

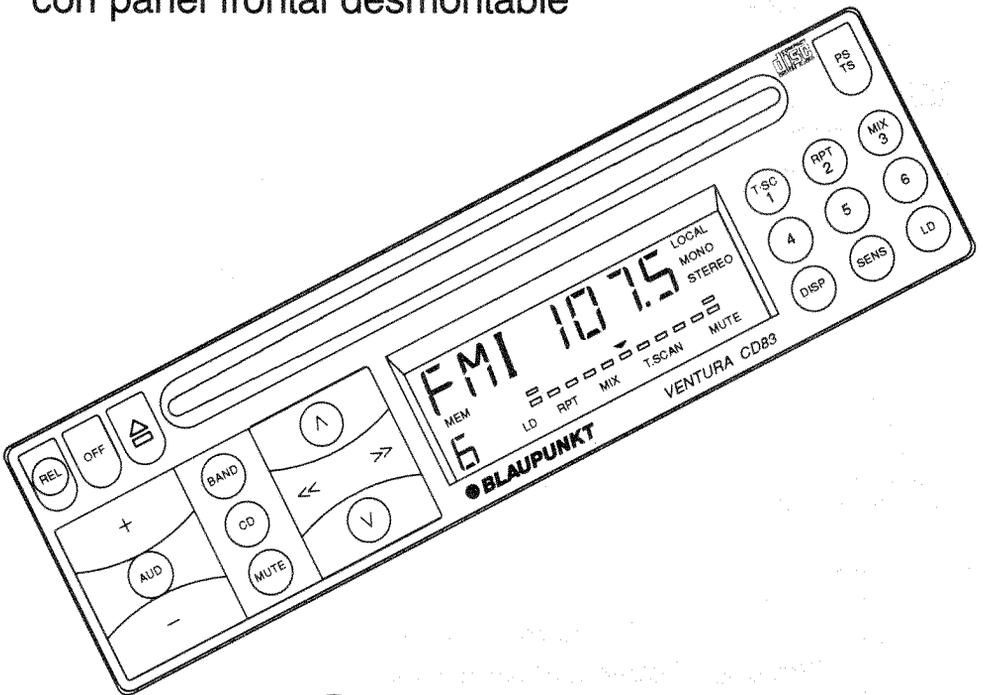
VENTURA CD83

High-Power FM/AM/CD Receiver
with Fully-Detachable Face

Récepteur FM/AM/CD de forte puissance
avec face avant amovible

Rádio FM/AM/CD de Alta Potência
com face removível

Receptor FM/AM/CD de Alta Potencia
con panel frontal desmontable



BLAUPUNKT

Bosch Telecom

Features

Congratulations on your purchase of the Blaupunkt Ventura CD83 FM/AM/CD Receiver. Its HDT Phase Locked Loop (PLL) quartz High-Definition FM Tuner and high-quality CD player provide the ultimate in sound reproduction. The Travel Store feature allows you to automatically load eighteen receivable FM and six receivable AM stations into the tuner's presets as you travel through various reception areas.

- Tuner Features:
 - HDT High-Definition PLL Tuner
 - 18 FM/6 AM Station Presets, all with Travel Store Feature
 - Preset Scan
 - Automatic and Manual Tuning
 - Local/Distant/Mono Reception Control
- CD Player Features:
 - Track Up/Down – Fast Track Up/Down
 - Cue/Review – Track Scan
 - Track Repeat – Track Mix
 - 3-Beam Laser
 - 1-Bit/8 x Oversampling Digital Filter
 - Anti-Vibration and Shock Mechanism
- Audio Features:
 - Volume/Balance/Fader Controls
 - Separate Bass and Treble Controls
 - Loudness Button
 - 20 dB Mute
- General Features
 - 4 x 20 Watt Integrated Amplifier
 - 2-Channel RCA Preamp Output
 - Dual-Level Fader
 - ASU Impulse Noise Quieting
 - Fully-Detachable Faceplate for Security w/Case
 - Switchable Clock/Function LCD Display
 - Night Illumination
 - Connection for Motorized Antenna
 - Includes Mounting Hardware and Wire Harness
 - DIN/ISO Mounting Chassis
 - Dimensions: 178 x 50 x 155 mm (7-1/8 x 2 x 6-1/8 in.)

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 on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

CAUTION

The use of optical instruments with this product will increase eye hazard.

