

CRA-3010HB User Manual

Catalogue:

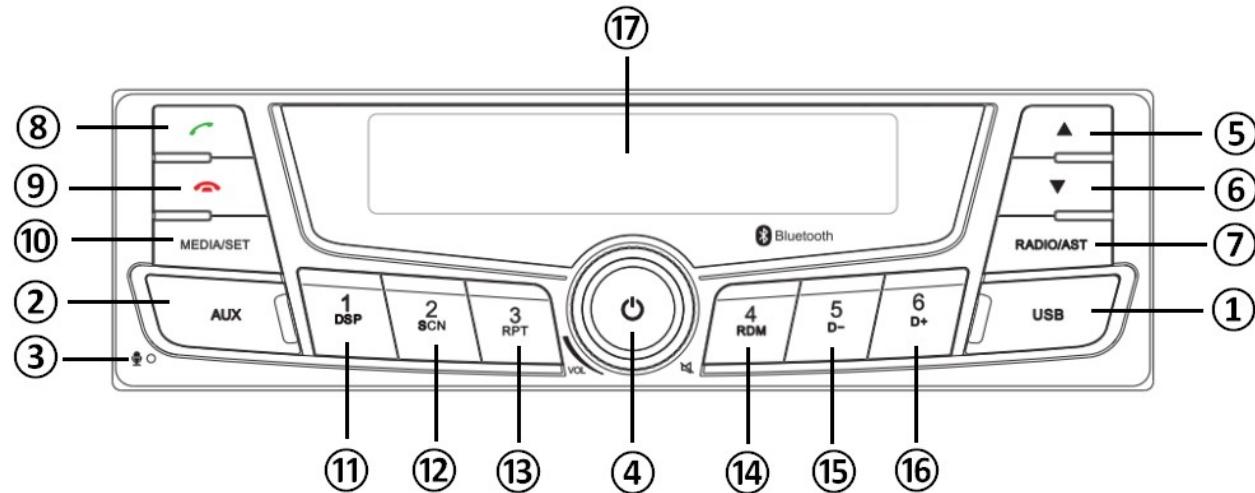
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1. Safety information

- Use only in 12 volts DC negative grounded electrical systems;
- Be sure to connect the color-coded leads according to the diagram;
- Incorrect connections can cause the radio to malfunction or damage the vehicle's electrical system;
- Be sure to connect the speaker [-] to the connector [-] terminal;
- Do not connect the speakers' positive and negative leads to each other or to the vehicle's body;
- Make sure all connections are completely correct before turning the device on;
- Using fuses with higher current ratings can cause serious damage to the device;
- Do not expose this equipment, amplifiers, and speakers to moisture or water to prevent electrical sparks or fire;
- Keep the volume at a level where you can hear outside warning sounds such as horns, sirens, etc.;
- Stop before performing any operation that may interfere with your driving;
- Do not remove the top cover and do not fix it yourself; Seek help from a dealer or experienced technician;
- Handle the product gently and carefully. Dropping it can cause damage to the unit.
- Wipe down the product regularly with a damp cloth to keep its appearance clean.

Do not use harsh chemicals, cleaning solvents, or strong detergents to clean this product.

2. Front panel operation



Item	Description
1.	USB cover
2.	AUX cover
3.	Microphone
(17)	LCD display window

Item	Name	Key action mode		Radio	FRONT USB/ REAR USB	BT Audio	AUX	Call mode				
④		Short press	Radio: Off	On								
			Radio: On	Mute	Pause	Mute	Microphone Mute					
		Long press		Power off								
		Rotat e		Adjust the volume								
⑤		Short press		Automatically search for the next station	Next track		-	-				
		Long press		Manually step up to FM	Fast forward		-	-				
⑥		Short press		Automatically search for the previous station	Previous song		-	-				
		Long press		Manually step down to FM	Fast rewind		-	-				
⑦		Short press		Select the radio band	Switch back to the radio state							
		Long press		Automatically search for Station storage	-	-						

