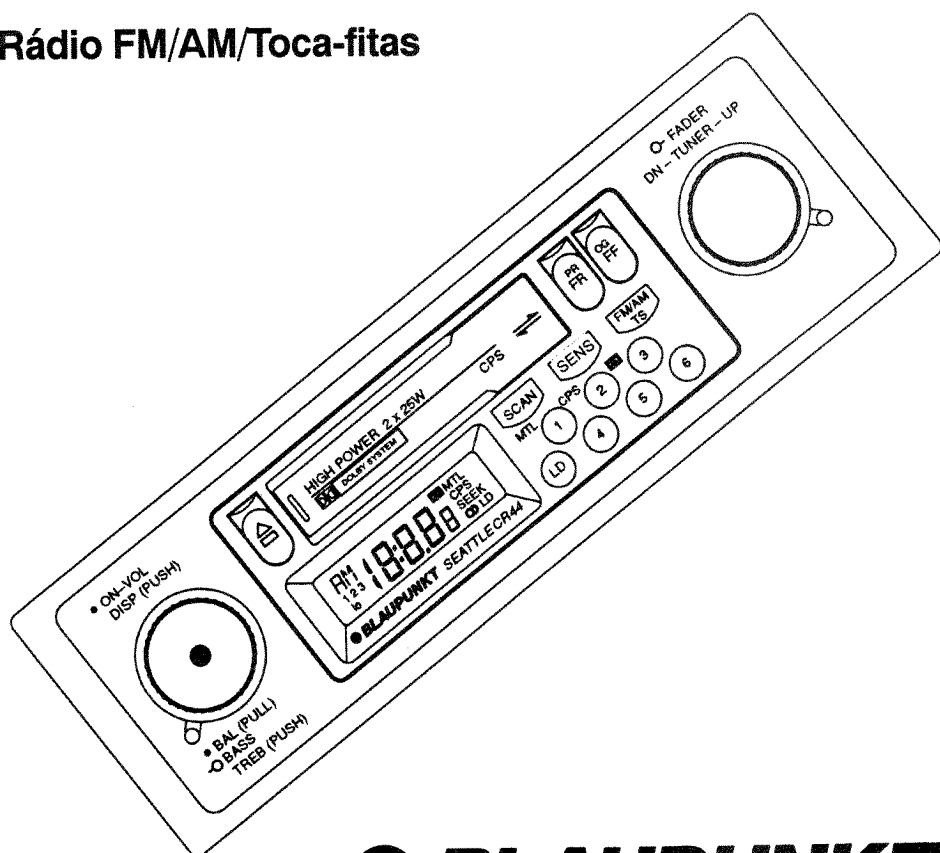# SEATTLE CR44

Stereo FM/AM/Cassette Receiver

Receptor FM/AM/Reproductor de Cassette

Auto-radio AM/FM avec Lecteur Cassette

Rádio FM/AM/Toca-fitas

● **BLAUPUNKT**

Bosch Telecom

FCC Warning

The equipment has been tested and found to comply with the limits for a Class B device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and, if not installed and used in accordance with instructions, may cause harmful interference with radio communications. However, there is no guarantee that radio interference will not occur in particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet or circuit different from that which the receiver is connected.
- Consult the dealer for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Owner's Record

The model and warranty numbers are located on the top of the unit. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Blaupunkt dealer regarding this product.

Model No. SEATTLE CR44
Warranty Number _____

Troubleshooting Guide

The following check will assist in the correction of most problems which you may encounter with your unit. Before going through the check list below, refer back to the connection and operating procedures.

Trouble	Cause/Solution
No sound.	• Adjust the volume with the + button. • Set the fader control to the center position on the 2-speaker system.
Preset stations are not receivable.	• The broadcast is too weak.
Automatic tuning is not possible.	• The broadcast is too weak. —> Use manual tuning.
Travel Store feature does not complete storing of six stations.	• Not enough broadcast frequencies are receivable.

If the above mentioned solutions do not help to improve the situation, consult your nearest **Blaupunkt** dealer.