Owner's Record

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

Model No. Ventura CD83

Warranty Number _____

Precautions

- Before operating the unit for the first time or after reconnecting the vehicle battery, press the reset button (on the front of the unit's chassis) with a ball-point pen, etc.
- 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 it.
- 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.
- As the laser beam used in this compact disc is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.
- Note on moisture condensation: On a rainy day or in a very damp environment, moisture may condense on the disc lenses in the unit. Should this occur, the unit may not operate properly. In such a case, remove the disc from the unit and wait for about an hour or so until the moisture has evaporated before re-inserting the disc.
- 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.

Detachable Face

Your unit's fully-detachable front faceplate makes it useless to would-be thieves.

Detaching & Attaching the Face:

The face of this unit can be detached and taken with you to prevent it from being stolen.

Detaching the Face:

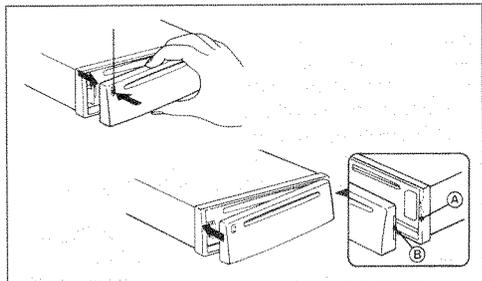
Before detaching the face, be sure to press the OFF Button first. Then press the REL (Release) Button and detach the face by gently pulling it towards you as illustrated.

Note: Be sure not to drop the face when detaching it from the chassis.

Attaching the Face:

Apply the right hand side of the face to the chassis by sliding (part B) of the face to (part A) at the front of the chassis. Gently push the left side of the face against the front of the chassis until it snaps into place.

Note: Make sure that the face is inserted right side up. Do not press against the display window. Do not press hard against the face when attaching it to the chassis, it may be easily attached with gentle pressure. When carrying the face with you, put it in the carrying case. Do not expose the face to direct sunlight, heat sources such as hot air ducts or leave it in a humid place. Never leave it on the dash board of a vehicle parked in direct sunlight, where there may be a considerable rise in temperature inside the vehicle.



Electrical Connections and Installation

@/ <?#&* > @! To avoid the aggravation of costly mistakes and serious damage that could make you feel this way—please carefully follow all of the instructions. You'll be glad you did!

GENERAL RECOMMENDATIONS

- If you're not confident that you can install the unit correctly, have it installed by a qualified Blaupunkt installation technician.
- Design and specifications subject to change without notice.
- We recommend making and testing all electrical connections before installing the unit.
- Be sure to detach the face before you start to connect or install the unit.

Power Connections—To prevent short circuits and/or serious damage:

- Disconnect the vehicle battery's negative terminal before making connections.
- Use this unit only with negative ground 12 Volt (11-16 Volt) direct current (DC).
- Connect leads according to the wiring diagram.
- The total amperage required by the (remote) lead for the motorized antenna must not exceed 100 mA. The total amperage required by (remote) lead for the amplifier must not exceed 300 mA. We don't recommend connecting these leads to the main *power* input on an amplifier or anything else.
- Connect the red power input lead only after the other leads are connected. And be sure to connect it to a positive (+) 12 Volt power terminal that is energized only when the ignition key is set to the accessory position or on position.*
- Connect the black lead to a grounded metal part of the vehicle. We recommend grounding all audio system black ground leads (head unit, external amplifier, etc.) to a common ground point.

*Cars With No Ignition-Switch Accessory Position

In cases where the red lead cannot be attached to an accessory position on the ignition switch, it should be attached to the same point as the yellow lead. Because the unit is factory-set to be illuminated whenever the red lead is active, you must move the Power Switch, located on the bottom of the unit, to the OFF position to prevent running down the vehicle's battery. (See diagram.) Then press the Reset Button. (See facing page.) The unit is then reset and will illuminate only when the unit is in use.

