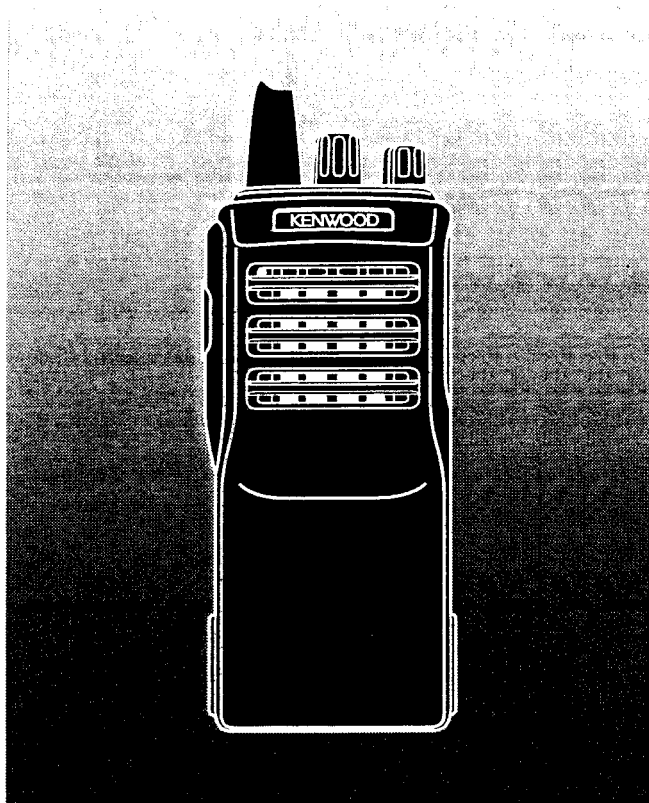


# KENWOOD

## INSTRUCTION MANUAL



VHF/UHF FM TRANSCEIVER  
**TK-261/361**

KENWOOD CORPORATION

© B62-0772-20 (T,E,M)  
09 08 07 06 05 04 03 02

## NOTICES TO THE USER

### **SAFETY**

- *IT IS IMPORTANT THAT THE OPERATOR IS AWARE OF AND UNDERSTANDS HAZARDS COMMON TO THE OPERATION OF ANY TRANSCEIVER.*

### **LEGAL WARNING**

- *GOVERNMENT LAW PROHIBITS THE OPERATION OF UNLICENSED RADIO TRANSMITTERS WITHIN THE TERRITORIES UNDER GOVERNMENT CONTROL.*
- *ILLEGAL OPERATION IS PUNISHABLE BY FINE OR IMPRISONMENT OR BOTH.*

### **PRECAUTIONS**

*PLEASE OBSERVE THE FOLLOWING PRECAUTIONS TO PREVENT FIRE, PERSONAL INJURY, AND TRANSCEIVER DAMAGE:*

- *REFER SERVICE TO A QUALIFIED LICENSED OR CERTIFIED TECHNICIAN ONLY.*
- *TURN OFF AND DO NOT OPERATE YOUR TRANSCEIVER WHILE TAKING ON FUEL, OR WHILE PARKED IN GASOLINE SERVICE STATIONS.*
- *DO NOT MODIFY THIS TRANSCEIVER FOR ANY REASON.*
- *DO NOT EXPOSE THE TRANSCEIVER TO LONG PERIODS OF DIRECT SUNLIGHT, NOR PLACE THE TRANSCEIVER CLOSE TO HEATING APPLIANCES.*
- *DO NOT PLACE THE TRANSCEIVER IN EXCESSIVELY DUSTY AREAS, HUMID AREAS, WET AREAS, NOR ON UNSTABLE SURFACES.*
- *IF AN ABNORMAL ODOR OR SMOKE IS DETECTED COMING FROM THE TRANSCEIVER, SWITCH OFF THE POWER IMMEDIATELY AND REMOVE THE BATTERY PACK FROM THE TRANSCEIVER. CONTACT YOUR **KENWOOD** SERVICE CENTER OR DEALER.*

## THANK YOU!

We are grateful you chose this **KENWOOD** transceiver. We believe this easy-to-use transceiver will provide dependable and comfortable communications.

**KENWOOD** transceivers incorporate the latest in advanced technology. As a result, we feel strongly that you will be pleased with the quality and features of this product.

