



COBRA ELECTRONICS CORPORATION
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Cobra® **UK75 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 INSTALACION A DISTANCIA AVEC
RICETRASMETTITORE CB COMPATTO MONTABILE A DISTANZA CON

SOUNDTRACKER®
SYSTEM



**“Ingenious Products for
Easier Communication.”**



Operating instructions for your

Cobra®

UK75 ST

**COMPACT REMOTE-MOUNT
CB RADIO WITH**

**SOUNDTRACKER®
SYSTEM**

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



“Ingenious Products for
Easier Communication.”





INTRODUCTION

How to use your



UK75ST

CITIZENS BAND RADIO WITH SOUNDTRACKER

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INTRODUCTION

The Cobra UK75ST 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 UK75ST, please read these operating instructions fully, before using the unit.

FEATURES

- Complies with UK MPT 1382
- SoundTracker System
- 40 European (CEPT) and 40 UK FM 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

NOTICE

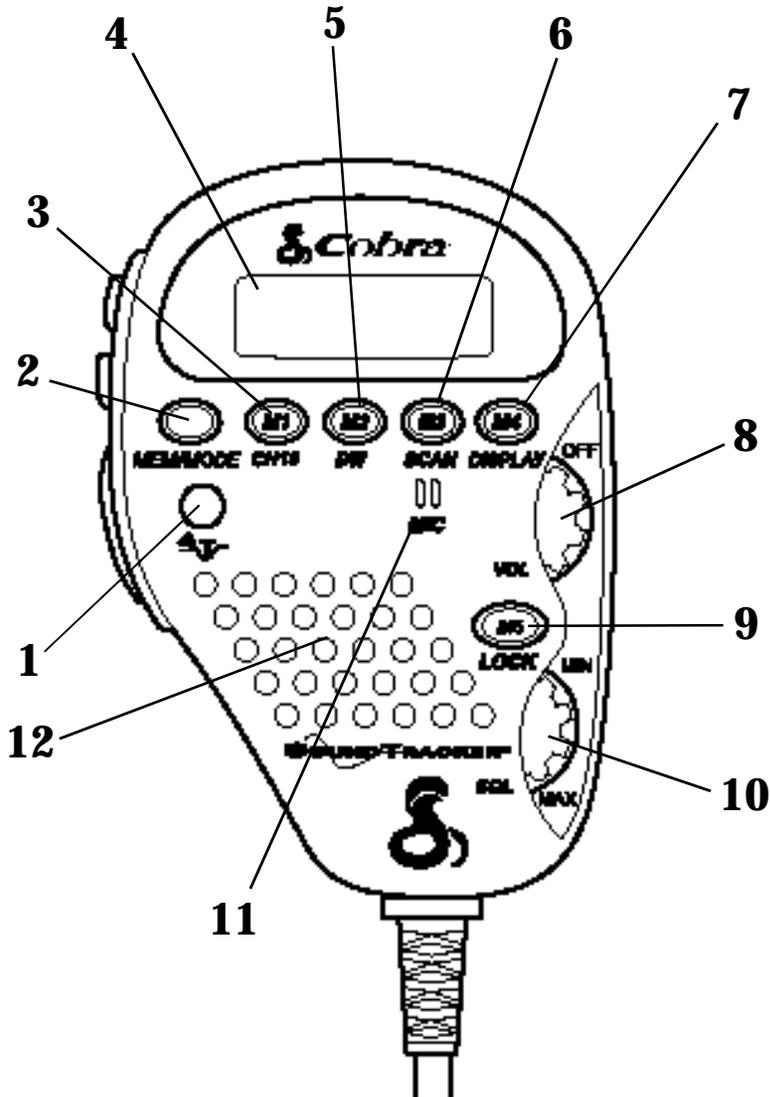
A licence is required for use in the UK. Please contact your local CB dealer for additional information.



INTRODUCTION

CONTROLS AND INDICATORS

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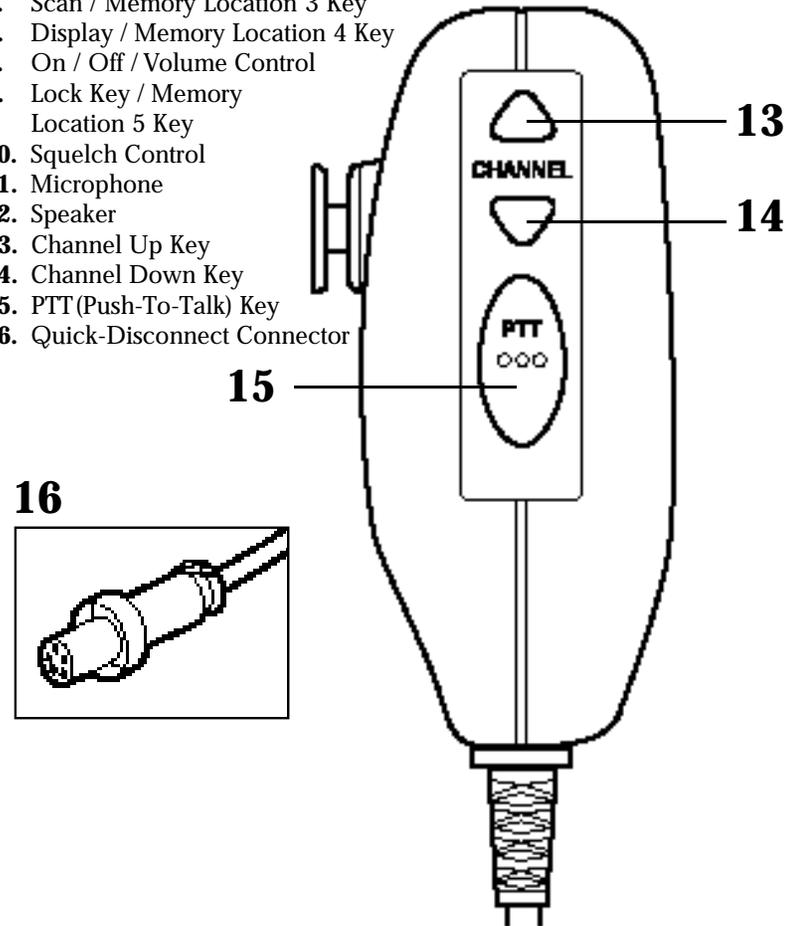