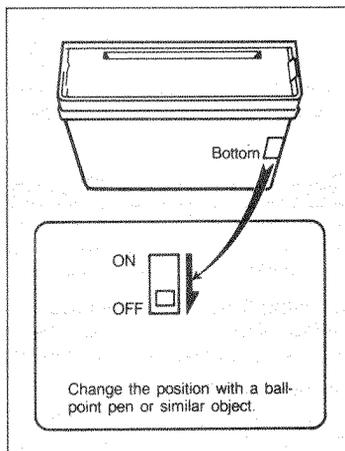
Speaker Connections—To prevent short circuits serious damage to the

- Don't ground the negative speaker leads (or pre-amp outputs) to a metal part of the vehicle.
- Use speakers with 4 ohms minimum impedance that have adequate power-handling capabilities.
- Connect the speaker leads according to the wiring diagram.
- Don't connect more than one speaker (regular, co-axial or tri-axial) to each pair of speaker leads.
- Don't connect any active speakers (with built-in amplifiers) to the speaker leads.
- Don't connect the left and right speaker leads to each other or to the same speakers.
- Don't connect the front and rear speaker leads to each other or to the same speakers.

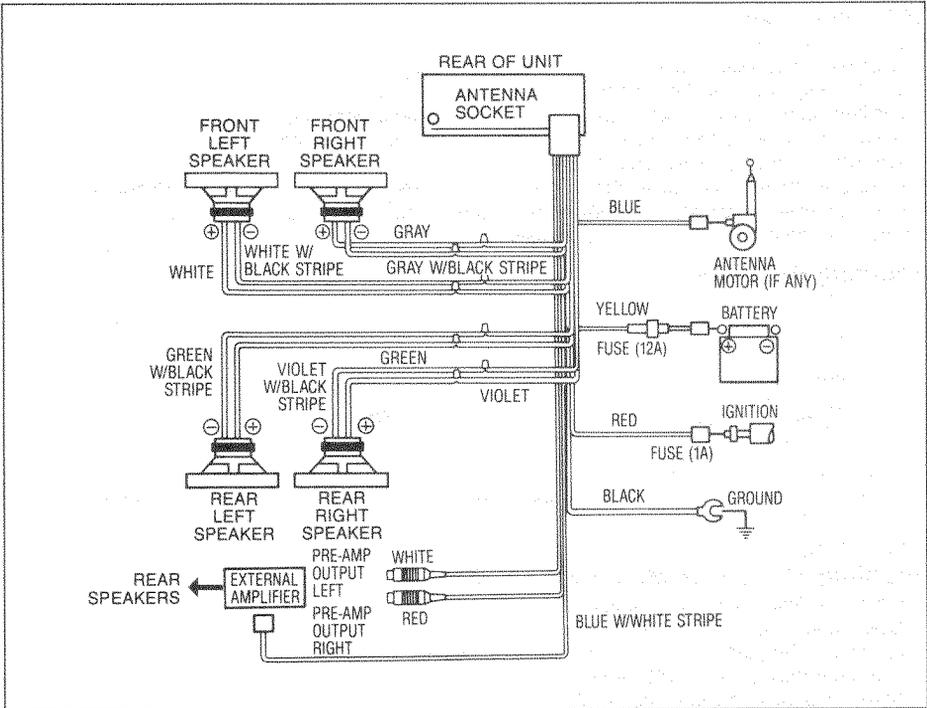
Connections To External Amplifier(s)

You can connect the 2 pre-amp channels to external amplifiers (Blaupunkt amplifiers available separately).

- Following the amplifier's instructions, connect each Ventura preamp output to the external amplifier and connect rear speaker(s) directly to the amplifier.
- A second pair of speakers can be connected to the Ventura's front speaker leads.

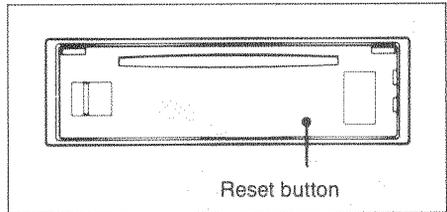


Electrical Connections



Resetting The Unit

After the electrical connections have been made, but before operating the unit for the first time (or after replacing the car battery), press the reset button with a ball-point pen, etc. The reset button is located on the front of the chassis.



Maintenance

Fuse Replacement Warning

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.

Cleaning the Connectors

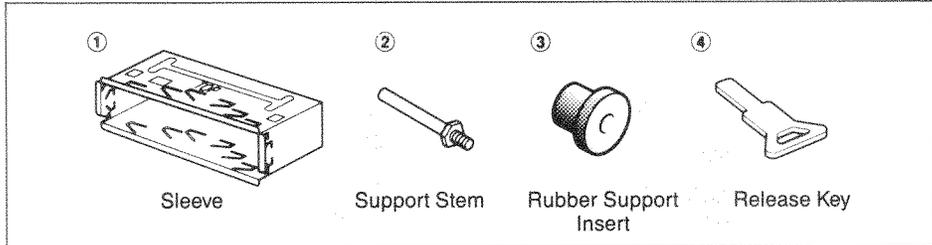
The unit may not operate properly if the connectors between the unit and the face are contaminated with dirt. In order to prevent this from happening, remove the face from the unit by pressing the REL (Release Button), then detach it and clean the connectors from time to time. Clean the connectors with a cotton swab as illustrated. Be sure to clean them with a horizontal motion. Never clean them vertically, because this could damage the contact points.

