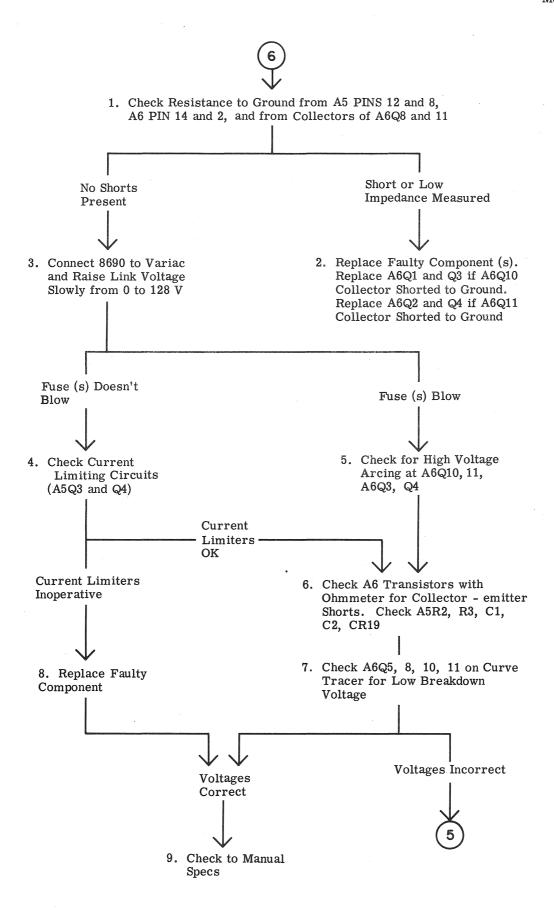


Figure 5-16. +275V and -300V Power Supply Troubleshooting Flow (Continued)

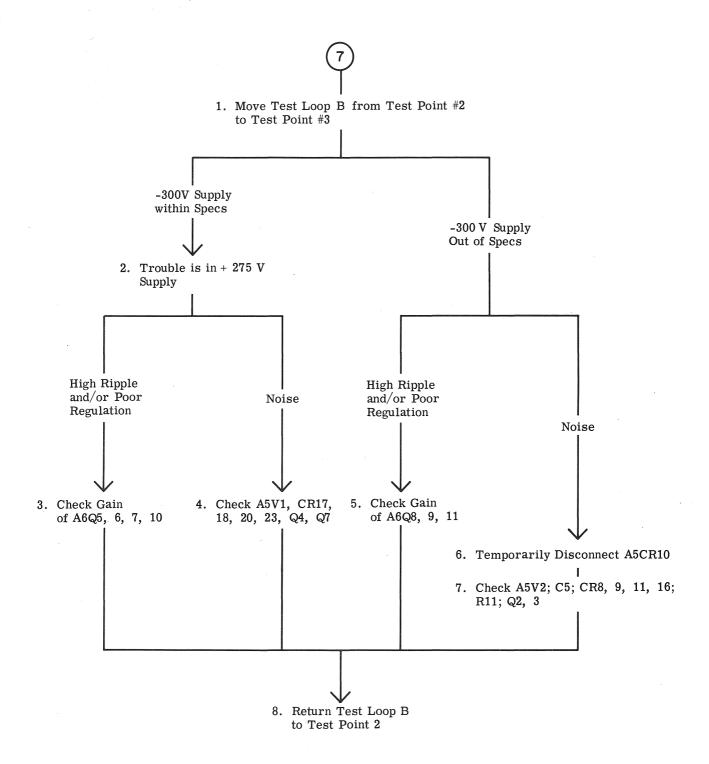


Figure 5-16. +275V and -300V Power Supply Troubleshooting Flow (Continued)

Table 6-1. Reference Designation Index (Cont.)

