

How to Use Your Cobra 29 NW ST

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Features of This Product

- 40 CB Radio Channels
- SoundTracker™ System
- Heavy-Duty Dynamic Microphone
- Full 4 Watts AM RF Power Output
- SWR Calibration Meter
- Instant Channel 19 and 9
- Front Panel 4-Pin Microphone Connector
- Delta -Tune
- Switchable Automatic Noise Limiter & Noise Blanker
- Adjustable Dynamike Boost
- Tactile Controls
- Illuminated Front Panel
- Dim Control
- RF Gain
- 9 ft. Mic Cord



Location

Location

Plan location of transceiver and microphone bracket before starting the installation.

Select a location that is convenient for operation, yet does not interfere with the driver or passenger.

The transceiver is usually mounted to the underside of the dash with the microphone bracket beside it.

Mounting and Connection

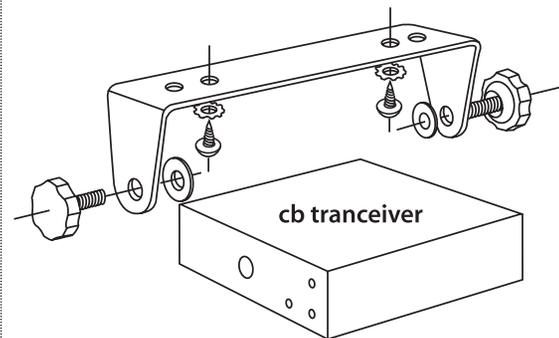
Note

The transceiver is held in the universal mounting bracket by two thumbscrews which allow for adjustment at a convenient angle.

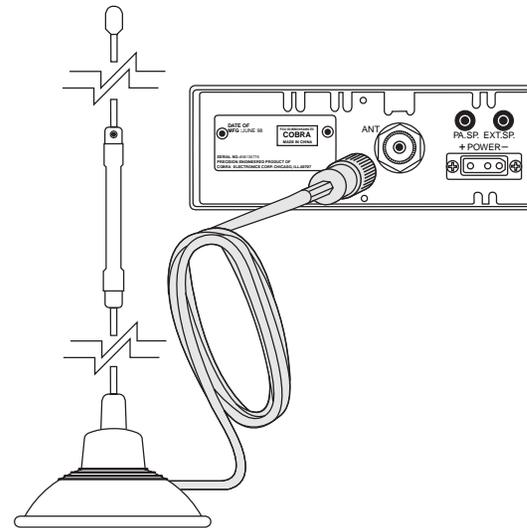
The bracket includes two self-tapping screws and star washers. The mounting must be mechanically strong, conveniently located.

Mounting and Connection

- 1 Hold the radio with the mounting bracket in the exact desired location. If there is no interference, remove the bracket and use it as a template to mark the location for the mounting screws.



- 2 Drill the holes and secure the bracket.



- 3 Connect the antenna cable plug to the receptacle marked "ANT" on the back of the unit.

continued

Installation

Note

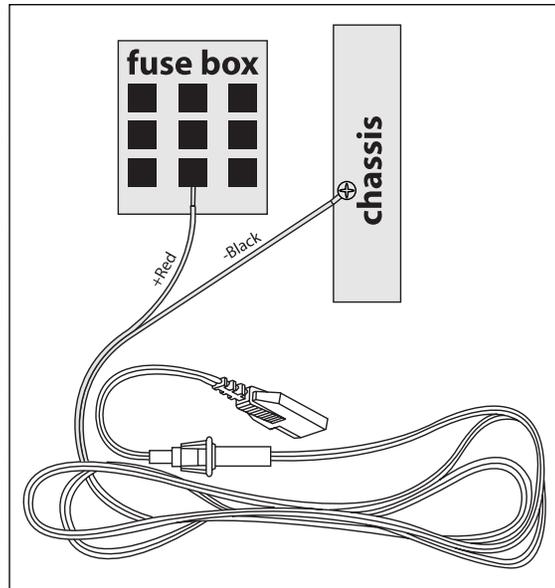
Connecting to an accessory fuse prevents the unit from being left on accidentally, and also permits operating the unit without running the engine.

Note

In positive ground vehicles the red wire goes to the chassis and the black wire is connected to the ignition switch.

Note

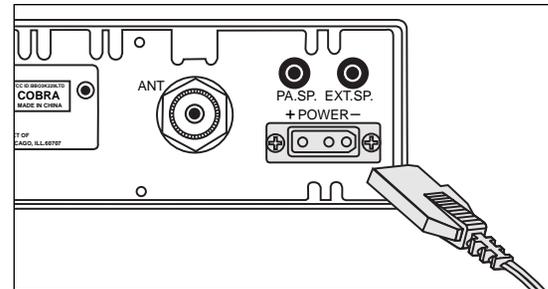
Before installing the CB radio, visually check the vehicle's battery connection to determine which terminal, positive or negative, is grounded (positive is the larger of the two) to the engine block (or chassis). A negatively grounded vehicle has its negative lead grounded to the chassis.



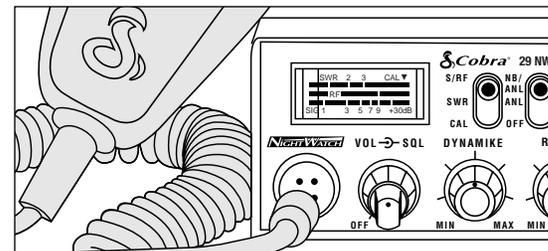
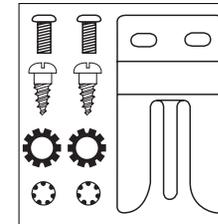
- 4 In a negative grounded vehicle, connect the red lead of the DC power cord to an accessory 12 volt fuse.
- 5 Connect the black lead to the negative side of the vehicle. This is usually the chassis. Any convenient location with a good electrical contact (remove paint) may be used.

