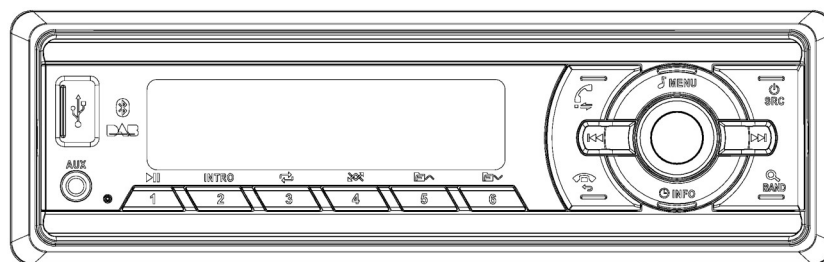
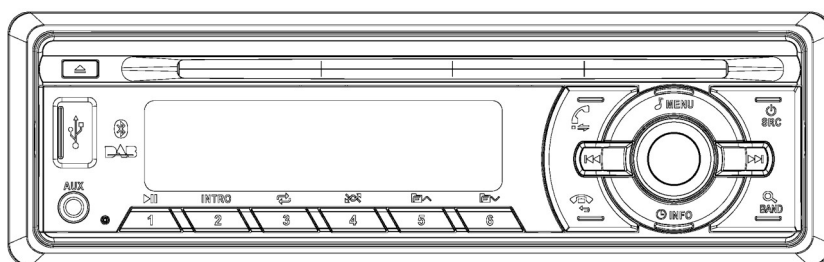


ENGLISH

User Instruction Manual

AM FM DAB receiver, USB, BT audio media player, four channel audio amplifier, fixed front panel.

CD and, non-CD (Deckless) Models

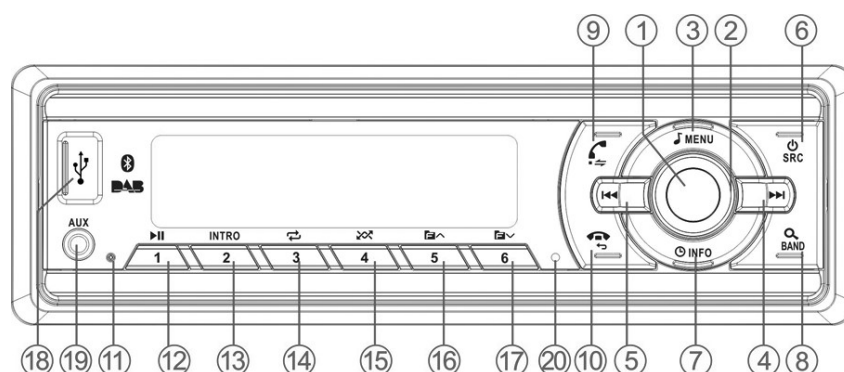


Applicable models:
RM180x Series Head Units
RM190x Series Head Units

Table of Contents

Front Panel Layout	3
General Operation	4
Bluetooth Operation	5
Radio AM/FM	5
Radio RDS Notes	6
Radio Preset Notes	6
Radio DAB/DAB+	7
Radio DAB/DAB+ Notes	7
Media USB / CD-ROM	8
Reset - Software / Hardware	8
Power Off Timer	9
Tips	9
Wiring Notes	10
Mounting Notes	11
Technical	12

Front Panel Layout



Item	Button Name
1	Mute / Select (center switch)
2	Volume Control / Rotary browse
3	Menu
4	Up >>I / Next
5	Down I<< / Previous
6	Source / Power
7	INFO (information) / Clock
8	Band / Browse
9	Call Pick Up / Transfer / Re-dial
10	Call Hang Up / Return
11	Reset
12	Preset 1 (Play / Pause)
13	Preset 2 (INTRO)
14	Preset 3 (RPT - Repeat)
15	Preset 4 (RDM - Random Play)
16	Preset 5 (Folder - Next)
17	Preset 6 (Folder - Previous)
18	USB Door
19	AUX-IN
20	Built-In Mic (if fitted)

CD Models have an additional Eject Button and CD slot.

General Operation

Buttons to navigate through Menus

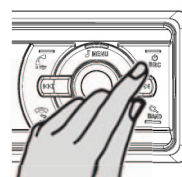
In the menu system certain controls have some common functions to help you move through the menus:

- 1) Volume control center switch = select
- 2) Volume control rotary = "choose"
- 3) Hang Up = return or move up a menu level

Powering On/Off

To switch the unit on, press power button. To turn the unit off, press and hold the power button down for 2 seconds.