Installation

Recommendations

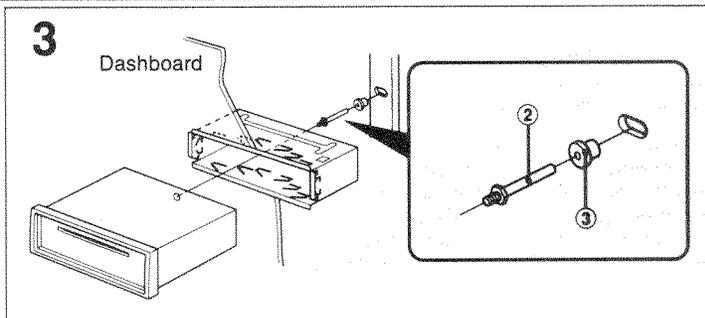
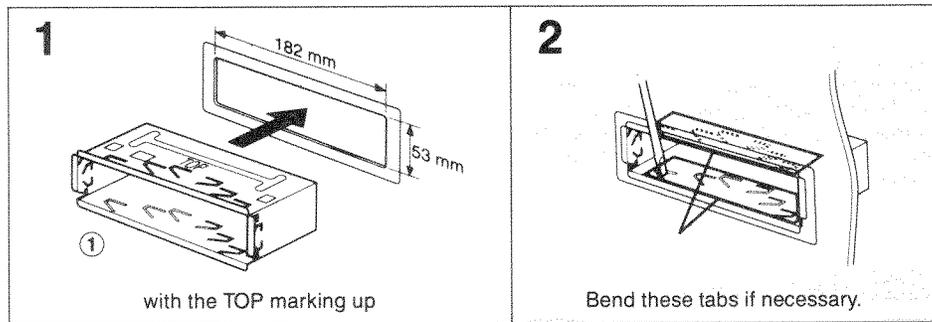
- Carefully choose the mounting location so that the unit won't interfere with normal driving.
- Avoid mounting locations where the unit would be subject to high temperatures, such as from direct sunlight or hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.
- The illustration below shows a typical installation, however, you may need to adjust the installation, depending on the unit. If you have questions or need additional installation hardware, consult your Blaupunkt dealer.
- Make sure the unit is firmly anchored (preferably at both front and back) and does not vibrate.
- Press the reset button after completing the electrical connections and installation. The reset button is located on the front of the chassis.

Mounting Hardware



Mounting The Unit in Most Dashboards

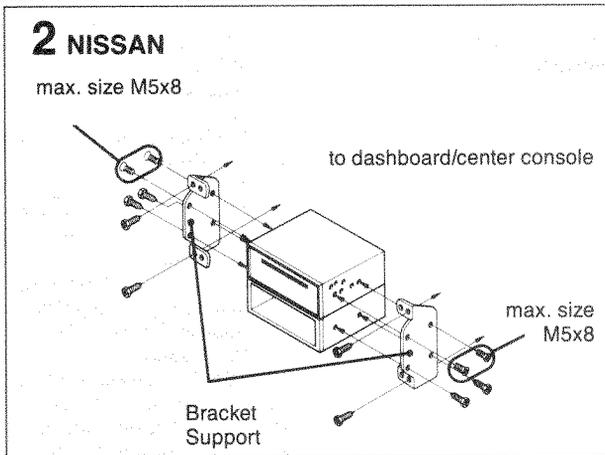
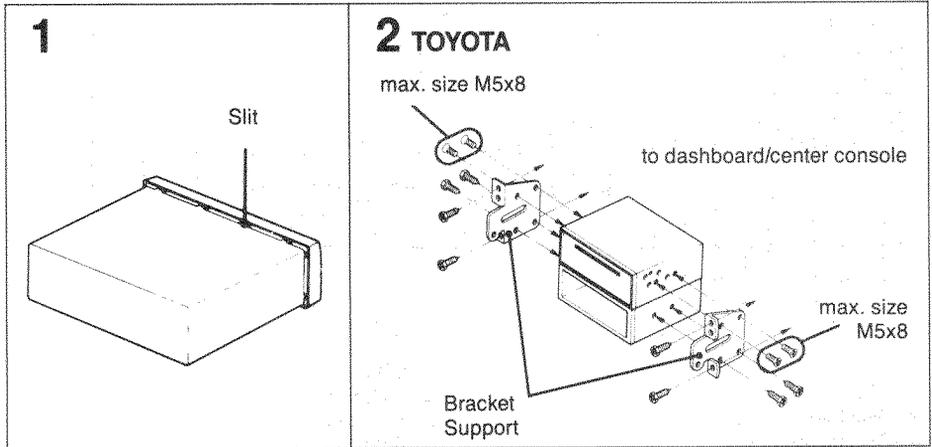
- 1 Install the Sleeve (1) in the dashboard.
- 2 Select and bend the appropriate tabs to hold the sleeve firmly in place.
- 3 Attach the Support Stem (2) onto the back of the unit.
- 4 Insert the Rubber Support Insert (3) into the hole centered behind the radio cavity of the vehicle.
- 5 Slide the body of the unit into the sleeve until the support stem slides into the support plug and unit snaps into the sleeve.