4

Installation



- 6 Plug power cable into back of unit marked "Power". Be sure to observe polarity markings.
- 7 Mount the microphone bracket on either side of the unit (driver's left) using two screws supplied. Bracket should be placed under the dash so microphone is readily accessible.



- 8 Attach the 4-pin microphone cable to receptacle on front of unit and install unit in bracket securely.

5

CB Antenna

Note

For optimum performance in passenger cars the ideal antenna location is on the center of the roof. Second choice is on the center of the trunk.

Note

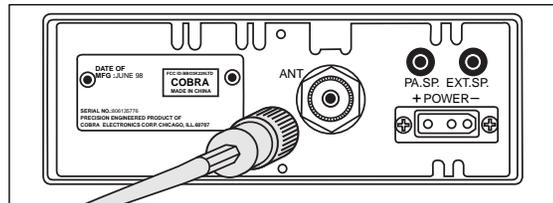
Because many newer trucks feature fiberglass door skins, the outside mirror must be grounded to the chassis via ground strap, if the antenna is mounted on the mirror bracket.

Note

3-way Combination Antennas are also available which allow operation of all three bands (AM-FM & CB), using a single antenna. However, this type of antenna usually results in less than normal transmit and receive range when compared to a standard-type "Single Band" CB antenna.

CB Antenna

Since the maximum allowable power output of the transmitter is limited by the IC/FCC, the antenna is critical in affecting transmission distance. Only a properly matched antenna system will allow maximum power output. Cobra loaded type antenna models are highly recommended for most installations. Consult your Cobra dealer for further details.



- 1 A standard antenna connector is provided on the transceiver for easy connection.

Marine Installation

The transceiver will not operate at maximum efficiency in a boat without a ground plate, (unless it has a steel hull). Before attempting installation, consult your dealer for information regarding an adequate grounding system and prevention of electrolysis between fittings in the hull and water.

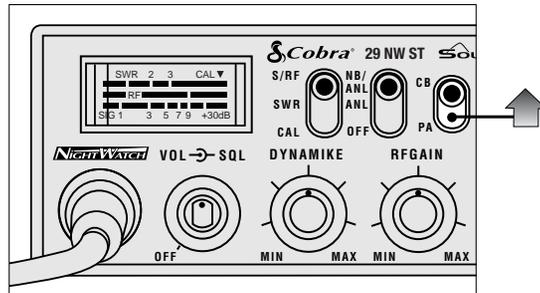
Use of a mobile receiver at low signal levels is normally limited by the presence of electrical noise. The primary source of noise in automobiles is from the alternator and ignition system. Typically, when signal level is adequate, the background noise does not present a serious problem. Also, when extremely low level signals are being received, the transceiver may be operated with the vehicle's engine turned off. The unit requires very little current and therefore will not significantly discharge the vehicle's battery.

Even though the Cobra 29 NW ST has an automatic noise limiter, in some installations ignition interference may be high enough to make good communications impossible. Many possibilities exist and variations between vehicles require different solutions. Consult your COBRA dealer or a 2-way radio technician for help in locating the source of a severe noise.

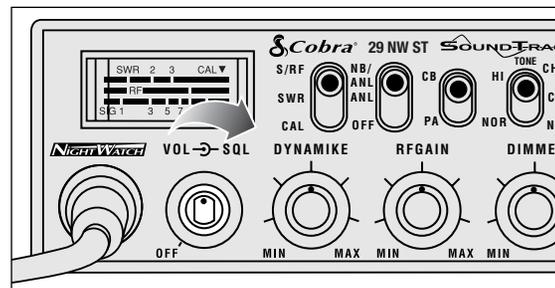
Turning On

Turning On

Make sure the power cord, antenna and microphone are connected to their proper connectors before starting.



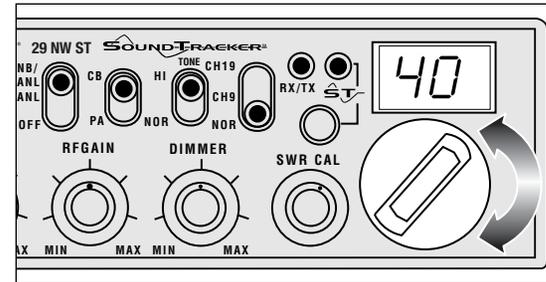
- 1 The  CB/PA button should be in the CB position.



- 2 Rotate the On/Off Volume knob  clockwise to a normal listening level.

Setting Channel Selector

Setting Channel Selector

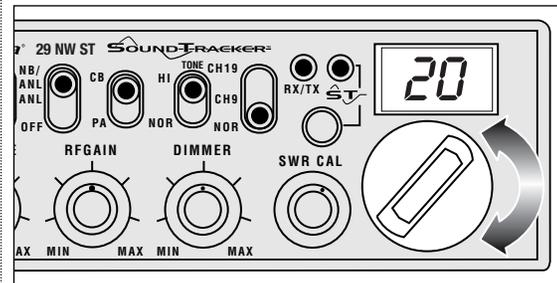


- 1 Select  one of forty channels and adjust volume. The selected channel is indicated by the LED readout directly above the channel selector knob

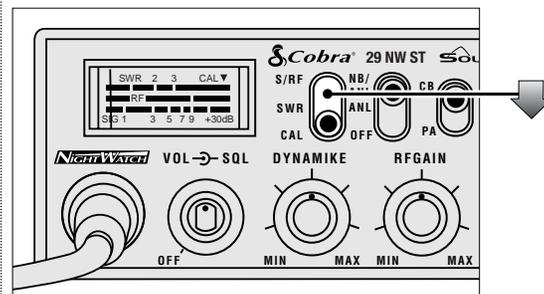
Calibrate For SWR (Standing Wave Ratio)

Calibrate for SWR (Standing Wave Ratio)

SWR calibration is done to properly adjust the length of the antenna and to monitor the quality of the coaxial cable and all RF connections. This calibration is critical in order to achieve optimum performance.

