

CBRD7823UBV-RGB

OWNER'S MANUAL

The screens and operation examples in this manual have been created for the purpose of explaining operations. Due to specification changes, etc., the contents of this manual may differ from the actual screen.

Safety Information

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

PRECAUTIONS

- The unit must be used only in a 24 V DC negative-ground electrical system.
- Disconnect the vehicle's negative battery terminal while installing 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.

- Ensure that no small items drop inside the unit as this could lead to malfunctions or safety hazards, e.g. electric shocks.
- If you have parked the vehicle for a long time in hot or cold weather, wait for the temperature inside the vehicle to normalise before operating the unit.

BEFORE OPERATION

- Do not use an excessive volume level. You must always be able to hear outside sounds (horns, sirens, etc.).
- Stop the vehicle before performing any complicated operations.
- Do not open the cover and do not repair the unit by yourself. Ask your authorised dealer for help instead.

Note:

Specifications and the design are subject to change without notice due to improvements in technology.

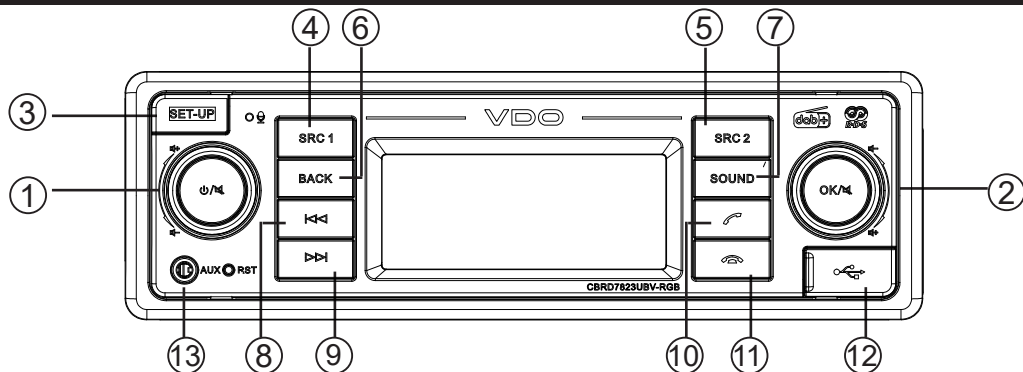
Hereby, Huizhou Foryou General Electronics Co., Ltd. declares that this CBRD7823UBV-RGB is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

The declaration of conformity may be consulted at <https://www.foryouge.com/>

Contents

Safety Information	1
Panel Controls.....	2
General Operation.....	3
Radio.....	4
Bluetooth.....	5
USB/MP3/WMA.....	5
Sound Setting.....	6
System Setting.....	6
Connections.....	7
Troubleshooting.....	8
FCC.....	9

Panel Controls



- (1). Power button
- Power on/off (long press)
 - Mute (short press)
 - Rotate the VOL knob to adjust volume

- (2). OK button
- Pause/Play (USB/A2DP Mode)
 - Mute (RADIO/DAB/AUX Mode)
 - Station list (long press)

- (3). SET-UP Button
- Enter RADIO/DAB/AUX/USB/BT menu (short press)
 - User Setting Menu (long press)

- (4-5). Source Button
- Select Source (short press)
 - Enter RADIO/DAB/AUX/USB/BT menu (long press)

- (6). Back button
- Return to the previous menu

- (7). Sound button
- Enter Audio Setting menu

- (8). << Button
- Radio mode
 - Automatic seek the station
 - MP3 mode
 - Select the previous track

- (9). >> Button
- Radio mode
 - Automatic seek the station
 - MP3 mode
 - Select the next track

- (10). Pick up
- Phone: phonebook / Private mode (short press)
 - Talk Me (long press)

- (11). - Phone: Hang up

- (12). - USB slot

- (13). - Front auxiliary input

General Operation

Power On/Off Button

Press the [] button to turn the unit on when the vehicle ignition switch is on. Press and hold the button to turn the unit off.

Reception Area

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

The reception area can be configured using the radio area settings at startup.

1. In radio mode, Press the [SET-UP] button or long press [SRC1]/[SRC2] button to enter radio menu.
2. Rotate the [OK] knob to select AERA SEL and press the [OK] button to enter.
3. Rotate the [OK] button to select one of the following options: EUROPE, ASIA, JAPAN, LATAM, N AFRICA, or USA, then press the [OK] button to confirm.

Adjust Volume level

Rotate the [] knob to adjust volume level. Rotate it clockwise to increase and anticlockwise to decrease the volume.