INTRODUCTION

CONTROLS AND INDICATORS

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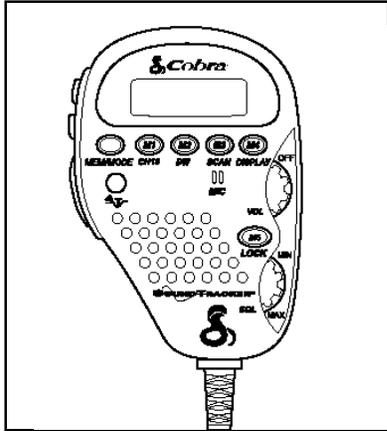
1. SoundTracker Key
2. Memory Key
3. Channel 19 / Memory Location 1 Key
4. LCD Display Panel
5. Dual Watch / Memory Location 2 Key
6. Scan / Memory Location 3 Key
7. Display / Memory Location 4 Key
8. On / Off / Volume Control
9. Lock Key / Memory Location 5 Key
10. Squelch Control
11. Microphone
12.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



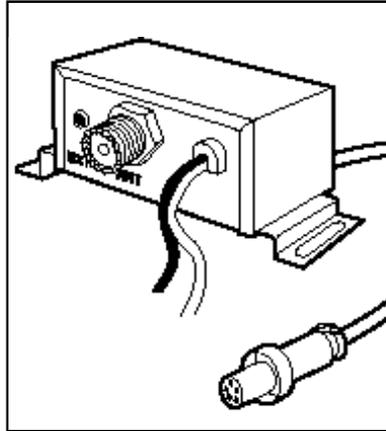
INTRODUCTION

COMPONENTS INCLUDED

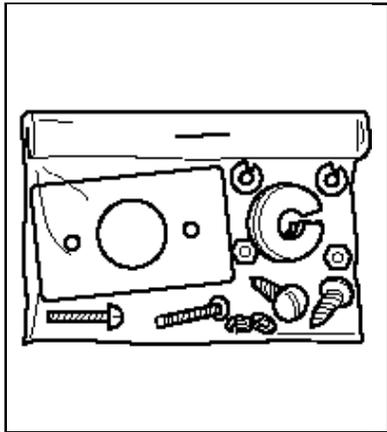
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UK75ST Transceiver



Connector Box



Installation Hardware



Operating Manual

INSTALLATION

CONNECTOR BOX LOCATION

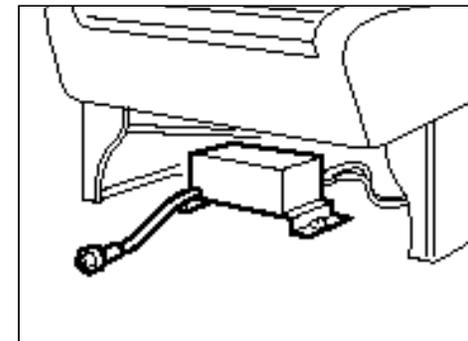
6

LOCATION

Mount your Cobra UK75ST Connector Box in a convenient location, away from moisture and direct sunlight, in a location that will not interfere with driving.

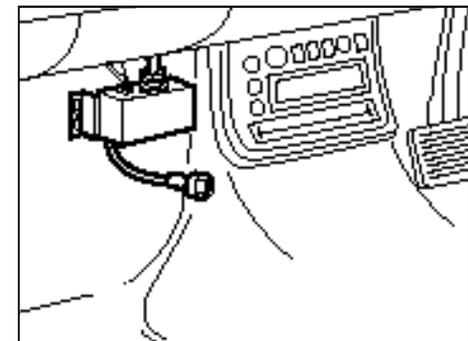
Cobra suggests mounting it either under the front seat or on the front bulkhead.

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

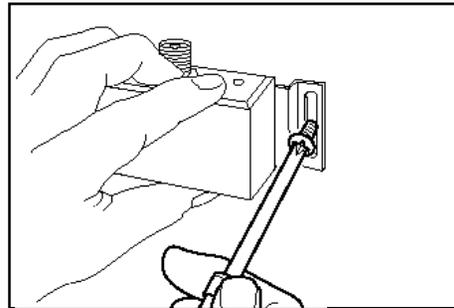
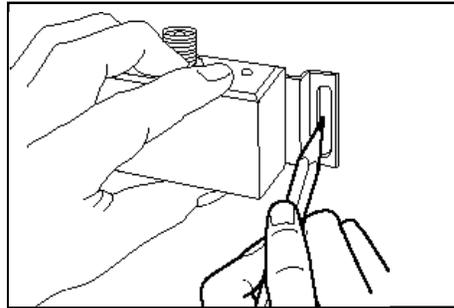
7

MOUNTING CONNECTOR BOX

1. Hold Cobra UK75ST Connector Box in exact location desired for mounting.
2. Using it as a template, mark the location for the mounting screws (included).

