



COBRA ELECTRONICS CORPORATION  
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# **Cobra®** **INTL75 ST**

**COMPACT REMOTE-MOUNT CB RADIO WITH**  
**KOMPAKTES, FERNMONTIERBARES CB-FUNKGERÄT MIT**  
**RADIO COMPACTA DE BANDA CIUDADANA (CB) DE MONTAJE REMOTO, CON**  
**RADIO CB DE FAIBLES DIMENSIONS A INSTALLATION A DISTANCE AVEC**  
**RICETRASMETTITORE CB COMPATTO MONTABILE A DISTANZA CON**

**SOUNDTRACKER®**  
**SYSTEM**



**"Ingenuous Products for  
Easier Communication."**



**Downloaded from [www.cbradio.nl](http://www.cbradio.nl)**

Operating instructions for your

**Cobra®**  
**INTL75 ST**  
**COMPACT REMOTE-MOUNT**  
**CB RADIO WITH**  
**SOUNDTRACKER®**  
**SYSTEM**

“Cuts Noise Coming In... Strengthens Signals Going Out”



“Ingenious Products for  
Easier Communication.”



How to use your

# **Cobra® INTL75ST**

## **CITIZENS BAND RADIO WITH SOUNDTRACKER**

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# INTRODUCTION

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## INTRODUCTION

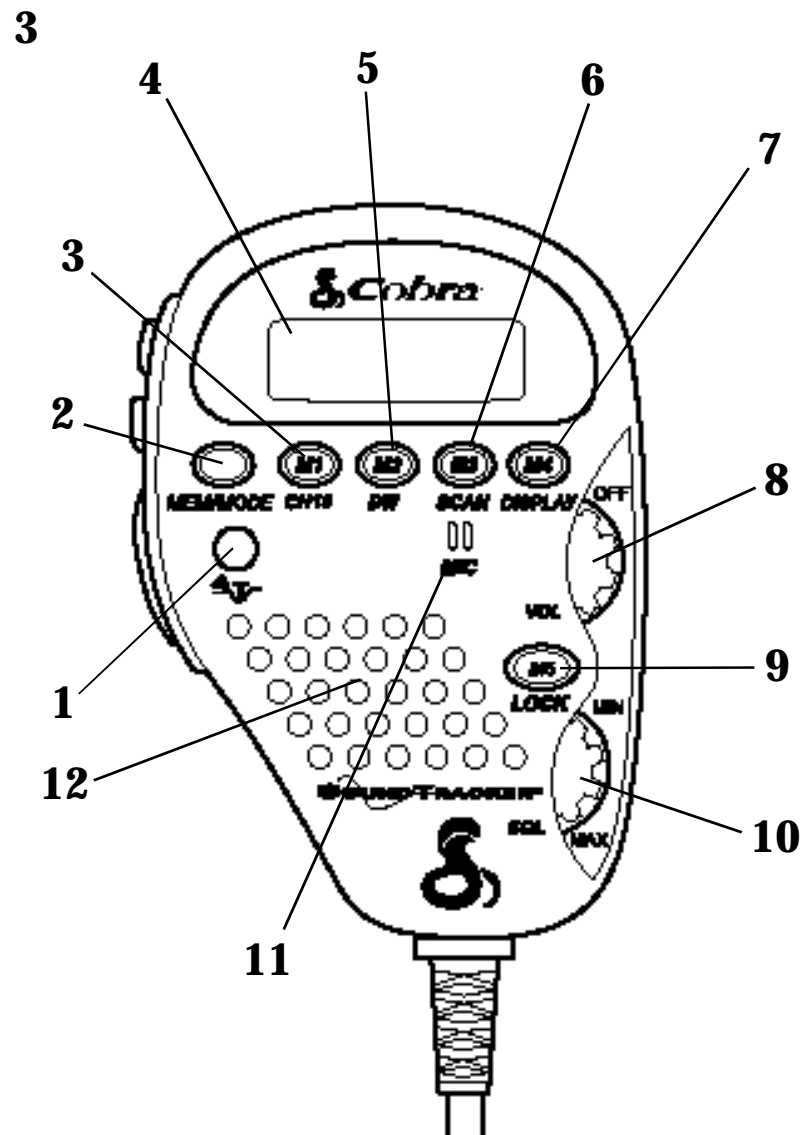
The Cobra INTL75ST is the ultimate in remote-mount CB transceivers and features the SoundTracker system which dramatically eliminates annoying static to deliver crisp, clear sound quality. The 75's compact, state-of-the-art design provides consistent, outstanding performance in almost all conditions or situations. To get the best performance from your Cobra INTL75ST, please read these operating instructions fully, before using the unit.

## FEATURES

- SoundTracker System
- 40 European (CEPT) CB Radio Channels
- One-touch Channel 19
- Remote-Mount Installation System
- Full-Featured LCD Display Panel
- Squelch Control
- Key Lock
- Channel Saver Circuitry
- Dual Watch Channel Monitor
- Full Channel Scan
- Five Memory Locations
- 3 metre (10-Foot) Flexible Cord
- Quick-Disconnect

# INTRODUCTION

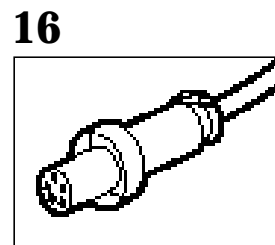
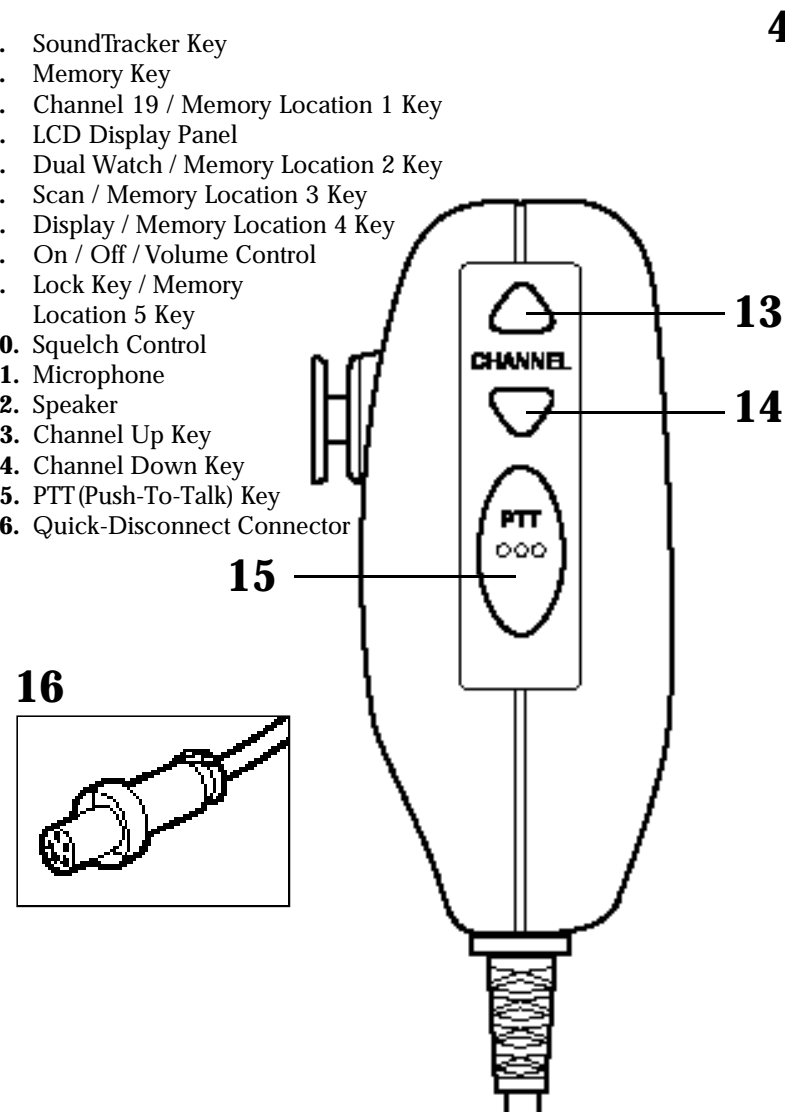
## CONTROLS AND INDICATORS