Audio Mute

Press the [] button to mute the volume from the system. "MUTE" will appear on the display panel and the volume will be muted. Press the [] button again, or rotate the

VOL control to return the volume level to the setting in use before the Mute function was activated.

Selecting a source

Press the [SRC1] or [SRC2] button repeatedly to toggle the source:

FM -> USB -> AUX -> RAUX -> HDMI -> BT
Only available sources can be selected.

Adjusting the time

The time can be adjusted manually. Press and hold the [SET-UP] button to enter **SYSTEM** setting mode. Rotate the [OK] knob to select **CLOCK** and then press the [OK] button to enter.

Rotate the [OK] knob to select the following Settings:

CLOCK SYNC

FM RDS/DAB Synchronization: Automatic time calibration via FM radio signals or DAB signals.

Manual: Adjust time manually.

CLOCK Format

12H/24H: Rotate the knob and press the [OK] button to adjust the Format.

Hour: Rotate the knob and press the [OK] button to adjust the hours.

Minute: Rotate the knob and press the [OK] button to adjust the minutes.

For details, see "Setting item list – System

settings" on page 6.

Sound settings

Press the [SOUND] button and rotate the [OK] knob to select SOUND settings mode.

Rotate the [OK] knob to adjust and press the [OK] button to confirm.

Press the [BACK] button to go back to the previous menu.

For details, see "Sound settings" on page 6.

System settings

Long press the [SET-UP] button and rotate the [OK] knob to select SYSTEM settings mode.

Rotate the [OK] knob to adjust and press the [OK] button to confirm.

Press the [BACK] button to go back to the previous menu.

For details, see "System settings" on page 6.

Radio

AM/FM Radio Selection

To access AM/FM Radio press the [SRC1] or [SRC2] button and select Tuner.

Radio Setting menu

Press the [SET-UP] button or long press [SRC1]/[SRC2] button to enter radio setting menu.

Select Band

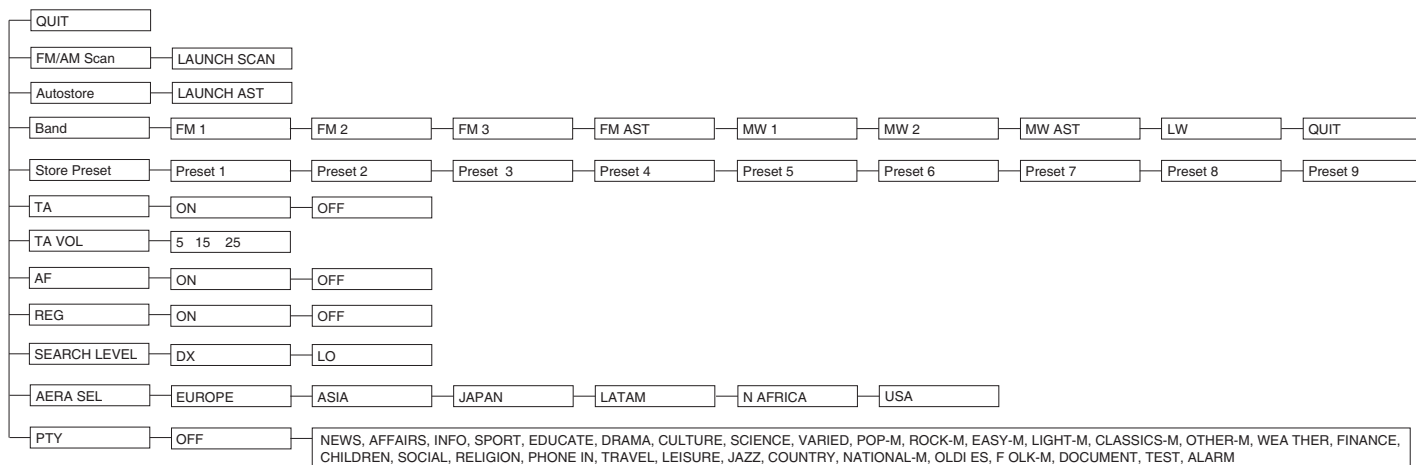
1. In the radio setting menu, rotate the [OK] knob to select BAND and press the [OK] button to enter.
2. Rotate the [OK] knob to select one of the available Radio Bands.

Automatic Tuning

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

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.



Pairing

Use this function to establish a connection between the unit and your mobile phone.