Table of Contents

English

Features

Congratulations on your purchase of the Blaupunkt SEATTLE CR44 FM/AM/Cassette Receiver. Its electronically-tuned Phase Locked Loop (PLL) quartz FM and AM Tuner and high-quality cassette tape player provide the ultimate in sound reproduction. The Travel Store feature allows you to automatically load six receivable FM stations into the tuner's presets as you travel through various reception areas.

- Tuner Features:
  - Electronically-Tuned PLL Tuner
  - 18 FM/6 AM Station Presets, Including 6 FM and 6 AM Travel Store Presets
  - Scan and Preset Scan
  - Automatic and Manual Tuning
  - Local/Distant Reception Control

- Cassette Features:
  - Auto-Reverse Cassette Mechanism
  - True Fast-Forward/Rewind
  - Hard Permalloy Tape Head
  - Dolby B Noise Reduction
  - Metal Tape Equalization
  - CPS Cassette Program Search
  - Radio Monitor

- Audio Features:
  - 2 x 25 (or 4 x 10) Watt Integrated Amplifier
  - 2-Channel RCA Preamp Output
  - Power Fader
  - Volume/Balance/Fader Controls
  - Separate Bass and Treble Controls
  - Loudness Button
  - ASU Impulse Noise Quieting

- General Features:
  - Switchable Clock/Function LCD Display
  - Night Illumination
  - Connection for Motorized Antenna
  - Includes Mounting Hardware and Wire Harness
  - Dimensions: 178 x 50 x 130 mm (7 x 2 x 5-1/8 in.)

Precautions

- If your vehicle was parked in direct sunlight resulting in a considerable rise in temperature inside the vehicle, allow the unit to cool off before operating your unit.
- If no power connection is supplied to the unit, check the connections first. If everything is in order, check the fuse.
- If no sound comes from the speakers of a two-speaker system, set the fader control to the center position.
- You are cautioned that any changes or modifications not expressly approved in this manual could void your warranty.
- If you have any questions or problems concerning your unit that are not covered in this manual, please contact your Blaupunkt dealer.

Maintenance

Fuse Replacement
When replacing the fuse, be sure to use one with the correct amperage, which will be stated on the fuse case. Never use a fuse that has a stated amperage exceeding the one supplied for this unit, as this could cause malfunction and serious damage to the unit.

Specifications

Audio Power Specifications

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
11 watts per channel minimum continuous average power into 4 ohms, 2 channels driven, from 30-15,000 Hz with no more than 1% total harmonic distortion.

6 watts per channel minimum continuous average power into 4 ohms, 4 channels driven, from 30-15,000 Hz with no more than 1% total harmonic distortion.

Other Specifications

Power amplifier section

Outputs:	Speaker output with bullet connectors
Speaker impedance:	4-8 ohms
Maximum power output:	2 x 25W or 4 x 10W Measured at 14.4 V

Cassette section

Signal-to-noise ratio:	55 dB
Tape WOW and Flutter:	< 0.15%
Tape frequency response:	30 - 18,000 Hz ± 3 dB

Tuner section
FM

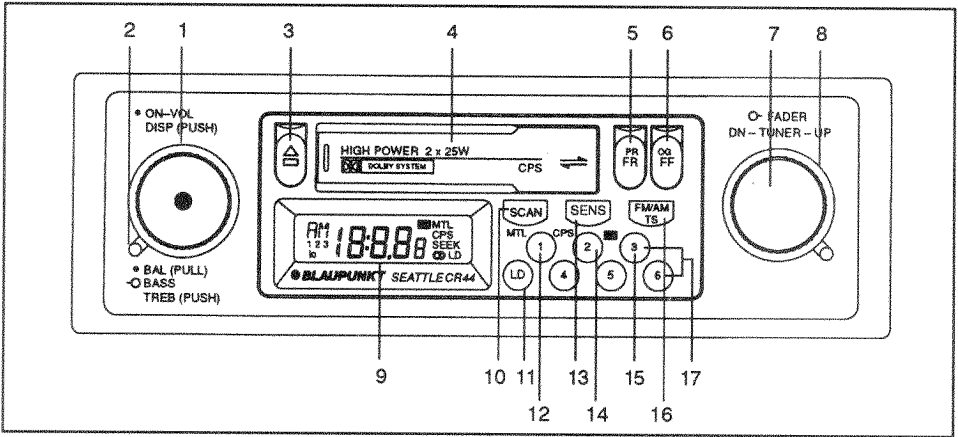| Tuning range:	87.7 - 107.9 MHz
Antenna terminal:	External antenna connector
Intermediate frequency:	10.7 MHz
Sensitivity:	15 dBf
Selectivity:	70 dB at 400kHz
Signal-to-noise ratio:	65 dB (stereo), 70 dB (mono)
Harmonic distortion at 1 kHz:	0.7% (stereo), 0.3% (mono)
Separation:	35dB
Frequency response:	30 - 15,000 Hz ± 3 dB

