

MULTIMEDIA NAVIGATION **PHILADELPHIA 855**



Enjoy it.

CAUTIONS

Safety Notes

This car radio has been manufactured according to established safety guidelines. However, dangers may still occur if the safety notes in this manual is not observed. This manual is intended to familiarize the user with the car radio's important functions. Read this carefully, prior to using the car radio. Keep this manual in an easily accessible location. In addition, do observe the instructions of the devices used in conjunction with this car radio.

Road Safety

Always observe the following notes for road safety:

- Car radio must be used in a way that compliments safety of the user when driving the vehicle. It is recommended for the user to at an appropriate location when operating the car radio. While driving, user is not recommended to use applications that can be prone to distraction e.g. streaming to videos, entering destination etc.
- User is recommended to proceed with proposed driving routes only if it does not violate any traffic regulations. Local traffic signs and regulations always prevail over the routes proposed.
- User is advised to keep the volume of the car radio to a moderate level for the protection of the ears and to increase the ability to hear any emergency warning signals (e.g. police and ambulance sirens). Do not increase the car radio volume while the car radio is muted as it is not audible. The car radio volume can be too loud when the car radio is unmuted.

General Safety Notes:

Observe the following for protection against injuries:

- This car radio is intended for installation and operation in a vehicle with 12V vehicle system outage, hence the radio unit must be installed in a DIN slot. Observe the output limits of the car radio. Do not dismantle or modify the car radio. Installation and repairs, if necessary, should be performed by a specialist. We are not liable for any loss or damage caused or resulting from unauthorized disassembly or modification to the product.
- This car radio's core components may result to damage when the car is driven on bumpy roads for a prolonged period of time or if it is used to play non-standard or severely damaged discs.

- Please do not operate the car radio under extreme temperature conditions (extremely high temperature or extremely low temperature); make sure that temperature within the car ranges from -20°C to 80°C before you connect the car radio to the power supply
- For abnormalities, please refer to the "Trouble-shooting" section. If the problem cannot be resolved, please press the Reset button to recover its factory settings. Otherwise, please contact respective installer/seller directly for help.
- As SD/USB file formats, codecs, bitrate, resolution and other parameters available in the market are not all the same, there is no guarantee that this car radio can play all media file formats.
- Different cars may have different configurations. It is normal that some CAN-Bus functions cannot be enabled because it is not supported by the user's car or this car radio.
- Solvents, cleaning and scouring agents as well as dashboard spray and plastics care products may contain materials which can damage the surface and screen of the car radio. Use only dry or slightly moistened cloth to clean the car radio surface and screen.

This manual may be updated from time to time without any notice.

Road Safety

In no event shall Blaupunkt be liable for any direct, indirect, punitive, incidental, special consequential damages to property or life and whatsoever arising out of or connected with the use or misuse of our products.

USA & CANADA: This product is not intended for sale in the United States and Canada. If purchased in the U.S. or Canada, this product is purchased on as-is basis. No warranty, whether expressed or implied is provided in the U.S. or Canada.

Scope of Delivery

The scope of delivery includes:

- Car sound system
- Manual
- Power Cable
- Sub Hardness
- RCA Cable
- Aux In Cable
- Reverse Camera Cable
- USB Cable 2-ways
- GPS Antenna

KEY FUNCTIONS



- ① RADIO**
Start radio mode
- ② MEDIA**
Start media modes (Disc, Navigation, SDHC, USB, Bluetooth, Aux In)
- ③ PHONE**
Start Bluetooth Phone Connection
- ④ EQ**
Start equalizer mode
- ⑤ POWER BUTTON**

 - Press to turn On / Mute / Unmute
 - Press & hold to turn Off
 - Turn knob to adjust volume
- ⑥ MAP SLOT**
Micro SD card reader for navigation data
- ⑦ MICRO SD CARD SLOT**
Micro SD card reader
- ⑧ RESET**
Restoring the original factory settings of the device.
Caution! All personal setting will be lost!
- ⑨ TUNER**