1. Turn on the unit.
 2. Turn on Bluetooth function of your mobile phone, keep phone within 3 meters to the unit and start to search for Bluetooth devices.
 3. After the name of the Bluetooth module "Contential radio" appears on the pairing list of your mobile phone, select it. A dialog box appears. Click OK to connect.
 4. After pairing successfully, Bluetooth and HFP icons will light up.
- A2DP icon will light up after A2DP connected.

BT mode selecting

Press [SRC] button to choose BT mode.

Receive

1. After pair successfully, if there is a call incoming, the unit switch to BT mode automatically.
2. Press [📞] button to receive.
3. Press [📞] button to hang up.

Bluetooth microphone mute

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

Wake up Siri

Press the [🔊] button for 2 seconds to wake up Siri, the radio microphone will be used without any action on your smartphone.

Music Mode

A2DP

A2DP is short for Advanced Audio Distribution Profile. The mobile phones supporting this function can transmit stereo audio, whereas the ones not supporting this function can transmit mono audio only.

On A2DP music playing mode, press [OK] button to choose pause/play mode. Press [<< / >>] button to previous or next track.

Loading USB equipment

Plug the USB device into the socket. The unit automatically starts playing the music.

Take out USB equipment

Push the SRC button and switch to non USB mode, then take off the USB device.

Play / Pause a track

Push the [OK/⏸] button to pause audio playback.

To resume audio playback, push the [OK/⏸] button again.

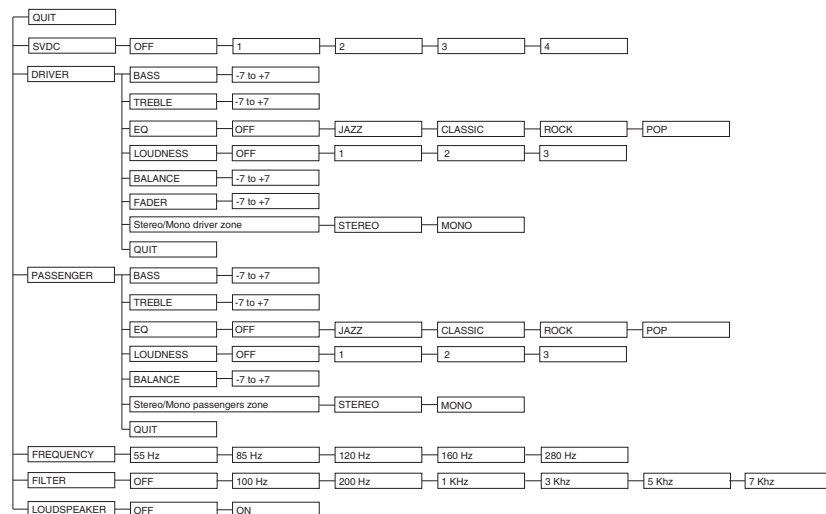
Next/Previous MP3 Track.

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

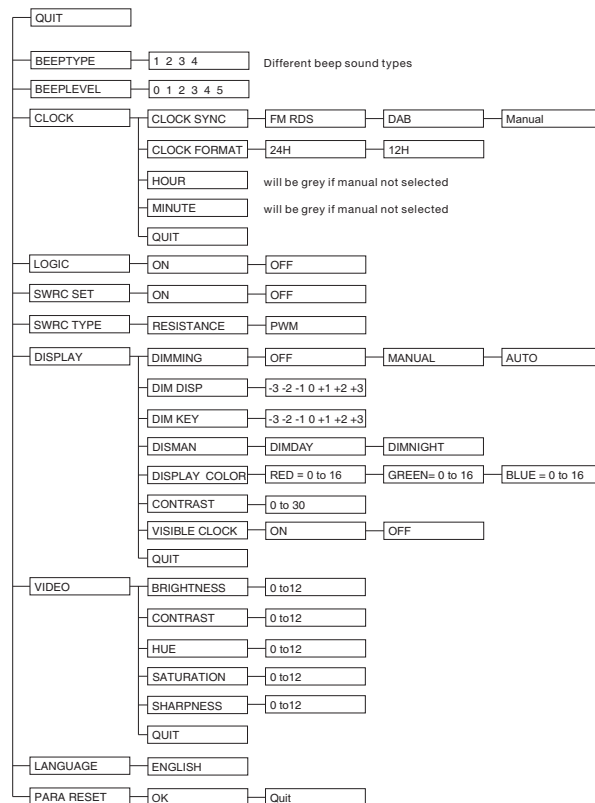
Fast forward/fast rewind.

