

CAN RADIO / USB MP3 / WMA / DAB+ / Bluetooth®

OWNER'S MANUAL



RADIO DATA SYSTEM



WORLDWIDE TUNER



DIGITAL AUDIO BROADCASTING



MP3 / WMA



Bluetooth®



LOUDNESS CONTROL



LOGIC ON LOGIC OFF



BACKUP MEMORY



USB CONNECT



AUX IN

Safety Information

Thank you for purchasing this product, please read the manual carefully before operating, and reserve it for future reference.

Precaution

- USE only in a 12-volt DC or a 24-volt DC negative- ground electrical system according to the right radio variant. (Refer to variants table)
- Disconnect the vehicle's negative battery terminal while mounting and connecting the unit.
- When replacing the fuse, be sure to use one with an identical amperage rating.
- Using a fuse with a higher amperage rating may cause serious damage to the unit.
- Make sure that pins or obstacles do not get inside the unit, they may cause malfunctions, or create safety hazards such as electrical shock.
- If you have parked the vehicle for a long time in hot or cold weather, wait until the temperature in the vehicle becomes normal before operating the unit.

Before operation

- Do not raise the volume level too high. Keep the volume at a level at which you can hear outside warning sounds (horns sirens, etc.).
- Stop the vehicle before performing any complicated operations.

Caution

- Do not open the cover and do not repair by yourself. Ask your authorised dealer for help.

Note:

- 1 According to models with different wiring harness to connect the definition of the specific content, please refer to the model label.
- 2 Specifications and the design are subject to change without notice due to improvements in technology.

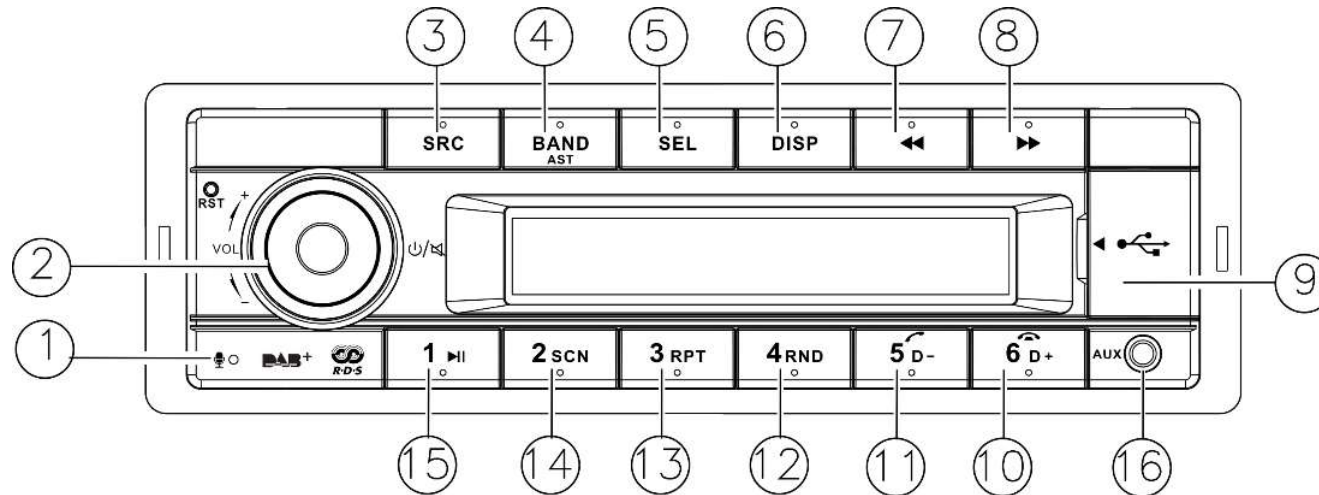
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Declaration of Conformity:

Continental Trading AG declares the radio has been so constructed that it complies with basic requirements and other relevant regulations of the European Union directives 2014/53/EU. You can find the declaration of conformity on our website www.continental-automotive.com

Panel Controls



- | | | |
|--|--|--|
| <p>(1) Microphone</p> <p>(2) Power button
- On/Off (long press)
- Mute (short press)
- Rotate the VOL knob to adjust volume</p> <p>(3) Source Button
- Select Source (short press)
- Select PTY Mode (long press)</p> <p>(4) Band /AST Button
- Band select (short press)
- Auto store/DAB Service Scan (long press)</p> <p>(5) Select Button
- Manual and Automatic Equalizing
- Select Menu entry in user Menu</p> | <p>(6) Display button
- Display System clock,
- Display PTY Information in Radio mode
- Display MP3 Information (USB Mode)</p> <p>(7) << Button
Previous Station/Previous Track</p> <p>(8) >> Button
Next Station/Next Track</p> <p>(9) USB slot</p> <p>(10 – 15) AM/FM, DAB Favorites</p> | <p>(10) MP3 folder ahead
Phone: Hang up</p> <p>(11) MP3 folder back
Phone: Contact mode/Dial/Private mode</p> <p>(12) MP3 Random play</p> <p>(13) MP3 repeat play</p> <p>(14) Program intro Play (Scan)</p> <p>(15) MP3/Bluetooth Play/Pause</p> <p>(16) Front auxiliary input</p> |
|--|--|--|

General Operation

Power ON/OFF , Mute

To Switch on the Radio push the Power ON/OFF button.