 - Press to Play / Pause
 - Turn knob to browse files / frequency
- ⑩ SETUP**
Start/Exit Settings menu
- ⑪ HOME**
Return to HOME menu
- ⑫ DISC**
Start Disc mode
- ⑬ NAVI**
Insert map to ⑥ to operate
- ⑭ EJECT**
Eject the DVD/CD
- ⑮ BRIGHTNESS SWITCH**
Set touchscreen brightness (Bright, Standard, Soft, Sleep)
- ⑯ CD/DVD SLOT**
- ⑰ Left / Right Button**
Select Files / Stations

OPERATIONS

HOME PAGE

Press **11** to return to HOME PAGE



RADIO

At HOME PAGE, select **RADIO** or press **1** to play radio stations.



Press **17** to change stored radio stations

Automatic Storing & Program Scanning

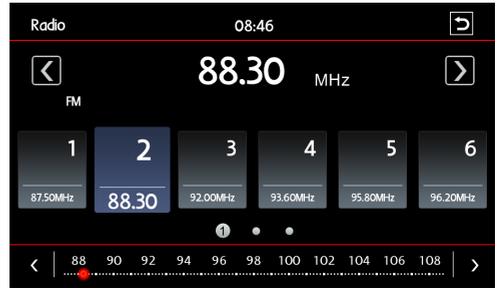
- Press **Band** to switch between FM (18 preset) & AM (12 preset).
- Press **Scan** to automatically search and save stations into all preset stations.
Note : Saved radio stations will be overwritten when **Scan** is selected.

Radio Stations List

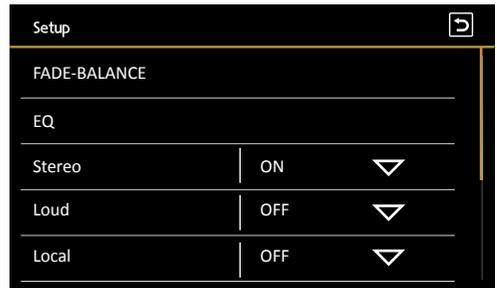
- Press **List** to view the saved radio stations.

Storing Stations Manually

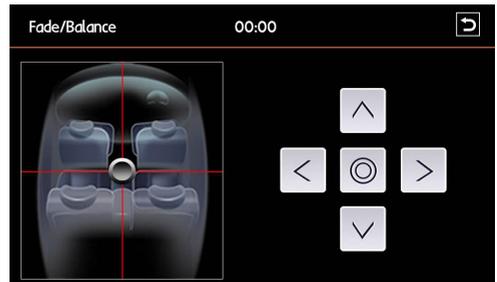
- Press **Manual** or rotate knob **9** to search radio stations from the frequency bar.
Press & hold 3sec the desired station number to save the current frequency.



Setup



- Select **FADE-BALANCE** to change the sound output position.
Move **9** to change sound output position.
Select **17** to return to **Setup**.

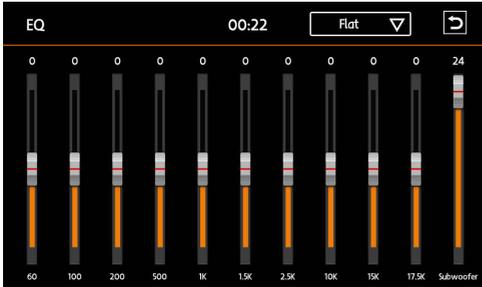


OPERATIONS

- Select **EQ** or press **(4)** to change equalizer setting. Manually change the EQ setting by moving the EQ bars or select **Flat** for preset EQ mode as below

Flat / Pop / Classic / Rock / Jazz / Techno /
Optimal / User

Select **(5)** to return to **Setup**.



- Press **Stereo** to tune into STEREO mode to receive FM signals. Switching to MONO helps to reduce noise when signal is poor.
- Press **Loud** to activate or deactivate the function.
- Press **Local** to switch between LOCAL or DISTANCE. The unit will reduce the receiving sensitivity when searching in LOCAL mode. Therefore, only strong signal stations will be received. DISTANCE mode will allow device to receive weak signal stations.
- Press **RDS** to activate Radio Data System for standard communication protocol that allows traffic reports to be received and provides other facilities, including the radio station's name to be seen on the radio's display.
Note : Press **(10)** to change TA, AF, EON, CT at Radio option.



