MODIFICATION KIT

FOR THE



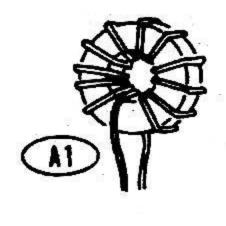
SB-104 SINGLE SIDEBAND TRANSCEIVER

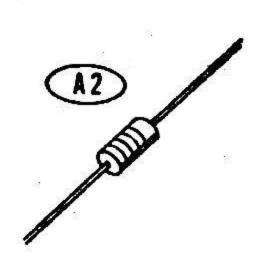
MODEL SBM-104-1

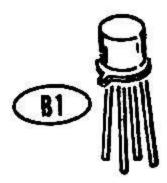
The purpose of this Modification Kit is to improve the sensitivity of the receiver section of your Model SB-104 Single Sideband Transceiver. After you make this modification, your Transceiver will be updated to reflect the latest Heathkit engineering improvements

PARTS LIST

KEY No.	PART No.	QTY.	DESCRIPTION	CIRCUIT Comp. No.
A1	40-1875	* 4	4.5 μH inductor (red dot)	L734
A2	45-73	1.	2.2 μH inductor	RFC701
B1	417-274	. 2	40673 transistor	Q701, Q702
		1	Instruction sheet	









GENERAL

The illustrations referred to in the following steps are Pictorials in your Model SB-104 Transceiver Manuals, unless otherwise indicated.

To identify the location of any part, refer to the Schematic Diagram and the X-Ray Views in your SB-104 Transceiver Manuals.

Refer to Pictorial 12-41 (fold-out from Page 244 in the Operation Manual) for the following two steps.

- () Remove the two 10-32 x 1/2" screws from each side panel. Set the screws, flat washers, and the cabinet retainer strips aside for use later.
- () Remove the cabinet shells from the chassis. Temporarily set the cabinet shells aside.

CHASSIS

() Refer to Pictorial 12-6 (on Page 184 in the Assembly Manual) and disconnect the red wire between terminals G2 and G13. Discard this wire.

Refer to Pictorial 12-22 of this Modification Kit for the following three steps.

() Cut the orange wire 2-1/2" from where it leaves BO#7.

-) Connect the free end of the orange wire, coming from the harness, to terminal G2 (NS).
- Connect the orange wire, that was cut off the harness wire to terminal G2 (S-2).