## FEATURES

- Easier to handle due to the thinner profile, smaller size, and lighter weight.
- The frequencies and QT tones/ DQT codes programmed in 4 channels are changable.
- Transmit power is switchable between high and low. (This feature is not available in some markets.)
- The 3-color LED indicates the current transceiver status.

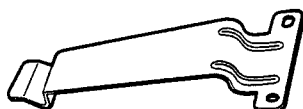
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## SUPPLIED ACCESSORIES

Carefully unpack the transceiver. We recommend that you identify the items listed in the following table before discarding the packing material. If any damage has occurred during shipment, file a claim with the carrier immediately.

Item		Part Number	Qty.
Antenna	for TK-261	T90-0450-XX	1
	for TK-361	T90-0380-XX	
NiCd battery pack		W09-0882-XX	1
Battery charger		W08-0488-XX	1
AC plug adaptor	Europe	W08-0480-XX	1
	U.K./ S. Africa	W08-0513-XX	
Belt hook		J29-0624-XX	1
Screw set		N99-0396-XX	1
Cap for speaker/ mic jacks		B09-0351-XX	1
Locking bracket for speaker-mic		J21-4493-XX	1
Warranty card		—	1
Instruction manual		B62-0772-XX	1



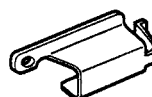
Belt hook



Cap for speaker/ mic jacks



Screw set



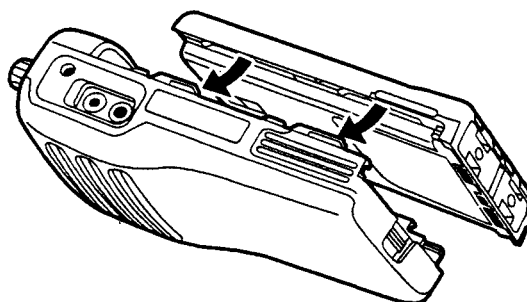
Locking bracket for  
speaker-mic

## PREPARATION

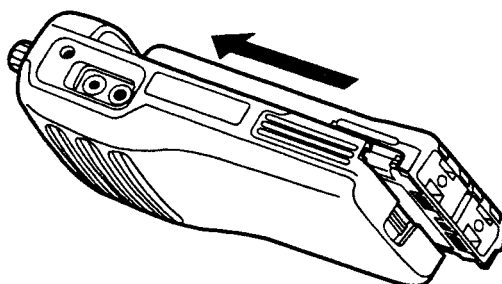
### ■ Installing/ Removing the NiCd Battery Pack

**Note:** Because the battery pack is provided uncharged, charge the battery pack before using it with the transceiver. Refer to "CHARGING THE NiCd BATTERY PACK" {page 15}.

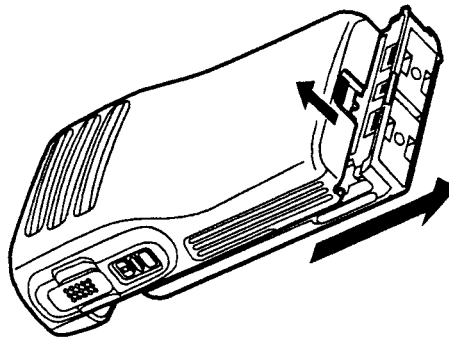
- 1 Position the four grooves on the inside edges of the battery pack over the corresponding guides on the back of the transceiver.



- 2 Slide the battery pack along the back of the transceiver until the release catch on the base of the transceiver locks the battery pack in place.



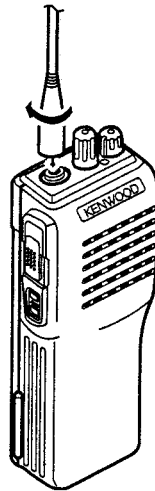
- 3 To remove the battery pack, grasp the pack near its tabs, pull back on the release catch, then slide the pack away from the transceiver.



**CAUTION:** DO NOT SHORT THE BATTERY PACK TERMINALS OR DISPOSE OF THE BATTERY BY FIRE. NEVER ATTEMPT TO REMOVE THE CASE FROM THE BATTERY PACK.

