



4154493C1

AM, FM, Clock, Weather Band, AUX input, USB, Bluetooth, SXM, CD

Operating Instructions

SAFETY INFORMATION

Thank you for purchasing this product. Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, keep this manual in a safe place for future reference.

PRECAUTIONS

- Use only in a 12-volt DC negative-ground electrical system.
- 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.
- DO NOT attempt to disassemble the unit. Laser beams from the optical pickup are dangerous to the eyes.
- Make sure those pins or other objects do not get inside the unit, they may cause malfunctions, or create safety hazards such as electrical shock or laser beam exposure.
- If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car become normal before operating the unit.
- Keep the volume at a level at which you can hear outside warning sounds (horns sirens, etc.).
- Stop the car before performing any complicated operation.

CD NOTES

- Playing a defective or dusty CD can cause dropouts in sound.
- Handle the disc by holding its inner and outer edges. Do not touch the surface of the unlabeled side of the disc.
- Do not touch the unlabeled side.
- Do not attach any seal, label or data protection sheet to either side of a disc.
- Do not expose a CD to direct sunlight or excessive heat.
- Wipe a dirty CD from the center outward with a cleaning cloth.
- Never use solvents such as benzine or alcohol.
- This unit can not play 3-inch (8cm) CDs. Never insert a 3-inch CD contained in the adapter or an irregularly shaped CD. The unit may not be able to eject it, resulting in a malfunction.
- ★ In addition to ordinary CDs, this unit can play back a CD-R/CD-RW/MP3/UDF/CD-TEXT.

CAUTION

Please power off this unit at once and send it back to the after-sales service center or the dealer /distributor you purchased from if one of the following symptoms is found:

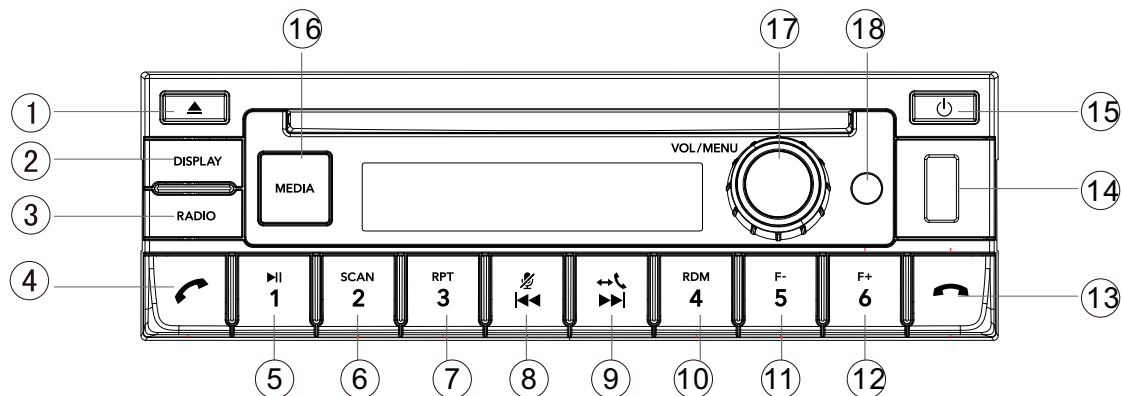
- (1) Water or other obstacle enters the unit;
- (2) Smoking;
- (3) Peculiar smell.

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To provide a clear demonstration and an alternative for easy understanding of the operation of this unit, graphic illustration was used. However, this illustration is not necessary printed as the actual image found on the unit.

PANEL CONTROLS



1. - Press to eject disc.
2. - Radio mode: Press [DISPLAY] to access: Display radio info/ID3 Tag info/clock
Time Zone Setting (long press)
3. - Band switch:
FM1>FM2>FM3>AM1>AM2>WX>SXM1->SXM2->SXM3->FM1
4. - RADIO/CD/USB/iPod/AUX/SXM/
BT Audio mode :Enter Call List menu
-Calling Mode:Answer call
-Redial (long press)
5. - Play/pause (when USB / BT music)

6. - Scan on/off(For CD and USB only)
7. - Repeat track/folder
8. -Previous track/Channel/Seek previous station
-Fast rewind/Manual seek (long press)
9. -Next track/Channel/Seek next station
-Fast forward/Manual seek (long press)
10. -Random on/off
11. -Previous folder
12. -Next folder
(5,6,7,10,11,12).
-1-6 radio preset
Press to select tune in a preset station.
Hold for more than 2 seconds to

- save current station.
13. - Reject/End call
- Disconnect Bluetooth(long press)
14. - USB connector
15. - Power on/Power off
16. - Select source
(CD > USB > F-AUX > R-AUX > BT AUDIO)
17. - Adjust volume level
- Enter Audio Setting menu(press)
- Enter Setup menu(long press)
18. - Aux-in jack

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.