In a similar manner, many of the buttons on the front panel have two modes of activation: "Short press" and "Long press" to directly select different functions.

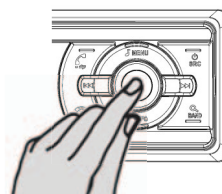


The 'Volume' Knob

Audio volume is adjusted when the rotary knob is turned, and MUTE is toggled on/off when the knob is pressed.

In the SYSTEM or AUDIO menus volume adjustment is temporarily disabled, and the rotation of the knob adjusts the value of the menu item. In this mode pressing the volume knob will select the item you have chosen. The menu list may also be cycled through with the >>| and |<< buttons.

TURN for Volume
adjustment /
PRESS to MUTE



Example, short press (push and let go) the MENU button to access the AUDIO menu – EQ, Loudness, bass, treble, balance, and fader.

TURN to choose /
PRESS to select

Radio Operating Region

When the radio is first powered up or after a reset it will ask you to select the geographical radio operating region, use the rotary control to choose your region and press the knob to select.

This can also be set using the Radio Mode menu – all menus are context sensitive i.e. radio only functions can only be accessed in radio mode.

REGIONS AVAILABLE

EUROPE / ASIA / MID-EAST / AUST
(tralia) / USA / LATIN (America) /
JAPAN / RUSSIA

Button Functions

The function of some controls depends on context. For example, the "1" button is used to recall (short press) or store (long press) radio station preset 1. However, when playing media (USB, CD or BT), pressing this button will toggle play / pause.



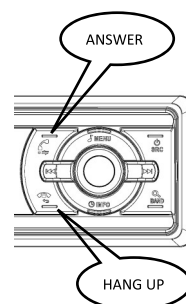
Bluetooth Operation

General Operation

When paired to a mobile phone, Bluetooth-enabled radio models, allow the user to perform handsfree calling on the radio. The radio has "Answer" and "Hang-Up" buttons to accept or reject an incoming call.

When no call is active the "Answer" button can be used re-dial the last number - pressing once asks if you want to re-dial, pressing again dials the number, pressing the "Hang-Up" button cancels the request.

An external microphone is fitted in a position close to the operator.



Bluetooth Profiles

Bluetooth enabled units can wirelessly link to Bluetooth devices such as mobile phones. The modes of Bluetooth connection are referred to as "profiles". This radio supports the following profiles:

- 1) A2DP: Advanced Audio Distribution Profile – Playing (Streaming) music using Bluetooth. Devices that have A2DP functionality can stream music into the radio to be played through the vehicles loudspeaker system.
- 2) AVRCP: In addition, if supported by the device, the AVRCP profile (Remote Control Profile), allowing functions like 'next track' and 'previous track' to be controlled from the radio.
- 3) HFP: Handsfree Profile – Making or receiving telephone calls using Bluetooth.
- 4) SSP: Secure Simple Pairing - this method is based on a random number generator and the user does not need to enter a PIN number on the phone.

Pairing

To use the Bluetooth handsfree function, a mobile phone needs to be "paired" to the radio. To "pair" the mobile phone with the radio, ensure that the radio is turned on. On the mobile phone, search for Bluetooth devices and select the radio name. Check for a successful pairing notification on the mobile phone.

Once paired, most mobile phones are capable of automatically reconnecting to the radio the next time the radio is turned on (e.g. on re-entry to the vehicle).

To disconnect a Bluetooth device temporarily use the "DISCONNECT" menu function. To permanently remove a pairing, use the "UNPAIR" menu function.

Radio AM/FM

Searching for Radio Stations

Use the >>| and |<< buttons to search radio station: short press to automatically seek the next available frequency (jump to the next seek stop).

Long press the BAND button will start an "auto store" sequence to scan the whole band and store the strongest stations found.

Manual Tuning

Long press, either >>| or |<< buttons to change to manual-seek mode – in this mode a short press of one of these seek buttons changes frequency one step whereas a long press will scroll until the button is released. The radio will revert to auto-seek mode if either button is not operated for 3 seconds.