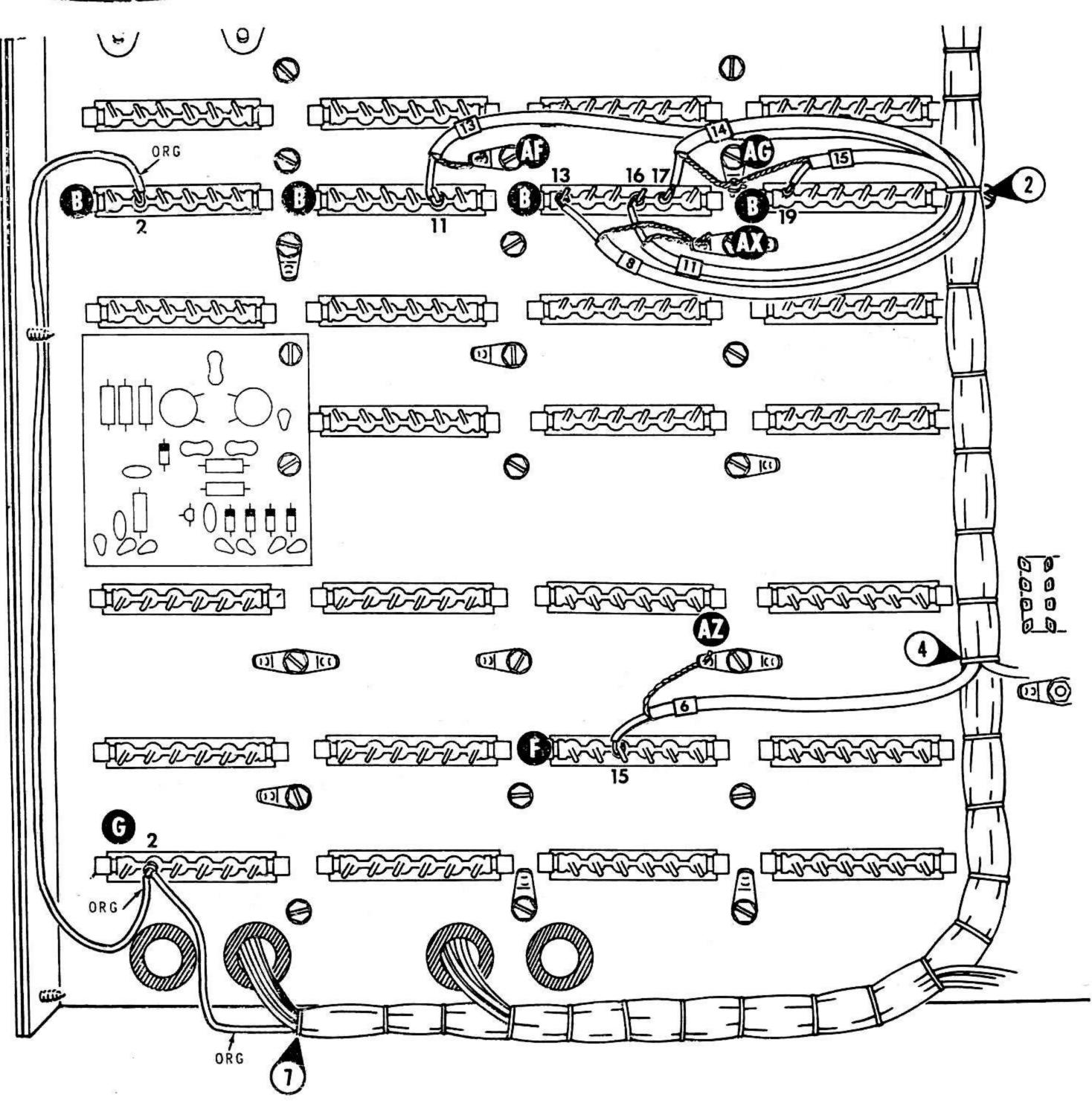
RECEIVER FRONT END CIRCUIT BOARD

NOTE: After you install and solder each component in the following steps, cut off and discard the excess lead lengths.

Refer to the X-Ray View (fold-out from Page 308 in the Operational Manual) for the location of the parts in the following steps.

- () Remove the 100 Ω (brown-black-brown) resistor at R719.
- () Install a 2.2 μH inductor (#45-73) at R719. Your circuit board is marked 100 at this location.
- () Remove the 7.6 μ H inductor at L734. This inductor may have white and red color dots.
- () Install a 4.5 μ H inductor (#40-1875, red dot) at L734.

- () Remove the 40673 transistor (#417-240) at Q701.
- () Install a 40673 transistor (#417-274) at Q701.
 After you install this transistor, remove the shorting wire from the transistor leads.
- () Remove the 40673 transistor (#417-240) at Q704.
- () Install a 40673 transistor (#417-274) at Q704.
 After you install this transistor, remove the shorting wire from the transistor leads.
- () Reinstall the cabinet shells and the cabinet retainer strips.



PICTORIAL 12-22

Page 309 in the Operation Manual (fold-out from Page) — Cut out the new part of the Receiver Front End Circuit Board Schematic from Page 4 of these Instructions. Then tape it over the corresponding part of the Schematic in your Manual.

Cut out the new part of the Receiver Front End Circuit Board Schematic from Page 4 of these Instructions. Then tape it over the corresponding part of the large Schematic fold-in.

This completes the modification of your Transceiver.