OPERATION

MEDIA

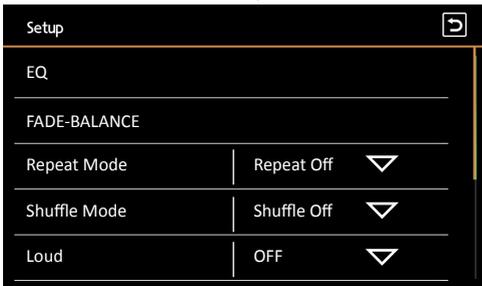
- The device support DVD, +/-R, +/-RW, -ROM, VCD, CD-DA, -ROM, -R/-RW, USB 2.0 and Micro SDHC.
Note : To ensure proper functioning, use only original CD/VCD/DVD. Blaupunkt cannot guarantee the flawless function of copy-protected discs and all disc blanks, USB data carriers and memory cards available in the market.
- Device will automatically play files when **SDHC / USB / DISC** is inserted.
- At **HOME PAGE**, select **SDHC / USB** or press **(2)** to play media files in MicroSD / USB, or
- At **HOME PAGE**, select **DISC** or press **(12)** to play CD / VCD / DVD.

Audio Player



Setup

Press **Setup** for Media Setting.

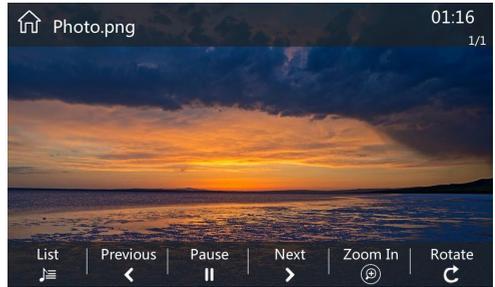


- Select **EQ** or press **(4)** to change equalizer setting. Manually change the EQ setting by moving the EQ bars or select **flat** for preset EQ. Select **(2)** to return to **Media Setting**. (Refer **RADIO OPERATION** for more details)
- Select **FADE-BALANCE** to change the sound output position. (Refer **RADIO OPERATION** for more details)
- Select **Repeat Mode** to set Repeat All / Repeat Once / Repeat Folder / Repeat Off.

- Select **Shuffle Mode** to activate / deactivate shuffle/random play function.
- Press **Loud** to activate or deactivate the function.

Note : Media Setting is available at Audio Player only

Photo Player



Video Player (CD)



Video Player (VCD)



OPERATION



1. Next page
2. Press to skip to previous file / press & hold to rewind
3. Pause/Play
4. Press to skip to next file / press & hold to forward
5. Stop
6. Menu/List
7. Eject
8. Previous page
9. Repeat
10. Video Pin (Press to select start & end of clip to repeat, press Pin again to undo the clip selection)
11. Shuffle play
12. Select track/folder/scene
13. Zoom in/out
14. Left/right audio

Video Player (DVD)



1. Next page
2. Previous page
3. Pause/Play
4. Next page
5. Stop
6. Menu/List
7. Eject



1. Next page
2. Press to skip to previous file / press & hold to rewind
3. Pause/Play
4. Press to skip to next file / press & hold to forward
5. Stop
6. Menu/List
7. Eject
8. Previous page
9. Repeat
10. Video Pin (Press to select start & end of clip to repeat, press Pin again to undo the clip selection)-
11. Subtitle
12. Select track/folder/scene
13. Zoom in/out
14. Left/right audio

List

- At any Player, press **List** or rotate **9** to view all media files in **SDHC / USB / DISC**.
- Press **9** to pause/play media files.

Note : The respective audio source can be selected only if a corresponding Data Carrier is inserted or a corresponding device is connected. The duration of the reading depends on the data volume and design of the device or data carrier.