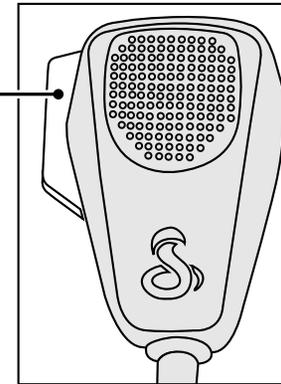


1 Select channel 20.

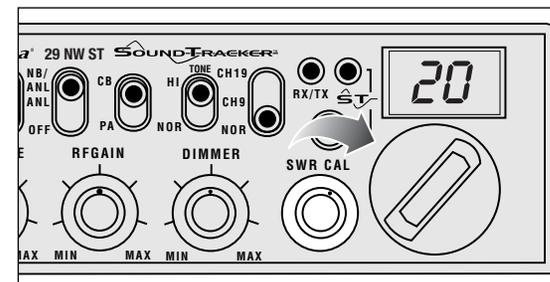


2 Switch to the CAL position.

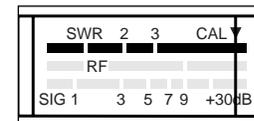
PUSH & HOLD



3 Push and hold mic button.



4 While holding mic button adjust the SWR CAL knob so the meter needle swings to the CAL mark on the meter (located on the right).



Note

Calibration must be made in an open area (never in a garage). Vehicle doors must be closed. No one should be standing near the antenna. (See your antenna directions for more complete information).

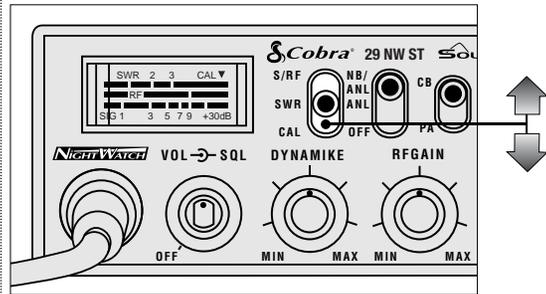
Note

The reading will be slightly higher on Channels 1 and 40 compared to Channel 20.

continued

Note

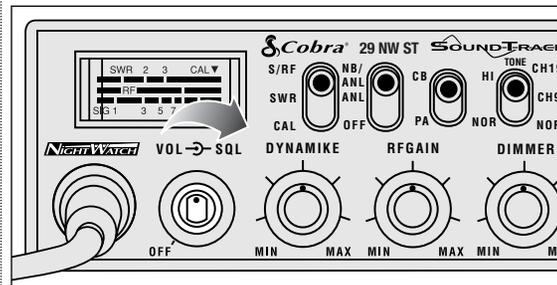
When switched to SWR position the meter needle should ideally be as far to the left as possible. Anything over 3 is not acceptable. A slight antenna height adjustment (higher or lower) may be required. Repeat recalibration steps.



- While still holding down the mic button, set the S/R/F SWR CAL switch to the SWR position, to read the SWR reading.
- Repeat the same steps two through five on Channel 1 and 40. This will check SWR for all channels.

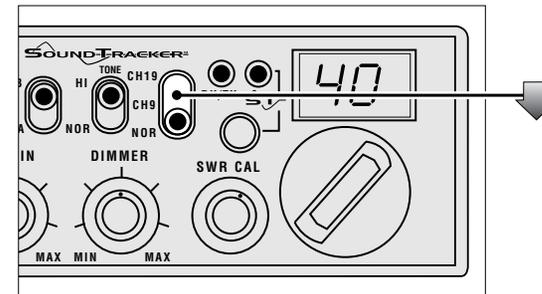
To Receive

To Receive



- Rotate the On/Off Volume knob clockwise the green RT/TX LED will be illuminated.

Selecting A Channel



- Switch to NOR to select desired channel.

S-Meter

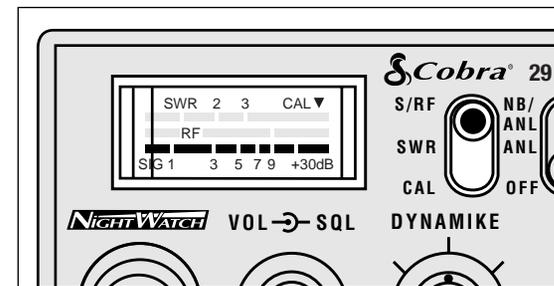
Swings proportionately to strength of incoming signal when receiving.

Selecting A Channel

Note

Switch to 9 (Emergency) or 19 (Information) for instant access to these channels.

S-Meter

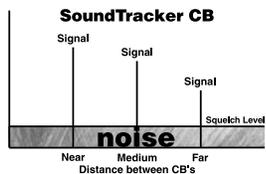
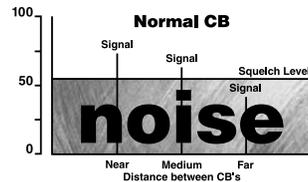


- The S/R-F-SWR-CAL switch must be in the S/R/F position to read the meter.



Note

SoundTracker™ gives you clearer, cleaner reception to improve CB communications while on the air.



The SoundTracker™ System

While previous systems only “blanket out” or limit 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

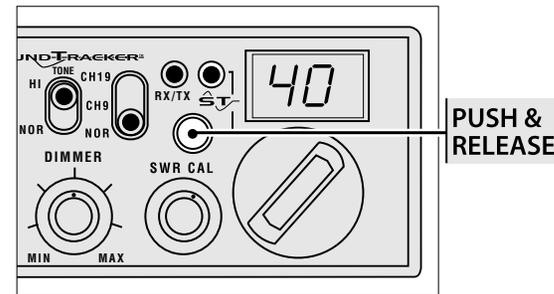
On Reception - “Cuts noise coming in”

With a normal CB, distant signals fall below the squelch level and are unintelligible. With a SoundTracker™ CB, the noise level is cut 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.

Activating SoundTracker™



- 1 Push and release the ST button. Red LED is illuminated when SoundTracker™ is turned on.