⑧		Short press	When a call comes in: Accept the call				Private/talking mode
		Long press	Activate Visible Mode 【120 seconds】				-
⑨		Short press	When a call comes in: Reject the call				End the call
		Long press	After pairing: Disconnect from your phone				-
⑩	MEDIA/SET	Short press	Switch back to previous media	Select the sound source 【FRONT USB ► REAR USB ► BT ► AUX ► FRONT USB】			-
		Long press	Switch to the Settings				-
⑪	1 DSP	Short press	Select Preset 1 radio	Display folder name/ ID3 information	-	-	-
		Long press	Save Presets 1	-	-	-	-
⑫	2 SCN	Short press	Select Preset 2 radio	Scan each track for 10 seconds	-	-	-
		Long press	Save Presets 3	-	-	-	-
⑬	3 RPT	Short press	Select Preset 3 radio	Repeat the file/ folder	-	-	-
		Long press	Save Presets 3	-	-	-	-
⑭	4 RDM	Short press	Select Preset Radio 4	Play folders at random/ play all	-	-	-
		Long press	Save Presets 4	-	-	-	-

⑮	5 D-	Short press	Select Preset Radio 5	Previous folder	-	-	-
		Long press	Save Presets 5	Play first 10 tracks of current folder	-	-	-
⑯	6 D+	Short press	Select Preset Radio6	Next folder	-	-	-
		Long press	Save Presets 6	Play first 10 tracks of current folder	-	-	-

3. Generic operation

- **Power on/off**

Press the [volume] knob to turn the radio on and hold down the knob to turn it off. In system working mode, press the knob to mute the system.

- **Adjust the volume level**

Turn the knob clockwise to increase volume and counterclockwise to decrease volume. The volume range is 0 to 30.

- **Media button**

In radio mode, press [Media] to return to the previous media. Press the down key to select the following playback modes:

FRONT USB ► REAR USB ► BT and AUX ► FRONT USB

Remarks:

Different play modes are displayed only when the corresponding device is connected to the device. Press the [RADIO/AST] to switch back to the RADIO.

4. Radio settings

- **Radio switch**

Press [RADIO/AST] to select radio mode, and press repeatedly to switch bands in the following order:

FM1 ► FM2 ► FMR ► AM1 ► AMR

- **Automatic search**

Press [▲] to search for stations up automatically ; Press [▼] to search for radio station with lower frequency automatically .

- **Manual search**

Press and hold [▲] and [▼] for more than 2 seconds respectively, then the screen will display "Manual" for manual search mode;

Press [▲] and [▼] again to adjust the station up or down manually.

- **Manually save the stations**

After finding the radio station you want, press one to six buttons for two seconds each to save one to six preset memory stations.

- **Automatically save the stations**

Press [RADIO/AST] for 2 seconds to automatically save the 6 stations with the strongest signal. If the current band is FM, the station will save to FM3, and if the current band is AM, the station will save to AM2.

- **Preset station**

You can manually store a favorite station in Presets and recall by using the Presets button [1 to 6]. Press and hold the desired preset [1] through [6] button for more than 2 seconds until you hear a "beep" sound to save the current tuned station.

Note: Any stations previously saved in this memory block will be replaced with new stations.

- **Restart the reservation**

Press [1-6] to re-save/ wake up the saved settings.

5. USB functions

- Support USB devices in FAT16 / 32 format.
- USB 1.1 and USB 2.0 [USB 1.1 speed] are supported.
- This radio can display up to 32 byte characters of file/ folder/ title/ artist/ album name.
- The maximum number of files supported by USB is 32,768.
- Audio files may not be played in the order of file number.
- Not all types of USB memory cards are compatible with the radio.
- The maximum USB current is 500mA.

- **MP3 Notes:**

Both MP3 and WMA audio formats are supported.

The radio cannot read MP3 files with an extension other than MP3.

- **Insert and unplug external USB memory**

After opening the FRONT USB plastic cover, connect the USB flash drive to your radio's USB port. The audio automatically plays audio files from its memory. It is recommended that you press [MEDIA/SET] or [RADIO/AST] to switch the play mode before unplugging the USB drive from the audio.

- **Play/ Pause**

Press the **【volume knob】** to pause playing the file.

- **Next song/ previous song**

Press **【▲ or ▼】** to select the previous/ next audio file;

Press and hold **【▲ or ▼】** to rewind or fast-forward the file.

