



Rockwell
International

instructions

AC-85101 DVBFO Kit (622-4607-001)

Collins Telecommunications Products Division

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AC-85101 DVBFO KIT
(622-4607-001)

1. DESCRIPTION

The AC-85101 DVBFO Kit 622-4607-001 contains a vbfo card. When installed the DVBFO kit provides a vbfo offset frequency for SSB/CW or ISB (channel A only) operation. Refer to table 1 for equipment this kit is used on.

The AC-85101 vbfo provides an offset frequency that is summed with the 450-kHz injection frequency and provides a 440.01- to 459.99-kHz channel A if injection frequency when the bfo is enabled. This variable injection frequency provides a CW tone of 0 to 9 990 Hz (in 10-Hz steps) in either USB or LSB.

2. INSTALLATION

Installation of the AC-85101 DVBFO Kit 622-4607-001 consists of installing an A4 VBFO card and removing optical blanker from VBFO display.

2.1 VBFO 638-6067-001 Installation

Note

Retain hardware removed during disassembly for use in reassembly. Refer to unit parts list as an aid in disassembly and assembly.

- a. Remove top cover from unit.
- b. Remove jumper card 637-3796-001 from A4 slot.
- c. Install VBFO 638-6067-001 in A4 slot.
- d. Remove front panel from unit by removing four hexhead screws and attaching hardware.

Table 1. AC-85101 DVBFO Kit, Equipment Used On.

EQUIPMENT	COLLINS PART NO
851S-1 Receiver	622-4272-()
This kit is factory installed on some configurations of this unit.	

Caution

Upper overlay panel (plexiglass) is brittle; exercise care during removal of upper overlay panel.

- e. Remove upper overlay panel from front panel as follows:
 1. Remove four Phillips-head screws and lockwashers that secure back of front panel to upper edge bar.
 2. Remove four Phillips-head screws and lockwashers that secure back of front panel to panel support (middle bar on front panel).
 3. Lift upper edge bar from front panel.
 4. Carefully remove upper overlay panel.
- f. Carefully remove optical blanker from vbfo frequency display.

Caution

Upper overlay panel (plexiglass) is brittle; exercise care during replacement of upper overlay panel.

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- g. Insert upper overlay panel into slot on panel support (middle bar on front panel).
- h. Replace edge bar on top of front panel ensuring upper overlay panel fits properly.
- i. Secure upper overlay panel to front panel with eight Phillips-head screws and lockwashers.
- j. Secure front panel to unit with four hexhead screws and attaching hardware.
- k. Reinstall unit top cover.

3. REPAIR

Repair of AC-85101 DVBFO Kit is accomplished using standard maintenance and planar card repair

procedures. Refer to the maintenance section of this instruction book for planar card repair procedures.

4. PARTS LIST/DIAGRAMS

This paragraph assists in the identification, requisition, and issuance of parts, and in maintenance of the equipment. The Collins part number and description for each nonstandard replacement part are listed in table 2. These cards are covered in the following instructions which are included in this instruction book.

Table 2. AC-85101 DVBFO Kit, Parts List.

PART DESCRIPTION	COLLINS PART NO	QUANTITY USED ON AC-85101 DVBFO KIT 622-4607-001
VBFO A4	638-6067-001	1
Drawing envelope	520-8360-211	1
Installation Kit - DVBFO AC-85101	622-4607-()	1