1. SoundTracker Key
2. Memory Key
3. Channel 19 / Memory Location 1 Key
4. LCD Display Panel
5. Dual Watch / Memory Location 2 Key
6. Scan / Memory Location 3 Key
7. Display / Memory Location 4 Key
8. On / Off / Volume Control
9. Lock Key / Memory Location 5 Key
10. Squelch Control
11. Microphone
12. Speaker
13. Channel Up Key
14. Channel Down Key
15. PTT (Push-To-Talk) Key
16. Quick-Disconnect Connector

# INTRODUCTION

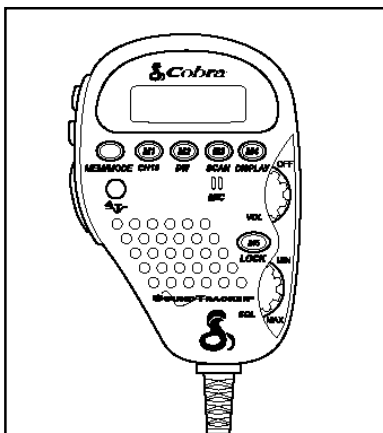
## CONTROLS AND INDICATORS



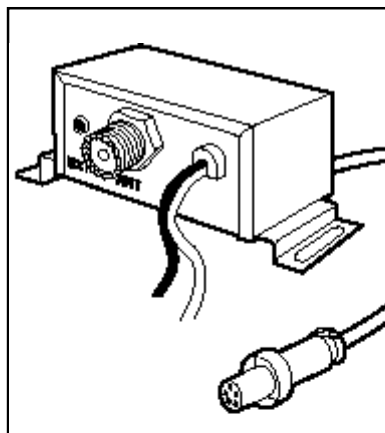
## INTRODUCTION

### COMPONENTS INCLUDED

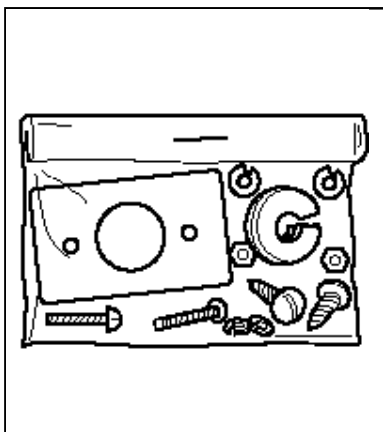
5



INTL75ST Transceiver



Connector Box



Installation Hardware



Operating Manual

## INSTALLATION

### CONNECTOR BOX LOCATION

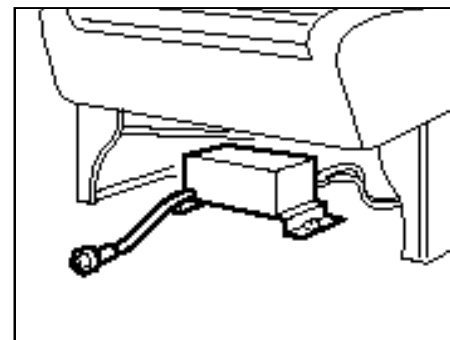
6

#### LOCATION

Mount your Cobra INTL75ST Connector Box in a convenient location, away from moisture and direct sunlight, in a location that will not interfere with driving.

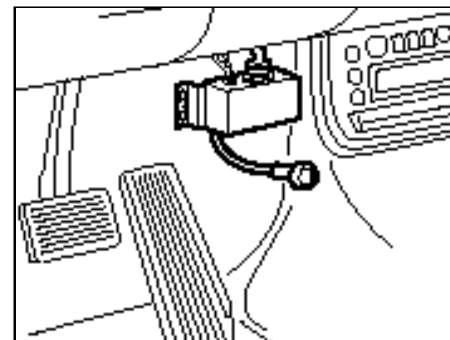
Cobra suggests mounting it either under the front seat or on the front bulkhead.

#### UNDER THE FRONT SEAT INSTALLATION



#### FRONT BULKHEAD INSTALLATION

**NOTE:** Do not mount under the bonnet, near heat ducts or directly in line with heater ducts.



# INSTALLATION

## CONNECTOR BOX LOCATION

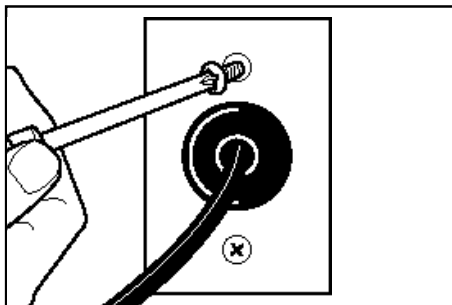
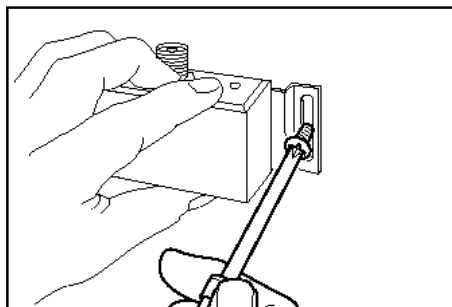
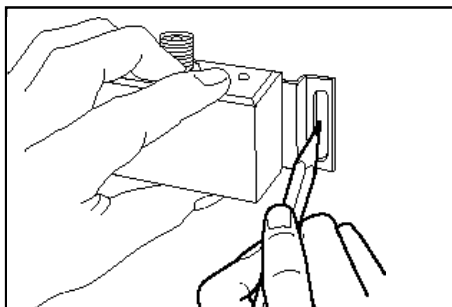
7

### MOUNTING CONNECTOR BOX

1. Hold Cobra INTL75ST Connector Box in exact location desired for mounting.
2. Using it as a template, mark the location for the mounting screws (included).