Adjust Volume level

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

MODE Button (MEDIA)

Press the [**MEDIA**] button to change between CD (when disc is in), USB (when USB is connected), BT AUDIO, or AUX play.

MP3 Playback

Track skip

Press the [ ] button to go to the previous or next track.

MP3 track fast search

Hold it [ ] to enter fast forward or reverse back mode.

Folder select

Press the [5F-]/[6F+] button to select MP3 folder back/ahead.

Set Clock

Radio mode:

Press [DISPLAY] button, display Frequency/

Radio text/Clock;

CD/USB/iPod playback mode: press [DISPLAY] button, display Playtime->Title/Artist/Album->File name/Folder name->Clock->Playtime

AUX/Calling mode: press [DISPLAY] button, display Clock Info.

BT Audio mode: press [DISPLAY] button, display BT AUDIO->Title/Artist/Album->Clock

Auxiliary Input

To access an auxiliary device:

1. Connect the portable audio player to the AUX interface on the front panel.
2. Press the [**MEDIA**] button to select Aux-In mode.

Press [**MEDIA**] again to cancel Aux-In mode and go to the next mode.

Audio setting

Press the knob, and Rotate the knob to select EQ/BASS/MIDDLE/ TREBLE/LOUD/ BALANCE/FADER function, rotate the knob to adjust.

First press shows current EQ. Rotate the knob to changes BEAT EQ in this order: JAZZ -> POP -> CLASSIC -> ROCK -> USER -> FLAT

BASS/MIDDLE/TREBLE: (-7) - (+7)

LOUD: ON/OFF

BALANCE: LEFT 1-7->RIGHT 1-7

FADER: FRONT 1-7->REAR 1-7

CD/USB/iPod OPERATIONS

This unit can play back MP3/WMA files

Notes:

If you play a WMA file with active DRM (Digital Rights Management), no audio is output.

To disable DRM (Digital Rights Management)

When using Windows Media Player 9/10/11, click on Tool -> Options -> Copy music tab, then under Copy settings, unclick the Check box for Copy protect music. Then, reconstruct files.

Personally constructed WMA files are used at your own responsibility.

Precautions when creating MP3/WMA file

Usable sampling rates and bit rates

1. MP3: Sampling rate 8 kHz-48 kHz, Bit rate 8 kbps-320 kbps / VBR
2. WMA: Bit rate 8 kbps-320 kbps

File extensions

1. Always add a file extension ".MP3", ".WMA" to MP3, WMA file by using single byte letters. If you add a file extension other than specified or forget to add the file extension, the file cannot be played.
2. Files without MP3/WMA data will not play. The files will be played soundlessly if you attempt to play files without MP3/WMA data.

- * When VBR files are played, the play time display may differ the play location.
- * When MP3/WMA files are played, a little no sound part is caused between tunes.

Logical format (File system)

1. When writing MP3/WMA file on a CD-R disc or CD-RW disc, please select "ISO9660 level 1, 2 or Joliet or Romeo" or Apple ISO as the writing software format. Normal play may not be possible if the disc is recorded on another format.
2. The folder name and file name can be displayed as the title during MP3/WMA play but the title must be within 32 single byte alphabetical letters and numerals (including an extension).
3. Do not affix a name to a file inside a folder having the same name.

Folder structure

A disc with a folder having more than 8 hierarchical levels will be impossible.

Number of files or folders

1. Up to 999 files can be recognized per folder.
Up to 3000 files can be played.
2. Tracks are played in the order that they were recorded onto a disc. (Tracks may not always be played in the order displayed on the PC.)

3. Some noise may occur depending on the type of encoder software used while recording.

Eject function

Just pressing the [] button, ejects the disc even if the power to the unit was not turned on.