Mounting the Unit in a Japanese Car

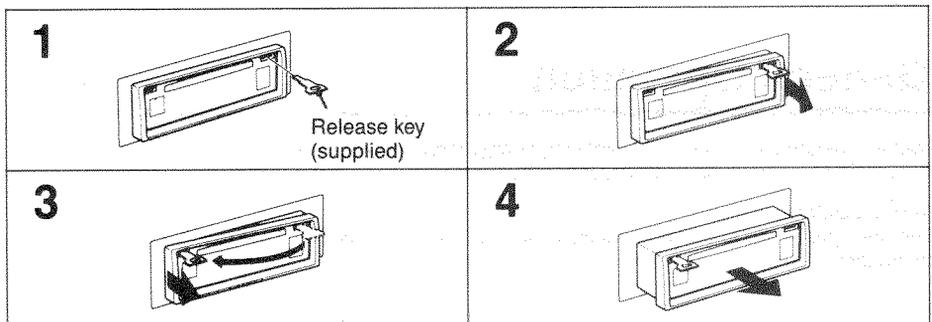
You may not be able to mount this unit in some Japanese cars. If you have difficulties, consult your Blaupunkt dealer.

- 1 Run a blade along the slits on the back of the front trim and separate it from the unit. Discard the trim.
- 2 Use the vehicle's own mounting hardware to attach the unit.

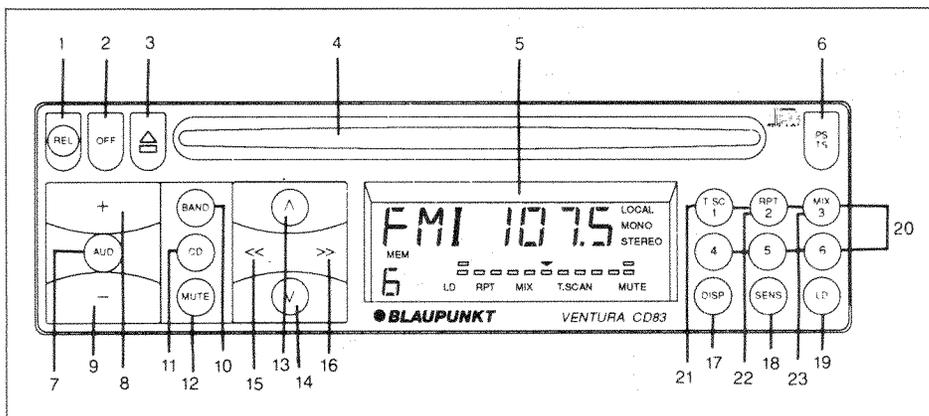


Removing the Unit

Use the Release Key as shown below. Keep it in a safe place in case you need it in the future.