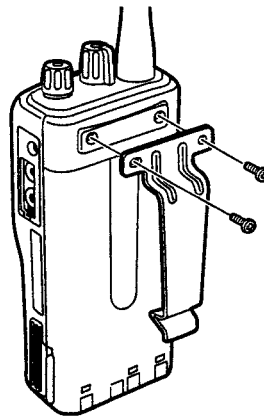
## ■ Installing the Antenna

Holding the provided antenna at its base, screw the antenna into the connector on the top panel of the transceiver.



## ■ Installing the Belt Hook

If necessary, attach the belt hook using the two 3 mm x 8 mm screws from the supplied screw set.

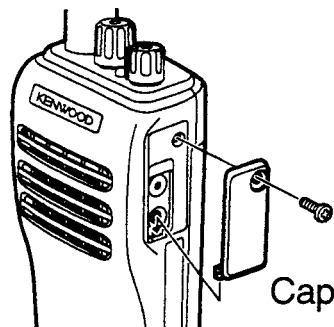


**CAUTION:** DO NOT USE GLUE WHICH IS EXCLUSIVELY DESIGNED TO PREVENT SCREW LOOSENING WHEN INSTALLING THE BELT HOOK, AS IT MAY CAUSE DAMAGE TO THE TRANSCEIVER. (ACRYLIC ESTER, WHICH IS CONTAINED IN THESE GLUES, MAY CRACK THE TRANSCEIVER'S BACK PANEL).



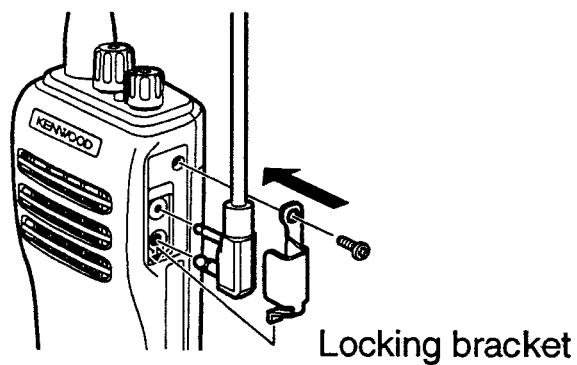
## ■ Installing the Cap over the Speaker/ Mic Jacks

Use the supplied screw (3 mm x 6 mm) to install the cap over the speaker/ mic jacks if a speaker-microphone is not used.