The device only support standard USB memory disc approved by Microsoft USB MP3 player comes in different models with different standards. Therefore, not every MP3 player are supported. Remove battery (if any) from MP3 before connecting to avoid short-circuit.

OPERATION

NAVIGATION

- Ensure GPS SDHC is inserted into ⑥ before operating.
- At **HOME PAGE**, select **Navigation** or press ⑬ to start Navigation.

Polnav Main Menu (Subject to change)

- Select **Find** to search for location according to **Address / POI / Keyword / Favorite / Recent / Current Position / Coordinate / Photo / Category**.
- Select **Map** to return to map screen or Navigation/Free run screen.
- Select Route to access into Itinerary, **Route Options / Turn List / Best Fit / Cancel Route / Demo / Stop Demo / Bypass Waypoint / Detour**.



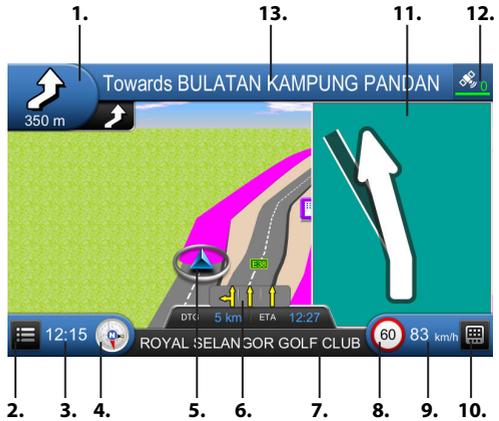
- All submenus contain top bar with **Return, Region, Map** and **Menu** button.



Navigation Screen

1. Show distance to the next turn, maneuver at next turn and serial turn (Select to repeat voice instructions).
2. Return to Main Menu.
3. Current Time
4. Switch View : 2D North-up / 2D Head-up / 3D / Head-up
5. Current Position
6. Lane Marking Instruction
7. Current Street/City info (Select to switch info)
8. Speed Limit

9. Current Speed
10. Sub Menu
11. PIP (Picture in Picture)
12. GPS signal status : Green (Connected) / Red (Lost Connection)
13. Next Turn
14. Road Sign
15. Remaining Distance
16. Estimated Time Arrival



OPERATION

BLUETOOTH

- At **HOME PAGE**, select **Bluetooth** or press **3** to start Bluetooth connection.
Note : Device will automatically connect to your mobile phone if connection has been set up before.

Pre-pair Bluetooth

- Ensure mobile phone supports Bluetooth function before pairing. Different mobile phone will have different emissive power. To get the best connection, it is recommended to stay within the range of 3m (phone to device) without any object obstructions along the distance.

Bluetooth Pairing

- Turn on mobile phone's Bluetooth to set up. (Please refer to the instruction manual of the mobile phone on how to operate Bluetooth) "PHILADELPHIA 855" should appear on your available Bluetooth scanning list. Select "PHILADELPHIA 855" then input password "0000", if password is required. Press "YES/OK/ALLOW" to confirm when first pairing prompt message request to access your mobile phone.  will be displayed on screen when pairing successful.



Dial No.

- Press **Dial No.** to dial new number.
Press  after keying number to dial or press  to answer incoming calls. Press  to end calls.
Note : To redial last called number, press **3** twice.



Contacts

- Press **Contacts** to view saved contacts. If contacts are now showing on the device screen, press  to download contacts.



Note : The duration of the reading depends on the data volume of mobile phone's phonebook.
Ensure to press "Allow" on mobile phone to allow device to have phonebook access of the mobile phone.

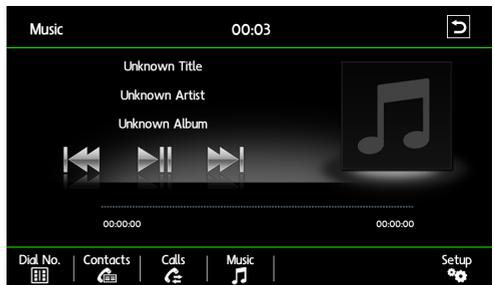
Calls

- Press **Calls** to view call records.