Reference Designation	Part No.	Description #	Note
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A 5	08690-6033	BOARD ASSY:LOW VOLTAGE POWER SUPPLY	LANCE AND A CONTRACT OF THE CO
A5C1	0150-0012	C:FXD CER 0.01 UF 20% 1000VDCW	
A5C2	0150-0012	C:FXD CER 0.01 UF 20% 1000VDCW C:FXD CER 0.05 UF 20% 400VDCW	
A5C3 A5C4	0150-0052 0150-0121	C:FXD CER 0.1UF +80%-20% 50VDCW	
A5C5	0150-0012	C:FXD CER 0.01 UF 20% 1000VDCW	
A5C6	0150-0012	C:FXD CER 0.01 UF 20% 1000VDCW	
A5C7	0160-2199	C:FXD MICA 30 PF 5%	
A5C8	0160-2218	C:FXD MICA 1000 PF 5% C:FXD CER 0.47 UF +80-20% 25VDCW	
A5C9 A5C10	0160-0174 0150-0052	C:FXD CER 0.05 UF 20% 400VDCW	
A5C11	0150-0052	C:FXD CER 0.05 UF 20% 400VDCW	
A5C12	0150-0052	C:FXD CER 0.05 UF 20% 400VDCW	
A5CR1	1902-0176	DIODE BREAKDOWN:47.5V 1W	
A5CR2	1902-0176	DIODE BREAKDOWN:47.5V 1W	
A5CR3	1902-0197	DIODE BREAKDOWN: SILICON 82.5V 5%	
A5CR4 A5CR5	1902-0025 1901-0029	DIODE,BREAKDOWN:10.0V 5% 400 MW DIODE:SILICON 600 PIV	
A5CR6	1902-3369	DIGDE BREAKDOWN:61.9V 400MW	
A5CR7	1902-3369	DIODE BREAKDOWN:61.9V 400MW	
A5CR8	1901-0033	DIODE:SILICON 100MA 180WV	
A5CR9	1901-0033	DIODE:SILICON 100MA 180WV	
A5CR10 A5CR11	1902-3428 1901-0033	DIODE BREAKDOWN:SILICON 100V 5% DIODE:SILICON 100MA 180WV	
A5CR12	1902-3290	DIODE BREAKDOWN: SILICON 31.6V 5%	
A5CR13	1901-0033	DIODE:SILICON 100MA 180WV	
A5CR14	1901-0033	DIODE: SILICON 100MA 180WV	
A5CR15	1901-0033	DIODE: SILICON 100MA 180WV	
A5CR16	1901-0029	DIODE:SILICON 600 PIV	
A5CR17	1902-0025	DIODE, BREAKDOWN: 10.0V 5% 400 MW	
A5CR18	1901-0029	DIODE: SILICON 600 PIV	
A5CR19	1901-0029	DIODE:SILICON 600 PIV	
A5CR20 A5CR21	1901-0029 1901-0029	DIODE:SILICON 600 PIV DIODE:SILICON 600 PIV	
A5CR22	1901-0029	DIODE:SILICON 600 PIV	
A5CR23	1901-0029	DIGDE:SILICON 100MA 180WV	
A5Q1	1854-0022	TRANSISTOR: NPN SILICON	
A5Q2	1854-0221	TRANSISTOR DUAL:SILICON NPN	
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Table 6-1. Reference Designation Index (Cont.)

ASQ3 1854-0003 TRANSISTOR:NPN SILICON ASQ4 1854-0003 TRANSISTOR:NPN SILICON ASR1 0812-0018 R:FXD MM 100 OHM 3% 5M ASR2 0819-0027 R:FXD MM 100 OHM 3% 5M ASR3 0764-0031 R:FXD MM 100 OHM 3% 5M ASR4 0812-0018 R:FXD MM 100 OHM 3% 5M ASR4 0812-0018 R:FXD MM 100 OHM 3% 5M ASR5 0757-0856 R:FXD MM 100 OHM 3% 5M ASR6 0757-0856 R:FXD MM FT FLM 75.0K DHM 1% 1/2M ASR6 0757-0860 R:FXD MM FT FLM 75.0K DHM 1% 1/2M ASR6 0757-0800 R:FXD MM FT FLM 75.0K DHM 1% 1/2M ASR8 0757-0800 R:FXD MM FT FLM 75.0K DHM 1% 1/2M ASR8 0757-0800 R:FXD MM FT FLM 75.0K