

ALINCO



COMMERCIAL HF SSB TRANSCEIVER

DX-701

DEALER'S SUPPLEMENT



INTRODUCTION

The DX-701 can be tailored to specific purposes by accessing the **SET** mode and setting the jumpers. The transceiver also has the **CLONING** mode for allowing dealers to transfer data from one DX-701 to another DX-701.

This supplement covers these topics.

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SET MODE

The **SET** mode becomes active when the DIP switch (S1002) on the control panel's PC board is turned on. This mode enables you to set:

- LCD display mode (channel No. plus Frequency; or Channel No. only)
- Contents of the **CALL** channel (mode, Tx frequency, Rx frequency, and output power)
- Contents of each memory channel (mode, Tx frequency, Rx frequency, and output power)

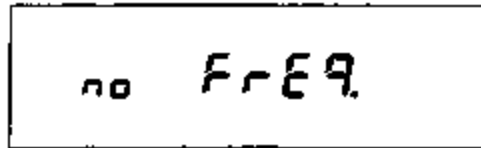
Accessing the SET Mode

Press and hold the **CALL** key down, and turn the power on.

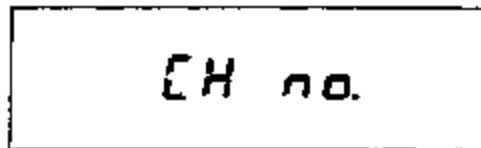
- The current display mode is displayed on the LCD for 3 seconds.

Setting the Display Mode

Within the above 3 seconds, rotate the Dial to select the desired display mode: channel number plus frequency or channel number only.



Memory channel No. plus frequency



Memory channel No. only

Programming Memory Channel

■ Programming Duplex Frequency

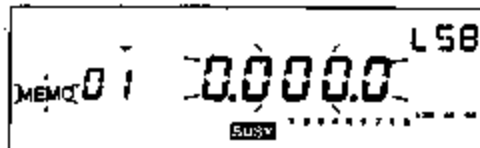
1. Rotate the Dial to select the desired memory channel number.

- The cursor \blacktriangledown is displayed on the channel number.



- For a blank memory channel, MEMO flashes.

- If the PLL is unlocked, the frequency digits flash.



2. Press the DIM key to flash the digit to be set.

- Press the DIM key and the cursor moves to the 10 MHz digit. Press this key again, and the 1 MHz digit flashes. Press the key several times more, the flashing digit shifts like this:

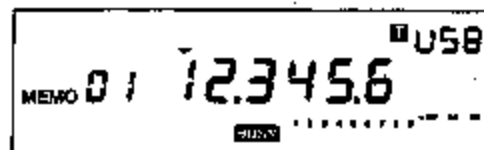
→ CH No.(on cursor) → 10 MHz → 1MHz → 100kHz → 10kHz → 1kHz → 100Hz → Mode →




3. On the flashing digit, rotate the Dial to get the desired digit. Continue this until the desired frequency is displayed.

4. Press the CALL key to confirm the reception frequency.


- \blacksquare appears on the LCD, showing the transceiver is now in the transmission frequency programming mode.



5. Press the DIM key like the above and bring the display to the desired transmission frequency.

 *Note: At this time, the channel number and mode selection is skipped.*

6. If necessary, set the output power level to low.

 *Note: This setting affects initial power-on status only. The power output can be changed by users after the power has been turned on.*

7. Press the CALL key to confirm the transmission frequency.

■ Programming Simplex Frequency

1. Select the desired memory channel and reception frequency as prementioned.
2. Press the **CALL** key twice.
 - The same frequency is confirmed for transmission and reception.
 - **MEMO** stops flashing.

■ Setting Reception-only Channel

1. Select the desired memory channel and reception frequency as prementioned.
2. Press the **CALL** key and then the **CHECK** key.
 - The channel becomes a reception-only channel.
 - **MEMO** stops flashing.

■ Setting Blank Memory Channel

1. Select the desired memory channel as prementioned.
2. Press the **CHECK** key.
 - The channel becomes blank - i.e. it is skipped in the user mode.

Exiting from the SET Mode

Turn the power off and turn the DIP switch (S1002) off.

CLONING MODE

The **CLONING** mode allows dealers to transfer data from a preprogrammed DX-701 (master) to an unprogrammed DX-701 (slave). The master and slave must be connected with the Alinco ERW-5 interface cable.

