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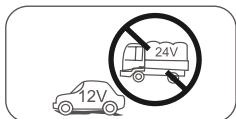
SD Card/USB Player FM/AM Tuner

OPERATION MANUAL

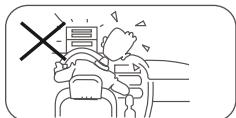
Safety Precautions

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.

Only connect the unit to a 12-volt power supply with negative grounding.



Never install this unit where the operation & condition for safety driving is restrained.



Never expose this unit, amplifier, and speakers to moisture or water for preventing electric sparks or fires.

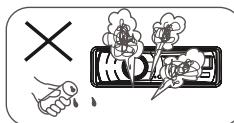


Please don't change the fuse on the power cord without professional guidance, using improper fuse may cause damage to this unit or even cause fire.



To ensure safe driving, please adjust the volume to a safe & comfort level in case of emergency situations.

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:



- (a). Water or other obstacle enters the unit;
- (b). Smoking;
- (c). Peculiar smell.

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.

Features

WMA and MP3 Compatibility

It is possible to playback WMA and MP3 files.

About WMA

The unit can playback WMA data.

Windows Media and the Windows logo are trade marks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

This unit may not operate correctly depending on the application used to encode WMA files.

About MP3

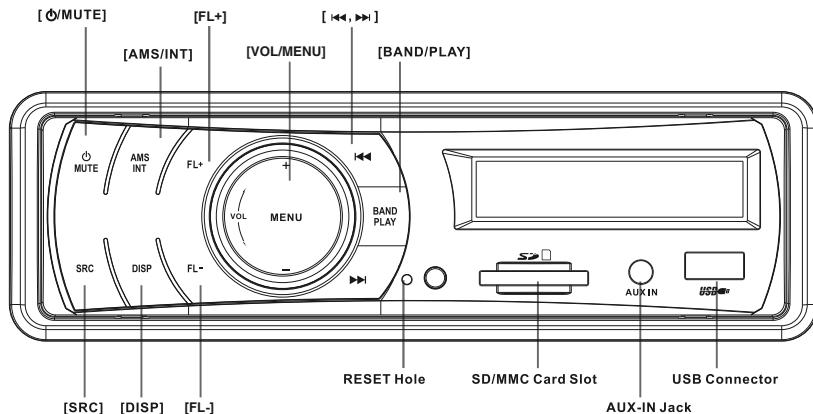
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Panel Controls

Power ON: Press [ /MUTE] button to turn on the unit.



1. [ / MUTE]: Press to POWER on; When on, press to MUTE; Long press to POWER off.
2. [BAND/PLAY]: Radio mode, press to switch BAND, In manual tuning mode, long press to store station.
USB mode, press to play/pause, long press to back to the first track.
3. [FL+]: Radio mode, press to select next preset station. In manual tuning mode, press to select a preset position.
USB mode, press to select repeat play, long press to enter previous folder.
4. [AMS/INT]: Radio mode, scan preset stations, long press to search and store strongest stations in the memory automatically.
USB mode, press to intro play. Long press to enter TRACK NUM SEARCH
5. [ , ]: Radio mode, press to tune manually. Long press to tune automatically.
USB mode, press to goto previous track, long press to fast-reverse/forward.
6. [SRC]: Select playback source
7. [DISP]: Display switch, long press to adjust time.
8. [FL-]: Radio mode, press to select previous preset station. In manual tuning mode, press to select a preset position.
USB mode, press to random play, long press to enter next folder.
9. [VOL/MENU]: Adjust the volume level (rotate).
Press to set sound effect. Long press to enter setting menu.

General Operation

Power On/Off Button

Press the [ / MUTE] 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 [VOL/MENU] knob to adjust volume level. Rotate it clockwise to increase and anticlockwise to decrease the volume.

Audio Mute

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

Audio Controls

To adjust the bass, treble, balance and fader, press the [VOL/MENU] knob repeatedly until the appropriate audio control appears on the display panel. Within five seconds, rotate the knob to adjust the audio settings for the selected function.