DHM 1% 1/2M ASR10 0698-3175 R:FXD MM FT FLM 75.0K DHM 1% 1/2M ASR11 0757-0463 R:FXD MM FT FLM 75.1K DHM 1% 1/2M ASR12 0757-0463 R:FXD MM FT FLM 75.1K DHM 1% 1/2M ASR12 0757-0463 R:FXD MM FT FLM 75.1K DHM 1% 1/2M ASR13 0764-0033 R:FXD MM FT FLM 75.1K DHM 1% 1/2M ASR14 0757-0463 R:FXD MM FT FLM 75.1K DHM 1% 1/2M ASR15 0757-0465 R:FXD MM FT FLM 75.0K DHM 1% 1/2M ASR16 0757-0465 R:FXD MM FT FLM 75.0K DHM 1% 1/2M ASR17 0757-0064 R:FXD MM FT FLM 75.0K DHM 1% 1/2M ASR19 0698-3444 R:FXD MM FT FLM 75.0K DHM 1% 1/2M ASR19 0698-0085 R:FXD MM FT FLM 75.0K DHM 1% 1/2M ASR20 0757-0003 R:FXD M FT FLM 75.0K DHM 1% 1/2M ASR21 0757-0064 R:FXD M FT FLM 75.0K DHM 1% 1/2M ASR22 0757-0064 R:FXD M FT FLM 75.0K DHM 1% 1/2M ASR22 0757-0064 R:FXD M FT FLM 75.0K DHM 1% 1/2M ASR22 0757-0064 R:FXD M FT FLM 75.0K DHM 1% 1/2M ASR22 0757-0064 R:FXD M FT FLM 75.0K DHM 1% 1/2M ASR22 0757-0064 R:FXD M FT FLM 75.0K DHM 1% 1/2M ASR22 0757-0064 R:FXD M FT FLM 75.0K DHM 1% 1/2M ASR22 0757-0064 R:FXD M FT FLM 75.0K DHM 1% 1/2M ASR23 0698-3425 R:FXD M FT FLM 75.0K DHM 1% 1/2M ASR26 0757-0200 R:FXD M FT FLM 75.0K DHM 1% 1/2M ASR27 0757-0064 R:FXD M FT FLM 75.0K DHM 1% 1/2M ASR26 0757-0200 R:FXD M FT FLM 75.0K DHM 1% 1/2M ASR27 0757-0467 R:FXD M FT FLM 75.0K DHM 1% 1/2M ASR28 0757-0280 R:FXD M FT FLM 75.0K DHM 1% 1/2M ASR29 0757-0280 R:FXD M FT FLM 100K DHM 1% 1/2M ASR39 0757-0280 R:FXD M FT FLM 100K DHM 1% 1/2M ASR39 0757-0394 R:FXD M FT FLM 100K DHM 1% 1/2M ASR39 0757-0396 R:FXD M FT FLM 100K DHM 1% 1/2M ASR39 0757-0396 R:FX	Reference Designation	Part No.	Description #	Note
ASR1 0812-0018 R:FXD MW 100 OHM 3% 5W ASR2 0819-0027 R:FXD MW 100 OHM 5% 20W ASR3 0754-0031 R:FXD ME 10X 47K OHM 5% 2W ASR4 0812-0018 R:FXD ME 10X 47K OHM 5% 2W ASR5 0757-0856 R:FXD ME 1 FLM 51.0K OHM 1% 1/2W ASR6 0757-0460 R:FXD MET FLM 61.9K OHM 1% 1/2W ASR7 2100-1760 R:VAR MW 5% OHM 10% LIN 1/2W ASR8 0757-0130 R:FXD MET FLM 16.0K OHM 1% 1/2W ASR9 0757-0280 R:FXD MET FLM 16.0K OHM 1% 1/2W ASR10 0698-3175 R:FXD MET FLM 16.0K OHM 1% 1/2W ASR11 0757-0463 R:FXD MET FLM 147K OHM 1% 1/2W ASR12 0757-0463 R:FXD MET FLM 147K OHM 1% 1/2W ASR13 0764-0031 R:FXD MET FLM 18.0K OHM 1% 1/2W ASR14 0764-0031 R:FXD MET FLM 51.1K OHM 1% 1/2W ASR15 0757-0465 R:FXD MET FLM 100K OHM 1% 1/2W ASR16 0757-0465 R:FXD MET FLM 100K OHM 1% 1/2W ASR17 0757-00465 R:FXD MET FLM 196K OHM 1% 1/2W ASR19 0698-3444 R:FXD MET FLM 196K OHM 1% 1/2W ASR19 0698-3444 R:FXD MET FLM 26.1K OHM 1% 1/2W ASR20 0757-0003 R:FXD MET FLM 26.1K