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

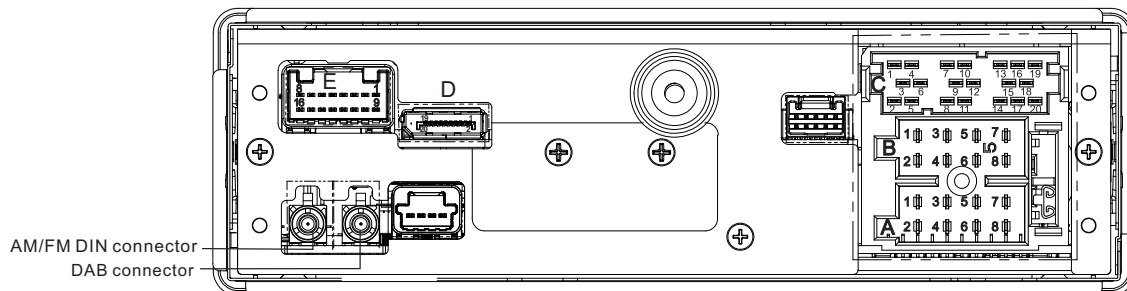
Sound Setting



System Setting



Connections



PIN No.	Description	PIN No.	Description
1	Main Link Lane 0+	11	Ground
2	Ground	12	Main Link Lane 3-
3	Main Link Lane 0-	13	Configuration 1
4	Main Link Lane 1+	14	Configuration 2
5	Ground	15	Auxiliary Channel+
6	Main Link Lane 1-	16	Ground
7	Main Link Lane 2+	17	Auxiliary Channel-
8	Ground	18	Hot Plug Detect
9	Main Link Lane 2-	19	DP_PWR Return
10	Main Link Lane 3+	20	DP_PWR

PIN No.	Description	PIN No.	Description
1	CVBS Video 1 GND	9	CVBS Video 1 OUT
2	NC	10	CVBS Video GND
3	CVBS Video 2 OUT (Passengers Displays)	11	CVBS Video IN
4	CVBS Video 2 GND (Passengers Displays)	12	SXM_GND
5	SXM_AUDIO R	13	SXM_RX
6	SXM_AGND	14	SXM_TX
7	SXM_AUDIO L	15	SXM_GND
8	SXM_EN	16	SXM_POWER

Pin No.	Description	Pin No.	Description
1	CAN Low	7	CBS audio input Left
2	CAN High	8	CBS audio input Right
3	Telephone mute low	9	CBS audio input GND
4	Ignition	10	Internal Can resistance ON/OFF
5	Antenna Remote	11	Activate passengers screens
6	Illumination	12	NC
7	Battery +	13	MIC -
8	power Ground	14	SUB preout Left
9	Rear R+ (Passengers)	15	SUB Preout Right
10	Rear R- (Passengers)	16	MIC +
11	Front R+(Driver)	17	SUB Preout GND
12	Front R-(Driver)	18	NC
13	Front L+(Driver)	19	Line out 1 L or Left Front/Driver
14	Front L-(Driver)	20	Line out 1 R or Right Front/Driver
15	Rear L+ (Passengers)		Line out 1 Ground
16	Rear L- (Passengers)		Line out 2 R or Right Rear/Passenger
			Line out 2 L or Left Rear/Passenger
			Line out 2 Ground / SWRC GND
			SWRC + PWM
			SWRC + Resistance

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.	Car ignition is not on. Cable is not properly connected. Fuse is burnt.	Turn your car 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.
Mode TUNER		
Unable to receive stations.	The antenna is not connected properly.	Connect the antenna properly.
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:	18V~32V DC(24V)
Maximum power output:	4x45 W
RMS output power:	4x18 W
Suitable speaker impedance:	4 ohm
Fuse spec:	10 A
Weight:	0.9 kg
Dimensions (WxHxD):	188×58.5×133.4 mm
USB Charging:	500mA

DAB

Frequency range:	174.928-239.200 MHz
------------------	---------------------

BT

Frequency Band	2.4000 GHz - 2.480 GHz
Operation Range	5 meters
Standard	Bluetooth 5.1 specification
Bluetooth transmitter power	<10 dBm(EIRP)

Environment

Storing Temperature	-40°C ~ +85°C
Operating Temperature	-30°C ~ +80°C

AM/FM Tuner

AREA	BAND	RECEIVED FREQUENCY	AUTO SPACE	CHANNEL SPACE
USA	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 - 95.0MHz	100KHz	100KHz
	AM	522 - 1629KHz	9KHz	9KHz
LATAM	FM	76.0 - 108.0MHz	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

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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 important announcement

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 and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

P/N:12707500XXXXXX