

**TYPE N AND ON CARRIER REPEATERS — REPEATERED HIGH-FREQUENCY LINE
PRELIMINARY TESTS — ELECTRON TUBE REPEATER SUPPLY POINTS
DC LINE VOLTAGE MEASUREMENTS**

This section is reissued to add adjustment procedures.

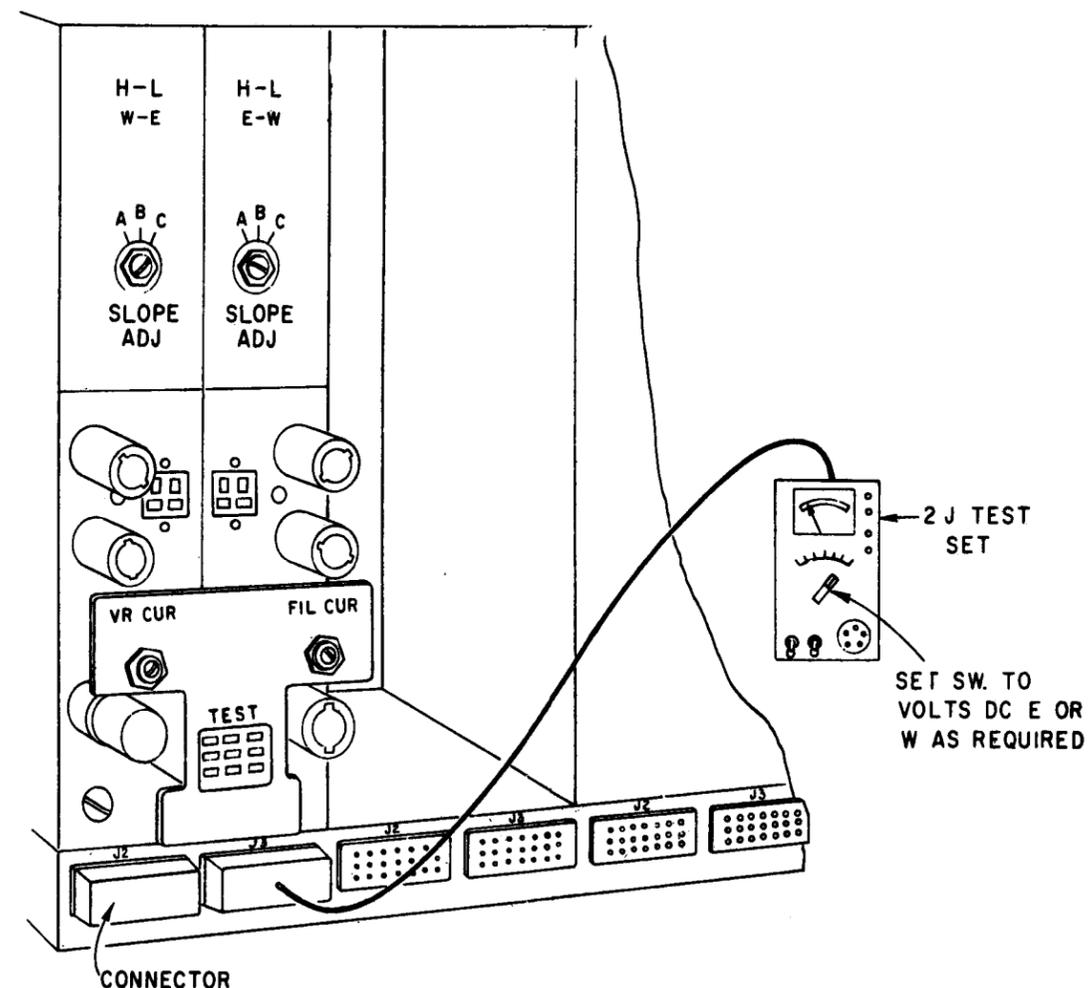
When adjacent repeaters have no local source of power, dc power is supplied over simplex arrangements on the cable pairs used for carrier transmission. Dc power is also supplied as sealing current in cable facilities with unsoldered splices.

The purpose of this test is to measure the dc voltage on the line at the repeater transmitting power and also at the repeater receiving power from the line. This measurement is interrelated with the heater current and regulating current adjustments of the repeater.

APPARATUS:

1 — 2J Repeater Test Set

STEP	PROCEDURE												
1	At the repeater remove the connector from either J2 or J3. (<i>Caution: Do not remove both connectors.</i>) The repeater transmitting power as well as the repeater receiving power must be plugged into position.												
2	Connect the 2J test set to either J2 or J3 and measure the voltage in the direction of the power supply by operating the rotary switch on the 2J set to VOLTS DC either W or E as required. <i>Requirements:</i>												
	<table border="1"> <thead> <tr> <th></th> <th>REPEATER TRANSMITTING POWER</th> <th>REPEATER RECEIVING POWER</th> </tr> </thead> <tbody> <tr> <td>DC Supply</td> <td>190 to 210 volts</td> <td>140 ± 5 volts</td> </tr> <tr> <td>DC Supply Plus Sealing Current</td> <td>195 to 215 volts</td> <td></td> </tr> <tr> <td>DC Supply Sealing Curr. Only</td> <td>8 to 15 volts</td> <td></td> </tr> </tbody> </table>		REPEATER TRANSMITTING POWER	REPEATER RECEIVING POWER	DC Supply	190 to 210 volts	140 ± 5 volts	DC Supply Plus Sealing Current	195 to 215 volts		DC Supply Sealing Curr. Only	8 to 15 volts	
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	If this requirement is not met, leave the 2J test set connected and adjust the heater current and regulating current in accordance with Section 362-410-501.												
	If the requirement still cannot be met, check the adjustment of the power supply resistors in accordance with Section 362-405-502 and readjust as required.												
3	Disconnect the 2J test set and replace the repeater connector in J2 or J3												



**ELECTRON TUBE REPEATER POWER SUPPLY POINTS
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