OHM 1% 1/2W ASR21 0757-0046 R:FXD MET FLM 26.1K OHM 1% 1/2W ASR22 0757-0036 R:FXD MET FLM 26.1K OHM 1% 1/2W ASR22 0757-0046 R:FXD MET FLM 26.1K OHM 1% 1/2W ASR22 0757-0046 R:FXD MET FLM 26.1K OHM 1% 1/2W ASR22 0757-0046 R:FXD MET FLM 26.1K OHM 1% 1/2W ASR22 0757-0047 R:FXD MET FLM 26.1K OHM 1% 1/2W ASR22 0757-0046 R:FXD MET FLM 26.1K OHM 1% 1/2W ASR22 0757-0047 R:FXD MET FLM 26.1K OHM 1% 1/2W ASR22 0757-0048 R:FXD MET FLM 100K OHM 1% 1/2W ASR22 0757-0049 R:FXD MET FLM 100K OHM 1% 1/2W ASR24 0757-0240 R:FXD MET FLM 100K OHM 1% 1/2W ASR25 0757-0240 R:FXD MET FLM 100K OHM 1% 1/2W ASR26 0757-0240 R:FXD MET FLM 100K OHM 1% 1/2W ASR27 2100-1760 R:FXD MET FLM 100K OHM 1% 1/2W ASR28 0757-0240 R:FXD MET FLM 100K OHM 1% 1/2W ASR29 0757-0240 R:FXD MET FLM 100K OHM 1% 1/2W ASR29 0757-0240 R:FXD MET FLM 100K OHM 1% 1/2W ASR30 0757-0240 R:FXD MET FLM 100K OHM 1% 1/2W ASR30 0757-0240 R:FXD MET FLM 100K OHM 1% 1/2W ASR30 0757-0240 R:FXD MET FLM 100K OHM 1% 1/2W ASR30 0757-0240 R:FXD MET FLM 100K OHM 1% 1/2W ASR30 0757-0240 R:FXD MET FLM 100K OHM 1% 1/2W ASR30 0757-0240 R:FXD MET FLM 100K OHM 1% 1/2W ASR30 0757-0240 R:FXD MET FLM 100K OHM 1	Dougnation			
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ASR25 ASR26 ASR26 ASR26 ASR26 ASR26 ASR27 ASR27 ASR28 ASR28 ASR29 ASR29 ASR29 ASR30 ASR30 ASR31 ASR31 ASR32 ASR32 ASR32 ASR33 ASR32 ASR33 ASR32 ASR33 ASR33 ASR33 ASR33 ASR33 ASR34 ASR33 ASR34 ASR35 ASR35 ASR35 ASR36 ASR36 ASR37				1
ASR26 ASR27 ASR28 ASR28 ASR29 ASR29 ASR30 ASR31 ASR31 ASR32 ASR32 ASR33 ASR33 ASR33 ASR34 ASR34 ASR35 ASR35 ASR35 ASR36 ASR36 ASR36 ASR37 ASR38 ASR39 ASR39 ASR39 ASR39 ASR30 ASR30 ASR30 ASR31 AS				l
ASR27 ASR28 ASR29 O757-0279 ASR29 O757-0367 ASR29 ASR30 O757-0280 ASR31 ASR31 ASR32 ASR32 ASR32 ASR32 ASR32 ASR33 ASR33 O757-0280 ASR33 O757-0280 ASR33 O757-0280 ASR33 ASR33 ASR33 ASR34 ASR33 ASR34 ASR35 ASR35 ASR35 ASR36 ASR37 ASR37 ASR37 ASR37 ASR37 ASR37 ASR37 BEECTRON TUBE:82.0 +/- 1V ASR30-032 BDARD ASSY:REGULATOR				
ASR28 O757-0279 ASR29 O757-0367 ASR30 O757-0280 ASR31 O698-3437 ASR32 O698-3175 ASR33 O757-0280 ASR33 O757-0280 ASR34 O757-0280 ASR35 O757-0280 R:FXD MET FLM 100K OHM 1% 1/8W ASR32 ASR33 O757-0280 R:FXD MET FLM 133 OHM 1% 1/8W R:FXD MET FLM 147K OHM 1% 1/2W R:FXD MET FLM 167K OHM 1% 1/2W R:FXD MET FLM 160H 1% 1/8W R:FXD MET FLM 10.0 OHM 1% 1/2W R:FXD MET FLM 10.0 OHM 1% 1/2W R:FXD MET FLM 162K OHM 1% 1/2W R:FXD MET FLM 162K OHM 1% 1/2W R:FXD MET FLM 14.7 OHM 1% 1/2W ASR37 O757-0394 R:FXD MET FLM 51.1 OHM 1% 1/8W ASR37 O757-0394 R:FXD MET FLM 51.1 OHM 1% 1/8W ASV1 1932-0030 ELECTRON TUBE:82.0 +/- 1V A6 O8690-6032 BDARD ASSY:REGULATOR	47KZG	0131-0129	Ketyp HET TEN TION OWN EN TYEN	