- **Display file information**

When playing an MP3 / WMA file, press **[1 / DSP]** to display the file information, including file name and folder name, will be displayed on the screen. When this information is displayed, press this button to scroll through the ID3 data file, including the file title, artist name, and album name.

- **Scan**

While playing the audio file, press **[2 /SCN]** to scan the file for 10seconds.

- **Repeat**

While playing the audio file, press **[3/RPT]** and select one of the following options:

Project	Function description
Duplicate file	Play the selected track
Repeat folder	Play all the tracks in the current folder
Repeat close	Turn off the repeat function

● Random

Press [4 / RDM] to enable / disable random play of audio files in the current folder memory.

Press this button again to cancel the random function.

● Next/ previous folder

Press [5/D-] to select the previous folder. Press and hold [5/D-] to select the previous track 10 locations. Press [6/D+] to select the next folder. Press and hold [6/D+] to select the track for the next 10 locations.

6. AUX IN functions

The device's AUX slot has an automatic detection function. When the AUX is connected to other MEDIA source modes, the system detects and starts switching to AUX audio play mode, or you can press [MEDIA/SET] to turn on AUX play mode.

7. Bluetooth functions

Bluetooth is a short-range method of wireless communication, and the device can connect to devices equipped with the technology. After connecting the two devices together, you can control some of your phone's functions through the wireless unit.

Remarks:

This device may not be compatible with all types of Bluetooth phones.

Bluetooth communication supports a maximum distance of 5 meters.

● Phone pairing

1. Press  for 2 seconds. The Bluetooth icon on the screen starts blinking for 120 seconds .[The Bluetooth device is visible at this point];
2. Turn on your phone's Bluetooth;
3. Go to your phone's Bluetooth Setting page;
4. Look for a new Bluetooth device;
5. Select [HYUNDAI] from the list of Bluetooth names;
6. Enter [1234] on mobile, the default password is [1234];
7. When pairing is complete, the fixed Bluetooth icon will be displayed on the screen.

- **Receive a call**

In the Bluetooth connection state, press  to answer the call, press  to reject the call.

- **Private calls**

During the call, you can do this by pressing  to switch the sound output between the phone and the car speakers.

- **Bluetooth music operation**

After connecting your mobile device to your radio BT device, press [MEDIA/SET] to enter BT Music mode. You can play the audio file in the mobile device's memory through the radio device operation, and hear its sound through the car speaker.

- **Play/Pause**

Press the volume knob to pause/play the file.

Remarks:

If the audio file does not automatically play, operate it from your phone.

8. Audio settings

Press and hold [MEDIA/SET] for 2 seconds, then rotate the volume knob to access the [AUDIO SET] menu. Press the volume knob to access the Audio Settings menu. Then press the volume knob and the Audio Settings option appears in the table below. Each item can be adjusted by rotating the volume knob.

Parameters	value	Default
BASS	-7 ~ +7	0
TREB	-7 ~ +7	0
BAL	7L ~ 7R	L=R
LOUD	ON, OFF	OFF
EQ	OFF, CLASSIC, POP, ROCK, JAZZ	OFF

Remarks:

1. If there is no operation after 5 seconds, automatically exit the [Audio Settings] menu;
2. The bass and treble can be adjusted only if the EQ OFF option is selected in the sub-menu;

3. Press and hold [MEDIA/SET] to enter the Settings, and press [VOL] again to return to the Previous Settings item when you press [VOL] to enter the previous one.

9. System settings

Press and hold [MEDIA/SET] for 2 seconds, then rotate the volume knob to access the [SYSTEM SET] menu.

Press the volume knob to access the System Settings menu. Then press the volume knob and the system Settings option appears.

Each item can be adjusted by rotating the volume knob.

● S-VOL Settings

The S-VOL value ranges from 5 to 25. You can set the default volume here.

When the player is turned on, if the volume of the last shutdown is greater than the default volume, it will be restored to the default volume after being turned on; If the volume before switching off is between VOL5 and the default volume, turn it on and return to the volume before switching off; If the volume is less than VOL5 before power off, power on will return to VOL5;

Long press the 1, 2, and 3 keys to restore factory setting, and the default volume is 10.