To switch off the Radio push the Power ON/OFF button for more than 2 sec.

The Radio will be muted by pushing the Power ON/OFF button for less that 2 sec.

Ignition Logic

With ignition logic activated (Default setting) the Radio can be switched on and off manually even if the vehicles ignition pin is not connected. To avoid battery discharge the radio is switched off after 1h without user operation.

System Settings

The system settings menu is entered by long pressing the [DISP] button. To access the available menu entries push the search buttons [<< />>]. To select the available options of each menu entry rotate the [VOL] knob.

For details see chapter system settings of this manual.

Select Source

Press the [SRC] button to switch between and select available sources: TUNER->USB->AUX->Bluetooth->DAB. USB and Bluetooth is only visible in the menu when connected.

Reception Area

This Radio is designed to work in different regions with different frequency ranges.

The Reception area can be adjusted via the System Settings menu. The default setting is "EUROPE".

The following Areas are available:
EUROPE/ASIA/JAPAN/NORTH AFRICA/USA

Clock Setting

The clock time can be adjust manually by long pressing the [DISP] button to set the time. Select [CLOCK] with the search buttons [<< />>]. Press [SEL] button and rotate [VOL] knob to adjust the minutes. Press search buttons [<< />>] to select adjust hours. Rotate [VOL] knob to adjust the hours. Press the [SEL] button to exit the clock setting.

Volume and Sound

Volume

To adjust the Volume rotate the [VOL] knob

Predefined sound effects

The Radio provides different predefined sound effects .

Press the [SEL] button to enter the Sound settings menu. Rotate the [VOL] knob to select one of the following options: EQ OFF -> POP -> ROCK -> CLASSIC -> JAZZ -> CUSTOM.

BALANCE, FADE/SUB and Loudness

To adjust Balance, Fader and Loudness press the [SEL] button and then push [<< />>] button to select BALANCE -> FADER/SUB GAIN -> LOUDNESS. Rotate the [VOL] knob to adjust Balance, Fade and Loudness according your needs.

Fader is replaced by SUB Gain to adjust the subwoofer gain when the Subwoofer is activated.

Manual Sound Adjustment

For manual sound adjustment first select CUSTOM. Push the [SEL] button again and then select BASS or TREBLE with the [<< />>] button. Rotate the [VOL] knob to adjust BASS and TREBLE according your needs.

AM/FM Radio

AM/FM Radio Selection

To access AM/FM Radio press the [SRC] button and select Tuner

Select Band

Press the [BAND] Button to select one of the available Radio Bands. The Radio bands will be changed in the following order:

FM1 -> FM2 -> FM3 -> MW1 -> MW2 -> LW (for Europe region)

FM1 -> FM2 -> FM3 -> AM1 -> AM2 (for US region)

The MW(AM) and LW Bands can be deactivated by the user via the system settings menu.

Automatic Tuning

For Automatic tuning press the [<< / >>] button. The Radio will search and select the next receivable station.

When Traffic Announcement is activated ("TA = ON") only stations that broadcast Traffic announcements will be tuned.

Manual Tuning

For manual station selection press the [<< / >>] button for longer than 2 sec. "MANUAL" is shown in the display. Pressing the [<< / >>] button again the frequency will be incrementally increased/decreased.

Manual Storing Favourites

There are 18 FM , 12 MW and 6 LW Favourite presets available.

Select the favourite bank where to store the station and tune the station that shall be stored.

Push the preset button longer than 2 sec .to store the station

Recall Stored Favourites

To recall a stored favourite push the according preset button

Auto Memory Store

To search for the best receivable stations and store them as favourite press the (BAND/AST) button for 2 sec. The Radio searches the best receivable station and stores them.

RDS

Many FM Stations in Europe transmit RDS data (Radio Data System) in addition to their audio program. With RDS the user has the following benefits:

- The best audible frequency (AF) of a selected station is tuned automatically for best reception quality.
To enable automatic selection of best audible frequency select "AF=ON" in the Settings menu
- The Radio recognizes Traffic Announcements and can switch to Radio even if an other Audio source is selected.
To enable automatic Traffic announcement select "TA=ON" in the Settings menu
- Some Stations provide regional specific programs. With the regional (REG) function only those frequencies are followed that broadcast the selected regional program. To follow regional programs select "REG=ON" in the Settings menu
- The stations name can be displayed

For further settings see System Menu

DAB Radio

PTY

Via the RDS System FM stations in many countries transmit the type of program (Program Type , PTY) that is broadcasted.

To search for a desired Program type push [SRC] for about 2 sec. and select the Program type by rotating the [VOL] knob.

The Radio will search for a Radio-Program with the selected Program type when the [SEL] button is pushed. "PTY SEEK" is shown in the Display.

If no station with the selected Program Type can be found the last tuned station will be selected and "NO PTY" is shown in the Display.

