



DAB+ / CD / MULTIMEDIA PLAYER RECEIVER

- DAB+ Digital Radio Receiver • USB / SD Memory Card Ports
- Front Panel AUX-IN • 4 CH RCA Line-Out • Subwoofer Line Out



SPECIFICATIONS

GENERAL

- Flip Down Detachable Face Panel
- LCD Display
- Illuminated Controls (Blue)
- ISO DIN Mounting
- ISO Wiring Harness
- Dimensions:
(Chassis) 178W x 50H x 158D mm
(Nose Piece) 188W x 58H x 20D mm
- 12 Volt DC (11-16V) Negative Ground

MP3 / CD PLAYER

- Supports MP3 / CD / WMA / CDR / CDRW Formats
- Electronic Shock Protection
- Zoom / Slow / Multi-Angle Viewing / Last Position Memory
- Intro / Repeat / Random Play / Track Up-Down
- Select Folder / Track / File Search
- Auto Load

TUNER

- DAB+ Digital Tuner
- 1174.928MHz ~ 239.200MHz
- DAB+ Antenna
- PLL Synthesized AM/FM Stereo
- Xtreme Long Range Tuner
- FM 87.5-108 MHz; AM 522-1710 KHz
- Interference Absorption Circuit
- 30 Station Presets - 18FM/12AM Memory
- Station Seek / Scan / Auto Store
- Program Search
- Mono / Stereo
- Local / Distant Control
- Digital Clock

MULTIMEDIA

- USB Input: Front Panel
- SD - MMC Card Port: Behind Front Panel
- AUX-IN Socket: Front Panel
- Compatible with audio output of most iPod and MP3 Players

AUDIO CONTROL

- Pop Up Rotary Encoder
- Electronic Volume / Balance / Bass / Treble / Fader
- Subwoofer Line Out
- Loud / Mute
- 4 Ch RCA Line Out - 4 Volt
- 4-Band DSP Settings
- Speaker Impedance 4-8 Ohm
- Max Power 40 Watts x 4 Ch



INSTALLATION MANUAL AX 1104DAB+




Safety Information

Thank you for purchasing this product. Please read this manual carefully before operating and save it for future reference.

PRECAUTIONS

- Use only in a 12-volt DC negative-ground electrical system.
- 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 that pins or other foreign 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 becomes normal before operating the unit.
- Keep the volume at a level at which you can hear outside warning sound (horns sirens, etc).

CD Notes

- Playing a defective or dusty CD can cause dropouts in sound. 
- Hold CDs as illustrated. 
- 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 centre outward with a cleaning cloth. Never use solvents such as benzene or alcohol.
- This unit cannot 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 malfunction.

Before Operation

- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operation.

CAUTION

- DO NOT open covers and do not repair yourself. Consult the dealer or an experienced technician for help.

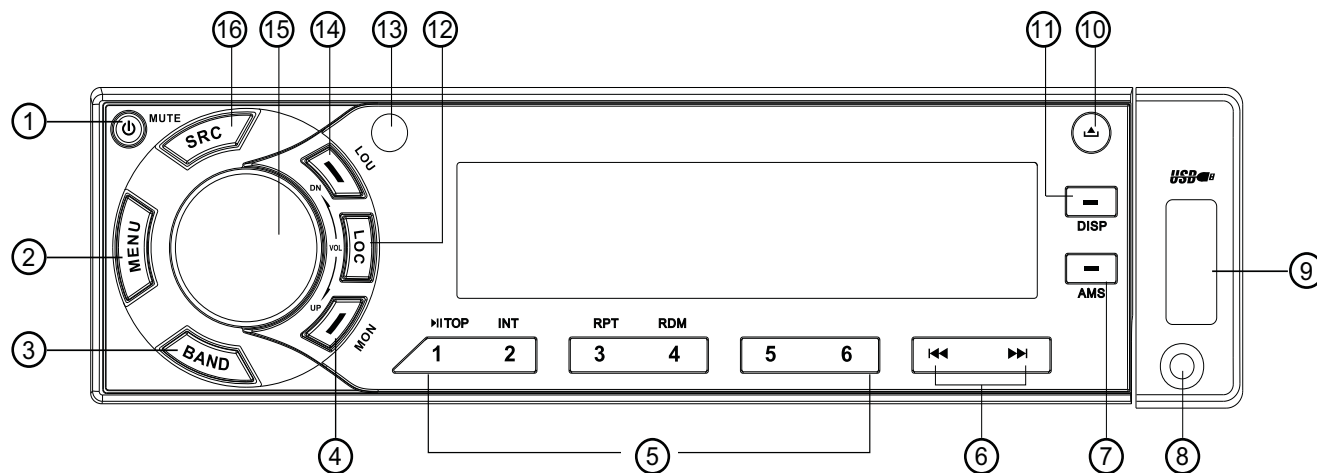
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* In addition to ordinary CDs, this unit can play back CD-R or CD-RW, MP3.