AM

Tuning range:	530 - 1,710 kHz
Antenna terminal:	External antenna connector
Intermediate frequency:	450 kHz
Sensitivity:	13 µV
Signal-to-noise ratio:	55 dB
Harmonic distortion at 1 kHz:	1.0%

General

Tone controls:	Bass ± 10 dB at 100 Hz Treble ± 10 dB at 10 kHz
Power requirements:	12 V DC car battery (negative ground)
Operating temperature:	–10°C to 50°C (15°F to 120°F)
Dimensions:	Approx. 178 x 50 x 130mm (w/h/d) (7 x 2 x 5-1/8 in.) not incl. projecting parts and controls
Mass:	Approx. 1.6 kg (3.5 lb.)
Supplied accessories:	Mounting hardware (1 set)

Design and specifications subject to change without notice.

Location of Controls

1. Off/On, Volume, Balance, Display Knob
2. Bass and Treble Ring
3. Cassette Eject Button
4. Cassette Door
5. FR (Cassette Fast-Rewind) Button
6. FF (Cassette Fast-Forward) Button
   (5.& 6. PROG (Cassette PROGram Change)
7. TUNER Knob
8. FADER Ring
9. LCD Display Window

10. SCAN Button
11. LD (Loudness) Button
12. METAL Tape Equalization Button
13. SENS Button
14. CPS (Cassette Program Search) Button
15. Dolby B Button
16. FM/AM (Band-Select)/
    TS (Travel Store) Button
17. FM/AM Preset Buttons

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Instructions — General Operation

Turning Unit On
Vehicle ignition must be on. To turn unit on, turn ON-VOL Knob (1) to right.

Turning Unit Off
Turn ON-VOL Knob (1) to the left.

Volume
Turn ON-VOL Knob (1) to right to increase or left to decrease the volume to the desired level.

Loudness Control
Press the LD Button (11) to increase sound level of the low and high frequencies (60 Hz/8 kHz)*, especially when listening at low volume levels. The "LD" indicator appears in the display. To deactivate, press this button again.

Setting the Clock
A. Turn the ignition key to the on position and turn the unit on by turning the ON-VOL Knob (1). Press and hold the DISP Knob (1) for about two seconds until the clock appears in the display. The clock starts blinking.
B. Turn the TUNING Knob (7) counterclockwise to advance one hour. Turn and hold the TUNING knob counterclockwise to advance the hours quickly.
C. Turn the TUNING Knob clockwise to advance one minute. Turn and hold the TUNING knob clockwise to advance the minutes quickly.
D. When you have completed your adjustments, push the DISPLAY Knob to start the clock.

Changing the Information Displayed
To change the display priority between audio source (radio or tape) and clock, press and release the Display Knob (1).

