

## ■ Getting started

- ◇ This cloning software is designed to perform data setting and cloning for the IC-F50/F60 VHF/UHF TRANSCEIVERS.
- ◇ **HELP WINDOW:** A help window describes the function and operation of each items.

## ■ System requirements

To use this program, the following hardware and software are required:

### PC

- Microsoft® Windows® 98/98SE/Me/2000/XP
- RS-232C serial port
- At least 640 × 480 pixel display

### Other item

- OPC-966 CLONING CABLE

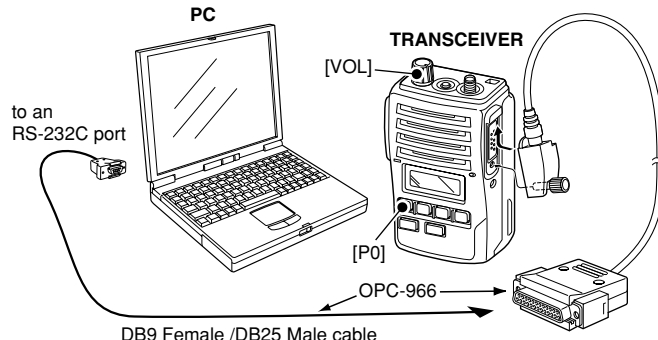
## ■ Software installation

- ① Boot up Windows.
  - Quit all applications when Windows is running.
- ② Insert the CD into the appropriate drive.
- ③ Double-click the "Setup.exe" contained in the CD.
- ④ The "Welcome to the InstallShield Wizard for CS-F50MDC" will appear. Click [Next>].
- ⑤ Type your name, your company name and the product ID number in the following manner. Then click [Next>].
  - ID number: 268302 - 123456
- ⑥ Click [Next>] to install.
- ⑦ After the installation is completed, click [Finish].
  - The program group 'CS-F50MDC' appears in the 'Programs' folder of the start menu, and 'CS-F50MDC' short cut icon appears on the desktop screen.

## ■ Connections

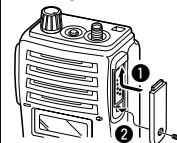
All cloning operations are performed from the computer's keyboard and the operation required on the transceiver side is:

- ① First, connect the cloning cables as illustrated at right.
- ② While pushing [P0], rotate [VOL] to turn power ON.



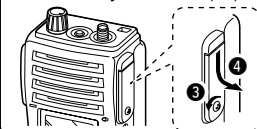
### Attaching:

Attach the jack cover (①), then tighten the screw (②).

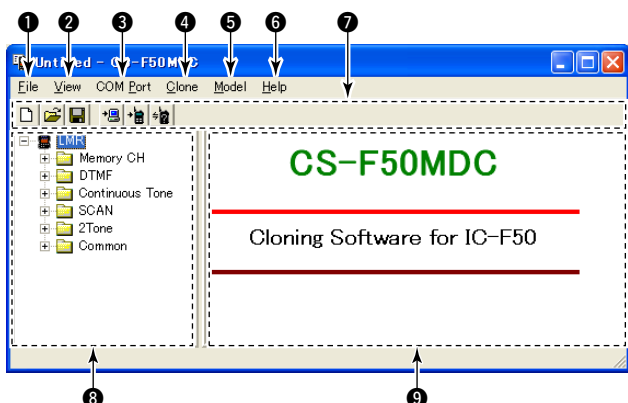


### Detaching:

Unscrew the screw (③), then detach the jack cover (④).



## ■ Screen description



### ① FILE MENU [File]

Used for saving memory channel contents, printing the pre-programmed information or exiting the program, etc.

### ② VIEW MENU [View]

- Select the displayed font size.
- Turn the toolbar ON or OFF.

### ③ COM PORT MENU [COM Port]

- Click to display the COM port (1 to 4 and More) setting dialog box.
  - Set the transfer speed (Normal or High).
- NOTE: 'Check the following' dialog box appears when the COM port is not set correctly.

### ④ CLONING MENU [Clone]

Click to display cloning menu and cloning information dialog box.

### ⑤ MODEL MENU [Model]

Select the appropriate model type which you are going to clone.

### ⑥ HELP MENU [Help]

Click to display the help contents and cloning software revision information.

### ⑦ TOOLBAR

Shortcut buttons appear on the toolbar when the toolbar indication is turned ON in the [View] menu.

### ⑧ TREE VIEW MENU

Click the folder icon which you want to edit.

### ⑨ PROGRAM SCREEN

Display the contents list (Memory CH information, Common settings, etc.)

## ■ Programming information

- We recommend that you should read out all the transceiver's data before start entering/editing parameters even the transceiver is factory fresh. This avoids rare glitches which might cause programming errors when writing back the altered parameters.
- Double-click the desired cell in the contents list screen directory, or right-click the cell to display the edit menu. Then click **[Edit... Enter]** to select and change the setting depends on the item.