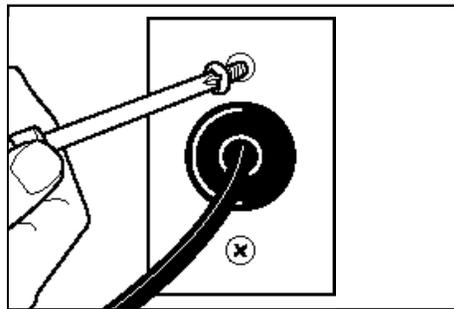
NOTE: Make certain that nothing will interfere with the installation of the mounting screws, before drilling holes.

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.



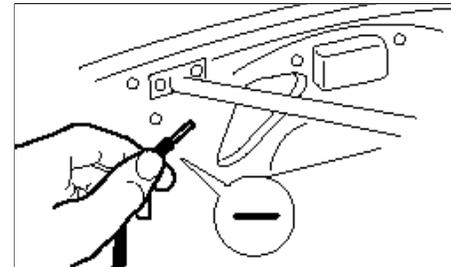
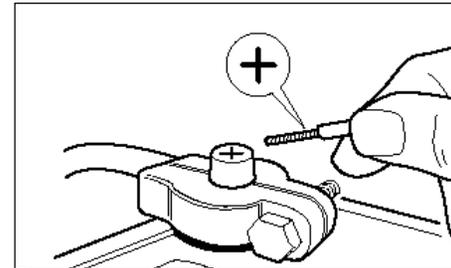
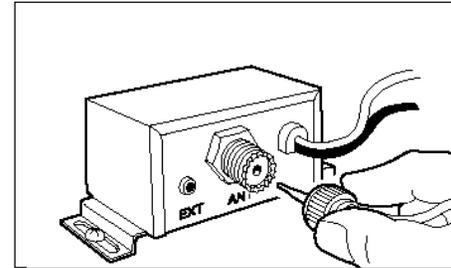
INSTALLATION

CONNECTOR BOX

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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 UK75ST is designed for 12 VDC, negative ground vehicles only.

CAUTION: If the UK75ST 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 UK75ST is connected to an accessory 12-volt source, it will switch off when the engine is turned off, and reset to Channel 1.

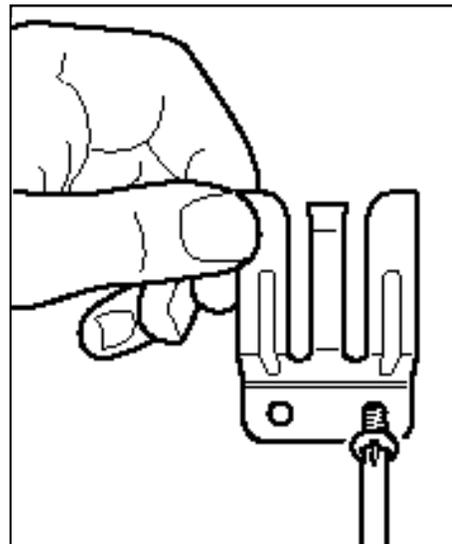
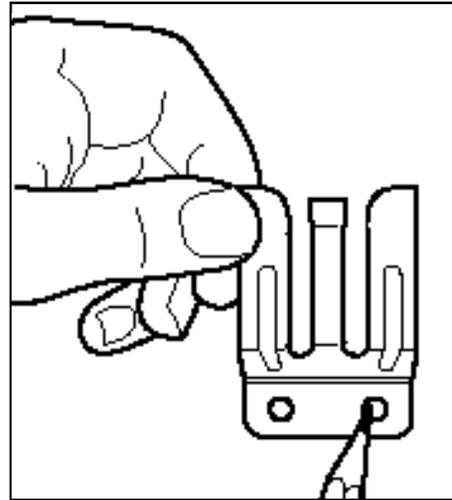
INSTALLATION

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).

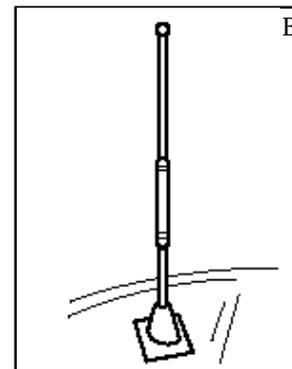
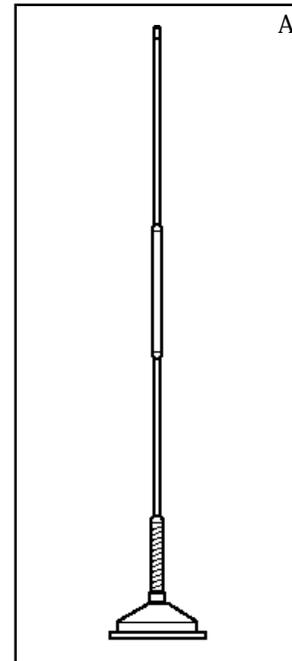
NOTE: Mobile installations (cars, vans, lorries, boats, etc) should be made only with a non-directional antenna system.