Temporary Changes in Display
When time has priority, the LCD will revert to the audio source for approximately 8 seconds, under the following conditions:
• If you press any radio related button when the radio is in use.
• If you insert a tape or press either or both the FR and FF Buttons (5 & 6).
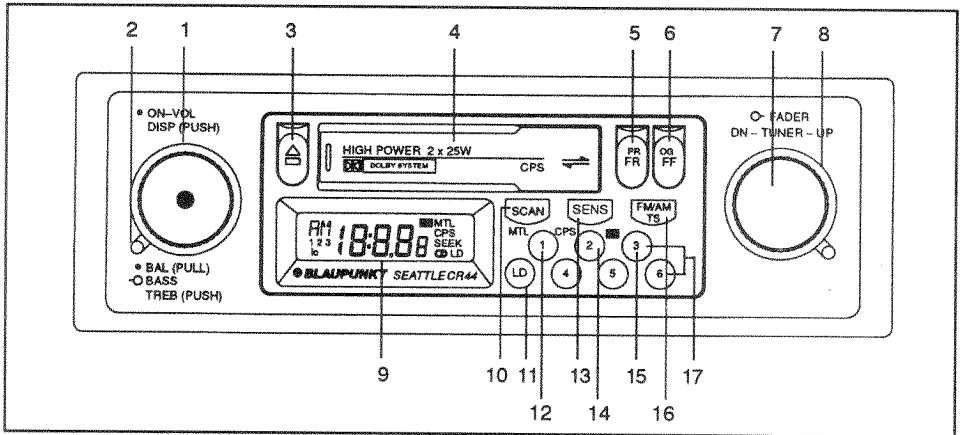
Bass and Treble
Turn the BASS Ring (2) to the right to increase or left to decrease the amount of bass. Push and turn the TREBLE Ring (2) to the right to increase or left to decrease the amount of treble. You

Balance
Pull the BAL Knob (1) and turn to the right or left to adjust the left/right speaker balance. Push the knob back in when you have completed your balance adjustment.

Fader
Turn the Fader Ring (8) to the right or left to adjust the front/rear audio output.

Radio Operation

Band Selection
Press the FM/AM Button (16) to select the bands FM1, FM2, FM3, and AM sequentially. The active band is indicated in the Display along with the radio frequency being received.

Stereo Reception
When an FM stereo program with a signal strength of at least 20 dBμV is tuned in, the stereo indicator ("CD") appears in the Display Window. If the FM stereo program is weak and noisy, the unit automatically blends the signals, eliminating the noise and gradually converts to the monaural or "mono" mode.

SENS (Sensitivity) Button
Press and release the SENS Button (13) as needed to select one of three tuning modes: SEEK local, SEEK distant or manual tuning.
• To have SEEK tuning stop only at strong local stations, press and release the SENS Button (13). "SEEK"/"lo" will be shown in the display.
• To have SEEK tuning stop only at all receivable stations, press and release the SENS Button (13) again. "SEEK" but not "lo" will be shown in the display.
• To allow manual tuning (tuning at any frequency), press and release the SENS Button (13) again. Neither "SEEK" nor "lo" will be shown in the display.

Manual Tuning
A. Select the desired band: AM or FM.
B. Press and release the SENS Button (13) as necessary to change to the manual tuning mode.
C. To change the frequency by one step, briefly turn the Tuner Knob (7) left or right. If the knob is kept turned for more than 1/2 second, the radio frequency will move rapidly.

Automatic Seek Tuning
A. Select the desired band: AM or FM.
B. Press and release the SENS Button (13) as necessary to change to the tuning mode to local ("SEEK"/"lo") or distant ("SEEK") tuning modes.
C. To advance to the next frequency receivable in the current tuning mode, briefly turn the Tuner Knob (7) to the right or left.

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Scan Tuning

Select the desired band AM or FM. Press and release the SCAN Button (10). Each station receivable under the current tuning mode will be scanned, in order, for 8 seconds. To stop the scanning and listen to the station being received, press SCAN Button again.

Preset Tuning

Up to 18 FM and 6 AM stations can be stored in preset memory.
1. Tune in a desired station, either manually or automatically, on the desired Band, AM, FM1, FM2, or FM3.
2. Press and hold any one of the six Preset Buttons (17). The Preset Button number will appear in the Display Window. After approximately two seconds, the frequency will blink, indicating that the station has been stored in the Button's memory storage for that Band.
3. Repeat the above procedure with the rest of the presets for each Band, as desired.
4. To select a preset station, select the desired band, then press and release the desired Preset Button.

Preset Scan

To review the stations stored in the Preset Buttons, press and hold the SCAN Button (10) for more than 2 seconds. Each station stored in memory will be scanned, in order, for 8 seconds. If any of the preset frequencies are not receivable with a signal strength of at least 15 dBμV, they will be skipped over. To stop the scanning and listen to the station being received, press SCAN Button again.

