

3. PARTS LIST

Qty.	Motorola Part No.	Description
1	1V85101A88	Assembly, cable and socket
2	42A874382	Clamp, klystron
1	28A898285	Connector, male, 6 pin
1	5A86555A01	Grommet, small
1	37K12706	Grommet, large
1	14B879872	Insulator, Mylar
4	4S2645	Lockwasher (#6 Ext.)
5	29R812979	Lug, spade
4	2S129020	Nut (6-32)
2	3S122208	Machine screw, (6-32 x 1")
2	3S1977	Machine screw, (6-32 x 3/8")
6	37K61348	Sleeve, Neoprene
2	37K51107	Sleeve, Neoprene (large)
1	14A806782	Tap, insulator

MOTOROLA

UNIVERSAL KLYSTRON CABLE REPLACEMENT KIT

MODEL SK6358

1. APPLICATION

The SK6358 Universal Klystron Cable Replacement Kit is designed to replace the klystron cable and socket assembly in all existing Motorola microwave rf equipment. In addition to supplying a replacement cable, the kit provides a new, simpler method of mounting and clamping the klystron tube. All parts and hardware necessary to make these changes are included in the kit.

2. INSTALLATION

Step 1. Remove the existing klystron tube from the tube socket.

Step 2. Remove the existing klystron tube socket and cable from the unit.

Step 3. Replace any worn insulators and grommets with new parts included in the kit.

NOTE

The socket and cable assembly is wired so that it can be used to replace either a transmitter or local oscillator klystron cable. When the kit is used to replace a transmitter klystron cable, clip the WHT-GRN lead at both ends of the cable. A 7 inch length of WHT-BLU wire is connected to either pin 7 or 8 on the klystron socket. This lead may or may not (depending upon the series of rf equipment) connect to a 0.25 ufd capacitor which is mounted in the heated waveguide compartment. If the capacitor is not present, clip the lead at the tube socket.

Step 4. Feed the loose end of the cable through the hole in the side of the tube socket shield. In some cases it may be necessary to bend the cable perpendicular to the tube socket to provide easy exit through the shield.

Step 5. Position the tube socket on the tube socket shield so that the round hole in the tube socket is

directly over the probe hole in the waveguide. The four slots on the tube socket mounting plate should also be lined up with the holes on the tube shield flange.

Step 6. Fasten the tube socket to the shield using one of the 6-32 by 3/8 inch screws. Place the screw through the hole where the soldering lug is attached. Do not tighten the nut and screw all the way.

Step 7. Insert the other 6-32 by 3/8 inch screw through the hole directly opposite that in Step 6. Fasten loosely with lockwasher and nut.

Step 8. Place the klystron in the tube socket making sure that the probe is positioned in the waveguide.

Step 9. Tighten the screws inserted in steps 6 and 7.

Step 10. Insert the two 6-32 by 1 inch screws into the klystron clamping brackets (long arm on top) and fasten to the tube socket shield using lockwashers and nuts. The brackets are positioned so that the long arm fits over the bottom flange of the klystron, thus holding it firmly in place.

Step 11. Slide one of the large sleeves onto the cable and push it up against the tube shield. If there is a cable clamp on the shield, tighten it on the cable over the sleeve.

Step 12. Use the old cable as a guide to determine the length of cable required. Cut off the excess cable and attach either the 6 pin connector or spade lugs, depending upon the method originally used.

Step 13. Connect the spade lugs to the proper terminals on the terminal board or connect the 6 pin connector to the receptacle, whichever the case may be.

Step 14. Connect the repeller cap to the klystron.

Step 15. Solder the WHT-BLU lead to the capacitor mounted in the waveguide compartment, if present.



MOTOROLA INC.

COMMUNICATIONS DIVISION

Microwave Publications

1400 N. CICERO AVE.

Chicago 51, Illinois

Printed in U. S. A.
5/60-

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68P85901A15
Issue - O