The following program types are available:

NEWS, AFFAIRS, INFO, SPORT, EDUCATE,
 DRAMA, CULTURE, SCIENCE, VARIED, POP-M,
 ROCK-M, EASY-M, LIGHT-M, CLASSICS-M,
 OTHER-M, WEATHER, FINANCE, CHILDREN,
 SOCIAL, RELIGION, PHONE IN, TRAVEL, LEISURE,
 JAZZ, COUNTRY, NATIONAL-M, OLDIES, FOLK- M,
 DOCUMENT, TEST, ALARM

DAB Radio Selection

DAB/DAB+ Provides radio programs in digital sound quality.

To access Digital Audio Broadcast (DAB) press the [SRC] button and select DAB.

DAB Service SCAN

To search for receivable DAB Services the DAB service SCAN has to be started by pushing [BAND/AST] for 2 sec. "SCAN" is shown in the display.

Tuning a DAB Service

To tune a DAB service push [<< / >>] to select the next/previous DAB service. "Tuning" is shown on the Display.

Storing DAB Favourites

There are 3 DAB favourite bands available. Press the [BAND] Button to select one of the available DAB Bands. The DAB bands will be changed in the following order:
 DAB1 -> DAB2 -> DAB3

Push the preset button longer than 2 sec
 .to store the station

Recall Stored Favourites

To recall a stored favourite push the according preset button

DAB Service List

To get an overview of receivable DAB services a DAB Service List can be displayed.

Push [SEL] for 2 sec. to open the DAB Service List. Rotate the [VOL] Button to scroll through the list of receivable stations.

To tune a DAB service push [SEL]. "Tuning" is shown on the display.

In the case that a Service is temporary not receivable "No Service" will be shown on the display.

Switching between DAB and FM

When the DAB signal quality drops significant it is reasonable to switch and listen to the service via FM.

Switching between DAB and FM (DABFMLNK) can be disabled via the system settings menu

USB/MP3/WMA

Note on MP3

- MP3 is short for MPEG Audio Layer 3 and refers to an audio compression technology standard.
- This product allows playback of MP3 files.
- The unit can not read an MP3 file that has a file extension other than ".mp3".
- If you play a non-MP3 file that has the ".mp3" extension, you may hear some noise.
- In this manual, we refer to what are called "MP3 file" and "folder " in PC terminology as "track" and "Album," respectively.
- Maximum number of directory and files is 65535, including the root directory. Maximum number of files per folder is 1000.
- The unit may not play tracks in the order of Track numbers.
- Supports bit rate from 8 to 320 kbps and VBR (Variable Bit Rate).

Note on WMA

Supports bit rate from 5 to 384 kbps and VBR (Variable Bit Rate).
Supports WMA-TAG

USB Notes

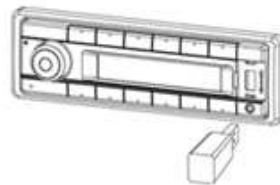
USB functions (flash memory type) MP3 music play.

- USB flash memory 2 in 1 support
- FAT 12/FAT 16/FAT 32 format supported.
- Supports MPEG audio 1, 2, 2.5
- Supports Layer 1, 2, 3.
- Supports ID3 Tag (V1.0, V1.1, V2.2, V2.3, V2.4) - title/artist/album
- USB 1.1 support, USB 2.0 support (For 2.0, speed performance is as USB 1.1)
- Not all USB devices are compatible with the unit.
- USB connector is support maximum work power with 2100 mA.

Loading/ Removal of USB Device

Insert a USB device into the USB-slot "Reading" is shown on the Display. MP3 Playback will start immediate afterwards.

Before removing the USB Device switch to an other Source by pushing the [SRC] button.



MP3 Playback/Pause

To pause and resume MP3 Playback push button [1>].

Next/Previous MP3 Track.

To select the next/previous track push the [←/→] button.

Fast forward/fast rewind.

To fast forward/fast rewind the current track push the [←/→] button longer than 2 sec.

Random Play

To activate random play push the button [4 RND].

Repeat

Push the [3 RPT] button to activate repeat Track/repeat directory/repeat all.

SCAN

To activate/stop the scan function push the button [2 SCN]. In scan mode all titles are played for 10 sec.

Bluetooth

The Bluetooth allows you to utilize your vehicle's built-in audio system for wireless mobile phone or music hands free communication. Some Bluetooth mobile phones have the audio features, and some portable audio players support Bluetooth feature. This system can play audio data stored in a Bluetooth audio device. The vehicle stereo with Bluetooth will be able to retrieve incoming calls, outgoing call and listen to music.

Notes:

- Do not leave the microphone on Bluetooth hands free in the places with wind passing such as air outlet of the air conditioner, etc. This may cause a malfunction.
- If left in places subjected to direct sun, high temperature can cause distortion, discoloration which may result in a malfunction.
- This system will not operate or may operate improperly with some Bluetooth audio players.
- Cannot guarantee the compatibility of all mobile phones together with unit.
- Audio playback will be set to the same volume level as set during telephone call. This might cause problems, if extreme volume level is set during telephone call.