Panel Controls

Power on : Press any button on the panel except  to turn on the unit.



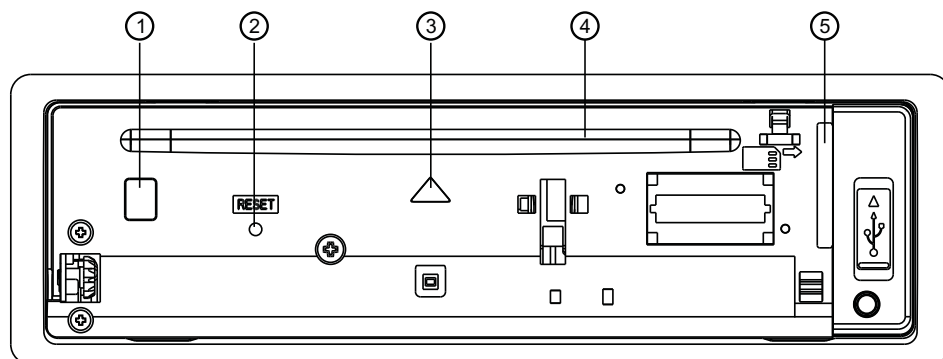
1. - Power on
- Mute
- Press more than 2 seconds to power off.
2. - Press to select VOL/BAS/TRE/BAL/FAD,
rotate the knob to adjust level.
- Hold it for system menu.
3. - Band switch:
FM1->FM2->FM3->AM1->AM2
BAND1-> BAND2->BAND3
4. - FM stereo/mono
5. - Track playback
Button 1: - Play/Pause function.
- Press and Hold to start playback
from the beginning of the first
track.

- Button 2: - Intro play (10 sec)
- Button 3: - Track repeat play
- Button 4: - Track random play
- Button 5: - MP3 track -10 down
- Press & Hold for previous folder.
- Button 6: - MP3 track +10 up
- Press & Hold for next folder.
- Radio preset
Press 1~6 to listen to a preset station.
Hold 1~6 to store station.
6. - Radio tune
- Track skip/seek
7. - AMS: Radio preset scan
Radio auto preset
- SEARCH: MP3 track/file/character search.

8. - AUX-in jack
9. - USB connector
10. - Panel release
11. - Display switch
12. - Radio local/distant
13. - Remote sensor
14. - Loudness
15. - Press to pop out/push back the knob.
- Rotate the knob to adjust volume level.
16. - Radio
- Disc play (when disc inserted)
- USB (when USB inserted)
- Card (when SD/MMC inserted)
- AUX-in

Other Instructions

Press the  button to open the panel and press  to eject the disc.



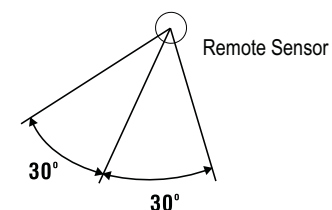
1. - Disc eject
2. - Reset hole
Note: Pressing the RESET hole will erase the clock setting and stored stations.
3. - Panel status indicator
Illuminates when the panel is open;
Blinks when the panel is removed.
4. - Disc slot, insert the disc.
5. - SD/MMC card slot

Remote Control

Remote control operating range

Point the remote control unit to the remote sensor.

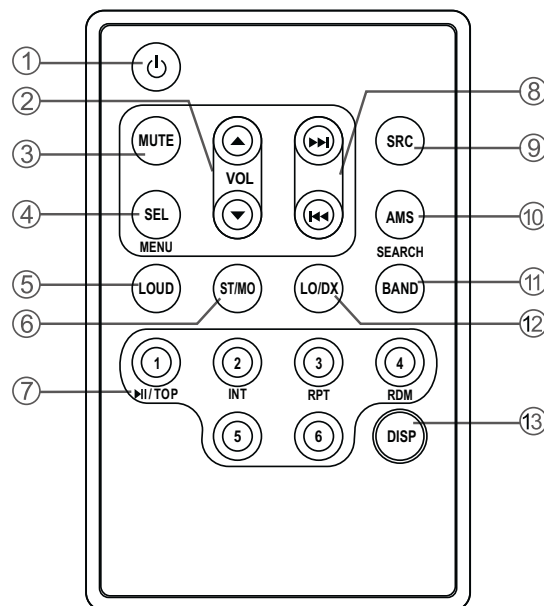
The remote control can operate within a distance of 3~5m.