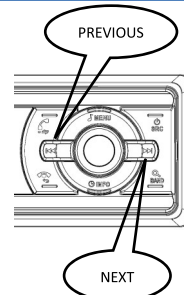
Radio AM/FM - Continued

Storing and Recalling Radio Stations

When listening to a radio station a long press on one of the radio preset buttons will store it permanently. The current displayed station will be saved. A stored radio station can be recalled by a short press of one of these buttons. The stored radio station can be updated by tuning to a different station and performing a long press.



Long press: Store your favorite radio stations using radio station presets.
Short press: Recall the stored station.



FM Radio

Radio Data System (RDS) is available in many countries. If an RDS broadcast is present, RDS functions such as AF and TA can be enabled or disabled. RDS is only available in the FM bands.

RDS (see also "Radio RDS Notes")

AF: Alternative Frequency
TA: Traffic Announcement
TP: Traffic Program
PTY: Program type

Radio RDS Notes

When RDS (Radio Data System) is operating, the radio will show the station name e.g. "BBC R1" rather than the frequency. RDS is only available on the FM band. If RDS service is not available, the radio operates in conventional FM radio mode.

- AF: Alternative Frequencies. When this feature is enabled, the radio can stay tuned to BBC R1 by automatically retuning the reception frequency when the first signal becomes weak such as when the vehicle has moved out of range, providing that a stronger signal on the alternative frequency is available. Channel switching to the same radio station is performed automatically. In fringe reception areas the user may switch off AF if silent frequency seek is experienced frequently. Choose the AF menu item and select OFF.
- TA: Traffic Announcement. When switched on, if a traffic announcement is available the radio will automatically switch to the station broadcasting the announcement until it is complete. The TA menu item toggles between TA ON and TA OFF.
- TP: Traffic Program – An indicator is displayed if the currently tuned station is a traffic announcement capable station.
- PTY: Program type. RDS broadcasting services categorizes the type of programs for the listener. Examples are NEWS, AFFAIRS, INFO, SPORT, EDUCATION, DRAMA, CULTURE, SCIENCE, POP M, ROCK.

Radio Preset Notes

FM has 3 bands, FM1, FM2 and FM3 bands each band has 6 radio presets. In total there are 18 FM radio presets for the user to store pre-tuned radio stations.

AM - MW has 1 band with 6 radio presets, as does AM - LW. There are 12 AM radio presets. DAB mode also has 3 "bands", DAB1, DAB2 and DAB3 each with 6 presets to store your favorite stations.

In total there are $5 \times 6 = 30$ radio presets and 18 DAB presets available to the user. The radio does not require external power to retain the radio station preset memory, this is stored on an EEPROM device.

Radio DAB/DAB+

Digital Audio Broadcasting - DAB/DAB+ Mode

DAB is a terrestrial digital transmission system. DAB stations bundle radio programs ("services") into an ensemble, and each ensemble contains one or more radio services. The same service can sometimes be received on different frequencies.

DAB/DAB+

To listen to DAB radio, press SRC to select "DAB/DAB+".

When the DAB band is selected for the first time, an initial scan is needed and the radio will ask for confirmation to do this – press the volume control knob to start scanning. Allow the initial scan to finish. (If interrupted, the initial scan will be requested again the next time you

Tuning DAB Stations

Enter the DAB system menu with a long press on the MENU button, select SCAN to perform a full scan of the DAB band.

To update the station list (usually because you have moved to a different geographical region) enter the DAB system menu and select PRUNE to clean up the stored list of DAB stations.

Selecting a DAB Station

Method 1: Use the >>| and |<< buttons to select the next (or previous) DAB station in the alphabetically sorted list of stations.

Method 2: PREFERRED - Long press the BAND/BROWSE button to select the BROWSE feature – this will allow you to use the rotary volume control knob to scroll through the DAB station list – press the volume knob to select the station name you want.

Storing and Recalling DAB Stations

To store a favorite station, depress and hold down one of user preset buttons 1 – 6 until a beep is heard. To recall any one of your preferred station, briefly press the desired user preset button.

Radio DAB/DAB+ Notes

When there is no reception, "NO STATION FOUND" scrolling text is shown on the display. Use "seek up" () or "seek down" () button to search for the next available DAB radio broadcast.

When reception is lost for approximately 15 seconds, "NO SIGNAL" is displayed.

DAB is a digital system and as such it either works and clear audio is heard or it does not work and the audio is muted. This is unlike a traditional FM broadcast that becomes increasingly noisy but may still be intelligible.