ASR29 ASR29 ASR30 ASR31 ASR32 ASR32 ASR32 ASR33 ASR33 ASR34 ASR34 ASR35 ASR35 ASR35 ASR35 ASR36 ASR36 ASR36 ASR37 ASR37 ASR37 ASR37 ASR37 ASR37 ASR37 ASR37 ASR38 ASR37 ASR38 ASR37 ASR38 ASR38 ASR37 ASR39				
A5R30	45R28	l ·		1
A5R31 0698-3437 R:FXD MET FLM 133 OHM 1% 1/8W A5R32 0698-3175 R:FXD MET FLM 147K OHM 1% 1/2W A5R33 0757-0280 R:FXD MET FLM 1K OHM 1% 1/8W A5R34 0757-0984 R:FXD MET FLM 10.0 OHM 1% 1/2W A5R35 0757-0130 R:FXD MET FLM 162K OHM 1% 1/2W A5R36 0698-3388 R:FXD MET FLM 14.7 OHM 1% 1/2W A5R37 0757-0394 R:FXD MET FLM 51.1 OHM 1% 1/8W A5V1 1932-0030 ELECTRON TUBE:12AX7 A5V2 1940-0013 ELECTRON TUBE:82.0 +/- 1V A6 08690-6032 BDARD ASSY:REGULATOR				
ASR32				
A5R33	15R31	0698-3437	K:FXD MEI FLM 133 UHM 1% 1/8W	
ASR34 0757-0984 R:FXD MET FLM 10.0 OHM 1% 1/2W R:FXD MET FLM 162K OHM 1% 1/2W R:FXD MET FLM 162K OHM 1% 1/2W R:FXD MET FLM 14.7 OHM 1% 1/2W R:FXD MET FLM 51.1 OHM 1% 1/2W R:FXD MET FLM 51.1 OHM 1% 1/8W R:FXD MET FLM 14.7 OHM 1% 1/8W R:FXD MET FLM 14.7 OHM 1% 1/2W R:FXD MET FLM 1	A5R32	0698-3175	R:FXD MET FLM 147K OHM 1% 1/2W	
ASR35 0757-0130 R:FXD MET FLM 162K OHM 1% 1/2W R:FXD MET FLM 14.7 OHM 1% 1/2W R:FXD MET FLM 14.7 OHM 1% 1/2W R:FXD MET FLM 51.1 OHM 1% 1/8W R:FXD MET FLM 51.1 OHM 1% 1/2W R:FXD MET FLM 18	45R33	0757-0280	R:FXD MET FLM 1K OHM 1% 1/8W	I
A5R36 0698-3388 R:FXD MET FLM 14.7 OHM 1% 1/2W A5R37 0757-0394 R:FXD MET FLM 51.1 OHM 1% 1/8W A5V1 1932-0030 ELECTRON TUBE:12AX7 A5V2 1940-0013 ELECTRON TUBE:82.0 +/- 1V A6 08690-6032 BDARD ASSY:REGULATOR	45R34	0757-0984	R:FXD MET FLM 10.0 OHM 1% 1/2W	
A5R37 0757-0394 R:FXD MET FLM 51.1 OHM 1% 1/8W A5V1 1932-0030 ELECTRON TUBE:12AX7 A5V2 1940-0013 ELECTRON TUBE:82.0 +/- 1V A6 08690-6032 BDARD ASSY:REGULATOR	45R35	0757-0130		
1932-0030 ELECTRON TUBE:12AX7 A5V2 1940-0013 ELECTRON TUBE:82.0 +/- 1V A6 08690-6032 BDARD ASSY:REGULATOR	15R36	0698-3388	R:FXD MET FLM 14.7 OHM 1% 1/2W	
1940-0013 ELECTRON TUBE:82.0 +/- 1V 08690-6032 BDARD ASSY:REGULATOR	15R37	0757-0394	R:FXD MET FLM 51.1 OHM 1% 1/8W	
08690-6032 BDARD ASSY:REGULATOR	15 V1	1932-0030	ELECTRON TUBE:12AX7	
	45V2	1940-0013	ELECTRON TUBE:82.0 +/- 1V	
0150-0052 C:FXD CER 0.05 UF 20% 400VDCW	46	08690-6032	BDARD ASSY:REGULATOR	
	46C1	0150-0052	C:FXD CER 0.05 UF 20% 400VDCW	

Table 6-1. Reference Designation Index (Cont.)