Music

- Press **Music** to sync mobile's music player to device.
Note : Ensure mobile phone's music player is turned on before syncing.



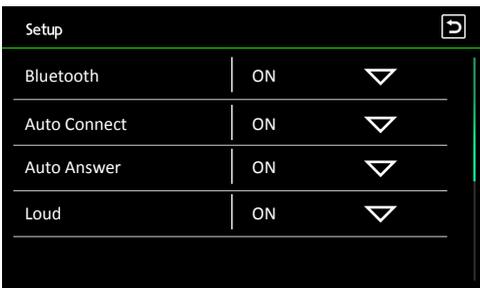
OPERATION

Setup

- Press **Setup** for Bluetooth Setting.



- Select **EQ** or press **4** to change equalizer setting. Manually change the EQ setting by moving the EQ bars or select **Flat** for preset EQ. Select **Back** to return to **Media Setting**. (Refer **RADIO OPERATION** for more details)
- Select **FADE-BALANCE** to change the sound output position. (Refer **RADIO OPERATION** for more details)
- Select **Pair List** to change pairing device.
- Select **Select** to search for nearby Bluetooth device.



- Select **Bluetooth** to active or deactivate the function.
- Select **Auto Connect** to active or deactivate the function.
- Select **Auto Answer** to active or deactivate the function.
- Select **Loud** to active or deactivate the function.

OPERATION

CAR INFO

At **HOME PAGE**, select **Car Info** to display :

- Car signals
- Door status
- Handbrake status
- Fuel level
- Car odometer
- Car temperature
- Clock
- Current media playback



Air Conditioning (A/C) Mode

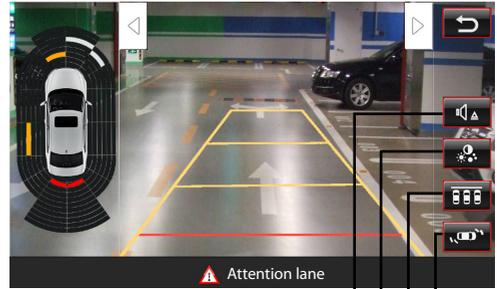
Ensure device is connected to vehicle's Air Conditioning system to enable A/C status to be reflected on the device.

Device will automatically switch to A/C display whenever A/C is being adjusted. The display will appear with delay of at least 5sec before returning to previous mode.



Reverse Mode

Device will automatically switch to Radar Mode and display reverse view when vehicle is reversing. Reverse view will stop and return to previous mode when the car is parked or moving.

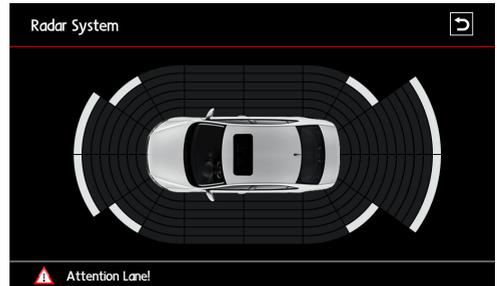


1. 2. 3. 4.

1. Radar warning sound - On / Off
2. Rear-view display setting - Brightness, Contrast, Ratio, Saturation, Resolution.
3. Colorimetric parameter setting - Brightness, Contrast.
4. Radar Interface display - On / Off

Radar Function

- Front & rear radar simulation view will appear when vehicle is in Park mode.
- Some vehicles may install a 360° panoramic camera. The reversing path can be turned off in the System Setting.



Right-view Mode (Optional)

- For vehicles with right-view camera, connect the device's right video input cable with video output port of camera.
- When the vehicle's right turn signal is on, the screen will automatically switch to right-view mode and return to previous mode when vehicle's right turn signal is off.
- For vehicles without these protocols, users can use right-view detection line to control the right-view camera to enable its right-view function.

