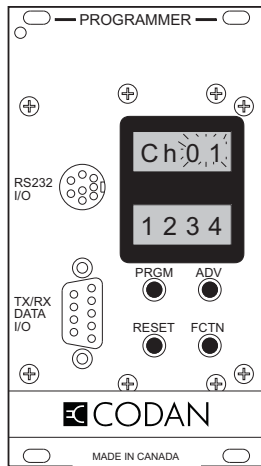# ☰ CODAN
RADIO COMMUNICATIONS

TN820 CP-SC-3 Synthesizer Channel Programmer

The CP-SC-3 synthesizer channel programmer is used to bench and field program the MT-3 family of synthesized radios. The CP-SC-3 synthesizer channel programmer is packaged in the same enclosure as the MT-3 receiver module, allowing it to be conveniently mounted in any receiver subrack slot position. An interconnect cable (Type F to DB-9) connects the front panel of the CP-SC-3 synthesizer channel programmer to any free standing synthesized receiver or transmitter, without disassembly.

The CP-SC-3 synthesizer channel programmer is designed to interface with all Codan MT-3 synthesized receivers and transmitters. The main feature of the CP-SC-3 synthesizer channel programmer is to permit the user to program any of the 15 desired channels and view all 16 channels (channel 1 set only by internal binary coded decimal switches).

The front panel is comprised of four push button switches (keys), two external connectors and a display window. The TX/RX DATA I/O DB-9 connector permits communication with any synthesized RF module (via Type F to DB-9 cable). The display window informs the user of the status of the CP-SC-3 programmer module. Each channel has a four character code number that corresponds to a certain frequency. Use the channel designation table in the back of the appropriate RF module manual to determine frequencies.

The CP-SC-3 synthesizer channel programmer four functional keys are:

Key	Function
PRGM	Programs the synthesized RF module with current data.
ADV	Advances (increments) the flashing character.
FCTN	Moves to the next character and flashes it for advancement.
RESET	Resets the CP-SC-3 programmer and waits for new data.

Using the CP-SC-3 Programmer
Install the CP-SC-3 into any MT-3 receiver slot in the subrack. Connect the Type F to DB-9 cable from the synthesizer to the RF module. Turn on the RF module (NORM for receivers; KEY TX for transmitters).

WARNING: Do not terminate the transmitter with a load when using the channel programmer.

Channel 1 data will be displayed. Use the FCTN key to select the channel number (it will flash on and off) and use ADV key to advance the channels and read the programmed code number. To select a new code number for a channel, press FCTN until the code character to be changed is flashing, then hit ADV until the desired code character is selected. Repeat for the other code characters for that channel. Press the PRGM key and wait until the new data has been received (the display will show channel 1).

The CP-SC-3 can be used to duplicate programming (clone) identical frequencies in RF modules. Connect the first module to be cloned and press RESET to read in all programming information. Connect the new RF module and press PRGM. The new RF module will have the same data for channels 2 through 16 as the first module.

Note: For complete operating instructions, refer to the instruction manual. These notes are for reference only.

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