Hands free Operations

Pairing

1. Turn on Bluetooth function of your mobile phone.
2. Enter mobile phone's Bluetooth setup menu.
3. Search for new Bluetooth devices.
4. Select Bluetooth devices from the pairing list on the mobile phone.
5. Enter "1234" as the password (The password default setting is "1234").
This password can be changed in the user settings menu.
6. After pairing successfully, BT and HPF icons will light up.
A2DP icon will light up after A2DP connected

Dial Number

1. Phone dialing
Mobile phone dialing, LCD screen displays dialing information.
2. Unit dialing
Press [SRC] button switch to BT /Audio mode
press [5 D-] to choose the DIAL ON function, press [SEL] button / [←/→] button and rotate the knob to input dialing numbers,

Transfer Call (private mode)

You can switch between hands free call and mobile phone call. Press the [5 D-] button during call.

Answering a call

You can answer an incoming call by pressing the [5 D-] button.
Press the [6 D+] button to reject an incoming call.

BT microphone mute

You can deactivate the microphone. Press the [VOL] knob during the call.

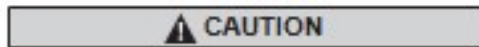
Bluetooth Notes

SMS, Internet and phonebook are not supported in the radio integrated display.

Audio Streaming

What is audio streaming?

Audio streaming is a technique for transferring audio data such that it can be processed as a steady and continuous stream. Users can stream music from their external audio player to their vehicle stereo wirelessly and listen to the tracks through the vehicle's speakers. Please consult your nearest dealer for more information on the product of wireless audio streaming transmitter offered.



Please avoid operating your connected mobile phone while audio streaming as this may cause noise or sound choppy on the song playback.

Audio streaming may or may not resume after telephone interrupt as this is dependent on mobile phone.

The system will always return to Radio mode if audio streaming is disconnected.

Note:

Be sure to read the chapter "Pairing" before proceeding.

BT /Audio mode (A2DP)

Playback/Pause

To pause and resume Playback push button [1>].

Next/Previous Track.

To select the next/previous track push the [<</>>] button.

Note:

Playing order will depend on Bluetooth audio player. When the [<</>>] button is pressed, some A2DP devices will restart the current track depends on the duration of playback.

During music streaming playback, "**A2DP** and **HFP**" will be shown on the display. When A2DP device is disconnected, "**DISCONN**" will be shown on the display. Some Bluetooth audio players may not have play / pause synchronized with this unit. Please make sure both device and main unit are in the same play/ pause status in **BT /Audio** mode.

Dimming

Display and Button Dimming

This radio allows manual or automatic dimming. Select "DIMMING" in the settings menu and select one of the following options:

- Select "OFF" to disable Dimming
- Select "Manual" dimming when the radio is not connected to the vehicles illumination pin.
- Select "Auto" dimming when the Radio is connected correct to the vehicles illumination-pin.

To adjust your favourite brightness-setting for display- and button brightness select manual mode.

Brightness adjustment

Select Manual dimming to adjust Brightness of Display and Buttons

DAY/Night Selection

Select DISMAN and change between day mode and night mode by selecting "DIMDAY" or "DIMNIGHT"

Night Brightness adjustment of display and Buttons

To adjust Night Brightness of the display and buttons select "DIMNIGHT".
Then select "DIM DISP" and adjust the brightness of the Display accordingly.
Then select "DIMNIGHT" and adjust the brightness of the Buttons accordingly.

Day Brightness adjustment of display and Buttons

To adjust Day Brightness of the display and buttons select "DIMDAY".
Then select "DIM DISP" and adjust the brightness of the Display accordingly.
Then select "DIM KEY" and adjust the brightness of the Buttons accordingly

Manual Mode

Change between Day and Night Mode by selecting "DIMDAY" or "DIMNIGHT"

Automatic Mode

In automatic mode the display will change automatically between day and night mode when the radio is correct connected to the vehicles illumination pin.

System Setting Item List

Radio region: Europe

Tuner source

DAB source

AUX/ USB / BT (A2DP) source

Disp button	1s/SEL	VOL KNOB
TA	ON	OFF
AF	ON	OFF
REG	OFF	ON
CT	ON	OFF
DX/LO	DX	LO
PIN code	1234	
Call device	Phone Name 1	
Audio device	Phone Name 1	
ADD DEVICE	SEARCH	
DELETE DEVICE	Phone list	
DIMMING	OFF	MANUAL AUTO
DIM DISP	-3 -2 -1 0 +1 +2 +3	
DIM KEY	-3 -2 -1 0 +1 +2 +3	
DISMAN	DIMDAY	DIMNIGHT
MW	ON	OFF
LW	ON	OFF
SWRC TYPE	RESISTANCE	PWM
Clock	__ :00	00: __
12/24H	24HOUR	12HOUR
VISIBLE CLOCK	OFF	ON
BEEP	ON	OFF
SWRC SET	OFF	ON
LOGIC	OFF	ON
PASS MIC	OFF	ON
AUX SENS	MID	LOW HIGH
Subwoofer	OFF	Freq 55Hz Freq 85Hz Freq 120Hz Freq 160Hz Through
Mix audio	OFF	-3/+3
RPMDVC	OFF	1 2 3 4 5
AERA SEL	EUROPE	ASIA JAPAN LATAM N AFRICA USA