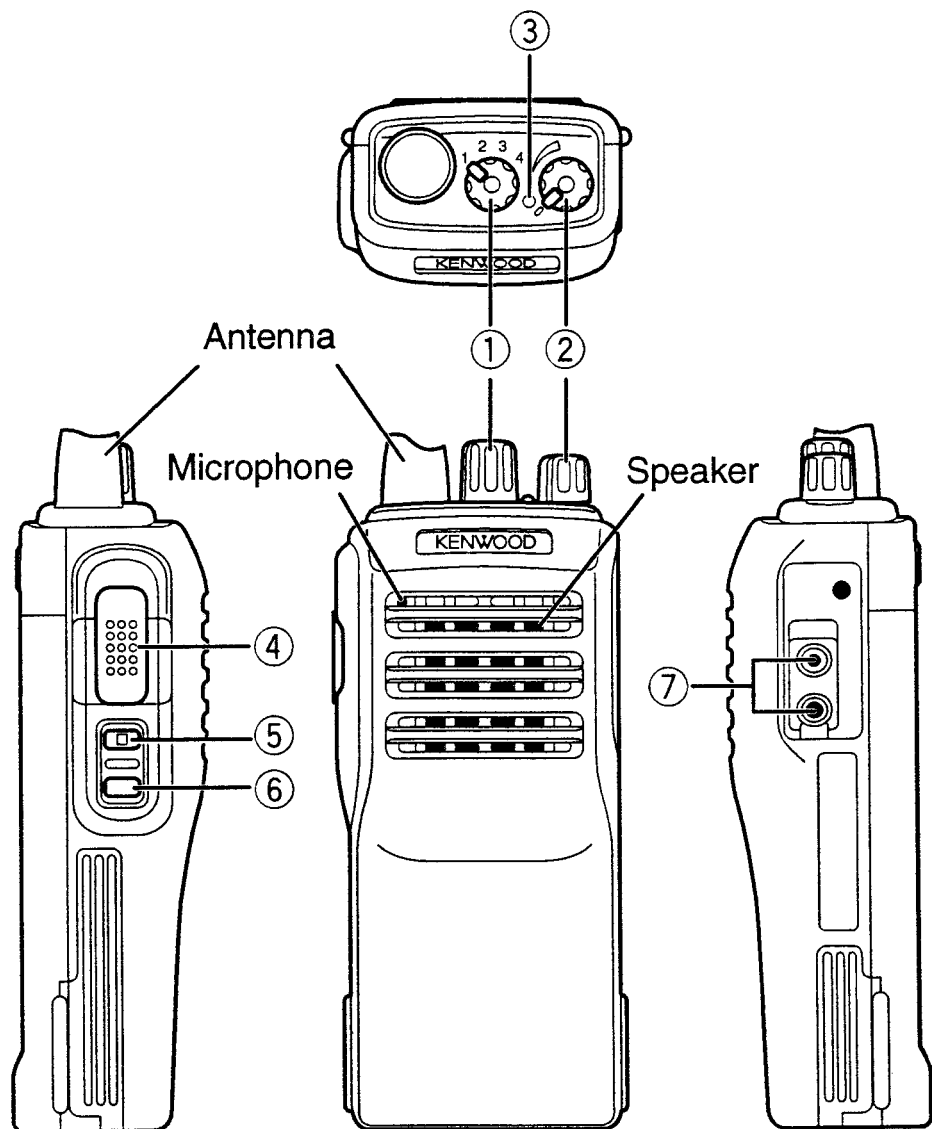


## ■ Installing the Speaker-Microphone

Insert the speaker-microphone plugs into the speaker/ mic jacks. Attach the locking bracket using the supplied screw (3 mm x 6 mm).



## GETTING ACQUAINTED



① **CHANNEL selector**

Turn clockwise or counterclockwise to select your desired channel from 4 channels programmed with frequencies.

② **PWR/VOL control**

Turn clockwise to switch ON the transceiver. Turn counterclockwise fully to switch OFF the transceiver. Also adjusts the volume level.

③ **LED indicator**

Lights red while transmitting at high power; lights orange while transmitting at low power. Lights green while receiving signals. Flashes red or orange when the battery pack voltage is low while transmitting.

④ **PTT (Push-to-Talk) switch**

Press and hold, then speak into the microphone to call another person. Release to receive signals.

⑤ **LOW button**

Press to switch between high (default) and low transmit power.

