SERVICE BULLETIN

M-975

March 17,1989

CONSOLE POD SWITCH/TRANSCEIVER TESTS

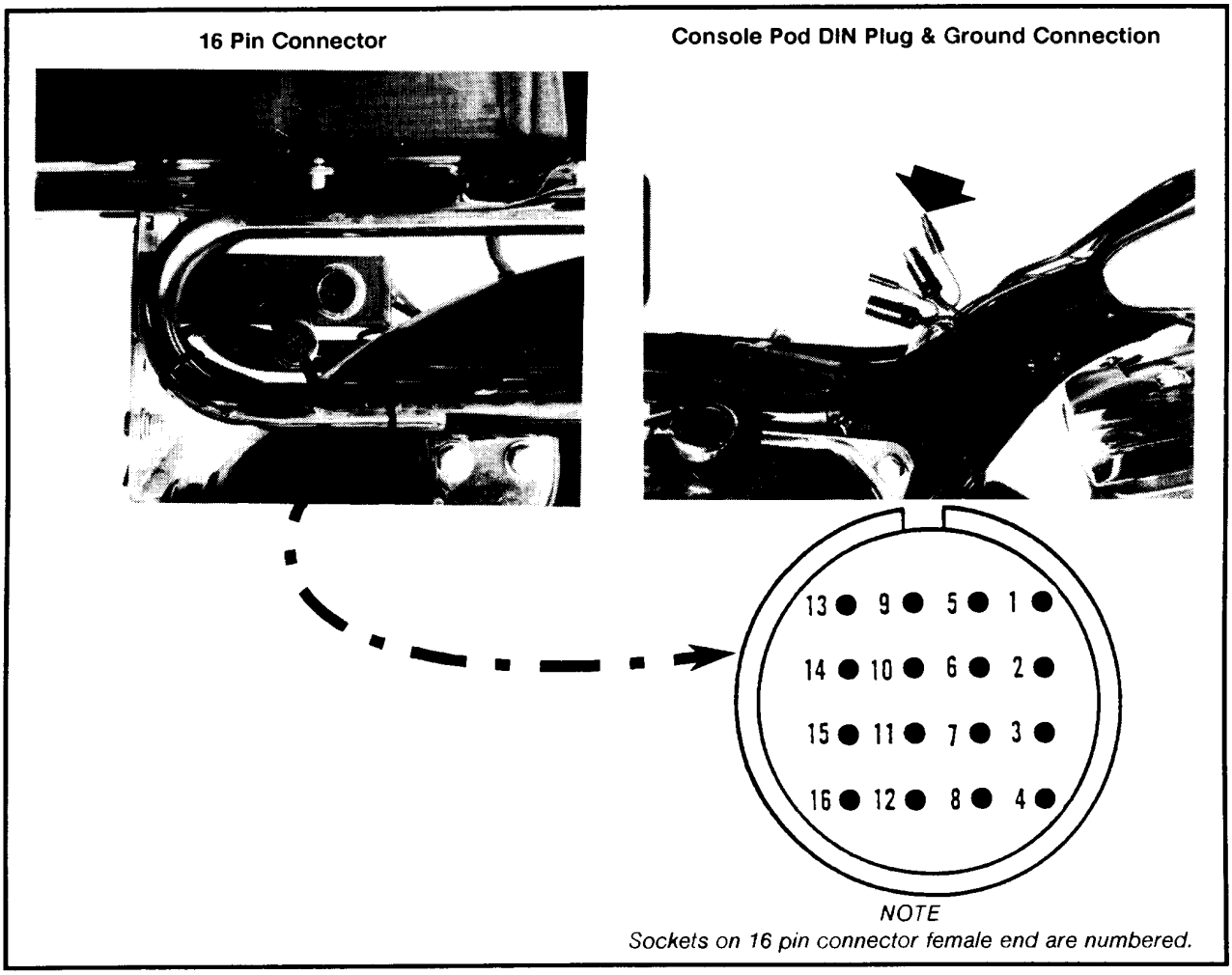
General:

This Service Bulletin is intended to supplement the Service Manual Troubleshooting guide for the 1989 Ultra Sound System.

See Table 1. If a problem arises with the C.B., the following Table gives the technician a method of testing the console pod/transceiver. These tests will help determine if there is a problem in the console pod or the transceiver; that is; if either the pod (switch failure) or the transceiver (transceiver failure) should be replaced.

NOTE

- *See Figure 1. The sockets in the 16 pin connector are too small for a probe, so insert a paper clip in the sockets and touch the paper clip with the probe. Be sure to remove any rough edges on the paper clip.*
- *Conduct all tests with 16 pin and pod DIN disconnected. If system tested does not pass test; replace pod. If system tested passes test; replace transceiver.*
- *Authorizations for console pod or transceiver replacements are still handled through H. D. I. and Radio Sound Inc.*



NOTE

Sockets on 16 pin connector female end are numbered.

Figure 1. 16 Pin Connector and Console Pod DIN Plug and Ground Connection

ROUTING	SERVICE MANAGER	SALES MANAGER	PARTS MANAGER	LEAD TECHNICIAN	TECHNICIAN NO. 1	TECHNICIAN NO. 2	TECHNICIAN NO. 3	TECHNICIAN NO.4	RETURN THIS TO
INITIAL HERE									

Table 1. CONSOLE POD SWITCH/TRANSCEIVER TESTS

SYMPTOM	PIN NO.	TEST RESULTS SHOULD BE:	CIRCUIT	ACTION
C.B. blows fuses repeatedly:	1, 5, 6, to pod DIN ground	Continuity to ground . . . . . infinity	C.B. power on/off, lo/dx	Replace pod
Will not turn on or off	1 to 5	CB on/off switch closed (on): . . . . . less than 1 Ohm CB on/off switch open (off): . . . . . infinite Ohms	CB on/off switch	Replace pod
Moving switch has no effect	1 to 6	Dx: . . . . . infinite Ohms Lo: . . . . . less than 1 Ohm	Local/distance switch	Replace pod
Will not channel down	4 to Pod DIN ground	Channel selector neutral: . . . . . infinite Ohms Channel selector pushed down: . . . . . less than 1 Ohm	CB channel – down	Replace pod
Will not channel up	8 to Pod DIN ground	Channel selector neutral: . . . . . infinite Ohms Channel selector pushed up: . . . . . less than 1 Ohm	CB channel – up	Replace pod
Squelch adjustment has no effect	11 to Pod DIN ground	Squelch open (counterclockwise): . . . less than 50 Ohms Squelch closed (clockwise): . . . . . 8K - 12K Ohms	Squelch adjustment	Replace pod
Volume adjustment has no effect	14 to Pod DIN ground	8K - 12K Ohms . . (position of knob will not affect reading)	Volume adjustment	Replace pod
PTT switch has no effect	15 to Pod DIN ground	PTT pressed: . . . . . high resistance PTT released: . . . . . infinite Ohms **DIODE TESTER (Alternate method)** PTT pressed: . . . . . 0.5 Volt drop PTT released: . . . . . usually open circuit voltage, 1.5 Volts (may vary depending on meter)	PTT switch	Replace pod

NOTE

You MUST use pod DIN ground jumper (single pin attached to console pod DIN).