OPERATION

Steering Wheel Control (SWC)

This car radio is compatible with the following Multi-Function Steering Wheel buttons:

VOL+ : Increase Volume

VOL- : Decrease Volume

SEEK+ : (Audio Mode) Next Song; (Radio Mode) Search Radio Station backward

SEEK- : (Audio Mode) Previous Song; (Radio Mode) Search Radio Station forward

MUTE : Mute the system

PHONE:

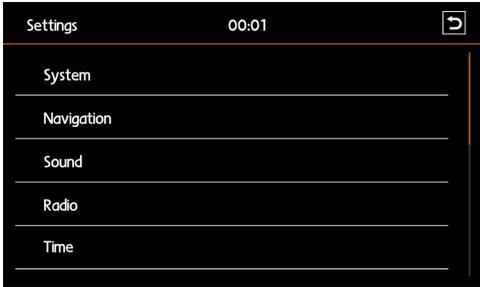
1. Press to receive incoming call / Press & hold to reject incoming call.
2. Press to switch to **PHONE** mode when not receiving/dialing call / Press & hold to redial last called number.
3. Press to end call during conversation to end call / Press & hold to switch between Private Call / Hands-free mode.



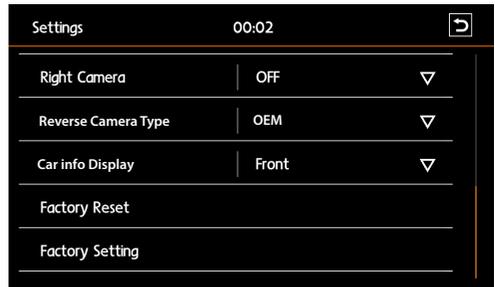
OPERATION

SETUP

At **HOME PAGE**, select **Setup** or press **(10)** to go to Setting.



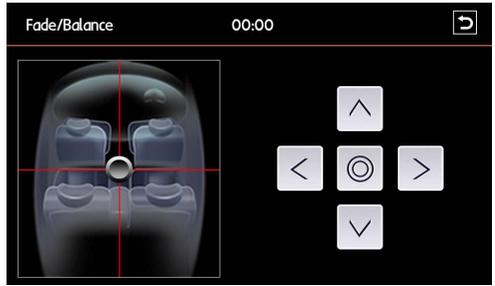
System Setting



1. Language : Set the corresponding radio language (Simplified Chinese, English, Deutsch, French, Russian, Spanish, Danish, Portugese, Traditional Chinese, Italian, Greek).
2. Beep : Set whether there will be a beeping sound when the touch screen is touched (On, Off)
3. Brightness : Set the brightness of the car radio (Bright, Standard, Soft, Sleep)
4. Microphone : Switch between original/aftermarket car microphone (Internal, External)
5. AC Info : Set the duration to display the air conditioning interface before returning to previous interface (OFF, 3 seconds, 5 seconds, 8 seconds)
6. Reverse Sensor : Set to display the reverse radar when the car reverse gear is engaged (On, Off)
7. Reversing Path : Set to display the reversing path when the car reverse gear is engaged (On, Off)
8. Reverse Mute : Set to turn on/off the reversing sound when the car reverse gear is engaged (On, Off)
9. Warning Tone : Set to turn on/off the warning tone when there's object near to the car (On, Off)
10. Video-In-Motion : Set to turn on/off the capability to play video while the car is in motion (On, Off)
11. Camera Video : Set the view of the reverse video when the car reverse gear is engaged (Normal, Mirror)
12. Right Camera : Set to turn on/off the right-view lane changing system (On, Off)

OPERATION

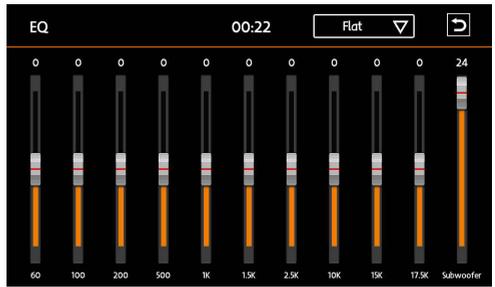
13. Car Info Display : Set the duration after which the car info will be displayed automatically on the car radio (OFF, 3 min, 5 min, 8 min)
14. Reverse Back Light : Detection for the response time for different rear camera timing.
15. Factory Reset : To reset the car radio based on original factory setting. User will need to confirm/-cancel this action.
Caution: All user's saved settings and info will be deleted.