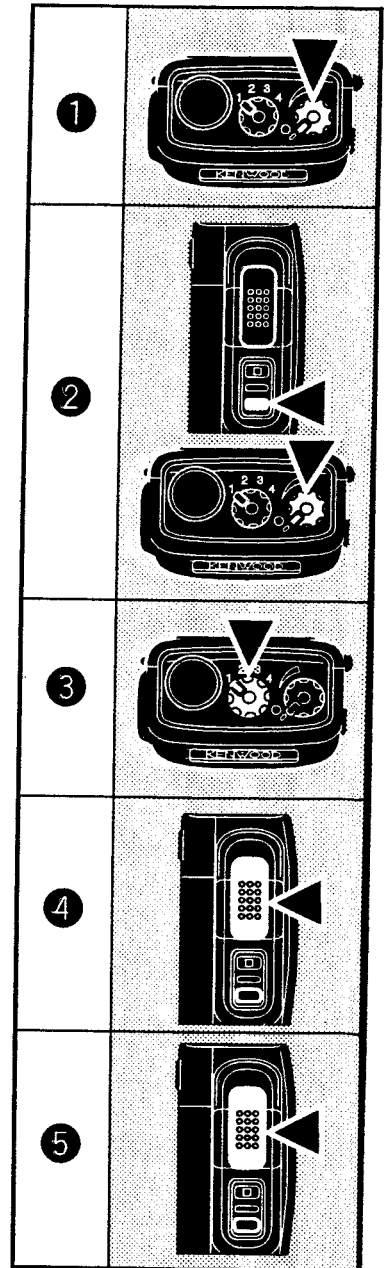
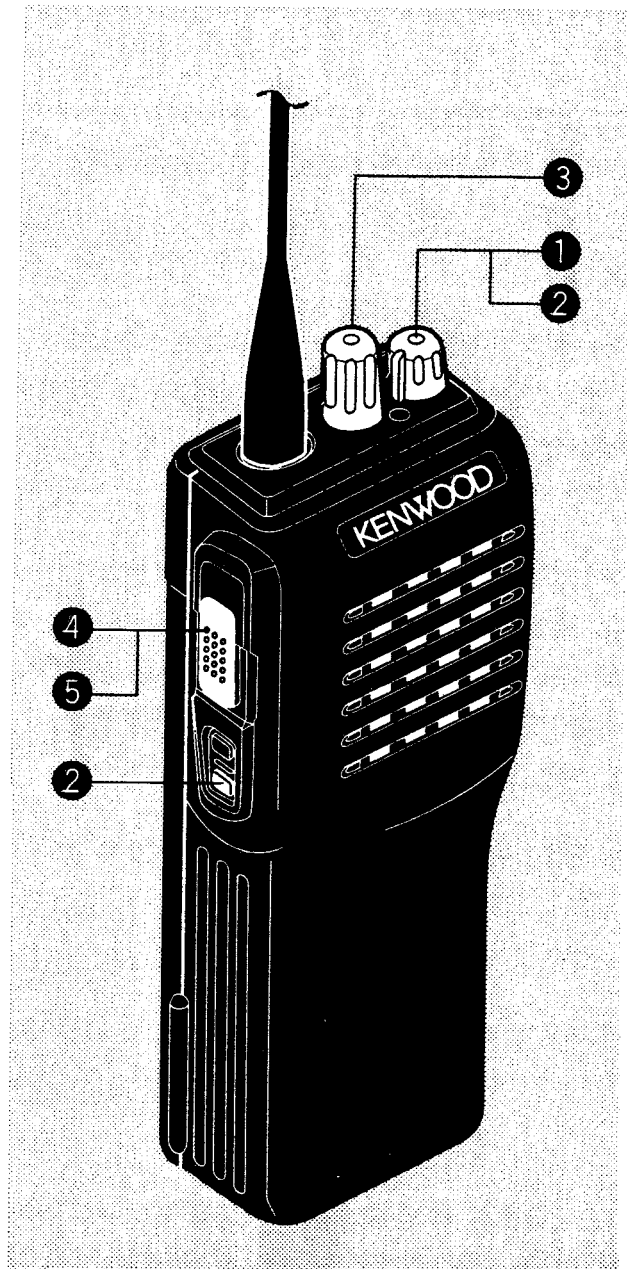
⑥ **MONI button**

Press to monitor how busy the current channel is. Also press to monitor signals being received that do not contain the matched code {page 12}.

⑦ **Speaker/ microphone jacks**

Connect an optional speaker-microphone here.

# OPERATING BASICS



① Switch ON the transceiver by turning the **PWR/VOL** control clockwise.

- A beep sounds.

② To adjust the volume, turn the **PWR/VOL** control while using **[MONI]** to listen to background noise.

- Hold down **[MONI]** to activate the Monitor function and release **[MONI]** to deactivate the function.

③ Use the **CHANNEL** selector to choose your regular operating channel.

- When you receive an appropriate signal, you will hear audio from the speaker.

④ To make a call, press and hold the **PTT** switch, then speak into the microphone in your normal speaking voice.

- Hold the transceiver about 3 to 4 cm from your lips.

⑤ Release the **PTT** switch to receive signals.

**Note:**

- ◆ The current channel has been programmed with a selective code at the factory. Refer to "QT AND DQT" {page 12}.
- ◆ When the battery pack voltage becomes low while transmitting, the LED indicator starts blinking. When the voltage drops further, a beep sounds and transmitting is disabled.

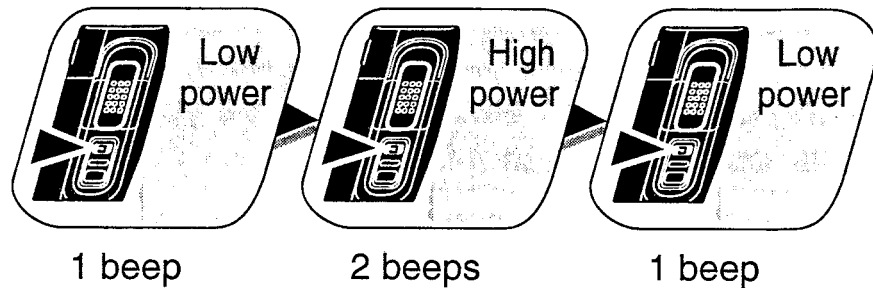
## CHANGING TRANSMIT POWER

**Note:** This function is not available in some markets.

Selecting low transmit power is a wise method to reduce battery consumption if communication is still reliable.