**NOTE:** Make certain that nothing will interfere with the installation of the mounting screws, before drilling holes.

3. Mount Connector Box as shown.



### MOUNTING THROUGH FRONT BULKHEAD

1. Drill hole through bulkhead.
2. Bolt plate and grommet to bulkhead.
3. Push cable through grommet.

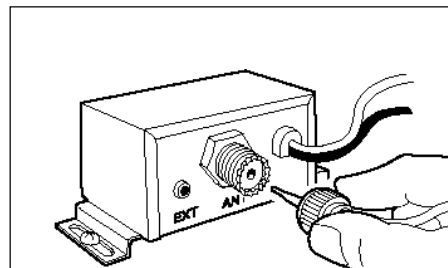
# INSTALLATION

## CONNECTOR BOX

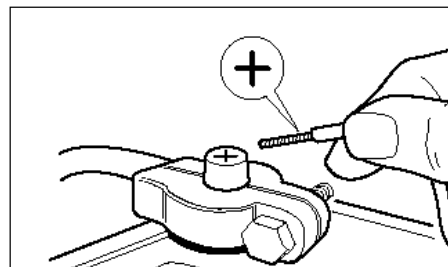
8

### CONNECTING WIRES

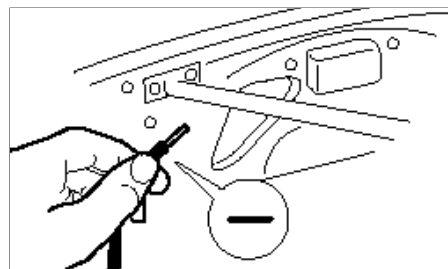
1. Connect the antenna cable connector.



2. Connect the red wire marked "BATT" (+) directly to the positive side of the battery or to a connection on the fuse-box that is always live.



3. Connect the black wire marked (-) "Earth" to the negative side of the car, usually the chassis. Any other location with good electrical contact (paint removed) will also work.



The INTL75ST is designed for 12 VDC, negative ground vehicles only.

**CAUTION:** If the INTL75ST is connected to a constant 12-volt source, leaving it switched on after the engine is turned off may drain the car battery. If the INTL75ST is connected to an accessory 12-volt source, it will switch off when the engine is turned off, and reset to Channel 1.

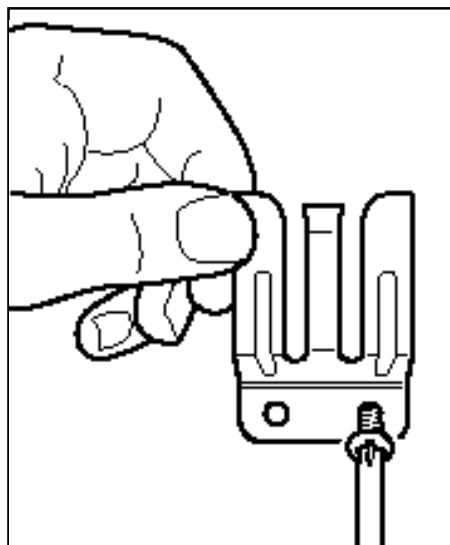
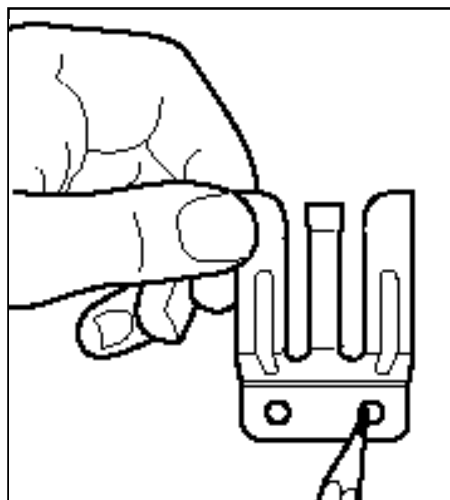
# INSTALLATION

## CB HANGER

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### INSTALLING CB HANGER

1. Hold CB hanger in location desired for mounting. Make certain that nothing will interfere with the hanger's installation.
2. Mark the location for the two mounting screws (screws included).
3. Drill holes and mount CB hanger.



# INSTALLATION

## CB ANTENNA

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### CB ANTENNA INSTALLATION

For the most reliable operation and maximum range, Cobra recommends using a vertically polarized, quarter wavelength whip antenna (illustration A).

Shorter, loaded-type whips are adequate when maximum range is not required (illustration B).

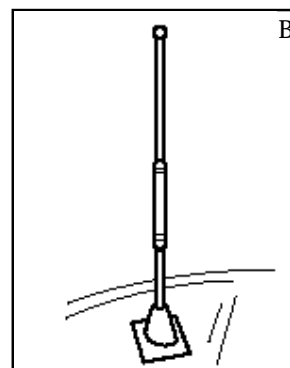
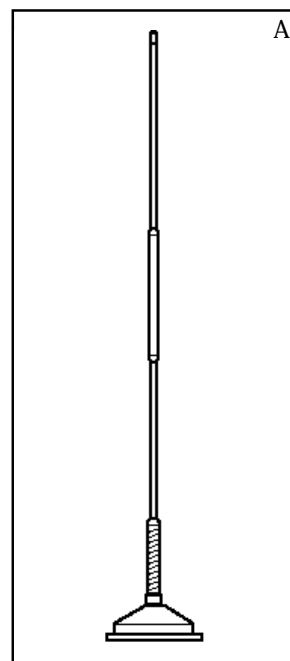
**NOTE:** Mobile installations (cars, vans, lorries, boats, etc) should be made only with a non-directional antenna system.

- A standard antenna connector (Type SO-239) is provided on the Connector Box for easy connection to a standard PL-259 cable termination.

- Cobra antenna models are recommended; see your local CB dealer.

- For maximum efficiency in boat installations, an earthing plate is required, unless the vessel has a steel hull. Consult your CB dealer for information regarding an adequate earthing system.

- Be sure that the antenna is properly connected and tuned (SWR) to the radio before transmitting. Prolonged transmitting without an antenna, or use of a poorly matched antenna, could cause damage to the transmitter.