Transferable Data

- Display mode
- Memory data
- Transmission frequency range (Factory default: 1.6 MHz to 29.9999 MHz)

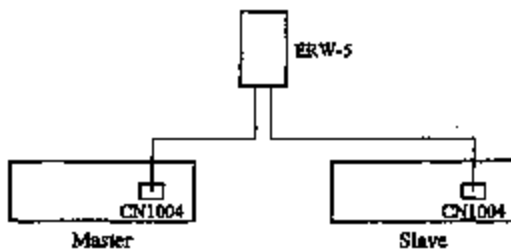
Complete these steps for each cloning.

1. For the master and slave DX-701's, turn on the DIP switch (S1002).

⇒ For locating the switch, see the component locator on page 10.

2. Connect the master and slave with the interface cable.

- Plug the cable into the connector (CN1004) on the control panel's PC board in both transceivers.



⇒ For locating the connector, see the component locator on page 10.

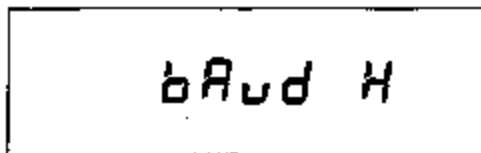
3. For both the master and slave, press and hold the **DIM** key down, and turn the power on.

- The LCD displays "CLonE" on both transceivers.

The image shows a rectangular LCD display with a black border. Inside the display, the word "CLonE" is shown in a monospaced, slightly irregular font. The letters are white against a dark background.

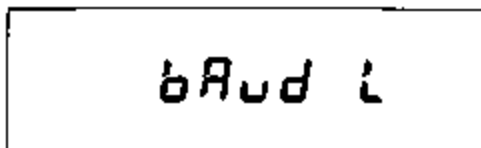
4. If necessary, press the **SQUELCH** key to set the data transfer speed to fast (31.25 kbps) or slow (9600 bps).

- "bAud H" is displayed when the speed is set to fast.


A rectangular LCD display showing the text "bAud H" in a monospaced font.

Fast

- "bAud L" is displayed when the speed is set to slow.

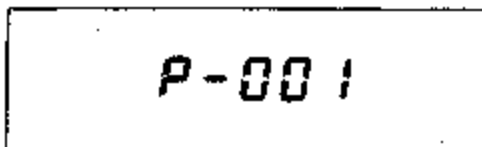
A rectangular LCD display showing the text "bAud L" in a monospaced font.

Slow

 **Note:** This speed must be the same between the master and slave.

5. For the master, press the **PTT** key on the microphone to start transferring the data.

- During the transfer, the master displays "P-XXX" (XXX = 000 to 127) and the slave still displays "ClonE" on their respective LCDs.

A rectangular LCD display showing the text "P-001" in a monospaced font.

On master's LCD

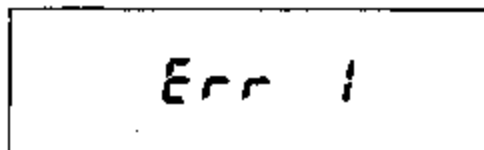
A rectangular LCD display showing the text "ClonE" in a monospaced font.

On slave's LCD

6. a) If the transfer is successful:
- "Good" is displayed on the master only. Then the master and slave automatically exit from the **CLONING** mode.

A rectangular LCD display showing the text "Good" in a monospaced font.

- b) If an error has occurred:
- "Error n" (n = 1 to 6) is displayed on the master. For this case, check what caused the error and press the **PTT** key again on the master.

A rectangular LCD display showing the text "Err 1" in a monospaced font.

For more cloning, bring the next slave into the **CLONING** mode; that is, display "ClonE" on the LCD.

7. For the master and slave, turn the power off and turns the S1002 switch off.
8. Disconnect the interface cable.

RESET

The DX-701 can be reset when the DIP switch (S1002) is turned on. To reset, press and hold down the **RF/ATT**, **NI**, and **SQUELCH** keys at the same time, and turn the power on.



Note: Resetting cannot erase the transmission frequency range if it is active.

JUMPER SETTING

The hardware settings of the DX-701 can be changed with the DIP switch and jumpers. They are mounted on the PC board in the control panel, and are accessible without removing the rear cover of the panel.

This table shows the setting items and methods.

Setting items	Off	On	On/Off switching
RIT range	$\pm 1.4\text{kHz}$	$\pm 200\text{Hz}$	Solder and bridge jumper A.
Mode display	Displayed	Not displayed	Solder and bridge jumper B.
RIT offset display	Displayed	Not displayed	Solder and bridge jumper D.
Speech Compressor	Off	On	Solder and bridge jumper H.
SET mode	User mode	SET mode	Turn the S1002 switch on.

For locating the jumpers and DIP switch, see the next page.