Travel Store

This feature allows you to automatically store the 6 best-received FM and 6 best-received AM stations, which is especially handy when you travel to a different reception area.
A. Select either the FM3 or AM band.
B. Press and hold the TS Button (16) for 2 seconds. Preset Button number 1 appears in the Display Window. The unit automatically scans the band upward for six receivable stations. If six receivable stations are not found under the local tuning mode, the search continues under the distant tuning mode.
C. To recall the Travel-Store stations, simply select the desired band, FM3 or AM, then press and release the desired Preset Button (17).
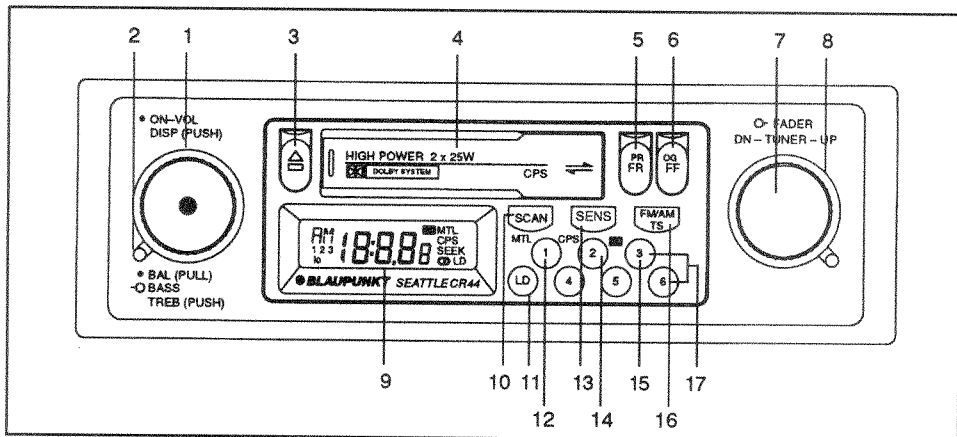
Cassette Player Operation

Cassette Tape Play:

• Turn the unit on. Insert cassette into Cassette Door (4). Note: Make sure that the side of the cassette with the tape exposed is facing to the right side and that all slack has been removed from the tape prior to insertion.
• The insertion of the cassette will automatically override the radio and the cassette will begin to play. When the cassette deck is being used, "A" will appear when the tape play is counterclockwise or "b" will appear when the tape play is clockwise. The Display Window (9) will also show the direction of tape play, clockwise or counterclockwise.
• The tape will continue to play until ejected, or until the unit has been turned off.

Auto-Reverse Tape Function

• Automatic: When the end of the tape (side A or B, program 1 or 2) is reached, the tape will automatically reverse direction and play the other side of the tape.
• Manual: To reverse tape direction during playback, press both tape program selector buttons [PR (5) and OG (6)] at the same time. (PROG is short for program.) The change in direction and in tape program will be confirmed in the Display.

Fast Winding of Tape

• To fast-rewind tape, press FR Button (5).
  To fast-forward tape, press FF Button (6).
• To stop fast winding, lightly press the other fast-wind button, FR or FF.

Note: During fast-winding, the tape running indicator in the Display Window (9) turns at the same speed as during normal play and does not change directions for Fast-Rewind. Also, the radio monitor is activated during fast-winding and the last-used radio frequency will be heard.

Cassette Program Search

Press the CPS Button (14) to have fast-rewind and fast-forwarding stop at the next blank section of tape, which is normally before or after the current selection of music. To deactivate, press this button again. The "CPS" indicator will appear in the Display Window.

Dolby B

Press the ([D][d]) Button (15) to eliminate the hissing noise on tapes that have been recorded with a Dolby-B Noise Reduction System. The Dolby symbol will appear in the Display Window. To deactivate, press this button again.

Dolby Noise Reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol ([D][d]) are trademarks of Dolby Laboratories Licensing Corporation.

Metal Tape

Press the METAL Button (12) when playing a metal or CRO2 tape. The "MTL" indicator will appear in the Display Window. To deactivate, press this button again.

Ejecting Tape

Depress the Cassette Eject Button (3) completely towards the face of the unit. The tape will be ejected and the radio will play.

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