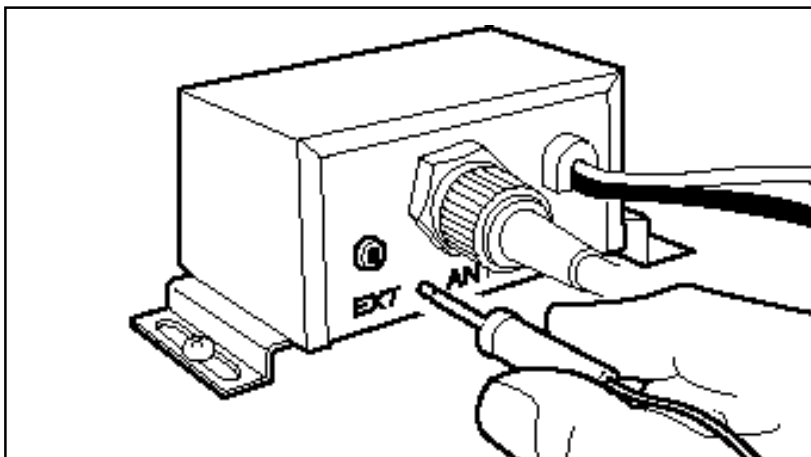


# INSTALLATION

## SPEAKERS/NOISE INTERFERENCE

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### EXTERNAL SPEAKER INSTALLATION



1. Mount external speaker in desired location.\*
2. Plug jack into the socket marked EXT on the back of the Connector Box.

\*The external speaker should have 4-8 ohms impedance and be able to handle at least 4 watts.

### IGNITION NOISE INTERFERENCE

The alternator and ignition system in your vehicle may limit your ability to receive low signal levels. Other noise interference can be the result of several different installation variables. Consult your Cobra dealer or a 2-way radio technician to help locate and correct the source of severe noise interference.

# OPERATION

## HOW SOUNDTRACKER WORKS

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### SOUNDTRACKER SYSTEM

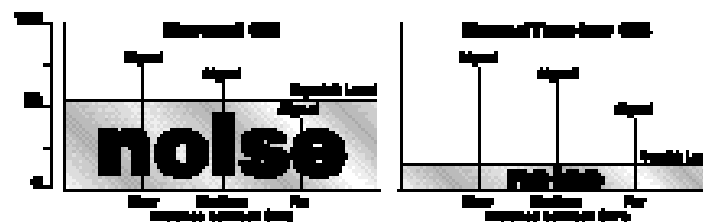
While previous systems only “blanked out” or limited noise in higher sound frequencies, the revolutionary new SoundTracker System actually reduces noise while leaving the signal intact in the reception mode. In the transmission mode, it actually strengthens the signal, providing you with a significant reduction in noise on reception and transmission.

Sound clarity is measured by the ratio of the signal level to the noise level. The higher the signal-to-noise ratio, the better the sound.

### HOW SOUNDTRACKER WORKS

#### On Reception – “Cuts Noise Coming In”

With a normal CB, distant signals fall below the squelch level and are unintelligible. With a SoundTracker CB, the noise level is cut by up to 90%, which increases the signal-to-noise ratio and dramatically improves signal clarity. This also allows you to significantly reduce the squelch level, which greatly expands your listening range.



#### On Transmission – “Strengthens Signals Going Out”

A SoundTracker CB strengthens the transmit signal by more effectively using the available RF power output of the CB. The result is improved transmission signal clarity and an expanded transmission range.



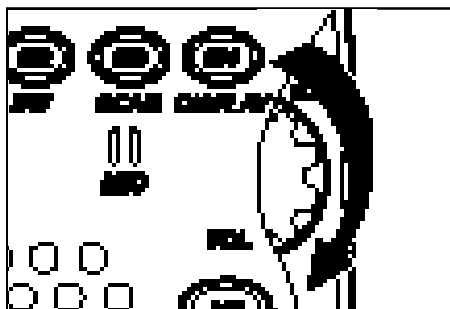
## OPERATION

### TURNING CB ON

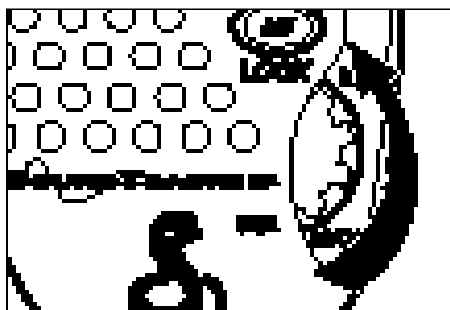
13

#### TURNING YOUR CB ON

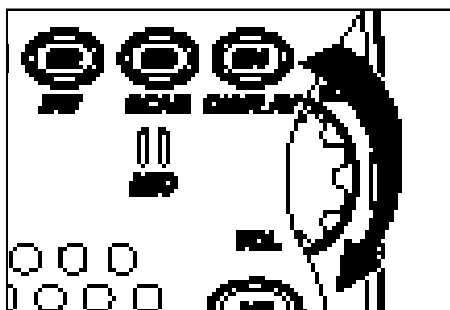
1. Rotate the power ON-OFF Volume Control clockwise.



2. Turn the Squelch Control anticlockwise until noise is heard.



3. Adjust volume to a comfortable level.



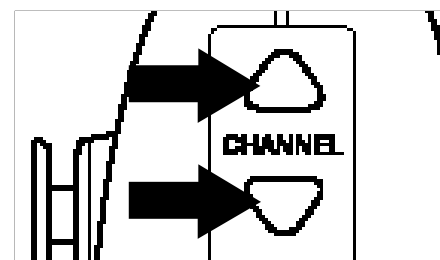
## OPERATION

### SELECTING A CHANNEL

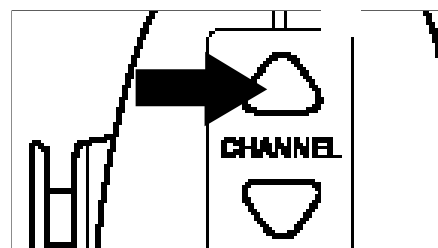
14

#### SELECTING A CHANNEL

1. Change channels by pressing either the channel ▲ up or channel ▼ down key .



2. To quick-advance channels, press and hold either key.



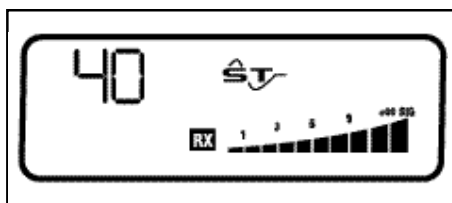
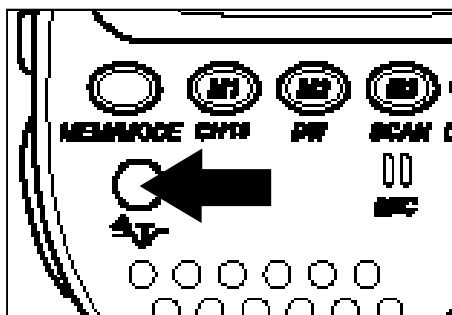
## OPERATION

### ACTIVATING SOUNDTRACKER

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#### ACTIVATING SOUNDTRACKER