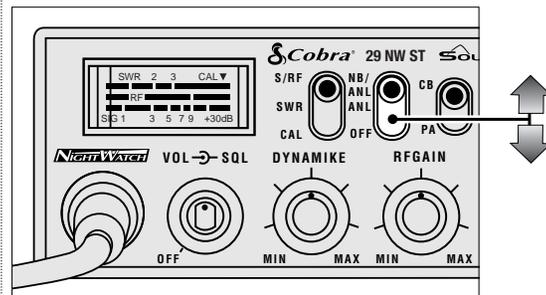
Activating SoundTracker™

NB-ANL/ANL/OFF (Noise Blanker/Automatic Noise Limiter) Switch

Note

The RF noise blanker is very effective in reducing repetitive noises such as ignition interference.

NB-ANL/ANL/OFF (Noise Blanker/Automatic Noise Limiter) Switch



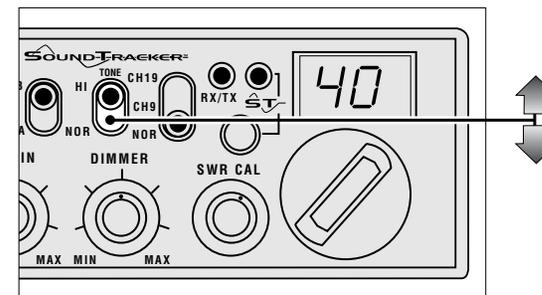
- 1 When switched to **ANL** the Automatic Noise Limiter is activated. This helps reduce noise created by the vehicle's electronics.

When switched to **NB/ANL** position the RF Noise Blanker is also activated, providing increased noise filtration.

When switched to **OFF** position all noise filtration will be turned off.

Tone Hi/Nor

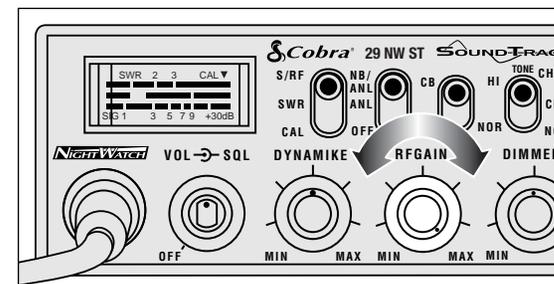
This switch is used to shape the Audio Response to the operators preference.



- 1 When set in **HI** the treble is increased.

RF Gain Control

The RF Gain is used to optimize reception in strong or weak signal areas.



- 1 Rotate the **RF Gain** knob *counterclockwise* to reduce gain in strong signal areas. In weak signal areas turn *clockwise* to increase gain.

Tone Hi/Nor

RF Gain Control

Note

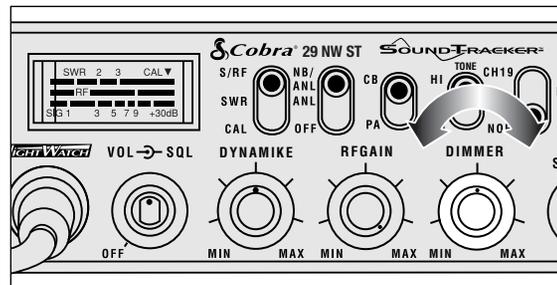
The RF Gain is used to optimize reception in weak signal areas.

Dimmer Switch

Note

The Dimmer controls the brightness of the front panel, signal strength meter and channel display.

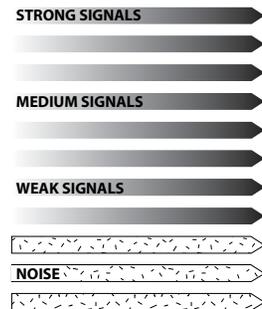
Dimmer Switch



- 1 Rotate the Dimmer knob clockwise for maximum brightness; counter-clockwise for minimum.

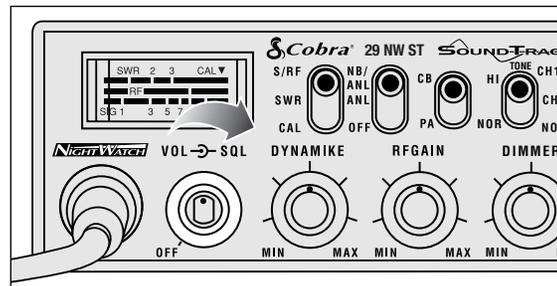
Setting Squelch

Gate closed

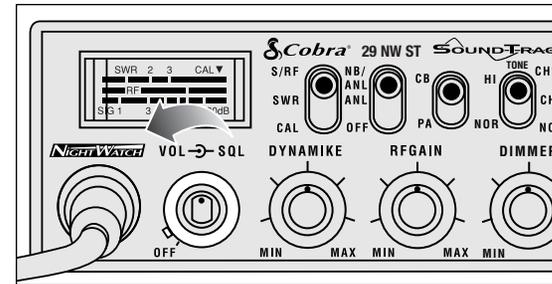


Setting Squelch

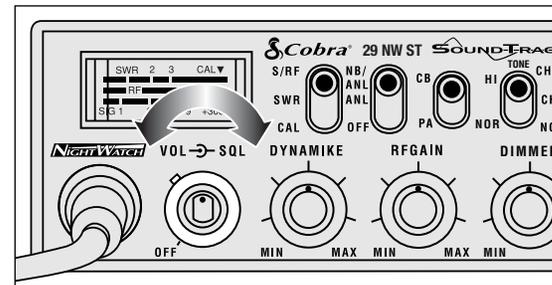
Squelch is the "control gate" for incoming signals.



- 1 Full rotation closes the gate allowing only very strong signals to enter.

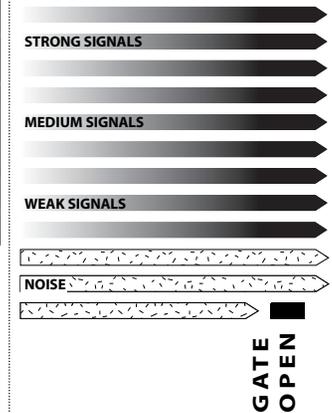


- 2 Full rotation opens the "gate" allowing all signals in.