Disp button	1s/SEL	VOL KNOB
TA	ON	OFF
PIN code	1234	
Call device	Phone Name 1 Phone Name 2	
Audio device	Phone Name 1 Phone Name 2	
ADD DEVICE	SEARCH	
DELETE DEVICE	Phone list	
DIMMING	OFF	MANUAL AUTO
DIM DISP	-3 -2 -1 0 +1 +2 +3	
DIM KEY	-3 -2 -1 0 +1 +2 +3	
DISMAN	DIMDAY	DIMNIGHT
DAB FMLK	ON	OFF
DAB ANT	PASSIVE	ACTIVE
INFO SCL	ON	OFF
DAB Alarm	ON	OFF
DAB Traffic	ON	OFF
SWRC TYPE	RESISTANCE	PWM
Clock	__ :00	00: __
12/24H	24HOUR	12HOUR
VISIBLE CLOCK	OFF	ON
BEEP	ON	OFF
SWRC SET	OFF	ON
LOGIC	OFF	ON
PASS MIC	OFF	ON
AUX SENS	MID	LOW HIGH
Subwoofer	OFF	Freq 55Hz Freq 85Hz Freq 120Hz Freq 160Hz Through
Mix audio	OFF	-3/+3
RPMDVC	OFF	1 2 3 4 5

Disp button	1s/SEL	VOL KNOB
TA	ON	OFF
MIC SEL	INTERNAL	EXTERNAL
PIN code	1234	
AUTO CON	ON	OFF
AUTO ANS	OFF	ON
INFO SCL	ON	OFF
Call device	Phone Name 1 Phone Name 2	
Audio device	Phone Name 1 Phone Name 2	
ADD DEVICE	SEARCH	
DELETE DEVICE	Phone list	
DIMMING	OFF	MANUAL AUTO
DIM DISP	-3 -2 -1 0 +1 +2 +3	
DIM KEY	-3 -2 -1 0 +1 +2 +3	
DISMAN	DIMDAY	DIMNIGHT
SWRC TYPE	RESISTANCE	PWM
Clock	__ :00	00: __
12/24H	24HOUR	12HOUR
VISIBLE CLOCK	OFF	ON
BEEP	ON	OFF
SWRC SET	OFF	ON
LOGIC	OFF	ON
PASS MIC	OFF	ON
AUX SENS	MID	LOW HIGH
Subwoofer	OFF	Freq 55Hz Freq 85Hz Freq 120Hz Freq 160Hz Through
Mix audio	OFF	-3/+3
RPMDVC	OFF	1 2 3 4 5

Only in BT mode

Only in BT mode

Only in BT mode

Only in BT mode

Only in BT mode

System Setting Item List

Radio region: Asia/ Japan/ N Africa/ USA

Tuner source

DAB source

AUX/ USB / BT (A2DP) source

Disp button	1s/SEL	VOL KNOB		
DX/LO	DX	LO		
MIC SEL	INTERNAL	EXTERNAL		
PIN code	1234			
Call device	Phone Name 1	Phone Name 2		
Audio device	Phone Name 1	Phone Name 2		
ADD DEVICE	SEARCH			
DELETE DEVICE	Phone list			
DIMMING	OFF	MANUAL	AUTO	
DIM DISP	-3 -2 -1 0 +1 +2 +3			
DIM KEY	-3 -2 -1 0 +1 +2 +3			
DISMAN	DIMDAY	DIMNIGHT		
MW	ON	OFF		
SWRC TYPE	RESISTANCE	PWM		
Clock	__ :00	00: __		
12/24H	24HOUR	12HOUR		
VISIBLE CLOCK	OFF	ON		
BEEP	ON	OFF		
SWRC SET	OFF	ON		
LOGIC	OFF	ON		
PASS MIC	OFF	ON		
AUX SENS	MID	LOW	HIGH	
Subwoofer	OFF	Freq 55Hz	Freq 85Hz Freq 120Hz Freq 160Hz Through	
Mix audio	OFF	-3/+3		
RPMDVC	OFF	1	2 3 4 5	
AERA SEL	EUROPE	ASIA	JAPAN LATAM N AFRICA USA	

Disp button	1s/SEL	VOL KNOB		
PIN code	1234			
Call device	Phone Name 1	Phone Name 2		
Audio device	Phone Name 1	Phone Name 2		
ADD DEVICE	SEARCH			
DELETE DEVICE	Phone list			
DIMMING	OFF	MANUAL	AUTO	
DIM DISP	-3 -2 -1 0 +1 +2 +3			
DIM KEY	-3 -2 -1 0 +1 +2 +3			
DISMAN	DIMDAY	DIMNIGHT		
DAB FMLK	ON	OFF		
DAB ANT	PASSIVE	ACTIVE		
INFO SCL	ON	OFF		
DAB Alarm	ON	OFF		
DAB Traffic	ON	OFF		
SWRC TYPE	RESISTANCE	PWM		
Clock	__ :00	00: __		
12/24H	24HOUR	12HOUR		
VISIBLE CLOCK	OFF	ON		
BEEP	ON	OFF		
SWRC SET	OFF	ON		
LOGIC	OFF	ON		
PASS MIC	OFF	ON		
AUX SENS	MID	LOW	HIGH	
Subwoofer	OFF	Freq 55Hz	Freq 85Hz Freq 120Hz Freq 160Hz Through	
Mix audio	OFF	-3/+3		
RPMDVC	OFF	1	2 3 4 5	