- 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 or order directly from Cobra.

- 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.

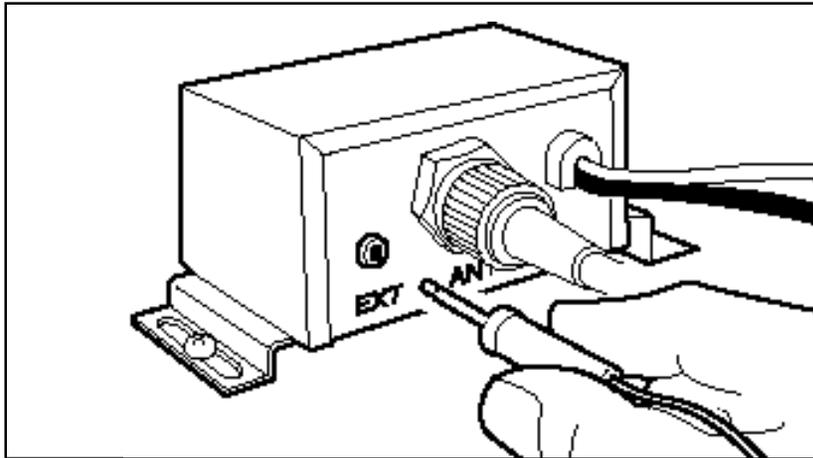


INSTALLATION

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

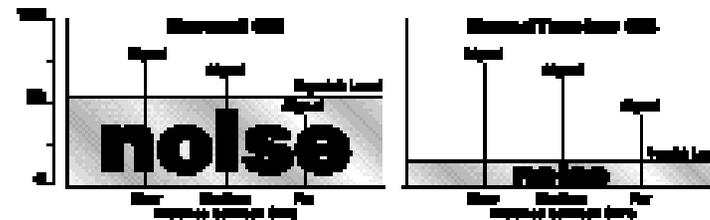
While previous systems only “blanked out” or limited noise in higher sound frequencies, the revolutionary new SoundTracker System actually reduces noise while leaving the signal intact in the reception mode. In the transmission mode, it actually strengthens the signal, providing you with a significant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

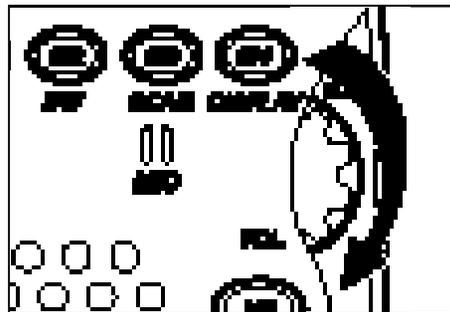
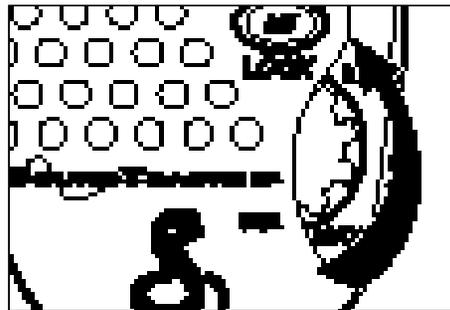
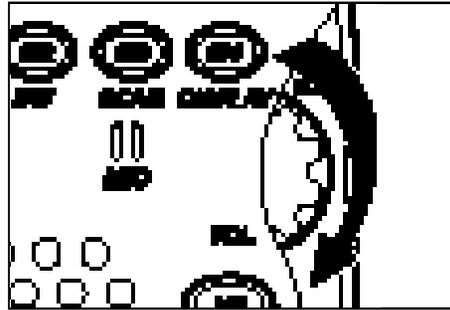
OPERATION

TURNING CB ON

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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.



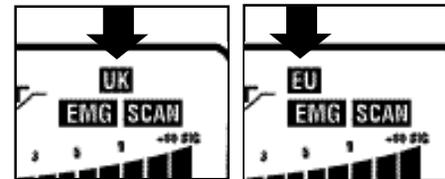
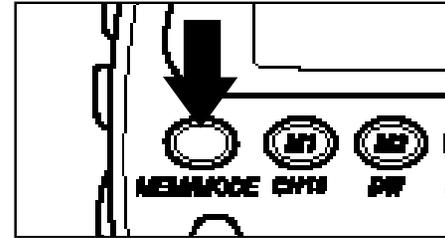
OPERATION

SELECTING A CHANNEL

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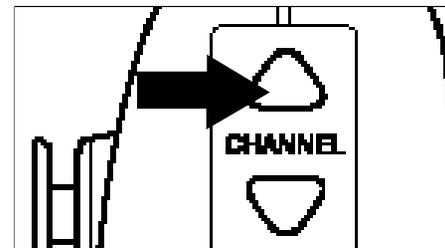
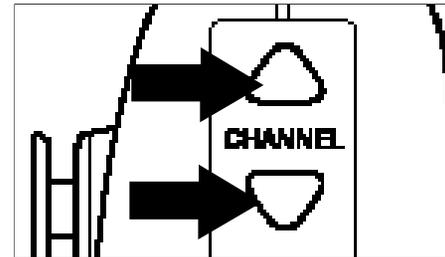
SELECTING MODE (UK - EU)

1. Press and hold MEM/MODE key to select proper mode
2. Selected mode icon **UK** or **EU** will display.



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.



