



**Rockwell
International**

instructions

AC-85100 ISB Kit (622-4606-())

Collins Telecommunications Products Division

523-0769222-001211

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AC-85100 ISB Kit
(622-4606-())

1. DESCRIPTION

The AC-85100 ISB Kit 622-4606-() contains a channel B if. When installed, the ISB Kit provides LSB and 2-channel ISB (independent sideband) operation. Refer to table 1 for equipments used on.

The AC-85100 channel B if provides a channel B if amplifier and channel B SSB product detected audio outputs. Different configurations of the AC-85100 ISB provide different LSB bandwidth filters.

To maintain a balanced ISB operation, an LSB filter with the same bandwidth as the USB filter is desired. The standard filter in USB is 2.75-kHz bandwidth, thus a 2.75-kHz bandwidth LSB filter should be used. If a filter other than the standard is used in either USB or LSB, kits are available to maintain a balanced ISB system. LSB filters are included in these instructions; USB filters are included in AC-85108 Channel A IF Kit (622-4616-()) instructions.

Table 1. AC-85100 ISB Kit, Equipments, Used On.

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

2. INSTALLATION

Installation of the AC-85100 ISB Kit 622-4606-() consists of installing a channel B if A8 and, if installed, removing filter A8A2FL2 from filter card A8A2.

- a. Remove top cover from unit.
- b. If A8A2 installed, remove A8 CHAN A IF from the unit.
- c. Remove A8A2 filter card from A8 CHAN A IF.
- d. If A8A2FL2 is not the only filter on the A8A2 filter card, unsolder and remove A8A2FL2 from the A8A2 filter card.
- e. Replace A8A2 filter card on A8 CHAN A IF. (If A8A2FL2 is the only filter on the A8A2 filter card, save the removed card. Do not reinstall it in the unit.)
- f. Reinstall A8 CHAN A IF in its original position in the unit.
- g. Install A7 CHAN B IF in its allocated position in the unit.
- h. Reinstall unit top cover.

3. REPAIR

Repair of the AC-85100 ISB 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 identification, requisition, and issuance of parts, and in maintenance of the equipment. The Collins part number and description for each replacement part are listed in table 2.

Channel B IF 637-2647-() is covered in Channel B IF 637-2647-() instructions (Collins part number 523-0767965) included in this instruction book.

523-0769222-001211

Table 2. AC-85100 ISB Kit, Parts List.

PART DESCRIPTION	COLLINS PART NO	QUANTITY USED ON AC-85100 ISB KIT 622-4606-()		
		-001	-002	
Channel B if (2.75-kHz LSB)	637-2647-001	1		
Channel B if (3.10-kHz LSB)	637-2647-003		1	
Drawing envelope	520-8360-216	1	1	
Installation Kit - ISB AC-85100	622-4606-()	1	1	