Disp button	1s/SEL	VOL KNOB			
MIC SEL	INTERNAL	EXTERNAL		Only in BT mode	
PIN code	1234				
AUTO CON	ON	OFF		Only in BT mode	
AUTO ANS	OFF	ON		Only in BT mode	
INFO SCL	ON	OFF		Only in BT mode	
Call device	Phone Name 1	Phone Name 2		Only in BT mode	
Audio device	Phone Name 1	Phone Name 2		Only in BT mode	
ADD DEVICE	SEARCH				
DELETE DEVICE	Phone list				
DIMMING	OFF	MANUAL	AUTO		
DIM DISP	-3 -2 -1 0 +1 +2 +3				
DIM KEY	-3 -2 -1 0 +1 +2 +3				
DISMAN	DIMDAY	DIMNIGHT			
SWRC TYPE	RESISTANCE	PWM			
Clock	__ :00	00: __			
12/24H	24HOUR	12HOUR			
VISIBLE CLOCK	OFF	ON			
BEEP	ON	OFF			
SWRC SET	OFF	ON			
LOGIC	OFF	ON			
PASS MIC	OFF	ON			
AUX SENS	MID	LOW	HIGH		
Subwoofer	OFF	Freq 55Hz	Freq 85Hz Freq 120Hz Freq 160Hz Through		
Mix audio	OFF	-3/+3			
RPMDVC	OFF	1	2 3 4 5		

System Setting

AM/FM Tuner Options

TA

Enable /Disable automatic switching to FM-tuner mode in case of incoming Traffic announcements.

TA VOL

To adjust the level volume for the Traffic messages

AF

Enable/Disable automatic selection of best audible frequency in FM-Tuner Mode (RDS).

REG

Enable/Disable automatic selection of better audible frequencies that broadcast different regional content.

CT

Automatic synchronization of Clock with time received via RDS-Signal.

DX/LO

Search Level of AM/FM-Tuner.

AREA SEL

To adjust the AM/FM tuner to your region.

DAB Tuner Options

DAB FMLINK

Enable /Disable automatic switching to FM-tuner when DAB-Signal drops.

DAB ANT

To active 12V DAB phantom power supply, select Active.

INFO SCL (SCROLL)

Enable display of Artist and Song (DLS information)

Dimming Options

DIMMING

To Select Dimming Mode (OFF, Manual, automatic)

DIM DISP

To Adjust Display brightness

DIM KEY

To adjust Button brightness

DIS MAN

To switch between DAY and Night Mode

Bluetooth Options

PIN code

BT Pairing code is 1234 by default, can be changed by pressing the SEL button and adjust each number with the Vol Knob

INFO SCL (SCROLL)

Enable display of Artist and Song

MIC SEL

Use of integrated Microphone in front panel or external Microphone connected by rear connector

AUTO CON

To disable/enable Bluetooth connection

AUTO ANS

The call is automatically accepted after 3 seconds.

System Setting

Steering Wheel Control Options

SWRC TYPE

Selection of Steering Wheel control type (Resistance/PWM)

SWRC SET

To enable/disable steering wheel control

Others

MW

To enable/disable MW Reception

LW

To enable/disable LW Reception

BEEP

To enable/disable confirmation signal

Logic

To enable/disable ignition logic

Clock

To adjust hours and minutes

12/24H

To select 12 / 24 h Clock format

VISIBLE CLOCK

The clock shall be visible on the display even when the radio is switched off

PASS MIC

To activate the passenger microphone input

AUX SENS

To adjust the input sensitivity for the auxiliary inputs (Low Medium and High)