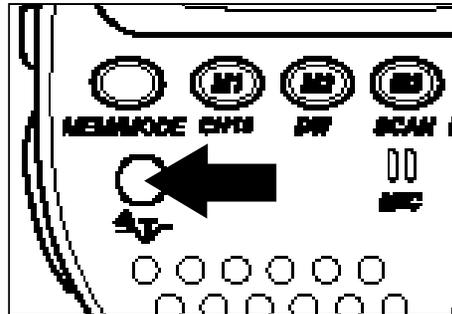
OPERATION

ACTIVATING SOUNDTRACKER

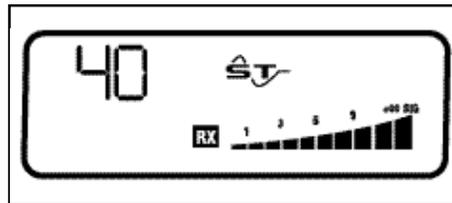
15

ACTIVATING SOUNDTRACKER

1. Depress the Sound-Tracker key.



2. **ST** will be displayed on the LCD readout.



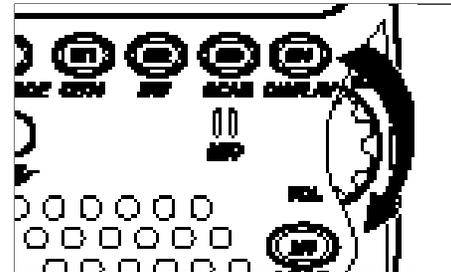
OPERATION

SETTING THE SQUELCH

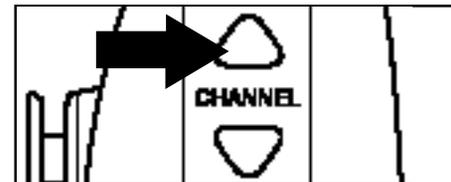
16

SETTING THE SQUELCH

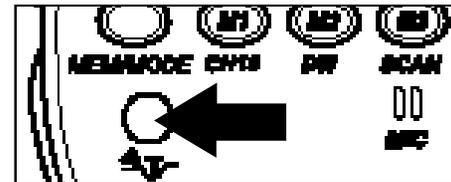
1. Turn CB on by turning the volume control clockwise. Adjust the volume to a comfortable level.



2. Before setting the squelch control on your radio, you must select a channel that is not in use.

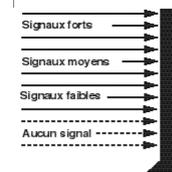


3. Turn on SoundTracker.



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.

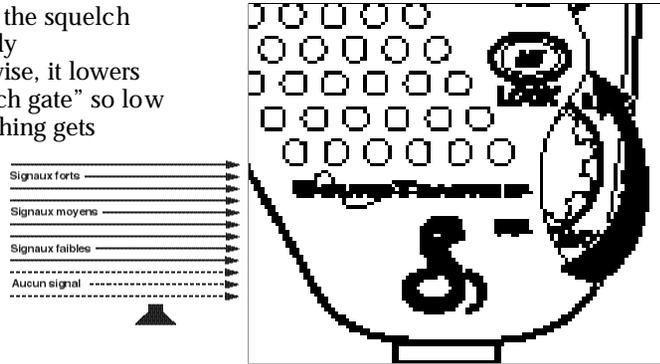


OPERATION

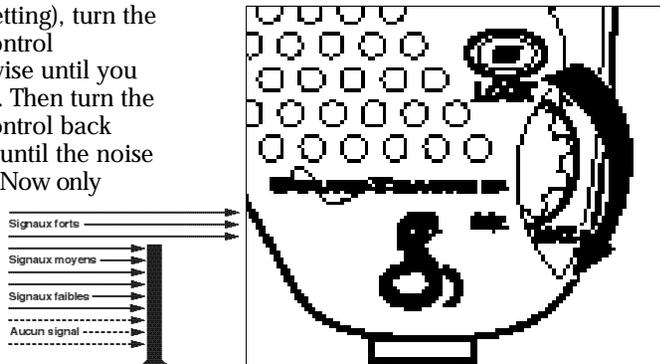
SETTING THE SQUELCH

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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.

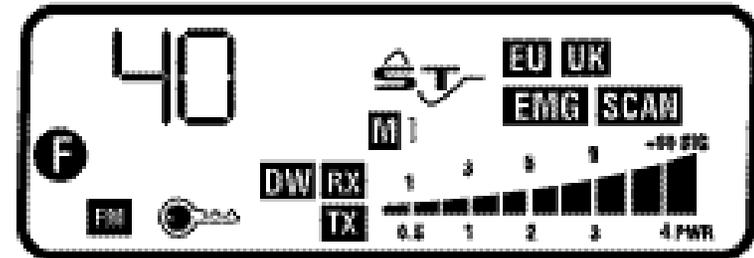


The Desired Squelch Setting, **(DSS)** only allows actual transmissions to come through. This effectively blocks out unwanted noise.

OPERATION

LCD READOUT

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LCD DISPLAY

Your Cobra UK75ST 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

[Key] = Lock Key Indicator

Memory Channel Number

EMG = Instant Channel 19

F = Function key indicator

EU = European (CEPT) Band

UK = UK 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.