Mode Button (SRC)

Press the [SRC] button repeatedly to change following mode: Radio, USB (when USB is connected), Card(when SD/MMC card is in), AUX play, etc

Auxiliary Input

To access an auxiliary device:

1. Connect the portable audio player to the AUX interface on the front panel.
2. Press the [SRC] button to select AUX mode.
3. To cancel AUX mode, press [SRC] again.

Display Selector (DISP)

This unit can display the clock time, radio frequency. Ordinarily, the radio frequency or MP3/WMA track indication is displayed, but the unit will display the time when the [DISP] button is pressed. The time will display for approximately 5 seconds then return to previous mode.

Setting the Clock

The correct time of day can be set by pressing and holding the [DISP] button.

To set the clock, perform the following steps:

1. Press the [DISP] button to view the clock.
2. With the clock visible on the display, press and hold the [DISP] button until the time display flashes.
3. Within 5 seconds, rotate the knob counter clockwise to adjust the minutes to the desired setting. To change the hour, rotate the knob clockwise to adjust the hour to the desired time.
4. Press [DISP] to confirm.

Band

During radio play, press the [BAND/PLAY] button to choose between three FM and two AM bands.

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.

Manual store

When one expected radio station has been detected, press and hold the [BAND] button, then press the [FL-] or [FL+] button to select a preset position, press the knob to confirm. The unit can store 6 stations in each band.

Auto Store

Press the [AMS/INT] button to scan preset stations 1-6. Hold it to automatically select six strong stations and store them in the current band. The new stations replace stations already stored in that band.

Recall the stored stations

To recall the preset station, press [FL-] or [FL+] repeatedly.

1. Load SD/MMC Card

Insert the SD/MMC card into the slot, with the front side at top.

The unit will show CARD, and read the card automatically.

2. Take out SD/MMC Card

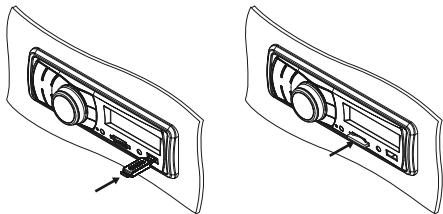
Press SRC button and switch to non CARD mode, take out the card.

3. Load USB Equipment

Insert the USB into the connector and the unit will read the USB storer automatically.

4. Take out USB Equipment

Press SRC button and switch to non USB mode, then take off the USB stick.



USB/SD/MMC Notes

USB functions (flash memory type) MP3 music play

1. SD/MMC card support
2. USB flash memory 2 in 1 (SD/MMC) support
3. FAT 12/FAT 16, FAT 32 is possible
4. Tag (id3 tag ver 2.0)
 - Title/artist/album: 32 byte support
5. Multi card reader not support
6. USB 1.1 support
 - USB 2.0 support
(It can not support USB 2.0 speed. Just, get the same speed with USB 1.1)



Note:

Not all USB devices are compatible with the unit.

Playing MP3/WMA Files

Display Information

During playback, ID3 tag information display scrolling on the screen: FOLDER, FILE, ALBUM, TITLE, ARTIST and Track Number/Elapsed Time.

Repeat Playback

1. Long press the [FL+] button to select:
RPT ONE: Repeat play current track.
RPT FOLD: Repeat play current folder.
RPT ALL: Repeat play all the tracks.
RPT OFF: Cancel repeat playback.

Direct Song/File Access

1. Press and hold the [AMS/INT] button to enable direct track searching.
2. Press the [VOL/MENU] knob to confirm.
3. Rotate the knob to select a number.
5. Repeat steps 2-3 to enter the other digits, 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.
6. Once the track number appears on the screen, long press the knob to play the selected song/file.

MP3 Overview

- MP3 is short for MPEG Audio Layer 3 and refers to an audio compression technology standard.
- This product allows playback of MP3 files on USB or SD/MMC card.
- The unit can read MP3 files written in the format compliant with ISO 9660. However it does not support the MP3 data written by the method of packet write.
- 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.
- The unit may not play tracks in the order of track numbers.
- The unit plays only the audio tracks if contains both audio tracks and MP3 files.

Menu Function

Press and hold the [VOL/MENU] knob more than 2 seconds to enter menu mode, then each press changes the mode as follows:

DSP mode

Rotate the knob to choose DSP sound effect:
POP -> ROCK -> CLASSIC -> FLAT -> DSP

LOUD ON/OFF

Rotate the knob to choose loudness on or off.