Edit...	Enter
Copy	Ctrl+C
Paste	Ctrl+V
Up	Ctrl+Up
Down	Ctrl+Down
Clear	
Delete	Del
Insert	Ins
Help	

(Edit menu)

## ■ Cloning items

The **Memory CH**, **MDC**, **MSK**, **DTMF**, **Continuous Tone**, **SCAN**, **2Tone/5Tone** and **Common** items allow you to set the transceiver customized.

### ◆ Memory CH

The 'Memory CH' window allows you to edit the channel information.

- **Bank Operation:** Specify a bank conditions, each bank name and capacity (number of channels). And also, shows the number of memory channels condition for reference.
- **Bank:** Specify the operating frequency and details of the operating conditions for each memory channel that is assigned in the bank.

/// **NOTE:** Program the RX frequency first, otherwise no setting can be done.

### ◆ MDC (Available only when MDC LMR or MDC PMR is selected)

- **System:** Set the MDC 1200 signaling system (No. 1 to 5) settings. The desired system can be selected in each memory channel.
- **General:** Set the MDC 1200 signaling system general settings such as MDC On, Self ID, Group ID and Mute type.
- **PttID/Emg/SelCall/Call Alert/Radio Check/Stun/Revive/Status/Message/Alias:** PTT ID, Emergency signaling, Selective Calling, Call Alert, Radio Check, Stun, Revive and Messaging are allowed with the MDC 1200 signaling system. Also, an additional feature of MDC 1200 found in Icom transceivers is called aliasing. The alias is used for transmit and receive.

### ◆ MSK (Available only when BIIS PMR is selected)

- **ID Range:** Set the ID range for Individual, Group and Common, then set the Country Code and Killer ID.
- **Own ID/Group:** Set the Own/Group ID code, Display Text, Alert and Bell Icon condition for decode action.
- **Call List:** Set the transmission ID, Input Digit, Text, Update and Sel condition.
- **Message- Status:** Set the Display Text, Beep, Auto TX, Priority and Sel condition.
- **Message- SDM:** Set the SDM (Short Data Message) of up to an 8-digit and Sel condition.
- **Timing & Error:** Set the Call Parameter items for NA, NM, NR, TAC, Call LET Timer, Ack LET Timer and Busy Check Timer.
- **Config.:** Set the MSK configuration items such as PTT Call, Pre-Emphasis and SYNC Word.

### ◆ DTMF

- **DTMF Autodial/Setting:** Edit the DTMF Autodial Code, Text, and then set the time period/signal length for the DTMF Timer, First Timer and \* # Timer.

### ◆ Continuous Tone

- **Continuous Tone/Setting:** Set the RX/TX Continuous Tone frequency, and then set the Continuous Tone Setting items such as Tone Burst and User CTCSS Freq (Hz).

### ◆ SCAN

- **Scan List/Setting:** Set the Scan List settings such as Mode type and Display Text. And set the timer items for Stop, Resume and Fast/Slow Scan, then turn the Power ON Scan and Auto CH Call functions ON or OFF.

### ◆ 2Tone (Available only when LMR or MDC LMR is selected)

- **Code CH:** Set the 2Tone code channel items such as 1st/2nd Frequency, Tone Period, Text and TX Code Type.
- **RX Code Setting:** Set the RX code timer for Notone, Group and Beep Repeat.

### ◆ 5Tone

(Available only when PMR, BIIS PMR or MDC PMR is selected)

- **RX Code CH:** Set the RX code channel items such as RX Code, Text, ID Dec, Bell, ABC and Beep.
- **RX Code Setting:** Set the RX code timer for Link A, ID Decode and Beep Repeat, and set the Compare Digit and Compare Tone for decode action.
- **TX Code CH:** Set the TX code channel items for TX Code, Input Digit, Text, Update, ABC Dec/Aud and Sel.
- **TX Code Setting:** Set the TX code timer items such as Long Tone, and set the Displayed digit, PTT Call at Inaudible and special tone items.
- **Format:** Set the time period for the Tone Period, Notone Timer and Tone Length in the format.
- **User Tone:** Set the tone frequency for the Encode and Decode Low/High respectively.

### ◆ Common

- **Key & Display Assign:** The desired functions can be assigned to [Up], [Down], [P0], [P1], [P2], [P3] and [Red] programmable function keys. And set the beep audio frequency, Opening Text, MR/Code Display, Scroll Timer\*, RF Power selection and Move to Prio A CH function.

\*Available only when BIIS PMR is selected

- **Set Mode:** Set the condition of the set mode items such as Backlight, Beep and SQL Level. And select the set mode "Enable" or "Inhibit" (on the transceiver) for each item.
- **Common:** Commonly set items such as Clone Comment 1/2, User Password, Power ON Password, Auto Reset Timer A/B, Inactive Timer, Scrambler and Emergency function items.
- **Character Editor:** You can make an original character (Max. 16 characters) and use it to indicate on the LCD.

**NOTE:** The above instructions are for reference only. Please refer to the HELP file of the cloning software for the function or setting details.

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