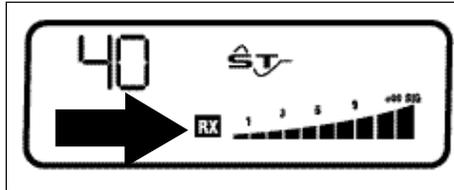
OPERATION

TRANSMIT/RECEIVE

19

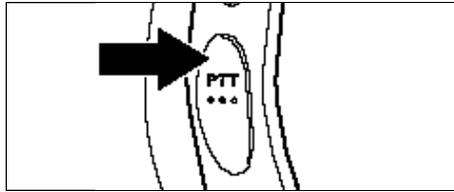
TO RECEIVE

1. Your UK75ST is automatically in the receive mode and **RX** is illuminated.

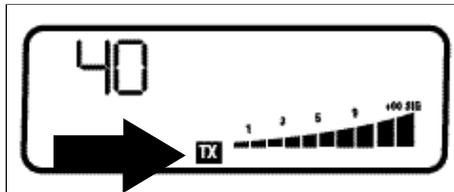


TO TRANSMIT

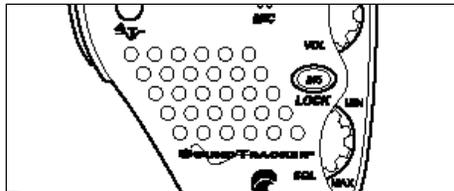
1. Press the Press-To-Talk (PTT) key.



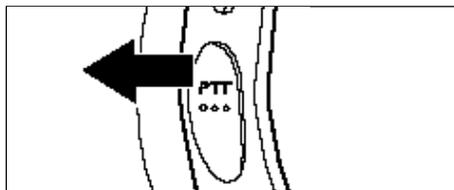
2. The **TX** icon will appear



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.



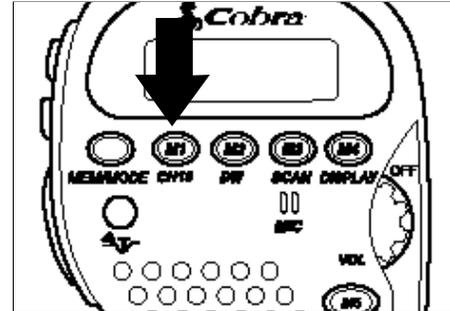
OPERATION

ONE-TOUCH CHANNEL 19

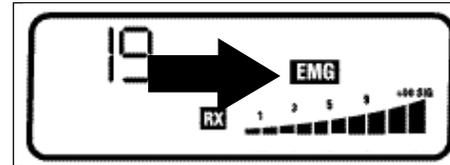
20

INSTANT CHANNEL 19

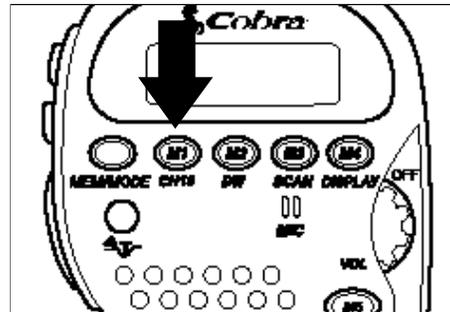
1. To access instant channel 19, press Channel 19 key once.



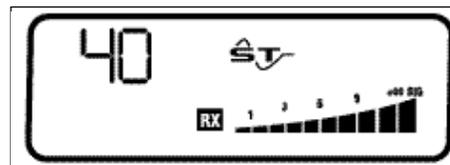
2. You are now on instant channel 19 and the **EMG** icon will appear.



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



4. Original channel



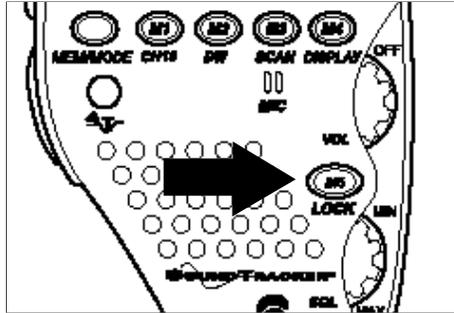
OPERATION

KEY LOCK

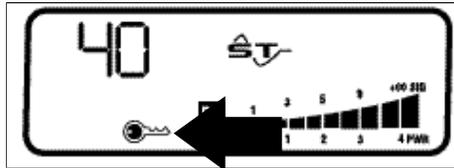
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KEY LOCK

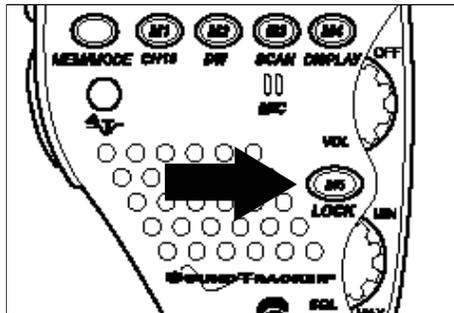
1. Press Key Lock button to prevent unintentional channel changing.