Radio area Settings

AREA	Frequency Range	Channel Space	Frequency Range	Channel Space
Asia	87.5 ~ 108.0 MHz	100 kHz	531 ~ 1602 kHz	9 kHz
America	87.5 ~ 107.9 MHz	200 kHz	530 ~ 1710 kHz	10 kHz
Latin	87.5 ~ 108.0 MHz	100 kHz	530 ~ 1710 kHz	10 kHz
Europe	87.5 ~ 108.0 MHz	50 kHz	522 ~ 1620 kHz	9 kHz
Japan	76.0 ~ 90.0 MHz	100 kHz	522 ~ 1629 kHz	9 kHz
Russia	65.0 ~ 74.0 MHz	30 kHz	522 ~ 1602 kHz	9 kHz

Remarks:

If there is no operation after 5 seconds, automatically exit the [Audio Settings] menu;

Press and hold [MEDIA/SET] to enter the Settings item, and press [VOL] again when cycling to the [Previous] item to return to the previous Settings item.

10. Electrical code

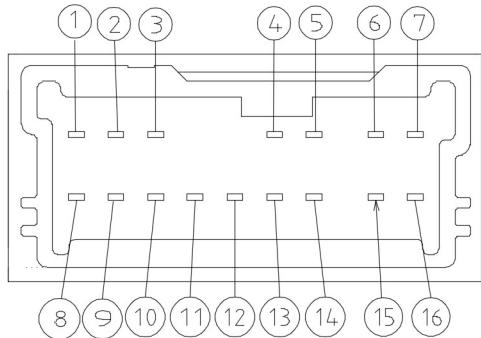
Generic	
Working voltage	12V DC
Maximum output power	2 x 20W
Power output @10% T.H.D	2 x 18W
Speaker impedance	4 Ω
Fuse	10A

FM	
Frequency range	87.5 ~ 108.00 MHz
Signal-to-noise ratio	≥55 dB

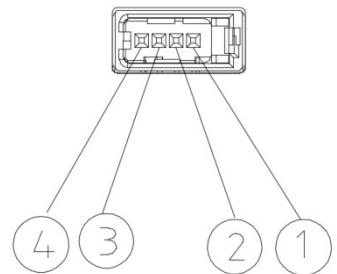
AM	
Frequency range	531~1602KHz
Signal-to-noise ratio	≥ 50 dB

USB	
Signal-to-noise ratio	≥65 dB

11. Socket definition



NO	DESCRIPTION	NO	DESCRIPTION
1	Antena (+12V)	9	NC
2	TEL MUTE	10	SPKR FRT L (+)
3	SPK FRT L (-)	11	REMOCON GND
4	SPK FRT R (-)	12	REMOCON (+)
5	NC	13	SPKR FRT R (+)
6	ILL (-)	14	NC
7	ACC (+)	15	ILL (+)
8	GND	16	BATT (+)



NO	DESCRIPTION
1	VCC +5V
2	USB D-
3	USB D+
4	GND

12. Troubleshooting

The following checks can help you with some of the problems you may encounter when using this device. Read the first few pages of the user manual carefully before using it. Do not use this device under abnormal conditions, such as no sound, emitting smoke, or slight vibration, etc. If any of the above occurs, please consult your nearest service dealer immediately.

Phenomena	Causes	Blackout scheme
Do not turn on	The car's ignition is not turned on.	If the power supply is properly connected to the car accessories terminal, switch the ignition key to ACC.
	The cable is not connected correctly	Check the cable connection.
	A fuse has blown.	Replace the fuse.
No sound	[Volume] Set to minimum or silent	Check the volume or turn off mute.
	Cables are not connected properly.	Check the cable connection.
The radio does not receive the radio station or the reception of the radio station is poor.	The antenna cable is not connected correctly.	Insert the antenna cable firmly.
	The antenna is not fully extended.	Fully extend the antenna.
	The antenna is broken.	Get a new one.

FCC Information to User

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 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.

Caution

Modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Compliance Information : 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

IMPORTANT NOTE:

FCC RF Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.