Remote Control

Power On : Press any button on the remote control to turn on the unit.

1. - Power on/off
2. - Volume
3. - Mute
4. - Press to select VOLUME/BASS/TREBLE/
BALANCE/FADER, use volume button to
adjust level.
- Press for more than 2 seconds for menu
function.
5. - Loudness
6. - FM stereo/mono
7. - CD playback
Button1: Press briefly for Play/Pause
function.
Press for more than 2 seconds to start
playback from the beginning of the
first track.
Button2: Intro play(10sec)
Button3: Track repeat play
Button4: Track random play
Button5: Previous folder
- MP3 track -10 down (Press & Hold)
Button6: Next folder
- MP3 track +10 up (Press & Hold)
- 1-6 Button: Radio preset
Press to listen to a preset station,
Hold for more than 2 seconds to store station.
8. - Radio tune
- To fast search within a track/skip to next
or previous track

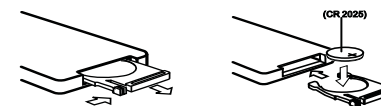


9. Radio
- Disc play (when disc inserted)
- Card (when SD/MMC inserted)
- USB-drive (when USB inserted)
- AUX-in
10. - AMS: Radio preset scan/Radio auto preset
- SEARCH: MP3 track/file/character search
11. - Band switch
12. - Radio local/distant
13. - Display switch

Replacing the lithium battery of remote control unit.

When the operating range of the remote control does not function, replace the battery with a new lithium battery. Make sure the battery Polarity replacement is correct.


1. Pull out the battery holder while pressing the stopper.
2. Insert the button-type battery with the stamped(+) mark facing upward.
Insert the battery holder into the remote control.

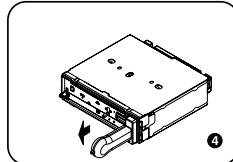
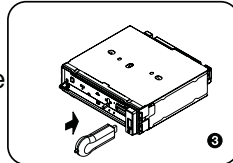
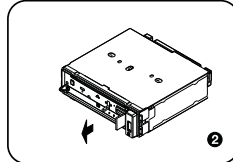
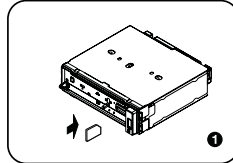


WARNING:

- Store the battery away from children's reach. If a child accidentally swallows a battery, immediately seek medical help.
- Do not recharge, short, disassemble or heat the battery or dispose it in a fire. Doing this may cause the battery to give off heat, crack or start a fire.
- Do not store the battery with other metallic materials.
- When throwing away or saving the battery, wrap it in tape and insulate.

USB/SD/MMC MP3 Playback

1. Loading SD/MMC Card
Press  button to flip down the panel. Insert the SD/MMC card into the slot, with the front side to the left. Close the panel. The unit will automatically play the music.
2. Take out SD/MMC Card
Press SRC button and switch to non CARD mode. Open the panel. Slightly press the card and remove the card when released.
3. Loading USB equipment
Open the cap, insert the USB into the connector. The unit will automatically play the USB.
4. Press the SRC button and switch to non USB-DRIV mode. Then remove the USB device. Close the protective cap.



USB/SD/MMC Notes

USB function (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. File name: 32 byte / dir name: 32 byte / tag name: 32 byte.
5. Tag (ID3 tag ver 2.0)
- title / artist / album: 32 byte support.
6. Multi card reader not supported.
7. USB 1.1 support.
USB 2.0 support
(It cannot support USB 2.0 speed. Will play the same speed with USB 1.1).

Due to the great variety of recording formats, we cannot guarantee that all kinds of USB & SD card devices are compatible with this unit.

Basic Operations

Disc Load / Eject

Load : Press  to flip down the panel. Insert the disc into the slot.

Eject : Press  to flip down the panel. Press  to eject the disc .

Disc Playback

Track skip: Press |<< or >>| briefly to go to the next or previous track.