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



3. Press Key Lock button again to deactivate.



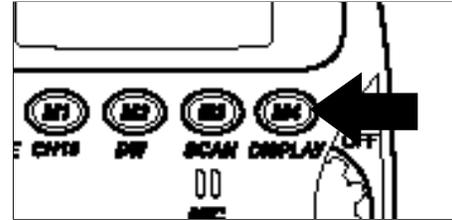
OPERATION

CHANNEL SCAN

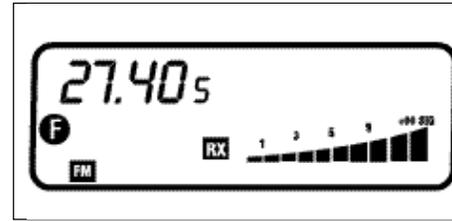
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5-DIGIT FREQUENCY DISPLAY

1. Press and release Display key.



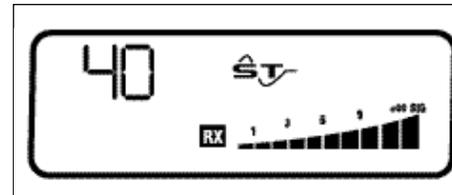
2. Display will change to the 5-digit frequency of the channel selected.



3. Press and release Display key.



4. Display will change back to channel display.



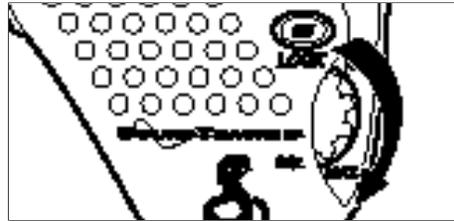
OPERATION

CHANNEL SCAN

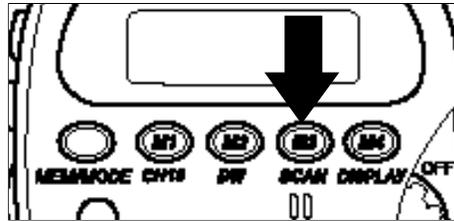
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ALL-CHANNEL SCAN

1. Set Squelch Control (SQL) to the DSS (Desired Squelch Setting).
*See page 16 to set DSS.

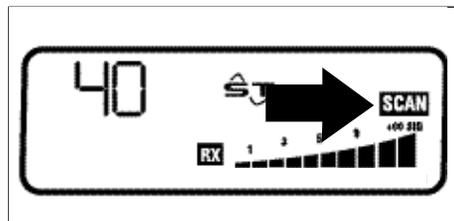


2. Press and release Scan key*. When activity is found on a channel, scanning will stop.

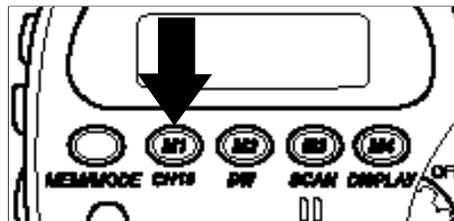


* Unit will begin to scan all 40 channels within selected band (EU or UK). Press and hold SCAN key for 2 seconds.

3. Scan icon will appear.



4. Press any key to stop scanning sequence.



NOTE. The UK75ST will stop scanning and monitor a channel when it receives an incoming transmission. Five seconds after the transmission stops, the UK75ST will resume the scanning function. To resume scan during REC mode, press Scan key again twice.

OPERATION

CHANNEL SAVER/MEMORY CHANNELS

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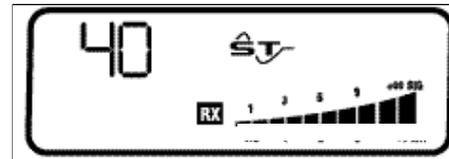
CHANNEL SAVER FEATURE*

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:

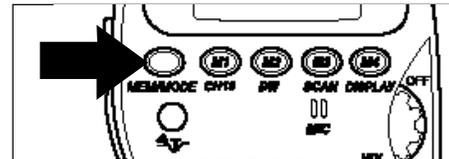
1. Positive (+) battery terminal.
2. Connection on the fuse-box that is always live.
See installation section for details.

NOTE: If the UK75ST is connected to a constant 12-volt source, leaving it switched on after the engine is turned off may drain the car battery.

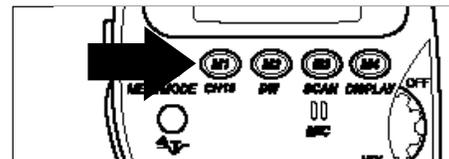


SAVING CHANNELS IN MEMORY

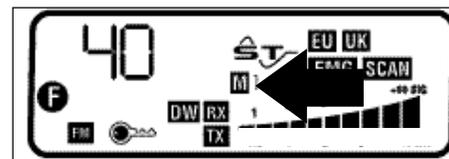
1. Select desired channel to store in memory.