Notes:

- If you force a CD into before auto reloading, this can damage the CD.
- If a CD (12 cm) is left ejected for 15 seconds, the CD is automatically reloaded (Auto reload).

Listening to a disc already loaded in the unit

Press the [MEDIA] button to select the CD mode.

When the unit enters the CD mode, play starts automatically.

Loading a CD

Insert a CD into the center of the CD SLOT with label facing up. The CD plays automatically after loading.

Notes:

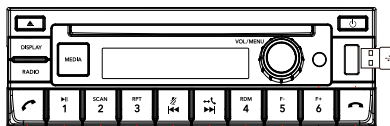
- Never insert foreign objects into the CD SLOT.
- If the CD is not inserted easily, there may be another CD in the mechanism or the unit may require service.

CD/USB/iPod OPERATIONS

- Discs without the  or  mark and CD-ROMs cannot be played by this unit.
- Some CD-R/CD-RW discs may not be usable.

Loading/Take out USB equipment

- Open the USB cap located on the bottom right of the unit, insert a USB device into the connector and the unit will begin to play automatically.
- To stop playback of USB device, press [MEDIA] button and rotate the knob to non USB mode and then remove the USB device.



Pausing play

- Press the [1] button on the front panel to pause play. "PAUSE" appears in the display.
- Press the above button again to resume CD play.

Displaying titles

This unit can display title data for MP3/WMA. Each time you press the [DISPLAY] button to change display: FILE --> TITLE --> Clock

Selecting a track

Track-up

- Press the [►►] button to move to the beginning of the next track.
- Each time you press the [►►] button, the track advances to the beginning of the next track.

Track-down

- Press the [◀◀] button to move back to the beginning of the current track.
- Press the [◀◀] button twice to move back to the beginning of the previous track.

Fast-forward/Fast-reverse

Fast-forward

Press and hold the [►►] button .

Fast-reverse

Press and hold the [◀◀] button .

Folder select

This function allows you to select a folder containing MP3/WMA files and start playing from the first track in the folder.

- Press the [5] or [6] button.
Press the [5] button to move the previous folder. Press the [6] button to move the next folder.
- To select a track, press the [◀◀] or [►►] button.

Search Function

Press the [MENU], then rotate the knob to choose FOLD SCH or TRK SCH.

Direct Song/File Access

- Press the knob to enter the track list search mode.
- Turn the knob to select a digit.
- Press the knob to confirm entry and the tens digit will flash.
- Turn the knob to select digit.
- Repeat above steps to enter the hundreds and thousands digit, if necessary.
NOTE: The unit will only allow the selection of digits that correspond with the number of files on the media you are searching.
- Once the track number appears on the screen, press the knob to play the selected song/file.

Searching Folders/Files

- Press the knob to enter the folder list search mode.
- Turn the knob to select a folder.
- Press the knob to enter the file list search mode. And then the track list appears in the display.
- Turn the knob to select a track.
- Press the knob to play.
* When play back MP3 / WMA file, this function is performed in the current folder.

CD/USB/iPod OPERATIONS

Other various play functions

Scan play

This function allows you to locate and play the first 10 seconds of all the tracks recorded on a disc.

1. Press the [**2**] button to perform scan play.
2. Press the above button again to resume play.

Repeat play

This function allows you to play the current track repeatedly or play a track currently being played in the MP3/WMA folder repeatedly.

CD:

1. Press the [**3**] button once or more until "RPT ON" appears on the LCD to perform repeat play.
2. Press [**3**] button repeatedly until "RPT OFF" appears on the LCD to cancel repeat playback.

TUNER OPERATION

Band

During radio play, press the [**RADIO**] button to choose FM1,FM2,FM3,AM1,AM2,WX,SXM1,SXM2,SXM3.

Up Tuning

Press the seek up [**▶▶**] button to tune stations upward step-by-step. The current frequency will be shown in digital format on the display panel.

Press and hold the seek [**▶▶**] button to the next available station.

Down Tuning

Press the seek down [**◀◀**] button to tune stations downward step-by-step.

Press and hold the seek down [**◀◀**] button to the previous available station.

MENU FUNCTION

Press and hold the knob to enter system setup. rotate the knob to select options.