Location of Controls



- | | |
|--|--|
| <ol style="list-style-type: none"> 1. REL (Release) Button 2. OFF Button 3. Disc Eject Button 4. Disc Insertion Slot 5. LCD Display Window 6. PS/TS (Preset Scan/Travel Store) 7. AUD (Audio Select) Button <ul style="list-style-type: none"> Volume Mode Balance Mode Bass Mode Treble Mode Fader Mode 8. + Control: <ul style="list-style-type: none"> Volume + Bass + Treble + Balance Right Fade Rear 9. - Control: <ul style="list-style-type: none"> Volume - Bass - Treble - Balance Left Fade Front 10. BAND (FM/AM Band-Select) Button | <ol style="list-style-type: none"> 11. CD Button 12. MUTE Button 13. ^ Control <ul style="list-style-type: none"> Automatic Seek-Radio Tuning (Up) Hour Adjustment (Up) CD Track Search (Forward) 14. v Control <ul style="list-style-type: none"> Automatic Seek-Radio Tuning (Down) Hour Adjustment (Down) CD Track Search (Backward) 15. << Control <ul style="list-style-type: none"> Manual Radio Tuning (Down) Minute Adjustment (Down) Audible CD Track Review (Backward) 16. >> Control <ul style="list-style-type: none"> Manual Radio Tuning (Up) Minute Adjustment (Up) Audible CD Track Review (Forward) 17. DISP Button 18. SENS (Local/Distant/Mono) Button 19. LD (Loudness) Button 20. FM/AM Preset Buttons 21. T•SC (Track Scan) Button 22. RPT (Track Repeat) Button 23. MIX (Track Mix) Button |
|--|--|

General Operation

(Before operating the unit for the first time or after reconnecting the vehicle battery, press the reset button (on the front of the unit's chassis) with a ball-point pen, etc.)

Turning Unit On

Turn the ignition key to the on position. To turn unit on, press BAND Button (10), CD Button (11), or insert disc.

General Operation (Continued)

Turning Unit Off

Press the OFF Button (2) to turn the unit off.

Setting the Clock

Turn the ignition key to the on position. If the clock does not appear in the display, press the DISP Button (17). Press the DISP Button again for more than two seconds. While holding down the DISP Button, press the \wedge and \vee Buttons (13 and 14) to set the hour, and press the \ll and \gg Controls (15 and 16) to set the minutes. The clock starts activating when you take your finger off the DISP Button.

Volume

Press the + / - Controls (8 & 9) to increase or decrease the volume to the desired level. The volume level is indicated in the Display Window (5).

Mute

To reduce the volume level by 20 decibels, press the MUTE Button (12). The "MUTE" indicator appears in the Display Window. To return to the previous volume level, press it again.

Bass and Treble

Press AUD (Audio Select) Button (7) once to select the Bass mode, twice for the Treble mode. The level is indicated in the Display Window (5). Press the + Control (8) or - Control (9) to increase or decrease the level.

Balance

Press AUD (Audio Select) Button (7) three times to select the Balance mode. The balance is indicated in the Display Window (5). Press the + Control (8) to increase the right speaker output or press the - Control (9) to increase the Left speaker output to the desired level.

Fader

Press AUD (Audio Select) Button (7) four times to select the Fader mode. The level of output for front and back speakers is indicated in the Display Window (5). Press the + Control (8) to decrease the rear speaker output. Press the - Control (9) to decrease the front speaker output.

Loudness Control

Press the LD Button (19) to increase sound level of the low and high frequencies, especially when listening at low volume levels. The "LD" symbol will illuminate in the display. To cancel, press this button again.

Radio Operation

Band Selection

Press the BAND Button (10) to select the bands FMI, FMII, FMIII, and AM, sequentially. The indicator for the active band (FMI, FMII, FMIII, or AM) appears in the display along with the radio frequency being received.

Manual Tuning

Press the BAND Button (10) until the desired band appears in the display. Press and hold the \ll or \gg Controls (15 and 16) until the desired frequency appears in the Display Window (5).

Automatic Seek Tuning

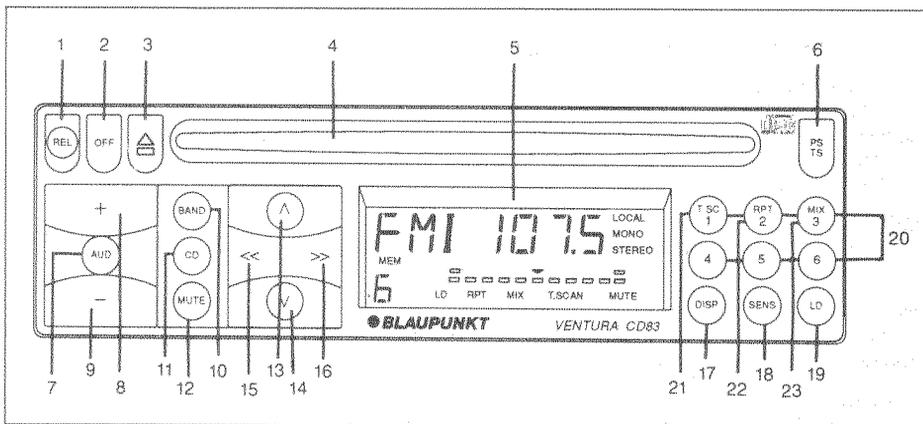
Press the BAND Button (10) until the desired band appears in the display. Press and release the \wedge and \vee Buttons (13 and 14) to seek the next receivable station.

