

MANUAL CHANGES

Model 6289A DC Power Supply
Manual HP Part No. 06289-90002

Make all corrections in the manual according to errata below, then check the following table for your power supply serial number and enter any listed change(s) in the manual.

SERIAL		MAKE CHANGES
Prefix	Number	
7G	0776 - 0850	1
7G	0851 - 1150	1, 2
7G	1151 - 1325	1, 2, 3
7G	1326 - 2150	1, 2, 3, 4
ALL	-	Errata
7G	2151 - 2200	1 thru 5
1A	2201 - 2250	1 thru 6
1A	2251 - 2380	1 thru 7
1143A	2381 - up	1 thru 9

CHANGE 1:

In the Replaceable Parts Table, make the following changes:

- R35: Change to fxd, comp $120\Omega \pm 5\% \frac{1}{2}W$, EB-1215, A. B., HP Part No. 0686-1215.
- R63: Change to var. ww $5K\Omega$, Type 110-F4, C. T. S., HP Part No. 2100-1824.

CHANGE 2:

In the Replaceable Parts Table, make the following changes:

- R15: Change to fxd, comp $240K\Omega \pm 5\% \frac{1}{2}W$, EB-2445, A. B., HP Part No. 0686-2445.
- R40: Delete resistor R40.
- R62: Change to fxd, met. film $750\Omega \pm 1\%$, 1/8W, CEA T-O, IRC, HP Part No. 0757-0420.
- R64, R65: Change to fxd, met. film $12K\Omega \pm 1\%$, 1/8W, CEA T-O, IRC, HP Part No. 0698-5088.
- VR6: Add new zener diode VR6, 4.22V 400mW, 09182, HP Part No. 1902-3070.

On the schematic at the rear of the manual, delete R40 in the meter circuit and connect zener diode VR6 in its place. Cathode of VR6 to +12.4V and anode to base of Q15.

CHANGE 3:

On the schematic, interchange positions of CURRENT controls R16A and R16B. Top of R16B now connected to terminal A3 and bottom of R16A connected to terminal A1. Also, add new resistor (R78, 100Ω , $\pm 5\%$, $\frac{1}{2}W$) between emitter of Q5 and base of Q4.

CHANGE 4:

In the Replaceable Parts Table, change Q11 to 2N4045, Union Carbide, HP Part No. 1854-0221.

ERRATA:

On Page 3-2, reverse Figures 3-3 and 3-4.

On Page 3-5, in Figure 3-11, remove straps between + and +S, and between +S and A10 terminals on all slave supplies; connect A10 terminal to + terminal on all slave supplies.

Q3, 5, 8, 10, 12, 14, 15: Change to SS PNP Si., 2N2907A, Sprague, HP Part No. 1853-0099.

On Page 5-16, in Paragraph 5-60, change Step (a) to read: Connect test setup shown in Figure 5-4.

Add the following options to the Replaceable Parts Table:

- OPTION 07: 10-Turn Output Voltage Control
R10: var. ww $10K\Omega \pm 5\%$ (10 Turn) Qty. 1, HP Part No. 2100-1866.
Knob, R10: Qty. 1, HP Part No. 0370-0137.
- OPTION 08: 10-Turn Output Current Control
R16: var. ww $1K\Omega \pm 5\%$ (10 Turn) Qty. 1, HP Part No. 2100-1864.
Knob, R11: Qty. 1, HP Part No. 0370-0137.
- OPTION 09: 10-Turn Output Voltage and Current Controls
R10: var. ww $10K\Omega \pm 5\%$ (10 Turn) Qty. 1, HP Part No. 2100-1866.
R16: var. ww $1K\Omega \pm 5\%$ (10 Turn) Qty. 1, HP Part No. 2100-1864.
Knob, R10 and R16: Qty. 2, HP Part No. 0370-0137.
- OPTION 13: 10-Turn Voltage Control with Decadial
R10: var. ww $10K\Omega \pm 5\%$ (10 Turn) Qty. 1, HP Part No. 2100-1866.
Decadial: Qty. 1, HP Part No. 1140-0020.
- OPTION 14: 10-Turn Current Control with Decadial
R16: var. ww $1K\Omega \pm 5\%$ (10 Turn) Qty. 1, HP Part No. 2100-1864.
Decadial: Qty. 1, HP Part No. 1140-0020.
- OPTION 28: 230V Input
F1: Fuse 1A, 250V, Qty. 1, 312.001, 75915, HP Part No. 2110-0001.

On Page 3-5, in the top half of Figure 3-9, remove the connection between (+) and (GND) on the slave supply.

In the specifications table on Page 3-1, change the output impedance specification to read:
4 milliohms in series with 1 microhenry.

CHANGE 5:

In the Replaceable Parts Table, add Terminal Strip, HP Part No. 0360-0417.

CHANGE 6:

In the Replaceable Parts Table, change Switch S1 to HP Part No. 3101-1248.

CHANGE 7:

In the Replaceable Parts Table and on the schematic, change power transformer T1 to HP Part No. 5080-7185.

CHANGE 8:

The Serial Prefix of this unit has been changed to 1143A. This is the only change.

► CHANGE 9:

In Appendix A, Option 11 Replacement Parts Table A-1, change CR4 from HP Part No. 1884-0031 to 1884-0032.

► ERRATA:

Change the first sentence of paragraph 3-29 to read: "The output current will be the programming voltage divided by 0.66 ohms."

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