2. Press and release the Memory key.



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



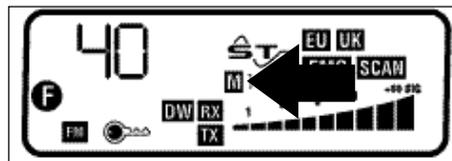
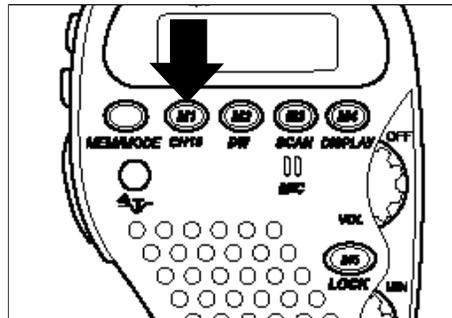
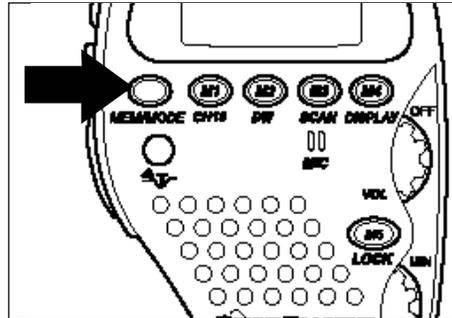
4. The Memory Location will appear on the display.

OPERATION MEMORY CHANNELS

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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.



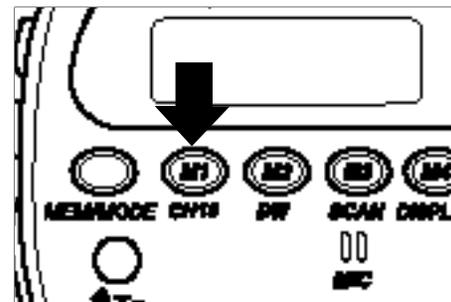
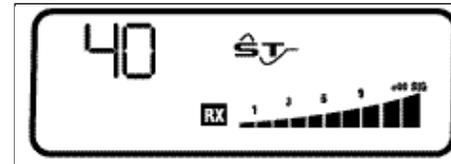
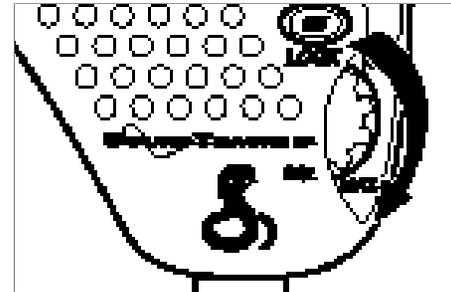
OPERATION DUAL WATCH

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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.

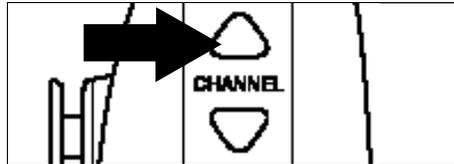


OPERATION

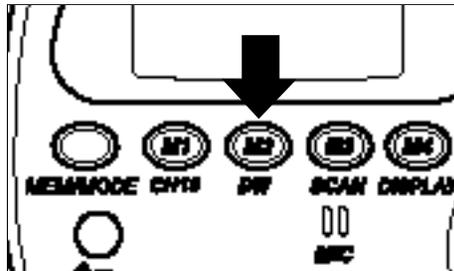
DUAL WATCH

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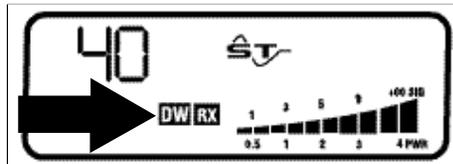
4. Select second channel.



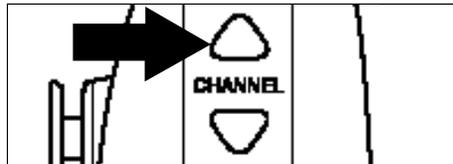
5. Press and hold DW key until a beep is heard.



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



7. Press any key to stop monitoring function.



NOTE: The UK75ST will alternate between both channels until it receives an incoming transmission. Five seconds after the transmission stops, it will again alternate between both channels.

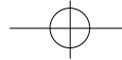
HOW YOUR CB CAN SERVE YOU

- 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.



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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) and 40 UK FM CB channels as shown below.

UK CB Channel	Channel Freq. in MHz	UK CB Channel	Channel Freq. in MHz
1	27.60125	21	27.80125
2	27.61125	22	27.81125
3	27.62125	23	27.82125
4	27.63125	24	27.83125
5	27.64125	25	27.84125
6	27.65125	26	27.85125
7	27.66125	27	27.86125
8	27.67125	28	27.87125
9	27.68125	29	27.88125
10	27.69125	30	27.89125
11	27.70125	31	27.90125
12	27.71125	32	27.91125
13	27.72125	33	27.92125
14	27.73125	34	27.93125
15	27.74125	35	27.94125
16	27.75125	36	27.95125
17	27.76125	37	27.96125
18	27.77125	38	27.97125
19	27.78125	39	27.98125
20	27.79125	40	27.99125



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FREQUENCY RANGE Continued

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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UK75ST SPECIFICATIONS

GENERAL

CHANNELS

CB - EUROPEAN (CEPT) 40 CH

CB - UK 40 CH

FREQUENCY RANGE

CB - EUROPEAN (CEPT): 26.965 TO 27.405 MHz

CB - UK: 27.60125 TO 27.99125 MHz

± 500 Hz

FREQUENCY TOLERANCE

PLL (PHASE LOCK LOOP) SYNTHESIZER

FREQUENCY CONTROL

-20°C TO + 60°C

OPERATING TEMPERATURE RANGE

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 μ 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

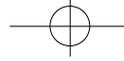
GREATER THAN 70 dB

ADJACENT CH. REJECTION

60 dB MIN.

FREQUENCY CONTROL

PLL (PHASE LOCK LOOP)



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NOTES

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