SENS (Local/Distant/Mono Reception)

To have the automatic tuning stop only at strong local stations, press the SENS Button (18). "LOC" will be shown in the display. When "LOC" is not displayed, the distant reception mode is in effect and automatic tuning stops at ALL receivable stations, weak or strong.

When an FM stereo program with sufficient signal strength is tuned in, the "STEREO" indicator appears in the Display Window. If the FM stereo program is weak and noisy, press the SENS Button (18) one or more times until the "MONO" indicator appears in the Display Window. The program will be received in monaural mode, eliminating the noise.

Operation (Continued)



Preset Tuning

Up to 18 FM and 6 AM stations can be stored in preset memory.

- To store a station on a Preset Button, tune in a desired station, either manually or automatically, on the desired Band, as instructed above.
- Press and hold any one of the six Preset Buttons (20). The Preset Button number will appear in the Display Window. After two seconds, the "MEM" indicator will appear in the Display Window, indicating that the station has been stored in the Button's memory storage for that Band.
- Repeat the above procedure with the rest of the presets for each Band, as desired.
- To select a preset station, select the desired band, then press the desired Preset Button.

Preset Scan

To review the stations stored on the Preset Buttons, press the PS (Preset Scan) Button (6). All of the stations stored in memory will be received, in order, for five seconds each. To select the station being played, press its Preset Button or the PS Button.

Travel Store

This feature allows you to automatically store the currently best-received stations on the preset buttons:

- Press the BAND Button (10) to select the desired band. (With the Travel Store feature, if you select any of the three FM Bands, ALL THREE FM Bands are affected as indicated below.)
- Press the TS button (6) for more than 2 seconds. The unit automatically scans the selected band (FM or AM) for receivable stations beginning with the frequency and preset currently displayed.
- When there is NO preset number indicated in the Display Window, stations will be stored in the memories of ALL of the preset buttons in the currently-selected band, FM or AM.
- However, when there IS a preset number indicated in the Display Window, stations will be stored in the memories of SUBSEQUENT preset buttons in the currently-selected band, FM or AM. For example, if you active Travel Store when FMI and Preset 5 is displayed, only presets 5 and 6 on the FMI Band and all of the presets on FMII and FMIII Band will be affected.

Compact Disc Operation

Notes on Handling Discs

Handle the disc by its edge, and to keep the disc clean, do not touch the surface. Do not attach any paper or tape. Do not expose the disc to direct sunlight or heat sources, such as hot-air ducts, or leave it in a vehicle parked in direct sunlight, where there can be a considerable rise in temperature.

Cleaning Discs

Before playing, clean the disc with a compact disc cleaning cloth. Wipe the disc from the center of the disc to the outer edge of the disc. Do not use solvents such as benzene, thinner, commercially available cleaners or anti-static spray intended for analog discs.

Compact Disc Operation (Continued)

Playing A Compact Disc

To insert a disc, first make sure that there is no disc already loaded into the unit by pressing the Disc Eject Button (3). Insert a disc into the Disc Insertion Slot (4). When a disc is inserted, play will automatically begin. The Display shows the Track Number and the elapsed playing time. If you press the BAND Button (10) during CD play, the disc play will automatically stop, and the radio will be activated. Press the CD Button (11) to resume disc play.

Ejecting Disc

Depress the Disc Eject Button (3). The disc will be ejected and the radio will play. If you leave the ejected disc in the disc insertion slot for 15 seconds after you have pressed the button, the disc will be automatically retracted into the unit in order to protect it.

Moving To Another Part of The Disc

- To go to the beginning of the next track, press the \wedge Control (13). To go back to the beginning of the track being played, press the \vee Control (14). Press these controls repeatedly to locate previous or succeeding tracks or hold down to move at high speed.
- To move ahead, press the \gg Control (16). To go back, press the \ll Control (15). (To move at high speed, keep pressed.)