Press **[LOW]** to toggle high (default) or low power.

- When changing to low power, one beep sounds; when changing to high power, two beeps sound.



- The indicator lights red while transmitting at high power, or lights orange while transmitting at low power.

## TIME-OUT TIMER

The purpose of the Time-Out Timer (TOT) is to prevent the same persons from using the same channel for extended periods of time. Holding down the **PTT** switch for longer than 60 seconds causes the transceiver to stop transmitting and generate a continuous TOT tone. Releasing the switch stops the TOT tone. You can resume transmitting by pressing the **PTT** switch again.

Approximately 5 seconds before Time-Out Timer stops your transmission, the transceiver generates a warning tone that is different from the TOT tone.

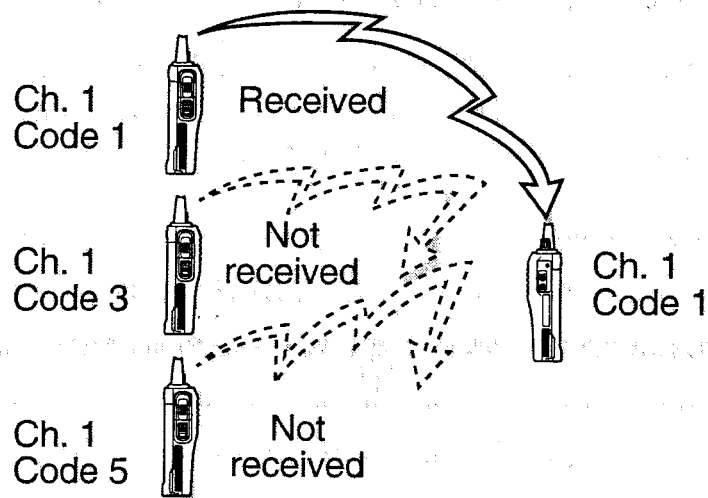
A warning tone (three beeps) sounds.

A TOT tone sounds.

Release the **PTT** switch to stop the TOT tone.

## QUIET TALK (QT) AND DIGITAL QUIET TALK (DQT)

QT and DQT are functions to reject signals from undesired persons that are using the same channel. A QT tone or DQT code is programmed in each of the 4 channels at the factory, as code 1 in ch. 1, code 10 in ch. 2, code 19 in ch. 3, and code 28 in ch. 4. After selecting one of those channels, you will hear audio from the speaker only when you receive a signal that contains the matched code.



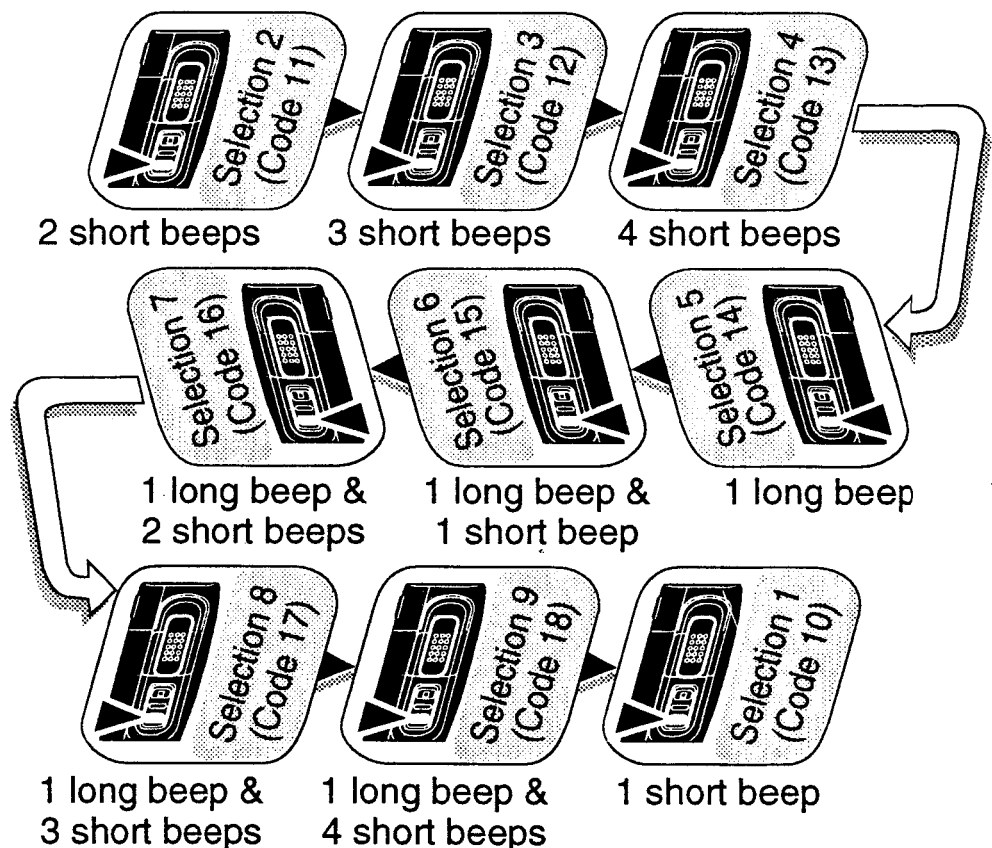
You also can change the codes programmed in the 4 channels. You can select from among the 9 codes for each channel. After changing the code, confirm that other persons in the same group also selected the same code.