1. Depress the Sound-Tracker key.
2. **ST** will be displayed on the LCD readout.



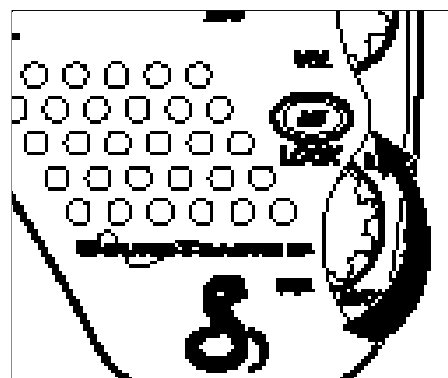
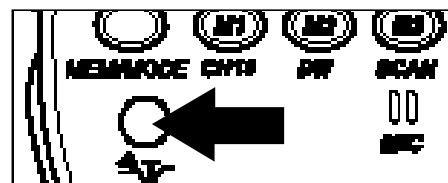
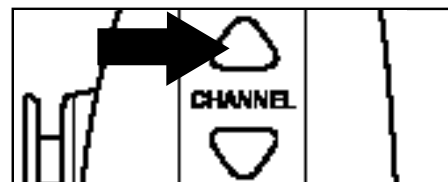
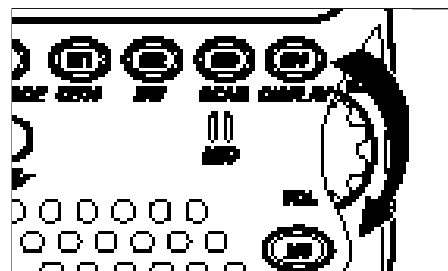
## OPERATION

### SETTING THE SQUELCH

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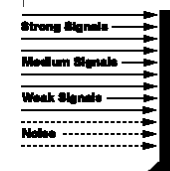
#### SETTING THE SQUELCH

1. Turn CB on by turning the volume control clockwise. Adjust the volume to a comfortable level.
2. Before setting the squelch control on your radio, you must select a channel that is not in use.
3. Turn on SoundTracker.



To achieve the **Desired Squelch Setting (DSS):**

4. Think of your Squelch Control as a gate for incoming signals. If you turn the Squelch Control fully clockwise, it raises the "squelch gate" so high that no signals get through.

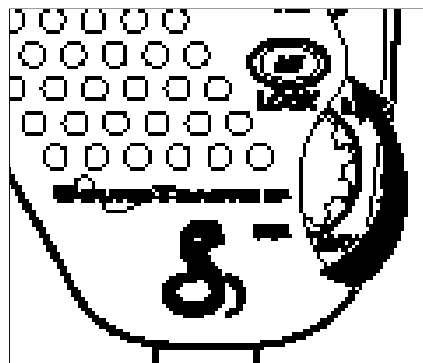
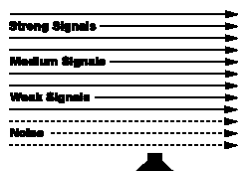


## OPERATION

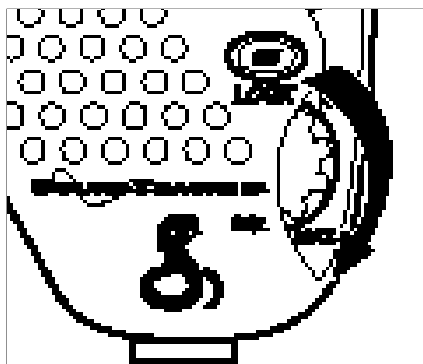
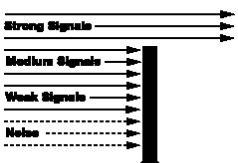
### SETTING THE SQUELCH

17

5. If you turn the squelch control fully anticlockwise, it lowers the "squelch gate" so low that everything gets through - noise, weak signals and strong signals.



6. To set the "squelch gate" to the DSS (Desired Squelch Setting), turn the squelch control anticlockwise until you hear noise. Then turn the squelch control back clockwise until the noise just stops. Now only signals as strong as or stronger than the gate setting can pass through the gate and be heard.

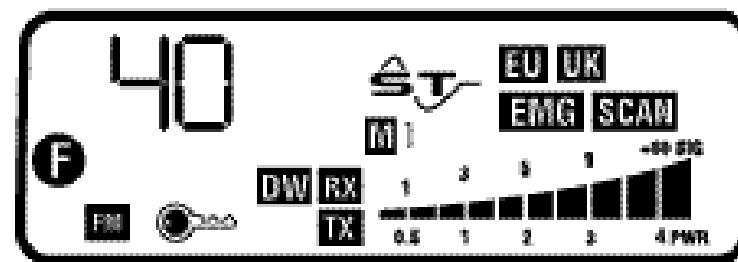


The Desired Squelch Setting, **(DSS)** only allows actual transmissions to come through. This effectively blocks out unwanted noise.

## OPERATION

### LCD READOUT

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### LCD DISPLAY

Your Cobra INTL75ST CB is designed with a liquid crystal display that indicates channel number, frequency and the operating mode.

2-digit channel display / 5-digit frequency display

**[M]** = Memory Indicator

**[SCAN]** = Scan Indicator

**[DW]** = Dual Watch Indicator

**[LOCK]** = Lock Key Indicator

Memory Channel Number

**[EMG]** = Instant Channel 19

**(F)** = Function key indicator

**[EU]** = European (CEPT) Band

**[FM]** = Frequency Modulation

**[RX]** = Receive Indicator

**[ST]** = SoundTracker indicator

**[TX]** = Transmit Indicator

Signal Strength Meter

**NOTE:** To avoid damaging the LCD display, do not subject your CB radio to extreme temperatures (below -20°C or above 60°C) for extended periods of time.

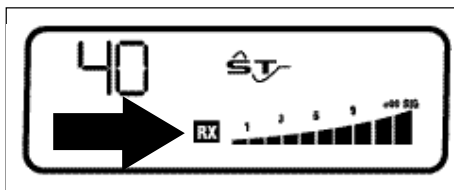
# OPERATION

## TRANSMIT/RECEIVE

### 19

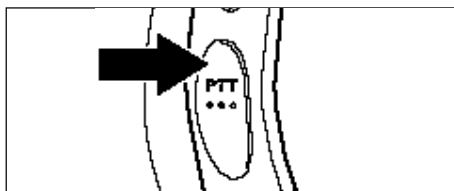
#### TO RECEIVE

1. Your INTL75ST is automatically in the receive mode and **RX** is illuminated.

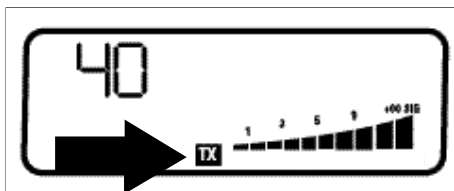


#### TO TRANSMIT

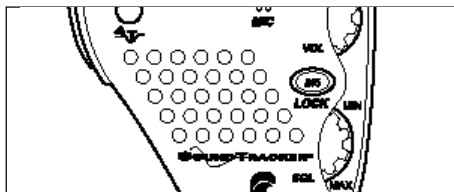
1. Press the Press-To-Talk (PTT) key.