SUBWOOFER

To activate the subwoofer Output instead of the left rear output

MIX AUDIO

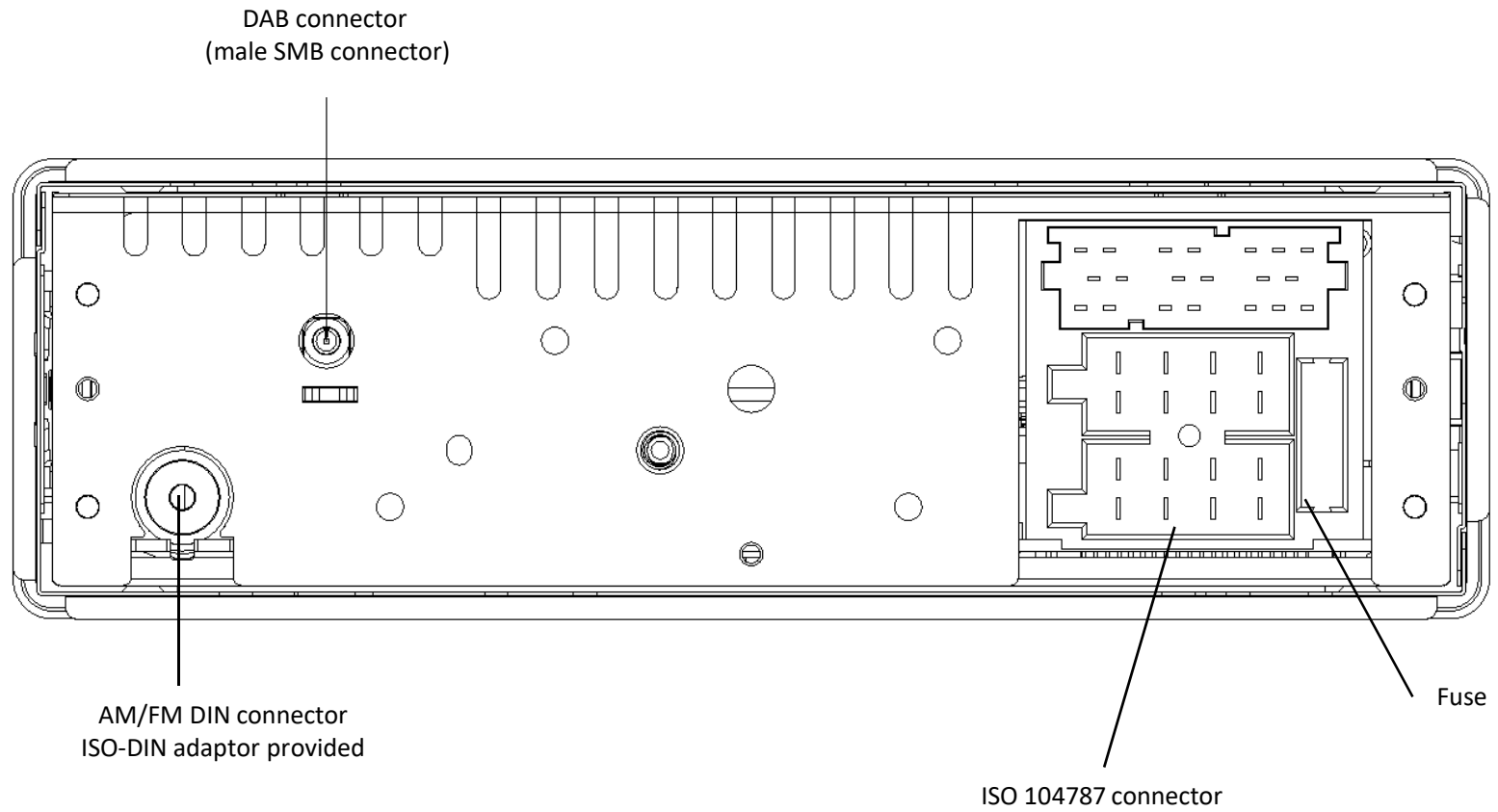
To activate the mix of the sound coming from the rear aux input with the listened source (ex: FM tuner source)

Others

RPMDVC (RPM Drive Volume Control)

To activate the automatic level control and increase or decrease the volume level based on the RPM info coming from the CAN bus messages coming from the vehicle (not available on all the vehicles)

Connections:



Connections:

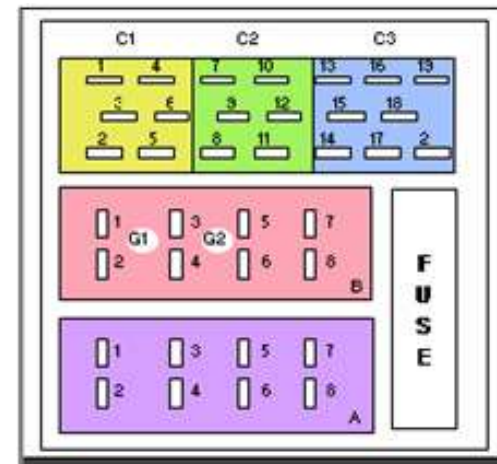
ISO C1	Signal
C1	Aux 2 Rear Left
C2	Aux 2 Rear Right
C3	Aux 2 Ground
C4	NC
C5	SWRC +
C6	SWRC GND

ISO C2	Signal
C7	BT MIC -
C8	FRONT USB D+*
C9	FRONT USB D-*
C10	MIC +
C11	FRONT USB VCC*
C12	FRONT USB GND*

ISO C3	Signal
C13	PA Mic input
C14	Power supply for PA Mic
C15	TX (PA Mic ON/OFF)
C16	Volume level (PA Mic)
C17	PA Mic GND
C18	AUX INPUT FRONT GND*
C19	AUX INPUT FRONT LEFT*
C20	AUX INPUT FRONT RIGHT*

ISO A	Signal
A1	CAN Low
A2	CAN High
A3	Tel Mute Low
A4	12V Accessory
A5	+Antenna
A6	Illumination
A7	12V Power
A8	Ground

ISO B	Signal
B1	Rear Right +
B2	Rear Right -
B3	Front Right +
B4	Front Right -
B5	Front Left +
B6	Front Left -
B7	Rear Left + / Subwoofer +
B8	Rear Left - / Subwoofer -



*only on Blackbox variants

Troubleshooting

The following checklist can help you solve some problems which you may encounter when using the unit. Before consulting it, check the connections and follow the instructions in the user manual. Do not use the unit in abnormal condition, for example without sound, or with smoke or foul smell can cause fire or electric shock, immediately stop using it and call the store where you purchased it.