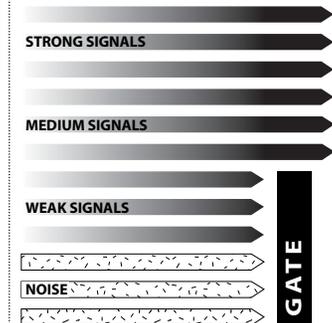


- 3 To achieve the Desired Squelch Setting (DSS), turn the Squelch control until you hear noise. Now turn the control just until the noise stops. This is the DSS setting.

Gate open



Gate set to Desired Squelch Setting (DSS)



To Transmit

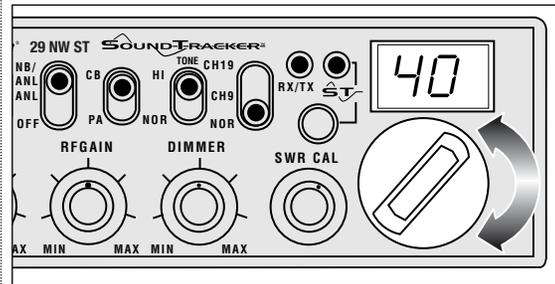
Caution!



Be sure the antenna is properly connected to the radio before transmitting. Prolonged transmitting without an antenna, or a poorly matched antenna, could cause damage to the transmitter.

Setting Dynamike

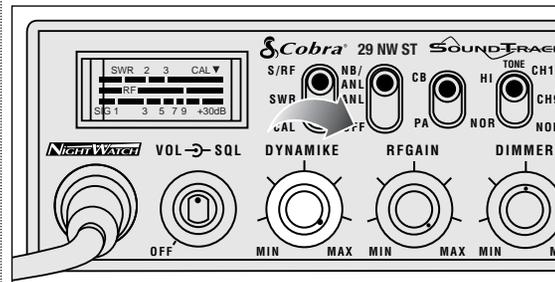
To Transmit



- 1 Select desired channel.

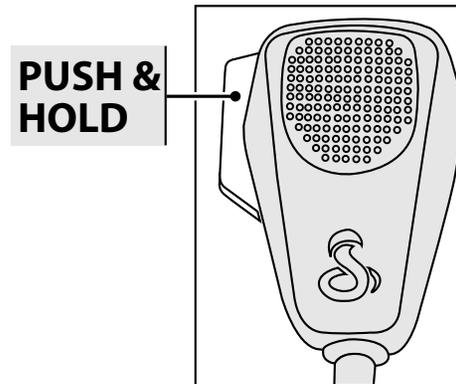
Setting Dynamike

This controls the microphone sensitivity (outgoing audio level).



- 1 Initially, set fully clockwise so that maximum voice volume is available. Dynamike may have to be reduced in some conditions.

Transmit



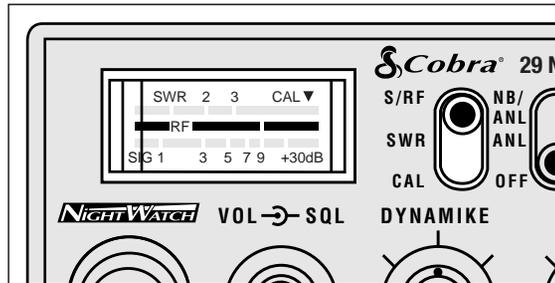
- 1 Push and hold mic button to transmit. Transmitter is now activated. When transmitting, hold the microphone two inches from your mouth and speak in a clear, normal voice. Release to receive.

Transmit

RF Meter

RF Meter

This meter swings proportionately to the RF output (outgoing signal) while transmitting.

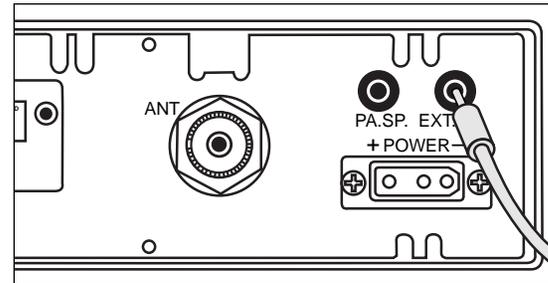


- 1 The S/RF-SWR-CAL switch must be in the S/RF position.

External Speaker

External Speaker

The external speaker jack is used for remote receiver monitoring.



- 1 Connect an external speaker to the external speaker jack on the rear panel.

Note

The external speaker should have 8-ohm impedance and be rated to handle at least 4.0 watts. When the external speaker is plugged in, the internal speaker is automatically disconnected.

Note

Cobra external speakers are rated at 15 watts.

PA (Public Address)

Note

Speaker should have 8-ohm impedance and be rated to handle at least 4.0 watts.

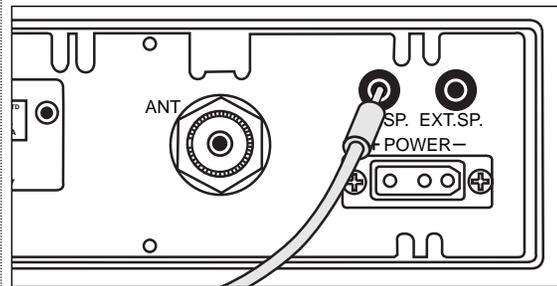
Note

The speaker should be directed away from the microphone to prevent acoustic feedback.

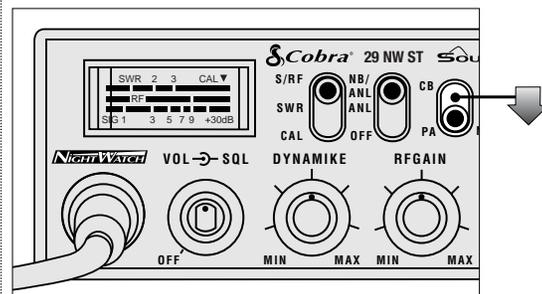
Note

Activity on the CB channel will be heard through the PA speaker. Adjust Volume Control for normal listening level.