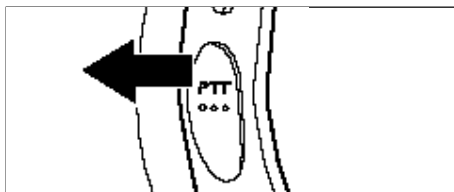
2. The **TX** icon will appear



3. Hold the microphone about 2 inches from your mouth and speak in a normal voice.



4. Release the PTT button and you will automatically be in the receive mode again.



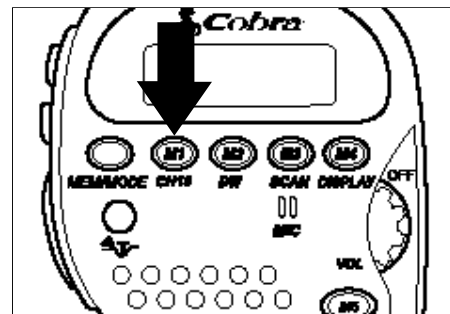
# OPERATION

## ONE-TOUCH CHANNEL 19

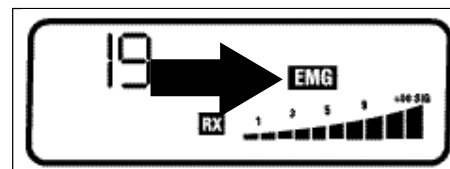
### 20

#### INSTANT CHANNEL 19

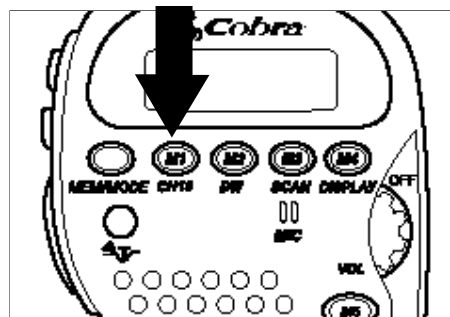
1. To access instant channel 19, press Channel 19 key once.



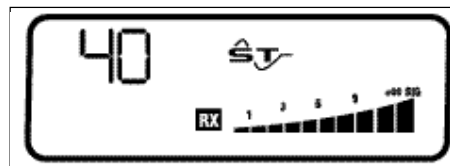
2. You are now on instant channel 19 and the **EMG** icon will appear.



3. Press CH 19 again to return to the original channel selected.



4. Original channel



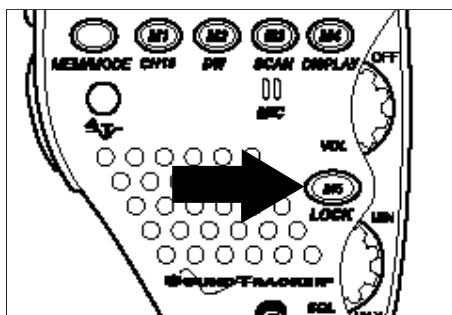
## OPERATION


### KEY LOCK

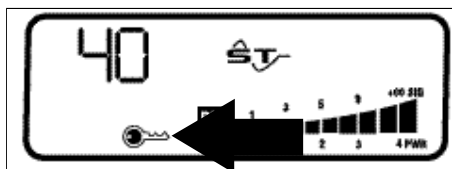
# 21

### KEY LOCK

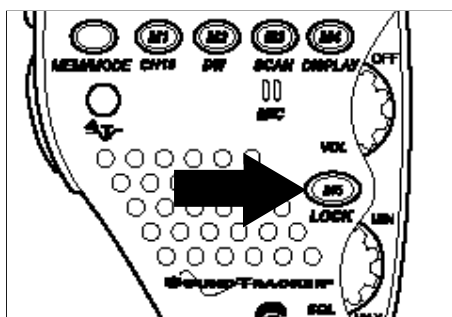
1. Press Key Lock button to prevent unintentional channel changing.



2. You are now locked and the  icon will appear.



3. Press Key Lock button again to deactivate.



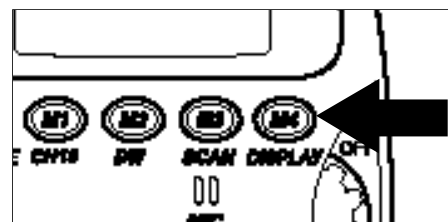
## OPERATION

### CHANNEL SCAN

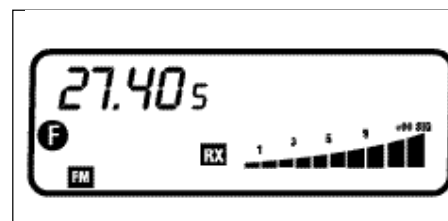
# 22

### 5-DIGIT FREQUENCY DISPLAY

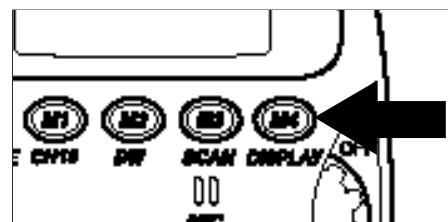
1. Press and release Display key.



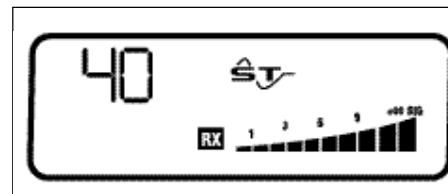
2. Display will change to the 5-digit frequency of the channel selected.



3. Press and release Display key.



4. Display will change back to channel display.



## OPERATION

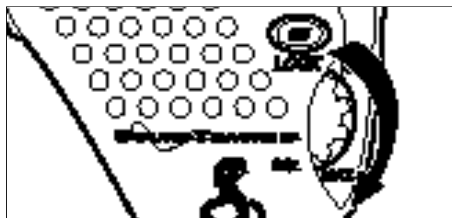
### CHANNEL SCAN

# 23

#### ALL-CHANNEL SCAN

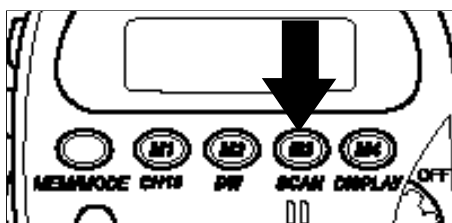
1. Set Squelch Control (SQL) to the DSS (Desired Squelch Setting).

\*See page 16 to set DSS.