Navigation Setting



1. Background Music : Turn on/off the Navigator's background music. If this is off, no other audio source will play when the Navigation interface is running. (On, Off)
2. Navigation Path : Specify the correct navigation path to be run by the car radio
3. GPS Information : Launch the Navigator's Satellite Signal-receiving Interface. This will detect whether the car radio is able to receive satellite signal. If yes, it means that GPS signal-receiving module is working normally.
4. Navigation Update : User can copy the latest Map into USB drive. Press this to upgrade the map (this feature depends on the navigation software running on the car radio).



1. FADE-BALANCE : To enter balance adjustments for 4 speakers. Press any position in the seat volume balance adjustment interface on the right part of the EQ settings Main Interface, you can adjust the left, right, front and rear volume allocation for different seats.
2. EQ : Slide the bars and respectively to make adjustments to Subwoofer, Bass, Mid and Treble. Press the dropdown box to switch between for eight preset equalizer settings (Flat, Pop, Classic, Rock, Jazz, Techno, Optimal, User).
3. Loud : To turn on/off the speaker loudness (On, Off)
4. Restore Default EQ : To reset to the factory default sound settings



Radio Setting



OPERATION

1. Radio Region : Set the radio region (USA, China, Europe, OIRT)
2. LOC/DX : Specify whether to detect local/far radio stations (Distance, Local)
3. Stereo : To turn on/off the stereo (On, Off)
4. RDS : To turn on/off the car radio RDS feature (On, Off). When **RDS** is enabled, you can respectively press **TA**, **AF**, **EON** and **CT** to turn it On/Off (**TA** – Traffic Announcement, **AF** – Alternative Frequency, **EON** – Enhanced Other Network, **CT** – Clock Time).
Note: This function is only available for countries with European **RDS** standards; for other countries, please set this to Off to avoid functionalities issues with the car radio.

Time Setting



1. Setup Time : To set the car radio hour/minute settings.
2. Setup Date : To set the car radio year/month/day settings.
3. 24 Hour Format : Switch between 24-hour system and 12-hour system.
4. Sync GPS Time : Switch between the car radio GPS Time or internal time.

GENERAL

Working Voltage 12V
Working Voltage Range 10.5-14.8
Maximum Working Current 15A
Dimensions 220 Width
of Higher Part (210 Width of Lower Part) x 130 x 175mm
Ground System Negative Electrode
of the Car-mounted Storage Battery

FM

Frequency Range 87.5 - 108MHz
SNR 60dB
Stereo Separation (1KHZ) ≥ 30 dB
Radio Station Search Level 24 ± 2 dBuV
Degree of Distortion 0.5%

AM

Frequency Range 522 - 1620MHz
Noise-Limited Sensitivity (S/N=20Db) ≥ 26 dB
SNR 55dB