PA (Public Address)

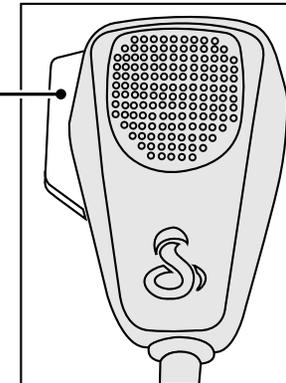


- 1 Connect an external PA speaker to the PA jack on the rear panel.

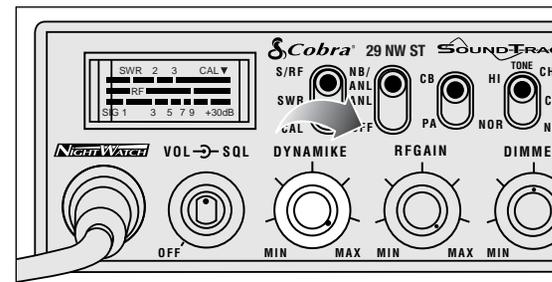


- 2 Set CB/PA switch to PA position.

PUSH & HOLD



- 3 Push and hold microphone button and speak in a normal voice. Your voice will now transmit on the PA speaker.



- 4 Adjust PA speaker volume with the Dynamike control.

Home And Office Set-Up

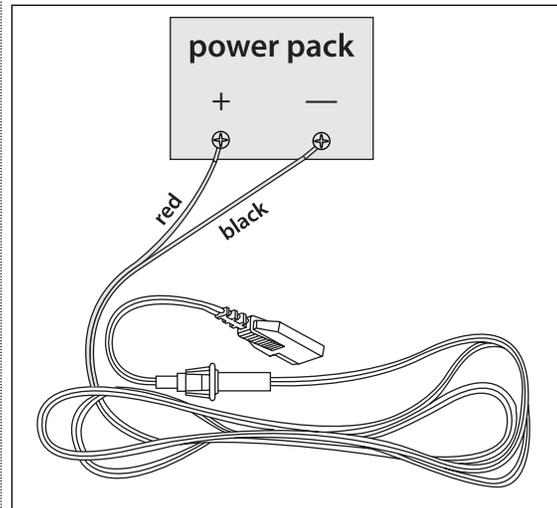
Base Station Operation (From 120V AC House Current)



Warning!
Do not attempt to operate this transceiver by connecting it directly to 120 vac.

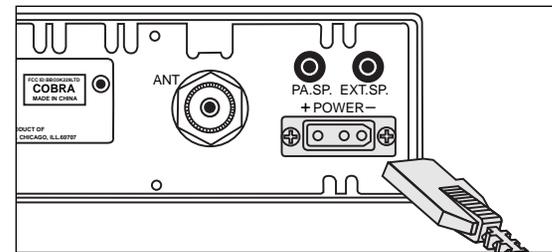
Base Station Operation (From 120V AC House Current)

To operate your transceiver from home or office you will need a 13.8 volt DC Power Pack rated at a minimum of 2 amps, and a properly installed base station antenna.



- 1 Simply connect the red (+) and black (-) leads of the transceiver to the corresponding terminals of the power pack.

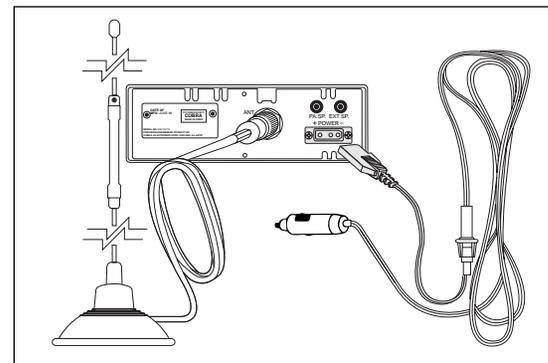
Temporary Mobile Set-Up



- 2 Plug power cable into back of unit marked "Power". Be sure to observe polarity markings.
- 3 Connect properly installed and matched base station antenna.

Temporary Mobile Operation

For temporary mobile operation you may want to purchase an optional cigarette lighter adapter from your COBRA dealer. This adapter and a magnetic mount antenna allow you to quickly "install" your transceiver for temporary use.



Temporary Mobile Set-Up

How Your CB Can Serve You

A Few Rules You Should Know

Channel 9 Emergency Messages

Note

If no response on channel 9, try channels 19 or 14.

- Warn of traffic problems
- Provide weather and road data
- Provide help in event of an emergency
- Provide direct contact with home or office
- Assist police by reporting erratic drivers
- Get "local information" to find destination
- Communicate with family and friends
- Suggest spots to eat and sleep
- Keep you alert while traveling

A Few Rules You Should Know

- A. Conversations cannot last more than 5 minutes with another station. A one minute break is required to let others use the channel.
- B. You cannot blast others off the air by use of illegally amplified transmitters or illegally high antennas.
- C. You cannot use CB to promote illegal activities.
- D. Profanity is not allowed.
- E. You may not transmit music with a CB.
- F. Selling of merchandise and/or services is prohibited.

1. Set to channel 9 for emergencies

Be sure antenna is properly connected.

2. CB Distress Data

When transmitting an emergency, you should request a "REACT BASE" and provide the CB distress data (called **CLIP**):

- | | |
|-------------------|--------------------------------------|
| C all Sign | <i>Identify yourself.</i> |
| L ocation | <i>Be exact.</i> |
| I njuries | <i>Number. Type. Trapped?</i> |
| P roblem | <i>Give details and help needed.</i> |

Transmit **CLIP** repeatedly so any monitor can assist.