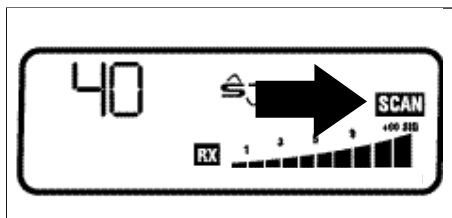


2. Press and release Scan key\*. When activity is found on a channel, scanning will stop.

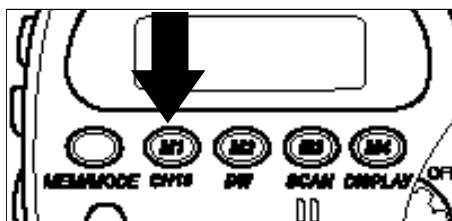
\* Unit will begin to scan all 40 channels within selected band (EU or UK). Press and hold SCAN key for 2 seconds.



3. Scan icon will appear.



4. Press any key to stop scanning sequence.



**NOTE:** The INTL75ST will stop scanning and monitor a channel when it receives an incoming transmission. Five seconds after the transmission stops, the INTL75ST will resume the scanning function. To resume scan during REC mode, press Scan key again twice.

## OPERATION

### CHANNEL SAVER/MEMORY CHANNELS

# 24

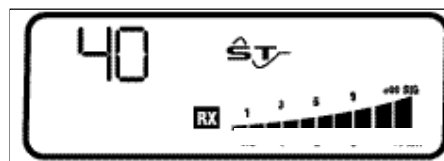
#### CHANNEL SAVER FEATURE\*

Automatically retains the last channel used when CB is turned off and returns you to that channel when CB is turned back on.

\*For this feature to function, the red wire must be directly connected to either:

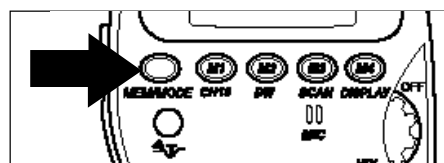
1. Positive (+) battery terminal.
  2. Connection on the fuse-box that is always live.
- See installation section for details.

**NOTE:** If the INTL75ST is connected to a constant 12-volt source, leaving it switched on after the engine is turned off may drain the car battery.

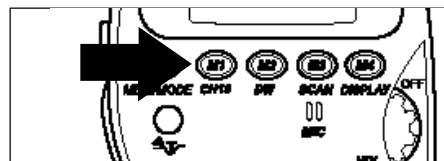


#### SAVING CHANNELS IN MEMORY

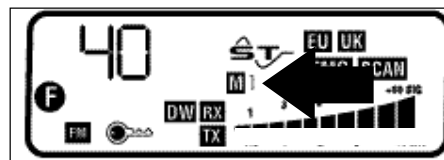
1. Select desired channel to store in memory.



2. Press and release the Memory key.



3. Press and hold the desired Memory Location key to lock channel into memory.



4. The Memory Location will appear on the display.

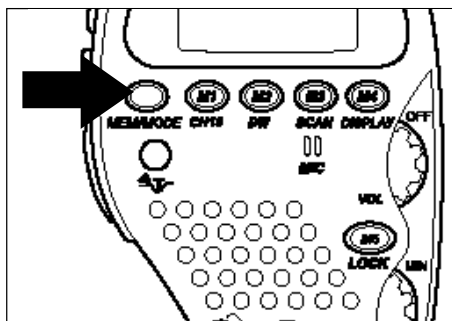
## OPERATION

### MEMORY CHANNELS

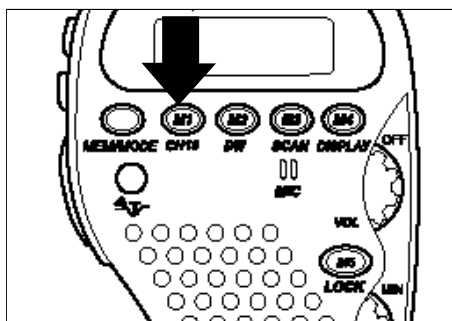
25

#### RETRIEVING CHANNELS FROM MEMORY

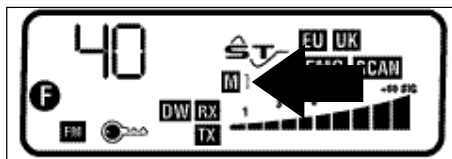
1. Press and release the Memory key.



2. Press and release the desired Memory Location key.



3. The channel in the memory location will be recalled.



4. Repeat to recall other Memory Locations.

## OPERATION

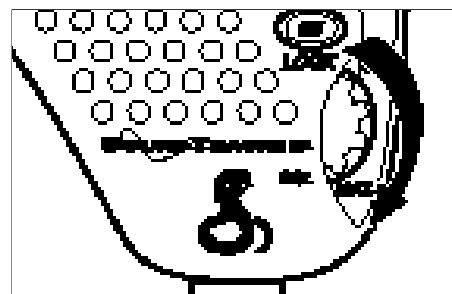
### DUAL WATCH

26

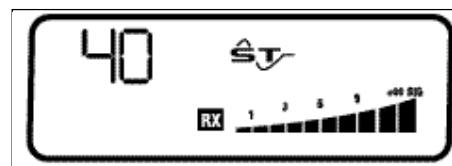
#### DUAL WATCH

Allows you to monitor any two preselected channels at the same time.

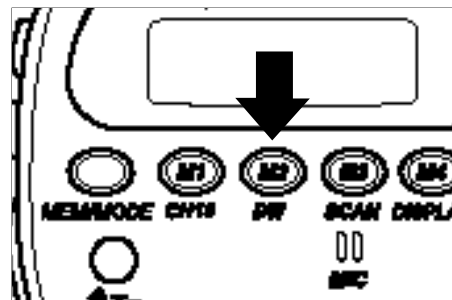
1. Adjust squelch (SQL) setting to the DSS level (see page 16).



2. Set CB to one of the channels you wish to monitor.



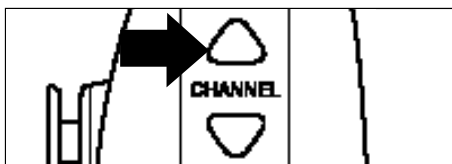
3. Press and hold the DW key until a beep is heard.



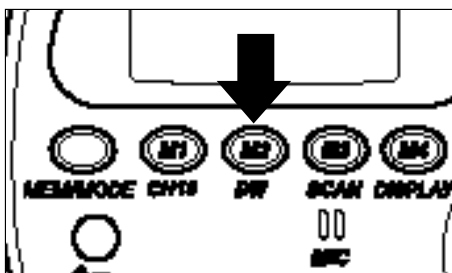
# OPERATION DUAL WATCH

## 27

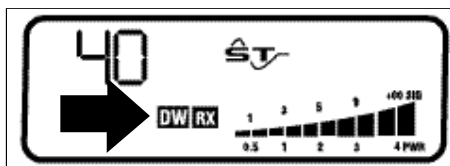
4. Select second channel.