	Selectable Codes								
Ch. 1	1	2	3	4	5	6	7	8	9
Ch. 2	10	11	12	13	14	15	16	17	18
Ch. 3	19	20	21	22	23	24	25	26	27
Ch. 4	28	29	30	31	32	33	34	35	36

**Note:** A QT tone is a subaudible tone selectable from 39 standard frequencies. A DQT code is a 3-digit octal number and is selectable in the range from 000 to 777.



- 1 Switch OFF the transceiver.
- 2 Press and hold **[PTT]** and **[LOW]**, then switch ON the transceiver.
- 3 Turn the **CHANNEL** selector to choose the channel.
- 4 Press **[MONI]** repeatedly until you select the desired code.
  - A different beep sequence sounds each time you select a new code. The parentheses shown under selection Nos. designate newly selected codes, assuming you selected channel 2.



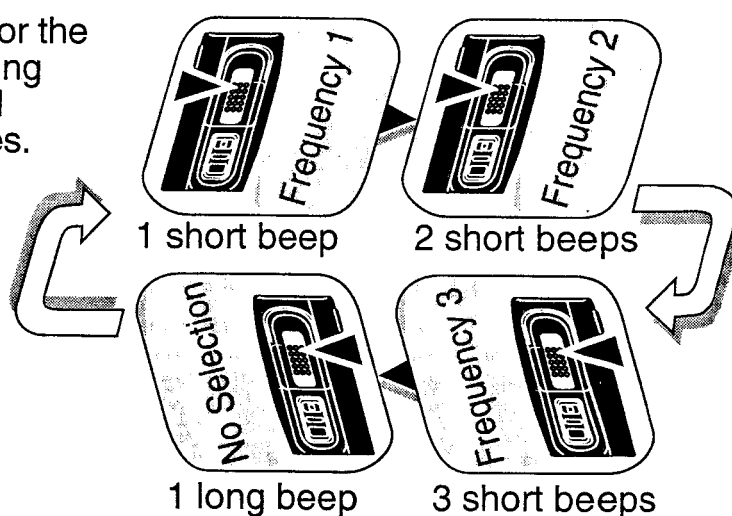
- 5 Press **[LOW]** to complete the setting.
- 6 Switch the transceiver OFF then ON to use the new setting.

## CHANGING PROGRAMMED FREQUENCIES

You can change the preprogrammed frequencies of the four channels. Select from the fixed frequency(s) to reprogram the desired channel. The number of fixed frequencies varies, depending on the market.

- 1 Switch OFF the transceiver.
- 2 Press and hold **[PTT]** and **[LOW]**, then switch ON the transceiver.
- 3 Turn the **CHANNEL** selector to choose the channel.
- 4 Press **[PTT]** repeatedly until you select the desired frequency.
  - A different beep sequence sounds each time you select a new frequency.

Example for the market using three fixed frequencies.



