

112A POWER UNIT

IDENTIFICATION, INSTALLATION, AND CONNECTION

1. GENERAL

1.01 The 112A power unit is used to provide power for Data Set 209A.

1.02 Whenever this section is reissued, the reason for reissue will be listed in this paragraph. This issue does not require an Equipment Test List.

1.03 The information in this section is based on circuit schematic drawing SD-82235-01, Issue 1. For a detailed description of operation, refer to the corresponding circuit description. If this section is to be used with a later or earlier issue of the schematic drawing, reference should be made to the CD and SD to determine the extent of the changes and the manner in which the section may be affected.

2. IDENTIFICATION

2.01 The power unit (Fig. 1 and 2) operates on an ac input of 105 to 129 volts, 57 to 63 hertz. The dc outputs of the unit are +5 volts, +12 volts, and -12 volts. Each dc output is

regulated and filtered. No voltage level adjustment is provided.

2.02 A 117-volt ac output is also provided to power the cooling fan. The fan circuit is protected by a 1/2 ampere fuse. A spare fuse is located on the front panel of the power unit.

2.03 The power unit is protected from damage due to overheating in the event of failure of the forced air ventilation system by the TD1 thermostat. Input circuit breaker CB1 protects the circuit elements from over voltage damage in the event the dc outputs exceed the threshold values specified below.

NOMINAL	THRESHOLD
-12 Vdc	-12.9 Vdc
+12 Vdc	+13.4 Vdc
+5 Vdc	+6.6 Vdc

Operation of CB1 on TD1 removes power from the power unit and ventilating fan.

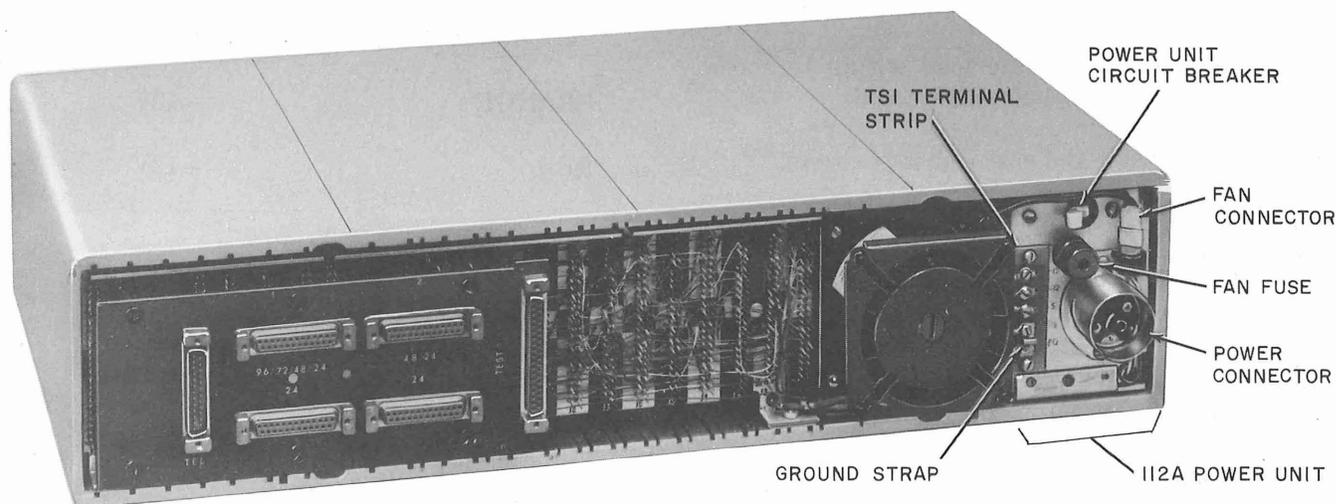


Fig. 1—112A Power Unit Installed In 209A Data Set With Faceplate Removed—Rear View

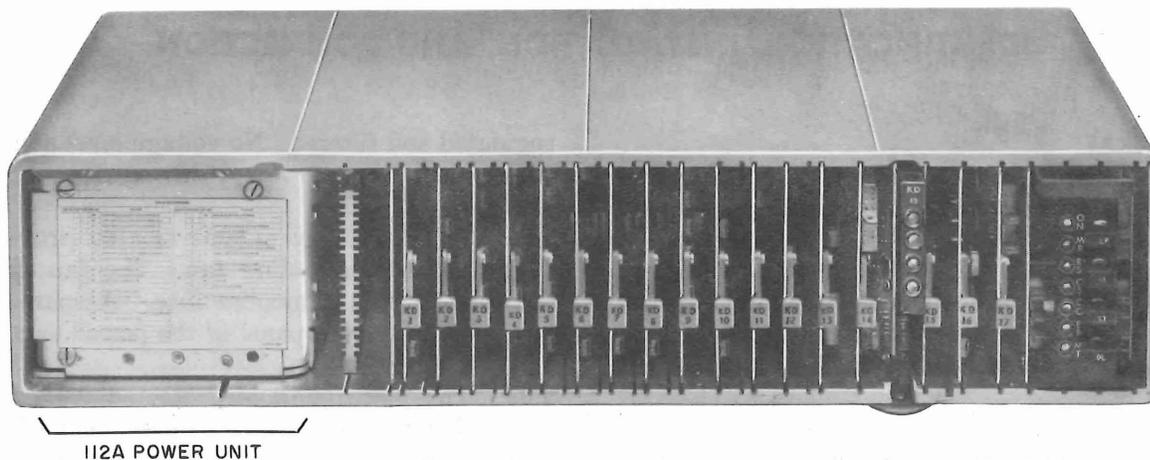


Fig. 2—112A Power Unit Installed In 209A Data Set With Faceplate Removed—Front View

3. INSTALLATION

3.01 To install the 112A power unit into the 209A data set, proceed as follows.

- (1) Insert the power unit (narrow end first) into the front of the data set.
- (2) Install screws which mount the power unit to the chassis.
- (3) Connect 117-volt ac lead to fan motor.
- (4) Connect appropriate load wiring to screw terminals of TB1 terminal board.
- (5) Install front and rear snaplock covers.
- (6) Connect ac input to power unit and power service.
- (7) Operate CB1 circuit breaker to ON position.

3.02 To remove the power unit, reverse the procedure in 3.01.

4. CONNECTIONS

4.01 Connect the KS-14532 L24 power cord supplied with the set to the power receptacle

on the back of the power unit and to the ac service receptacle. The ac service should not be switched because of the possibility of accidental turn-off of the data set.

4.02 Connect load wiring to the screw terminals of TB1 in accordance with Table A. Connect the 117-volt ac output leads to ventilating fan motor.

TABLE A

COLOR	TS1 TERMINAL
ORANGE	-12V
RED	+12V
RED/WHITE	+5V
BLACK (2 WIRES)	SG
	FG

Note: Metal strap connects terminals SG and FG.