DVD

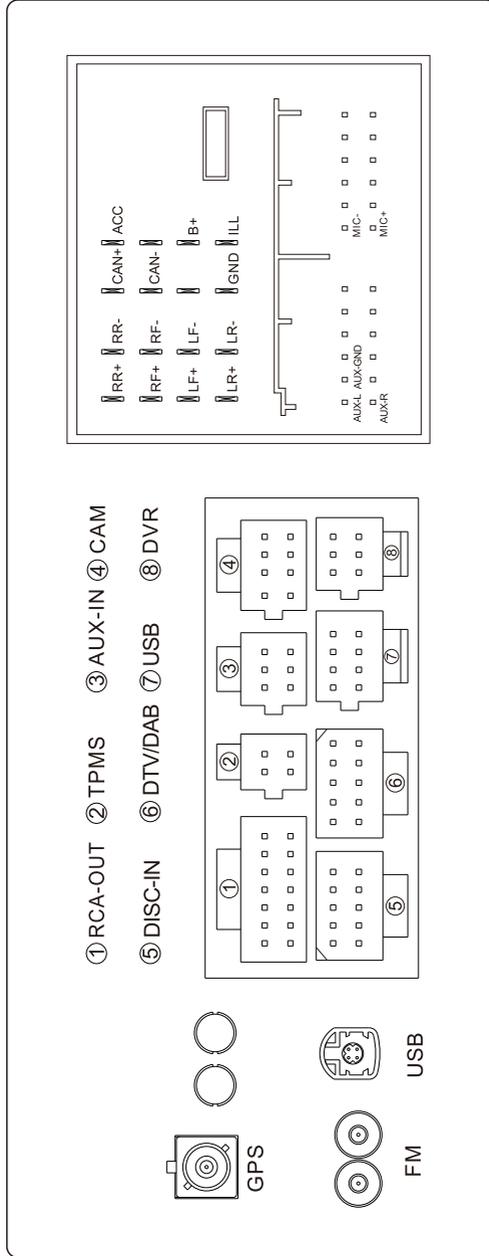
SNR 70dB
Frequency Response Range 20Hz - 20kHz
Degree of Distortion 0.1%

TROUBLESHOOTING

If any of the following problems happens to your system, please resort to Troubleshooting for possible solutions. Consult Blaupunkt authorized dealer if problem persists.

Problems	Possible Causes	Solutions
Unable to start up	The car key is not inserted into the ignition; ignition is off.	Insert the car key and turn on the ignition.
	Power Cable is not inserted into the main body.	Insert the power cable.
	Burnt power fuse .	Replace it with a new one of the same specification.
	Exhausted car battery.	Charge or replace the car battery.
No sound	Audio cables are not properly connected to the unit.	Ensure proper connection of the audio cables.
	Mute setting is on.	Unmute the volume.
	Low volume.	Adjust the volume.
	No sound from front, rear, left and right speakers due to Fade-Balance settings.	Press EQ, and enter "Sound Equalizer" menu to adjust "left & right/front & rear balance".
Unable to play the Disc	The Disc is not inserted properly.	Re-insert the Disc and ensure orientation is correct.
	The Disc is scratched, distorted or stained.	Replace it with a functioning disc.
	The Disc is not readable by this system.	Please confirm the format of the file saved in the Disc, and make sure the Disc is playable.
Dim screen or black-&white screen while playing DVD	Brightness, contrast ratio and color values are excessively adjusted.	Adjust brightness, color and contrast ratio values, and make sure they are in normal range.
Slow in SD card reading	The pixel of the picture file exceeds this system's capacity.	Replace it with a new audio/video SD card with compatible file formats.
	SD card may contain corrupted files or a virus.	
No rear-view reverse image	The rear camera is not appropriately connected with power supply.	Please check the camera's power supply. There is a red reverse power-supply line, and it will automatically display 12V.
	Camera's signal line is not well connected with this radio.	Insert the camera's signal line into the interface port of this machine.
Unable to search enough radio stations or fix on a radio station	Radio's antenna is not well inserted.	Fix radio antenna installation.
GPS is unable to perform positioning and Navigation	Map has not been set up.	Set up the map – Refer to the Navigation section --> Initial Setup section in this manual.
	GPS antenna is not well inserted.	Re-insert GPS antenna properly
	The car may arrive at a place where GPS signal is blocked.	Move car to area where GPS signal reception is better.
	Blind Areas that are not covered by the Navigation Map.	Update the Navigation Map.
Unable to correctly find the destination	The destination keyed-in is not included in the Navigator's database.	Confirm that the destination input is correct; can try to input another name of the place, or input any other landmark nearby.

WIRING DIAGRAM



SUPPORTED FORMAT

Format	Supports
Video Format	RMVB
	AVI
	MOV
	MP4
	3GP
	WMV
	MPG
	VOB
	MKV
	FLV
	h.263
	H.264
	MPEG4
Audio Format	FLAC
	APE
	WMA
	MP3
	ACC
	OGG
Picture Format	JPEG
DVD Format	DVD
	DVD-ROM
	VCD
	CD-ROM
	CD-RW