BT CONNECT

AUTO/MANU selectable, enable/disable Bluetooth auto connect function.

BT ANSWER

AUTO/MANU selectable, enable/disable Bluetooth auto answer function.

SPEED -> VOL

Speed dependent Volume Range: OFF/LOW/MID/HI

12/24H

Rotate the knob to choose time format: 12 or 24 HOURS.

CLOCK

Press the knob to enter clock setting mode, rotate the knob to set clock, press the knob to confirm.

ALARM

ALARM ON/OFF Select. When ALARM is turn on, the below items selectable: SET TIME/SOUND/VOLUME

CLOCK DISP

If Clock Display set to on, clock display on screen regularly.

BLUETOOTH OPERATIONS

The Bluetooth allows you to utilize your car's built-in audio system for wireless mobile phone or music handsfree 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 car stereo with Bluetooth will be able to retrieve phonebook contacts, received call, dialed call, missed call, incoming calls, outgoing call and listen to music.

Notes:

- Do not leave the microphone of Bluetooth handsfree in the places with wind passing such as air outlet of the air conditioner, etc. This may cause a malfunction.
- If leave it in the 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.

Handsfree Operations

Pairing

- 1.The Bluetooth of radio always keeps in invisible mode, that the phone can not search the radio via Bluetooth directly. So, Long press [↵] enter Phone Menu mode.
- 1.Turn on Bluetooth function of your mobile phone.
- 2.Enter mobile phone's Bluetooth setup menu, and then search for new Bluetooth devices.
- 4.Click "Navistar Radio" to connect device.
- 5.Press [↵] to allow this device to connect.
- 6.Click "allow pairing" on the phone.

Notes:

- Display pairing phone name on LCD for 10s when user select the Bluetooth of Radio form cell phone.
- Press [↵] to refuse this device connecting request.
- Display connected cell phone name on LCD for 5s when Bluetooth connected, then back to normal display mode.

Making a call

Operation from Bluetooth menu

Press [↵] button to enter the phone menu, select REDIAL/MISSED/CALLS IN/CALLS OUT/PHONEBOOK item in the menu to make a DIALING.

• Dial Number

- 1.Press the [↵] button to enter.
 - 2.Rotate the knob on the front panel to switch: "PHONE SYNC".
 - 3.Press the knob to confirm the selection, Start to download the phone book form pone to Radio.
 - 4.Rotate the knob to select REDIAL/MISSED/CALLS IN/CALLS OUT/PHONEBOOK.
 - > Press the knob to enter the selected history.
 - > Turn the knob to scroll through the contacts.
 - > When the contact's name or mobile phone number is displayed, press the [↵] button to call the mobile phone number of this contact.
- Press the [↵] key to end the call.

Hang up/Answer

Press [↵] button to answer a call,
Press [↵] button to hang up.

PHONE SYNC

Start to download the phone book form pone to Radio.

PAIR DEV

Perform Pairing Mode

SELECT DEV

Connect to the selected phone device in pair list.

BLUETOOTH OPERATIONS

DELETE DEV

Delete the paired device from the pair list

Audio Streaming Operations

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 car stereo wirelessly and listen to the tracks through the car's speakers. Please consult your nearest dealer for more information on the product of wireless audio streaming transmitter offered.

⚠ CAUTION

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.

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

Note:

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

Play / Pause a track

1. Push the [1] button to pause audio playback.
2. To resume audio playback, push the [1] knob again.

Selecting a track

Track-up

Press the [>>>] button to move to the beginning of the next track.

Track-down

Press the [<<<] button to move to the beginning of the previous track.

Note:

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

During music streaming playback, "A2DP" will be shown on the display. When A2DP device is disconnected, "BT MUSIC" 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 MUSIC** mode.

Other functions

AUX mode

When radio is on, press [MEDIA] button several time, to display F-AUX/ R-AUX mode.

