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SWITCHING FILTER PANEL SFP-2 TEST PROCEDURE

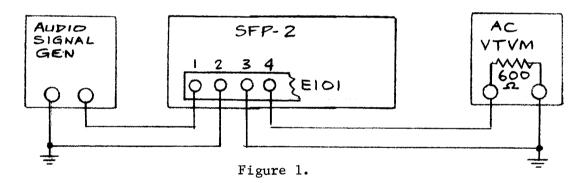
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TEST EQUIPMENT REQUIRED

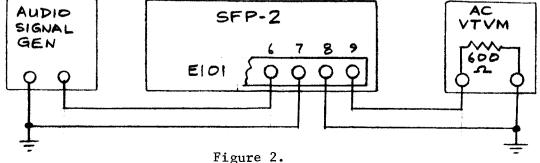
- 1. AC VTVM Ballantine 310A or equivalent.
- Audio Signal Generator Hewlett Packard 200CD or equivalent.
- 600 Ohm ½ watt carbon resistor, 1 each.

В. INSTRUMENT LAYOUT

- For CHANNEL 1, connect test equipment as shown in Figure 1:
 - 600 Ohm load across terminals 3 and 4 of E101.
 - Ballantine across 600 ohm load and switch meter to 1 volt range. Terminal 3 is the ground side.
 - c. Output of signal generator to terminals 1 and 2 of E101. Terminal 2 is the ground side.



- 2. For CHANNEL 2, connect test equipment as shown in Figure 2:
 - 600 Ohm load across terminals 8 and 9 of E101. a.
 - b. Ballantine across 600 ohm load and switch meter to 1 volt Terminal 8 is the ground side.
 - Output of signal generator to terminals 6 and 7 of E101. Terminal 7 is the ground side.



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C. TEST PROCEDURE

- 1. Check unit for mechanical defects.
- 2. Check unit for cold joints, loose wires.
- 3. Set CHANNEL 1 switch to FILTER OUT position.
- 4. Set signal generator to 2125 cps, and the gain control for a 1.0 VAC reading on the Ballantine.
- 5. Set CHANNEL 1 switch to PANEL OUT position. The meter should indicate an open circuit.
- 6. Set CHANNEL 1 switch to FILTER IN position, measure and record the drop from the 1.0 VAC reference level in Step 4. This drop should not exceed -7DB. Readjust gain control for a reading of 1.0 VAC on the meter.
- 7. Measure and record the drop from the 1.0 VAC reference level in Step 6, with the signal generator set as follows:
 - a. 2225 cps, no more than -3DB down.
 - b. 2025 cps, no more than -3DB down.
 - c. 2465 cps, at least -40DB down.
 - d. 1785 cps, at least -40DB down.
- 8. Reset meter to 1.0 VAC range, set CHANNEL 1 switch to FILTER OUT position.
- 9. Set signal generator to 2975 cps, and the gain control for a 1.0 VAC reading on the meter.
- 10. Set CHANNEL 1 switch to FILTER IN position, measure and record the drop from the 1.0 VAC reference level in Step 9. This drop should not exceed -7DB. Readjust gain control for a reading of 1.0 VAC on the meter.
- 11. Measure and record the drop from the 1.0 VAC reference level in Step 10, with the signal generator set as follows:
 - a. 3100 cps, no more than -3DB down.
 - b. 2850 cps, no more than -3DB down.
 - c. 3450 cps, at least -45DB down.
 - d. 2500 cps, at least -45DB down.

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- 12. Disconnect test set-up from terminals 1, 2, 3, and 4 of E101, and reconnect test set-up according to Section B.2.
- 13. Repeat Steps 3 to 11 with CHANNEL 2 switch.

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TMC FORM SPEC 1