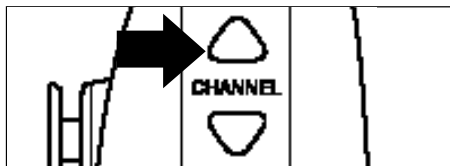
5. Press and hold DW key until a beep is heard.



6. The **DW** icon appears and monitoring begins.



7. Press any key to stop monitoring function.



**NOTE:** The INTL75ST will alternate between both channels until it receives an incoming transmission. Five seconds after the transmission stops, it will again alternate between both channels.

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### HOW YOUR CB CAN SERVE YOU

- Warn of traffic delays ahead.
- Provide weather and road information.
- Provide help fast in event of emergency or breakdown.
- Suggest good spots to eat and sleep.
- Make long trips more interesting, and help keep you awake.
- Provide direct contact (subject to conditions) with your office or home.
- Let you make friends as you travel.
- Provide local information to find your destination.
- Let you communicate with friends and family during outdoor activities.

### A FEW RULES YOU SHOULD KNOW

1. You should not carry on a conversation with another station for more than five minutes at a time without taking a one-minute break to give others a chance to use the channel.
2. You should not blast others off the air by overpowering them with illegally amplified transmitter power or illegally high antennas.
3. You should not use the CB to promote illegal activities.
4. You should not use bad language.
5. You should not play music over your CB.
6. You should not use your CB to sell merchandise or professional services.

**THE USE OF THIS CB PRODUCT INVOLVES THE PUBLIC AIRWAYS AND ITS USE MAY BE SUBJECT TO LOCAL LAWS, REGULATIONS, AND ORDINANCES. BEFORE USING THE PRODUCT YOU SHOULD CHECK TO SEE THAT THE CONTEMPLATED USE DOES NOT VIOLATE ANY LOCAL LAW, REGULATION OR ORDINANCE THAT MAY BE APPLICABLE.**



## 29

### CB 10-CODES

Citizens Band radio operators have largely adopted the “10-code” for standard questions and answers. Its use permits faster communications and better understanding in noisy areas. The following table lists some of the more common codes and their meanings:

Code	Meaning	Code	Meaning
10-1	Receiving poorly	10-37	Breakdown truck needed at
10-2	Receiving well	10-38	Ambulance needed at
10-3	Stop transmitting	10-39	Your message delivered
10-4	OK, message received	10-41	Please turn to channel
10-5	Relay message	10-42	Traffic accident at
10-6	Busy, stand by	10-43	Traffic delay at
10-7	Out of service, leaving air	10-44	I have a message for you
10-8	In service, subject to call	10-45	All units within range please report
10-9	Repeat message	10-50	Break channel
10-10	Transmission completed, standing by	10-60	What is next message number?
10-11	Talking too rapidly	10-62	Unable to copy, use phone
10-12	Visitors present	10-63	Net directed to
10-13	Advise Weather/Road conditions	10-64	Net clear
10-16	Make pick up at	10-65	Awaiting your next message/assignment
10-17	Urgent business	10-67	All units comply
10-18	Anything for us?	10-70	Fire at
10-19	Nothing for you, return to base	10-71	Proceed with transmission in sequence
10-20	My location is	10-77	Negative contact
10-21	Call by telephone	10-81	Reserve hotel room for
10-22	Report in person to	10-82	Reserve room for
10-23	Stand by	10-84	My telephone number is
10-24	Completed last assignment	10-85	My address is
10-25	Can you contact	10-91	Talk closer to mike
10-26	Disregard last information	10-93	Check my frequency on this channel
10-27	I am moving to channel	10-94	Please give me a long count
10-28	Identify your station	10-99	Mission completed, all units secure
10-29	Time is up for contact	10-200	Police needed at
10-30	Does not conform		
10-32	I will give you a radio check		
10-33	EMERGENCY TRAFFIC		
10-34	Trouble at this station		
10-35	Confidential information		
10-36	Correct time is		

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### FREQUENCY RANGE

Your COBRA transceiver represents one of the most advanced FM two-way radios used. This unit features advanced Phase Lock Loop (PLL) circuitry providing complete coverage of 40 European (CEPT) CB channels as shown below.

European (CEPT) CB Channel	Channel Freq. in MHz	European (CEPT) CB Channel	Channel Freq. in MHz
1	26.965	21	27.215
2	26.975	22	27.225
3	26.985	23	27.255
4	27.005	24	27.235
5	27.015	25	27.245
6	27.025	26	27.265
7	27.035	27	27.275
8	27.055	28	27.285
9	27.065	29	27.295
10	27.075	30	27.305
11	27.085	31	27.315
12	27.105	32	27.325
13	27.115	33	27.335
14	27.125	34	27.245
15	27.135	35	27.355
16	27.155	36	27.365
17	27.165	37	27.375
18	27.175	38	27.385
19	27.185	39	27.395
20	27.205	40	27.405

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**INTL75ST SPECIFICATIONS****GENERAL**

CHANNELS	CB - EUROPEAN (CEPT) 40 CH
FREQUENCY RANGE	CB - EUROPEAN (CEPT): 26.965 TO 27.405 MHz
FREQUENCY TOLERANCE	± 500 Hz
FREQUENCY CONTROL	PLL (PHASE LOCK LOOP) SYNTHESIZER
OPERATING TEMPERATURE RANGE	-20°C TO + 60°C
MICROPHONE	ELECTRET, PUSH-TO-TALK
INPUT VOLTAGE	13.2 V d.c., EXTERNAL
ANTENNA CONNECTOR	SO 239
METER	LCD DISPLAY, ICONS
SIZE	L 70 mm x W 48 mm x H 108 mm (L 2 3/4" x W 1 7/8" x H 4 1/4")
WEIGHT	453g (1 LB.)

**TRANSMITTER**

POWER OUTPUT	4.0 W AT 13.2 V d.c.
MODULATION	FM
FREQUENCY RESPONSE	300 - 3000 Hz AT -6 dB
OUTPUT IMPEDANCE	50 OHMS, UNBALANCED

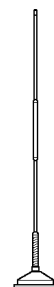
**RECEIVER**

CB	
SENSITIVITY	LESS THAN 6 dB $\mu$ V FOR 20 dB Sinad
IF FREQUENCY	DUAL CONVERSION
	1ST - 10.690 MHz, 2ND - 455 kHz
AUDIO OUTPUT	500 mW MAXIMUM AT 10 % THD
FREQUENCY RESPONSE	300 - 3000 Hz AT -6 dB
2ND IF IMAGE REJECTION	GREATER THAN 70 dB
ADJACENT CH. REJECTION	60 dB MIN.
FREQUENCY CONTROL	PLL (PHASE LOCK LOOP)

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**OPTIONAL ACCESSORIES**

You can find these high-quality accessories at your local Cobra CB dealer.



High-Performance  
Magnetic-Mount  
CB Antenna.  
ATW-400



Remote connector box.  
AC-701



1.5 m (4-foot) extension  
cord.  
AC-702