Reference Designation	♠ Part No.	Description #	Note
Dosignation			1
A6C2	0150-0052	C:FXD CER 0.05 UF 20% 400VDCW	
4.601	1000 2201	DIODE DESAMBOUNA O NA ADOMA	
A6CR1	1902-3381	DIODE BREAKDOWN:68.1V 400MW	-
A6CR2	1902-3381	DIDDE BREAKDOWN:68.1V 400MW	
A6CR3 A6CR4	1901-0029 1902-0554	DIODE:SILICON 600 PIV DIODE BREAKDOWN:10V 1W	
A6CR5	1901-0033	DIODE:SILICON 100MA 180WV	
A6CR6	1901-0033	DIODE:SILICON 100MA 180WV	
A6CR7	1902-3381	DIODE BREAKDOWN:68.1V 400MW	
A6CR8	1902-3381	DIODE BREAKDOWN:68.1V 400MW	
A6F1	2110-0004	FUSE:CARTRIDGE 1/4 AMP 250V	
A6F2	2110-0004	FUSE: CARTRIDGE 1/4 AMP 250V	
A6Q1	1854-0232	TRANSISTOR: SILICON NPN	
A6Q2	1854-0232	TRANSISTOR: SILICON NPN	
A6Q3 A6Q4	1854-0237 1854-0237	TRANSISTOR:SILICON NPN 2N3738 TRANSISTOR:SILICON NPN 2N3738	l
A6Q5	1854-0079	TRANSISTOR: SILICON NPN 2N3730	1
A6Q6	1854-0039	TRANSISTOR: SILICON 2N3053	1
	2031 0033	1	
A6Q7	1854-0079	TRANSISTOR: SILICON 2N3439	
A6Q8	1854-0079	TRANSISTOR: SILICON 2N3439	
A6Q9	1854-0039	TRANSISTOR: SILICON 2N3053	1.
A6Q10 A6Q11	1854-0080 1854-0080	TRANSISTOR:SILICON TRANSISTOR:SILICON	
A6R1	0757-0856	R:FXD MET FLM 75.0K OHM 1% 1/2W	
HUNT	0151 0050	KOTAD HET CEN 1200K OHN 14 1724	
A6R2	0757-0856	R:FXD MET FLM 75.0K OHM 1% 1/2W	
A6R3	0757-0401	R:FXD MET FLM 100 OHM 1% 1/8W	
A6R4	0757-0461	R:FXD MET FLM 68.1K OHM 1% 1/8W	
A6R5 A6R6	0757-0280 0811-0005	R:FXD MET FLM 1K OHM 1% 1/8W R:FXD WW 1500 OHM 1% 5W	
AGNO	0011-0009	KILYD MM 1200 OUG 19 24	
A6R7	0757-0856	R:FXD MET FLM 75.0K OHM 1% 1/2W	
A6R8	0757-0856	R:FXD MET FLM 75.0K DHM 1% 1/2W	
A6R9	0757-0401	R: FXD MET FLM 100 DHM 1% 1/8W	
A6R10	0757-0280	R:FXD MET FLM 1K OHM 1% 1/8W	-
A6R11	0757-0401	R:FXD MET FLM 100 OHM 1% 1/8W	
A6R12	0757-0401	R:FXD MET FLM 100 OHM 1% 1/8W	
A6R13	0757-0280	R:FXD MET FLM 1K OHM 1% 1/8W	
A6R14	0757-0280	R:FXD MET FLM 1K OHM 1% 1/8W	
A6R15	0757-0279	R: FXD MET FLM 3.16K OHM 1% 1/8W	
A6R16	0757-0279	R:FXD MET FLM 3.16K OHM 1% 1/8W	
	1		