How Your CB Can Serve You

The FCC gives these examples of permitted and prohibited messages for channel 9. These are only guidelines and not all-inclusive:

Permitted	Example Message
Yes	"Tornado sighted six miles north of town."
No	"Post number 10. No tornado sighted."
Yes	"Out of gas on Rte 15 at km marker 211."
No	"Out of gas in my driveway."
Yes	"Four car accident on 401 at Exit 11. Send police and ambulance."
No	"Traffic moving smoothly on 401."
Yes	"Weather Bureau has issued thunderstorm warning. Bring sailboat into port."
No	"Attention motorists. Weather Bureau advises snow tomorrow will accumulate 4 to 6 cm."
Yes	"Fire in building at 539 Main, Calgary."
No	"Halloween patrol number 3. All quiet."

How Your CB Can Serve You

CB 10-Codes

CB 10-Codes

Citizen Bands have adopted the "10-CODES" for standard questions and answers. These codes provide quick and easy communication, especially in noisy areas. Following are some of the more common codes and meanings:

Code	Meaning
------	---------

10-1	Receiving poorly
10-2	Receiving well
10-3	Stop transmitting
10-4	OK, message received
10-5	Relay message
10-6	Busy, stand by
10-7	Out of service, leaving
10-8	In service, subject to call
10-9	Repeat message
10-10	Transmission completed standing by
10-11	Talking too rapidly
10-12	Visitors present
10-13	Advise weather/roads
10-16	Make pick up at
10-17	Urgent business
10-18	Anything for us?
10-19	Return to base
10-20	My location is
10-21	Call by phone
10-22	Report in person to
10-23	Stand by
10-24	Completed last assignment
10-25	Can you contact
10-26	Disregard last info
10-27	Moving to channel
10-28	Identify your station

How Your CB Can Serve You

Code	Meaning
------	---------

10-29	Time is up for contact
10-30	Does not conform to IC/FCC rules
10-33	Emergency traffic
10-34	Trouble at this station
10-35	Confidential information
10-36	Correct time is
10-37	Wrecker needed at
10-38	Ambulance needed
10-39	Message delivered
10-41	Turn to channel
10-42	Traffic accident at
10-43	Traffic tie up at
10-44	Have a message for
10-45	All units within range please report
10-50	Break channel
10-60	What is next message number?
10-62	Unable to copy. Use phone
10-63	Net directed to
10-64	Net clear
10-65	Awaiting your next message/assignment
10-67	All units comply
10-70	Fire at
10-71	Proceed, transmission in sequence
10-77	Negative contact
10-81	Reserve hotel room for
10-82	Reserve room for
10-85	My address is
10-91	Talk closer to mic
10-93	Check my frequency on this channel
10-94	Give me a long count
10-99	Mission completed, all units secure
10-200	Police needed at

The COBRA 29 NW ST transceiver represents one of the most advanced AM two-way radios used as a Class D station in the Citizens Radio Service. This unit features advanced Phase Lock Loop (PLL) circuitry providing complete coverage of all 40 CB channels.

CB Channel	Channel Freq. In MHz	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	27.345
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

GENERAL

CHANNELS	CB - 40 CH
FREQUENCY RANGE	CB - 26.965 TO 27.405 MHZ
FREQUENCY TOLERANCE	0.005 %
FREQUENCY CONTROL	PLL (PHASE LOCK LOOP) SYNTHESIZER
OPERATING TEMPERATURE RANGE	-30° C TO + 50° C
MICROPHONE	PLUG-IN DYNAMIC
INPUT VOLTAGE	13.8VDC nom. (positive or negative ground)
CURRENT DRAIN	TRANSMIT: AM FULL MOD., 1.5A (MAXIMUM) RECEIVE: SQUELCHED, 0.3A; FULL AUDIO OUTPUT, 1.2A (NOMINAL)
SIZE	.8-5/8" D X 7-9/32" W X 2-13/63" H
WEIGHT	4 LBS.
ANTENNA CONNECTOR	UHF; SO-239
METER	ILLUMINATED; INDICATES RELATIVE POWER OUTPUT, RECEIVED SIGNAL STRENGTH AND VSWR

TRANSMITTER

POWER OUTPUT	.4 WATTS
MODULATION	AM (AMPLITUDE MODULATION)
FREQUENCY RESPONSE	300 TO 3000 HZ
OUTPUT IMPEDANCE	.50 OHMS, UNBALANCED

RECEIVER

SENSITIVITY	LESS THAN 1 μV FOR 10dB (S+N) /N
SELECTIVITY	.6 dB @ 7 KHZ, 60 dB @ 10KHZ
IMAGE REJECTION	.80 dB, TYPICAL
ADJACENT-CHANNEL REJECTION	.60 dB, TYPICAL
IF FREQUENCIES	DOUBLE CONVERSION: 1ST: 10.695 MHZ 2ND: 455 KHZ
AUTOMATIC GAIN CONTROL (AGC)	LESS THAN 10 dB CHANGE IN AUDIO OUTPUT FOR INPUTS FROM 10 TO 50,000 MICROVOLTS
RF GAIN RANGE	.40 dB
NOISE BLANKER	.RF TYPE
SQUELCH	ADJUSTABLE; THRESHOLD LESS THAN 1μV
AUDIO OUTPUT POWER	.4 WATTS
FREQUENCY RESPONSE	300 TO 3000 HZ
DISTORTION	LESS THAN 7% @3 WATTS @ 1000 HZ
BUILT-IN SPEAKER	.8 OHMS, 5W
EXTERNAL SPEAKER (NOT SUPPLIED)	.8 OHMS; DISABLES INTERNAL SPEAKER WHEN CONNECTED

PA SYSTEM

POWER OUTPUT	.4 WATTS INTO EXTERNAL SPEAKER
EXTERNAL SPEAKER FOR PA	.8 OHMS, 4 W MIN.
(NOT SUPPLIED)	THE PA SPEAKER ALSO MONITORS THE RECEIVER; SEPARATE JACK PROVIDED

(SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE)

Limited Two Year Warranty

COBRA ELECTRONICS CORPORATION warrants that its COBRA CB Radios, and the component parts thereof, will be free of defects in workmanship and materials for period of two (2) years from the date of first consumer purchase.

