



Rockwell International

instructions

AC-85102 Decade Expansion Kit (622-4608-001)

Collins Telecommunications Products Division

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AC-85102 Decade Expansion Kit
(622-4608-001)

1. DESCRIPTION

The AC-85102 Decade Expansion Kit 622-4608-001 contains a synthesizer 100/10 Hz decade card. When installed, the AC-85102 Decade Expansion Kit provides 10-Hz tuning on all units listed in table 1.

Table 1. AC-85102 Decade Expansion Kit, Equipment Used On.

EQUIPMENT	COLLINS PART NO
851S-1 Receiver	622-4272-001

2. INSTALLATION

Installation of the AC-85102 Decade Expansion Kit 622-4608-001 consists of configuring the synthesizer assembly for 10-Hz operation using the 100/10-Hz decade supplied with the kit.

Note

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

- a. Remove unit top cover.
- b. Remove synthesizer assembly top cover.
- c. Remove END DECADE from A18 slot and install it in A17 slot.
- d. Install decade card 623-2080-004 in the A18 slot.

- e. Remove front panel from unit by removing four hexhead screws and attaching hardware.

Caution

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

- f. 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.

- g. Carefully remove optical blanker from 10-Hz frequency digit of frequency display.

Caution

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

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

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- l. Reinstall synthesizer assembly top cover.
- m. Reinstall unit top cover.

3. REPAIR

Repair of AC-85102 Decade Expansion 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.

Synthesizer Decade 623-2080-004 is covered in Synthesizer Decade 623-2080-001, -002, -003, -004 instructions (Collins part number 523-0767972) included in this instruction book.

Table 2. AC-85102 Decade Expansion Kit, Parts List.

PART DESCRIPTION	COLLINS PART NO	QUANTITY USED ON AC-85102 DECADE EXPANSION KIT 622-4608-001
Synthesizer decade	623-2080-004	1
Drawing envelope	520-8360-212	1
Installation Kit-Decade Expansion AC-85102	622-4608-()	1