BEEP ON/OFF mode

Rotate the knob to choose button beep sound on or off.

SEEK 1/2 mode (in Radio mode)

Rotate the knob to choose radio seek mode 1 or 2.

SEEK 1: Searching station will stop when the next station is received.

SEEK 2: Searching station will stop when |<< or >>| button is released and next station is received.

STERE/MONO mode (in Radio mode)

Rotate the knob to choose FM stereo or mono.

LOCAL/DX (in Radio mode)

Rotate the knob to choose Radio local or distant.

VOL mode

Rotate the knob to choose volume last/adjust mode.

V-LAST: The turn-on volume level is the volume of latest power off.

V-ADJ: Press the knob to enter Volume Adjust mode, rotate the knob to set the turn-on volume level.

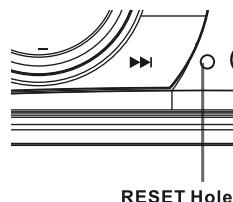
12/24 HOURS mode

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

Notes of connection

- To avoid short circuit in the electrical system, ensure that the negative battery cable is disconnected before installation.
- To prevent short circuit in the wiring and damaging to this unit, secure all wirings with cable clamp or adhesive tape. Route the wirings in a secured, out of heating place without touching any moving parts such as gear shift, handbrake, and seat rails to prevent the wiring insulation being melted / wore off.
- Never pass the yellow power cord through the installation hole into the engine compartment and connect to the car battery. Otherwise, a high possibility of serious short circuit to the electrical system may be occurred.
- Replacing a new fuse with 15A rating when the old one is broken, using no fuse or fuse with improper rating may cause damage to this unit or even fires. If a proper fuse is installed and electrical problems still occur, please contact with any professional car shops for inquiry.
- DO NOT connect other equipments with the car battery to avoid battery overheating.
- Please make sure all the wiring connections & the cables of the Speakers are well-insulated. Otherwise, this unit may be damaged by short circuit.
- If there is no ACC available, please connect ACC lead to the power supply with a switch.
- If an external power amplifier is connected, please don't connect P.CONT lead to the power lead of the external power amplifier, otherwise, electric spark or other damage may be resulted.
- Never ground the speaker output to prevent the damage to the built-in power amplifier.

Reset



The [RESET] button is located the bottom of the front panel. Resetting the unit will erase the time and preset memories. It should only be activated upon initial installation after all wiring is complete, or if there is a malfunction of any of the switches on the unit.

Fuse

When replacing a fuse, make sure the new fuse is the correct type and amperage. Using an incorrect fuse could damage the radio.

Troubleshooting

If you suspect something is wrong, immediately switch power off. Immediately stop using it and call the store where you purchased it. Never try to repair the unit yourself because it is dangerous to do so.

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 function normally.	The unit system is unstable.	Press the RESET button.
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/SD/MMC mode		
Unable to insert USB device or SD/MMC card.	The memory card or USB device has been inserted the wrong way round.	Insert it the other way around.
The USB device or SD/MMC card cannot be read.	NTFS format is not supported.	Check that the USB/SD/MMC file system is in FAT or FAT32 format. Due to different formats, some models of USB storage devices or MP3 players may not be read.

Specifications

General

Power supply:	12VDC (11V-16V), Test voltage 14.4V, negative ground
Maximum power output:	45W x 4 channels
Continuous power output:	20W x 4 channels (4Ω 10% T.H.D.)
Suitable speaker impedance:	4-8ohm
Fuse:	15A
Dimensions (WxHxD):	188 x 58 x 98mm
Weight:	0.52kg
Aux-in level:	≥500mV

FM Stereo Radio

Frequency range:	87.5-108.0MHz
Usable sensitivity:	8dB μ
Frequency response:	30Hz-15KHz
Stereo separation:	30dB(1KHz)
Image response ratio:	50dB
IF response ratio:	70dB
Signal/noise ratio:	>55dB

AM(MW) Radio

Frequency range	522-1620KHz
Usable sensitivity (S/N=20dB)	30dB μ

Components

Machine screws M5x6 mm	4
Wire connector	1
Trim plate	1
Operating Instructions	1

Note:

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

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