Problem	Possible cause	Solution
General		
The unit will not switch on.	vehicle ignition is not on. (Only if Logic function is not activated "OFF") Cable is not properly connected. Fuse is burnt.	Turn your vehicle key in the ignition. Check cable connection. Replace fuse with a new fuse of the same capacity.
No sound	Volume is set at minimum or the mute function is on.	Check the volume or switch the mute function off.
The unit or screen does not work normally.	The unit system is unstable.	Press the RESET button.
Mode TUNER		
Unable to receive stations.	The antenna is not connected properly.	Connect the antenna properly. Check if the correct Area is selected.
Poor quality reception of radio station.	The antenna is not fully extended or it is broken.	Fully extend the antenna and if broken, replace it with a new one.
Mode USB		
The USB device cannot be read.	NTFS format is not supported.	Check that the file system is in FAT or FAT32 format. Due to different formats, some models of storage devices or MP3 players may not be read.

Specifications

General

Power supply :	12-volt DC or a 24-volt DC negative ground according to the right radio variant. (Refer to variants table)
Maximum power output:	41 W x 4 channels (4 Ω) for 12-volt variant 15 W x 4 channels (4 Ω) for 24-volt variant
Suitable speaker impedance:	4 Ω
Dimensions (W x D x H):	188 x 114.7 x 58.5 mm
Weight:	0.9Kg

Note: for different bit-rate MP3, ESP time are different;
40 seconds only for bit-rate MP3 file of 128Kbps

FM Stereo Radio

Frequency range:	Refer to AM/FM Tuner table
Usable sensitivity:	< 14 dB μ
Frequency response:	50 Hz – 10 KHz
Stereo separation:	\geq 22dB (1KHz)
Image response ratio:	\geq 40dB
IF response ratio:	\geq 60 dB
Signal/noise ratio:	\geq 50dB

AM/MW) radio

Frequency range:	Refer to AM/FM Tuner table
Usable sensitivity (S/N = 20 dB):	< 35 dB μ

USB Charging: 2,1A 5V

AM/FM tuner	BAND	RECEIVED FREQUENCY	AUTO CHANNEL	
			SPACE	SPACE
American	FM	87.5 - 107.9MHz	200KHz	100KHz
	AM	530 - 1710KHz	10KHz	10KHz
EUROPE	FM	87.5 - 108.0MHz	100KHz	50KHz
	MW	522 - 1620KHz	9KHz	9KHz
	LW	144 - 288KHz	3KHz	3KHz
ASIA	FM	87.5 - 108.0MHz	50KHz	50KHz
	AM	522 - 1629KHz	9KHz	9KHz
Japan	FM	76,0 - 95,0MHz	100KHz	100KHz
	AM	522 - 1629KHz	9KHz	9KHz
LATAM	FM	76,0 - 107.9MHz	50KHz	50KHz
	AM	530 - 1710KHz	10KHz	10KHz
NORTH AFRICA	FM	87.5 - 108.0MHz	100KHz	50KHz
	MW	531 - 1602KHz	9KHz	9KHz
	LW	153 - 252KHz	3KHz	3KHz

Digital (DAB) Radio

Frequency range:	DAB Band III: 174.928MHz ~ 239.200 MHz		
Usable sensitivity (RF=-72dBm):	-95dBm		
Frequency response:	20Hz-20KHz		
Stereo separation:	\geq 50dB		
Signal/noise ratio:	\geq 60dB		
	Item	Min	Max
	Far off selectivity:	42dB	60dB
Adjacent channel rejection:	35dB	40dB	

Note: specifications and the design are subject to change without notice due to improvements in technology

Bluetooth

Output power	4 dBm (Class 2)
Frequency band	2.4000 GHz - 2.4835 GHz (ISM Band)
Range	10 meters (free space)
Standard	Bluetooth 4.2 specification

FCC

FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.
- (3) Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital 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 the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a 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.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Variants and accessories

Variant	Features						Accessories				
	AM/FM	USB MP3 WMA	DAB/DAB+	Bluetooth	Power supply	Display-colour	Metal sleeve, trim ring, removal tools	DIN/ISO antenna adaptor	SWRC and microphone adaptor Cables PN:2910000457200	BT Microphone PN:2910000272400	DAB Antenna (Passive) PN: 2910000144900
CRD4512UBA-OR	x	x	x	x	12 V	Orange	x	x			
CR4512UBA-OR	x	x		x	12 V	Orange	x	x			
CRD4612UBA	x	x	x	x	12V	NO display	x	x			
CR4612UBA	x	x		x	12V	NO display	x	x			
											

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