COBRA will, without charge, repair or replace, at its option, defective CB radios, products or component parts upon delivery to a COBRA factory Service Department, accompanied by proof of the date of first consumer purchase, such as a duplicated copy of a sales receipt.

You must pay any initial shipping charges required to ship the product for warranty service, but the return charges will be at Cobra's expense, if the product is repaired or replaced under warranty.

Optional Accessories



21" Base Loaded Magnet Mount Antenna

HG A1000

\$39.95



38" Base Loaded Magnet Mount Antenna

HG A1500

\$59.95

*Applicable taxes apply.
Shipping and handling: \$6.00*

Optional Accessories



4 Pin Premium Noise-Cancelling Microphone
Wood Grain
HG M84W
\$89.95



4 Pin Replacement Dynamic Microphone
HG M73
\$24.95



Dynamic External Speaker
HG S100
\$34.95



Power Microphone
HG M75
\$34.95



4 Pin Noise Canceling Microphone
HG M77
\$39.95

Noise Canceling External Speaker
HG S300
\$39.95

You Can Find These Fine Accessories At Your Local Cobra® CB Dealer

If you wish, you can order directly from Cobra®. Send order, your name, address and method of payment.

Order by phone:

Call 514.683.1779 x 2264

Order by fax:

514.683.5307

Order by email:

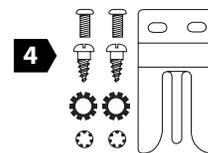
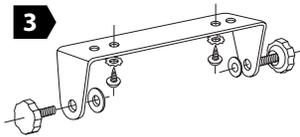
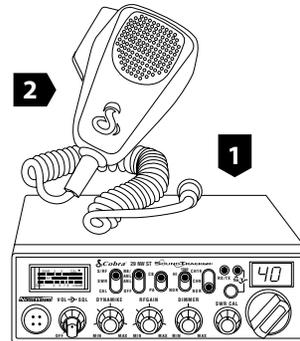
Send to cobraextras@avs.ca

Cobra® 29 NW ST

The CB Story

Operating Instructions for your Cobra 29 NW ST

CB Radio



The Citizens Band lies between the shortwave broadcast and 10-meter Amateur radio bands, and was established by law in 1949. The Class D two-way communications service was opened in 1959. (CB also includes a Class A citizens band and Class C remote control frequencies.)

IC/FCC Regulations

IC/FCC regulations permit only "transmissions" (one party to another) rather than "broadcasts" (to a wide audience). Thus, advertising is not allowed on CB Channels because that is "broadcasting."

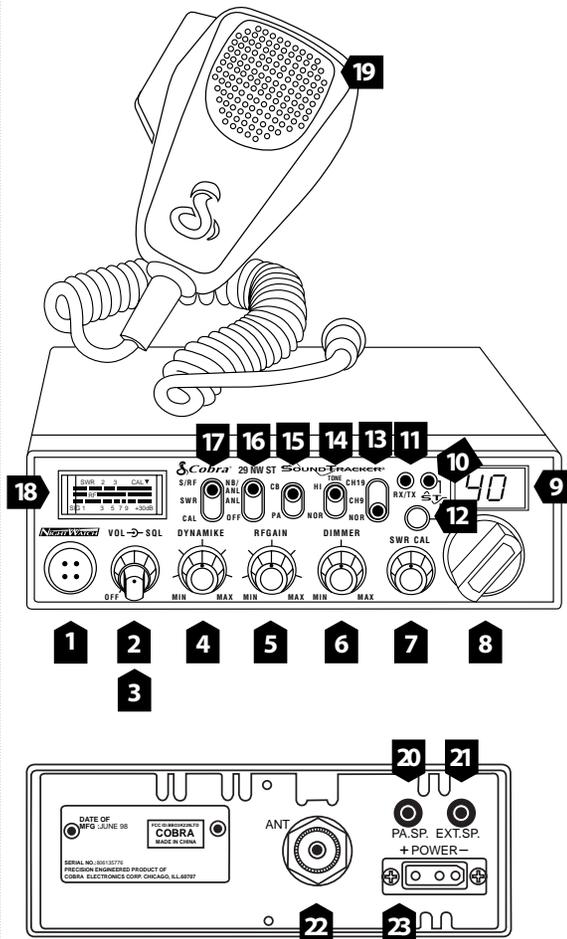
What's Included with Your 29 NW ST

1. CB transceiver
2. Microphone
3. Transceiver bracket
4. Microphone bracket
5. Operating Manual
6. DC power cord

Controls and Indicators

Our Thanks to You

- 1. 4-Pin Microphone Connector
 - 2. Power On/Off, Volume
 - 3. Squelch
 - 4. Dynamike
 - 5. RF Gain
 - 6. Dimmer
 - 7. SWR CAL
 - 8. Channel Selector
 - 9. LED Channel Display
 - 10. Sound Tracker™ LED
 - 11. RX (Receive)/ TX (Transmit) LED Indicator
 - 12. Sound Tracker™ On/Off
 - 13. Channel 19/Channel 9/ Normal Switch
 - 14. Tone Hi/Nor
 - 15. CB/PA Switch
 - 16. NB/ANL ANL Off Switch
 - 17. S/RF SWR CAL Switch
 - 18. Signal Strength Meter
 - 19. Microphone
- Back Side**
- 20. Public Address Speaker Jack
 - 21. External Speaker Jack
 - 22. Antenna Connector
 - 23. Power Jack



Thank you for purchasing the Cobra 29 NW ST CB Radio. Properly used, this Cobra product will give you many years of reliable service.

SoundTracker™

"Cuts noise coming in...strengthens signals going out."

This Patent pending technology dramatically improves transmission and reception of CB signals.

The revolutionary SoundTracker™ System reconfigures the transmission signal which allows it to be transferred more efficiently through cluttered airwaves.

At the same time, it significantly reduces the amount of static on all incoming CB signals.

The end result is a cleaner, clearer sounding reception of signals and a more powerful transmission which dramatically improves CB communications.