At The End of the Disc

The track number returns to "1" and disc play is repeated from the beginning of the disc.

Track Scan

Press the T•SC Button (21) to play the first 10 seconds of each track in order. To cancel, press it again. If the T•SC Button is pressed during MIX play, the first 10 seconds of every track will be played randomly.

Repeat Play

Press the RPT Button (22) to repeat the same track. To cancel, press it again.

Mix Play

Press the MIX (23) Button to play the tracks in random order. To cancel, press it again.

Specifications

Audio Power Specifications

POWER OUTPUT AND TOTAL HARMONIC DISTORTION 10 watts per channel minimum continuous average power into 4 ohms, 4 channels driven, from 20-20,000 Hz with no more than 1% total harmonic distortion.

Other Specifications

Power amplifier section

Outputs	Speaker outputs with bullet connectors
Speaker impedance	4-8 ohms
Maximum power output	20 W x 4 (at 4 ohms) Measured at 14.4 V

CD player section

System	Compact disc digital audio system
Frequency response	10 - 20,000 Hz \pm 3 dB
Wow and flutter	Below the measurable limit
Signal-to-noise ratio	90 dB
Laser Diode Properties	
Material	GaAlAs
Wavelength	780 nm
Emission duration	Continuous
Laser out-put power	Less than 44.6 μ W*

*This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

General

Tone controls	Bass \pm 10 dB at 100 Hz Treble \pm 10 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Current drain	1 A (CD playback) 1.5 A (during disc loading or eject)
Operating temperature	-10°C to 50°C (15°F to 120°F)
Dimensions	Approx. 178 x 50 x 155 mm (w/h/d) (7 $\frac{1}{8}$ x 2 x 6 $\frac{1}{8}$ in.) not incl. projecting parts and controls
Mass	Approx. 1.5 kg (3 lb. 5 oz.)
Supplied accessories	Mounting hardware (1 set) Power input lead (1) Face plate case (1)

Design and specifications subject to change without notice.

Specifications (Continued)

Tuner section

FM		AM	
Tuning range	87.5 - 107.9 MHz	Tuning range	530 - 1,710 kHz
Antenna terminal	External antenna connector	Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz	Intermediate frequency	450 kHz
Sensitivity	12 dBf	Sensitivity	30 μ V
Selectivity	75 dB at 400 kHz	Signal-to-noise ratio	55 dB
Signal-to-noise ratio	65 dB (stereo), 70 dB (mono)	Harmonic distortion at 1 kHz	0.3%
Harmonic distortion at 1 kHz	0.5% (stereo), 0.3% (mono)		
Separation	35 dB		
Frequency response	30 - 15,000 Hz \pm 3 dB		

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.

CD operation

Trouble	Cause/Solution
CD play does not start.	<ul style="list-style-type: none"> Dusty or defective disc. The ambient temperature is more than 50°C (120°F).
The disc cannot be loaded or is automatically ejected.	<ul style="list-style-type: none"> A disc is already loaded. The disc is inserted with the labeled side downwards.
The operation buttons do not work.	The built-in microprocessor has malfunctioned. → Press the reset button.
The sound skips due to vibration.	<ul style="list-style-type: none"> The unit is installed at an angle of more than 20°. The unit is not installed on the sturdy part of a car. Dusty or defective disc.

Radio reception

Trouble	Cause/Solution
Preset tuning is not possible.	<ul style="list-style-type: none"> Memorize the correct frequency. The broadcast is too weak.
Automatic tuning is not possible.	The broadcast is too weak. → Use manual tuning.
The "STEREO" indication flashes.	<ul style="list-style-type: none"> Tune in precisely. The broadcast is too weak. → Press the SENS button to enter the MONO mode.

General

Trouble	Cause/Solution
No sound.	<ul style="list-style-type: none"> Adjust the volume with the + button. Set the fader control to the center position on the 2-speaker system.
Indications do not appear on the display window.	Remove the front panel and clean the connectors. See "Cleaning the Connectors" of "Maintenance" for details.

Error displays

The following indication will flash for about five seconds.

Display	Cause	Solution
E-04	The disc is dirty.	Clean the disc.
	The disc is inserted upside down.	Insert the disc correctly.
E-99	The CD player cannot be operated because of some trouble.	Press the reset button.

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