- The transceiver will not receive or transmit if no frequency is selected.
- 5 Press **[LOW]** to complete the setting.
  - 6 Switch the transceiver OFF then ON to use the new setting.

## CHARGING THE NiCd BATTERY PACK

You must charge the battery pack before using it with the transceiver, or after storing the pack removed from the transceiver for more than 2 months. It takes several charge/ discharge cycles before achieving the full battery pack capacity.

### **CAUTION:**

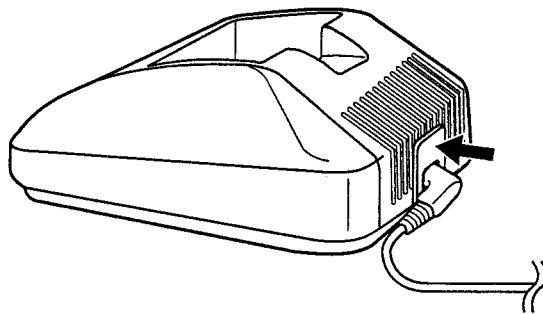
- ◆ *EXCEEDING THE SPECIFIED CHARGE PERIOD SHORTENS THE USEFUL LIFE OF THE NiCd BATTERY PACK.*
- ◆ *THE PROVIDED CHARGER IS DESIGNED TO CHARGE ONLY THE PROVIDED NiCd BATTERY PACK. CHARGING OTHER BATTERY PACKS WILL DAMAGE THE CHARGER AND BATTERY PACKS.*

### **Note:**

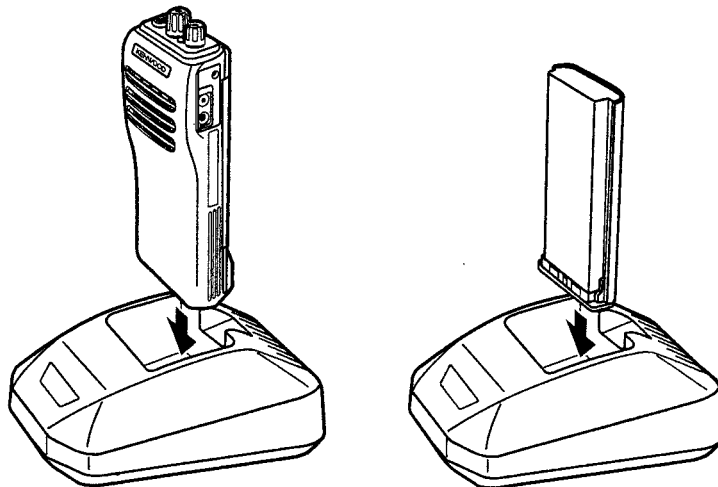
- ◆ *Charging should be done within an ambient temperature between 5°C and 40°C. Charging outside this range may not fully charge the battery.*
- ◆ *Always switch OFF the transceiver equipped with a NiCd battery pack before charging. Using the transceiver while charging its battery pack will interfere with correct charging.*
- ◆ *Repeatedly recharging a fully charged battery pack, or almost fully charged pack, shortens its operating time. To resolve this problem, use the pack until it is completely discharged. Then recharge the pack to full capacity.*
- ◆ *If the operating time of a battery pack decreases although the battery pack is fully and correctly charged, the battery pack life is over. Replace the battery pack.*

## ■ Charging Procedure

- 1 Plug the AC adaptor cable into the adaptor jack located on the rear of the charger.



- 2 Plug the AC adaptor into an AC outlet.
- 3 Slide the NiCd battery pack or the transceiver equipped with a NiCd battery pack into the charging slot.
  - Make sure that the metal contacts on the pack mate with the charging terminals.
  - The indicator lights red and charging starts.



- 4 After approximately 8 hours elapses, remove the battery pack or the transceiver from the charging slot.
  - When charging is complete, the charger does not automatically shut itself OFF.
  - Charging the pack for two or three days will not damage the pack. However, do not charge the pack for more than five days (120 hours) continuously or you risk reducing the battery pack life as a result of overcharging.
- 5 Unplug the AC adaptor from the AC outlet.

## CURRENT CHANNEL SETTINGS

Channel	Frequency	Code No.
1		
2		
3		
4		

PRODUCT SERIAL NO.: \_\_\_\_\_

DATE PURCHASED: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

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