

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS, UNITED STATES AIR FORCE
WASHINGTON

TECHNICAL ORDER
31R1-3BC779-505

1 JUNE 1957

MODIFICATION OF RADIO RECEIVER BC-779
TO PROVIDE QUICK-DISCONNECT ANTENNA FEATURE

NOTE: This technical order replaces T. O. 31R1-3BC779-505 dated 1 June 1957.

By whom work will be accomplished:	Depot Level Maintenance
When work will be accomplished:	During Depot Level Maintenance if not previously accomplished or prior to issue.
AF Form entry required:	AFTO 43A
Spares affected?	Yes. See paragraph 3b.

1. PURPOSE.

As provided, the antenna is connected to the receiver by screw-type terminals. These terminals shall be replaced by coaxial connector SO-239, so that the antenna may be connected and disconnected rapidly.

2. MODIFICATION DATA. (In Accordance with GLOBECOM ECP No. 520-22)

a. At back of receiver, remove the two side plates shown in Figure 1, by removing the four screws from each plate. Retain parts removed.

b. Remove antenna terminal strip from back plate. Unsolder wire attached to terminal.

c. Ream mounting holes in connector SO-239, GC BOM No. 591, to accommodate No. 4 screw.

d. Using connector SO-239 as template, drill four mounting holes with No. 31 drill in back plate, with connector centered on slot where antenna terminal strip

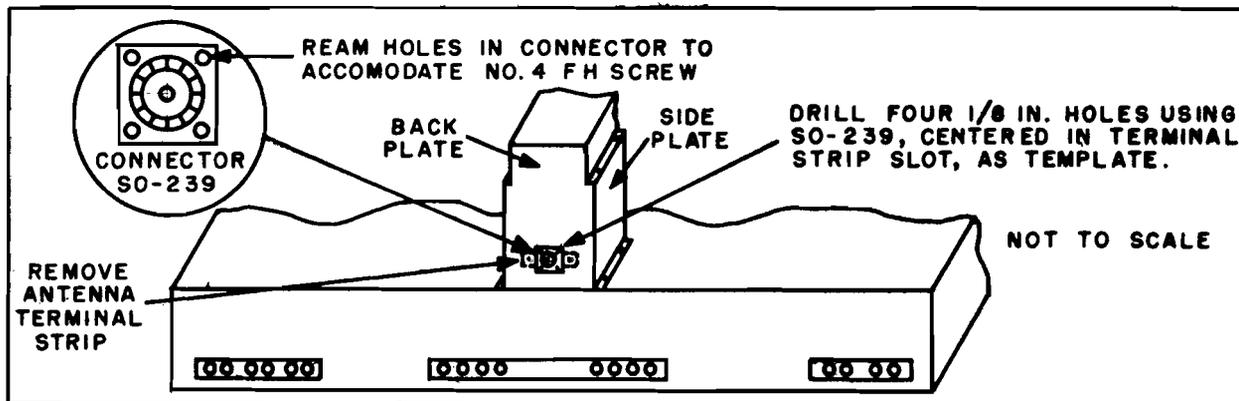


Figure 1—Radio Receiver BC-779, Partial Rear View Showing Mounting Details for Connector SO-239

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was removed in step b.

e. Solder to terminal of connector SO-239 the wire unsoldered in step b.

f. Fasten connector SO-239 to back plate using four RH 4-48 x $\frac{1}{2}$ -in. machine screws (GC BOM No. 1262) and four 4-48, plain, brass nuts (GC BOM No. 1938).

g. Replace side plates removed in step a.

3. SUPPLY DATA.

a. Parts Required per Radio Receiver. The following parts are required to accomplish the modification to each Radio Receiver BC-779, Stock No. 2C4779.1, and should be requisitioned from Supply Class 16M, Rome Air Force Depot, Griffiss Air Force Base, Rome, New York, referencing the appropriate GC BOM number:

<u>Quantity</u>	<u>Part Number</u>	<u>Nomenclature</u>
1 ea	GC BOM 591	Connector, SO-239
4 ea	GC BOM 1262	Screw, machine, RH 4-48 x 1/2 in.
4 ea	GC BOM 1938	Nut, plain, brass, 4-48

b. Disposition of Spares. All Radio Receivers Type BC-779() which are in depot stock shall be modified in accordance with paragraph 2 by Depot Level Maintenance prior to issue or shipment.

c. Parts Required to Modify Spares. (Not Applicable)

d. Disposition of Removed Parts. Condemn the following part at once and tag for disposition as administratively condemned property: Board, terminal; Stock No. 2C4528.7/34 (antenna terminal strip).

e. Size, Weight, and Cost of Parts. (Not Applicable)

4. KIT INSTALLATION TOOLS. (None Required)

5. MAN-HOURS REQUIRED.

Approximately two man-hours are required to complete the modification directed herein.

BY ORDER OF THE SECRETARY OF THE AIR FORCE:

NATHAN F. TWINING
CHIEF OF STAFF
UNITED STATES AIR FORCE

EDWIN W. RAWLINGS
General, USAF
Commander
Air Materiel Command

Prepared by Headquarters, Rome Air Force Depot
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