

SONY

hi-fi Service Bulletin No. 62

SONY CORPORATION OF AMERICA

Technical Publications Department

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Model: TA-4650, -5650, -8650
TAN-5550, -8550

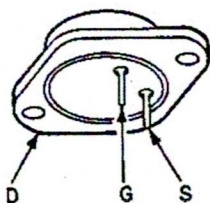
Subject: V-FET Replacement

Date: August 15, 1977

Refer also to Hi-Fi Service Bulletins No. 41, 49, and 51.

Perform the following procedure if V-FET failure is suspected. To avoid damage to a replacement V-FET, do not replace without first making this check.

1. Turn off the power and remove the suspect V-FET.
2. Check resistance readings of this V-FET using a VOM set to the $X1\Omega$ range. See illustration below.



2SJ18, 2SK60

VOM set to $X1\Omega$ range.

S to D ----- Approx. $1\sim 2\Omega$

S to G ----- Same as a diode

D to G ----- Same as a diode

If readings appear normal, the V-FET is probably okay, and other circuit components should be checked.

3. If readings are not normal, turn on the power with the V-FET still out of the circuit. Set the VOM to the 50 VDC range (or as close as possible) and connect the leads to the V-FET conductor patterns on the board as follows:

V-FET	source	gate
2SJ18	VOM (+)	VOM (-)
2SK60	VOM (-)	VOM (+)

4. Set the dc bias adjust resistor (see below) on the Power Amp Board for maximum reading.

TA-4650, -5650	-	RT-301 (RT-351)
TA-8650, TAN-8550	-	RT-701 (RT-751)
TAN-5550	-	RT-501 (RT-601)

5. Turn off the power and install the replacement V-FET. Reapply power and reset the dc bias according to the service manual for the respective model.