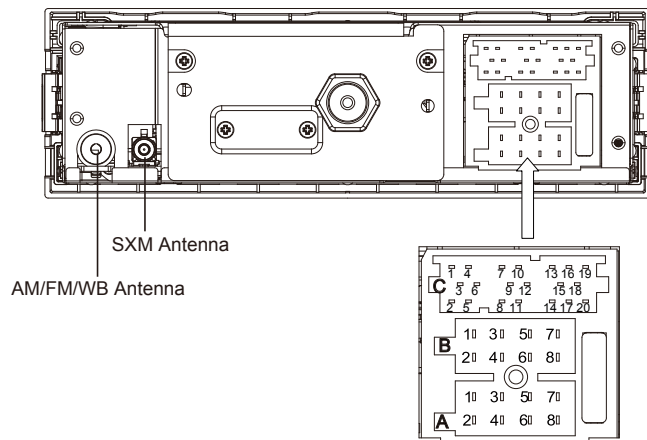
SIRIUSXM mode

When radio is on, press [RADIO] button several time, to display SXM1, SXM2, SXM3 mode.

- Long press [RADIO] button, display SXM tuner diagnosis info.
- Press 1-6 Button to load preset station 1-6 in current band.
- Press and hold 1-6 Button to save current station to preset station 1-6 in current band.

ELECTRICAL CONNECTIONS

Wiring Diagram



A Compartment	
No.	Pin Definition
A1	CAN-High
A2	CAN-Low
A3	Park light
A4	Accessory(HW-ACC)
A5	PWR_ANT/PA_MC_PWR
A6	Dim PWM/ANALOG
A7	Battery
A8	GND

B Compartment	
No.	Pin Definition
B1	Rear Right(+)
B2	Rear Right(-)
B3	Front Right(+)
B4	Front Right(-)
B5	Front Left(+)
B6	Front Left(-)
B7	Rear Left(+)
B8	Rear Left(-)

C Compartment			
No.	Pin Definition	No.	Pin Definition
C1	Power Ground	C11	AUX 1_ON_OFF
C2	Amp Sense	C12	EXT/INT*
C3	Vehicle in Reverse Gear Mute	C13	Spare AIN1
C4	Lane Departure Warning System Mute	C14	Spare AIN2
C5	ASWC(Analog Steering Wheel Control)	C15	MC+(BT)
C6	Mute GND Output	C16	MC-(BT)
C7	L_AUX_IN 1	C17	Power Ground
C8	AUX_SHIELD_GND	C18	Audio(+) PA MIC
C9	AUX 1_COM	C19	Mute GND Input
C10	R_AUX_IN_1	C20	GND(PA- Input)

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.
The unit or screen does not work normally.	The unit system is unstable.	Press the RESET button.
DISC mode		
The appliance will not play discs.	The disc is inserted incorrectly. The disc is dirty or damaged.	Disc must be inserted with the label side facing up. Clean the disc and check for damage. Try another disc.
Sound skips due to vibration.	Mounting angle is over 30°. Mounting is unstable.	Adjust mounting angle to less than 30°. Mount the unit securely with the supplied parts.
TUNER mode		
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.
Preset stations are lost.	The battery cable is not properly connected.	Connect the permanent live on the unit to the permanent live on the vehicle.
USB mode		
Unable to insert USB device.	USB device has been inserted the wrong way round.	Insert it the other way around.
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.

SPECIFICATION

General	
Power supply:	12V DC (9V-16V)
	Test voltage 14.4V, negative ground
Maximum power output:	30.25x4 channels(4Ω)
Continuous power output:	25Wx4 channels (4Ω,10% T.H.D.)
Suitable speaker impedance:	4-8 ohm
Pre-Amp output voltage:	4.0V (CD play mode: 1KHz, 0 dB, 10 KΩ load)
Fuse:	25A
Dimensions(WxHxD):	188.9x59.1x213.6mm
Weight:	1.6kg
Aux-in:	≥ 300mV

FM Stereo Radio	
Frequency range:	87.9-107.9MHz
Step:	200 KHz

AM Radio	
Frequency range:	540-1600 KHz
Step:	10 KHz
WX Radio	
Frequency range:	162.400-162.550MHz
Step:	0.025 MHz

BT	
Frequency range:	2402-2480MHz
EIRP power:	≤ 10dBm
Disc Player	
System:	Disc digital audio system
Frequency response:	20Hz-20kHz
Signal/noise ratio:	>80 dB
Total harmonic distortion:	Less than 0.20% (1kHz)
Wow and flutter:	Below measurable limits
Channel separation:	>55 dB

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

FCC STATEMENT

1. 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.

2. any 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