Track seek: Press |<< or >>| for more than 2 seconds to seek the next or previous track.

AMS : Auto Memory Store

Press AMS briefly to scan the preset station 1-6 for 5 seconds each. Hold for more than 2 seconds. The 6 strongest available stations will be automatically saved in the memory of preset buttons 1-6.

Viewing Clock

During Radio/Disc Playback

Press DISP (once for Radio mode or twice for other modes). Display shows the time for 5 seconds.

Setting The Clock

Press DISP, time displays. Press again for more than 2 seconds, time display blinks.

Rotate the knob clockwise to set the hours. Rotate the knob counter-clockwise to set the minutes. Press DISP again to exit the clock setting.

Radio Operation

Band Switch

Press BAND button to select radio band as follows: FM1, FM2, FM3, AM1, AM2

TUNE

MANU SEEK: Press ◀ or ▶ to tune step by step.

AUTO SEEK: Press ◀ or ▶ more than 2 seconds to seek automatically.

Store Station Manually

Press button 1 - 6 for more than 2 seconds to store current station.

Press 1-6 briefly to recall preset station.

Store Station Automatically

Press AMS button more than 2 seconds to automatically seek and save the 10 strongest stations in the current band.

Press AMS button briefly to intro play the preset stations.

DAB Operation

Band Switch

Press BAND button to select DAB band as follows: BAND1-> BAND2->BAND3

Search stations

Full Scan: press AMS button.

TUNE(DAB)

1. Press and hold radio tune buttons ◀ or ▶ to display next or previous frequency.
2. Press volume knob button to connect to station.

Store station

Press button 1 - 6 more than 2 seconds to store current station.

Press 1-6 briefly to recall preset station.

LOC button

Press LOC button. The unit will display "Short Service Name" or "Full Service Name".

Track seek

Press ◀ or ▶ to seek the forward or previous service name.

MP3 Playback

While playing MP3 Disc/USB/SD/MMC-MP3 MUSIC, the folder/file name and ID3 TAG (Song title, Album and Artist) can scroll entirely across the LCD.

Press the button BAND to show ID3 information:

Elapsed playing time & Track number ->

Folder name & number -> File name & number

-> Song title -> Album title -> Artist name

Direct Song/File Access

1. Press the AMS button once and press MENU button to enable direct track search.
2. Rotate the VOL control to select a digit at the unit's position.
3. Press MENU button to confirm entry and the 'ten' digit will flash.
4. Rotate the VOL control to select the 'ten' digit.
5. Repeat above steps to enter the 'hundred' and 'thousand' 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, press and hold MENU button to play the selected song/file.

MP3 Playback

Searching Folders/Files

1. Press the AMS button twice and press MENU button to access the "FILE SCH" option.
2. Rotate the VOL knob to select the desired directory/song.
3. Press MENU button to view the files inside the selected directory.
4. Rotate the VOL knob to select the song/file. Press MENU button to play the selected song/file.

Searching by Name (CHAR-SCH)

1. Press the AMS button three times and press MENU button to access the "CHAR SCH" option.
2. Rotate the VOL knob to select the characters A-Z, _ , - , + , and 0-9 for the first character.
3. Press MENU button to confirm entry of the character and move to the next position.
4. Repeat for up to eight characters.
5. Hold MENU button for 2 seconds to begin the search.
6. If a directory is found, rotate the VOL knob to select the song/file in this directory/folder.
7. Hold MENU button for 2 seconds to play the selected song/file. "NO MATCH" appears if there is no file beginning with the search string entered.

MP3 Overview

Note on MP3

"MP3" technology (mpeg audio layer3) compresses the digital data of an audio CD significantly while maintaining CD-like sound quality.

- MP3 is a music compression technology,
- This product allows playback of MP3 files on CD-ROM, CD-R or CD-RW discs.
- The unit can read MP3 files written in the format compliant with ISO 9660. However it does not support the MP3 data written by packet writing.
- The unit can not read an MP3 file that has a file extension other than ".mp3".
- If playing a non- MP3 file that has the ".mp3" extension, distortion may be heard.
- In this manual, we refer to "MP3.file" and "folder" in PC terminology as "track" and "album" respectively.
- Maximum number of directory is 128. Maximum number of directory level is 8, including the root directory. Maximum number of MP3 files per disc is 1000.
- The unit may not play tracks in the order of track numbers.

- The unit supports multi-session discs with MIXED & EXTRA format. Play of MP3 tracks is priority. MIXED format: first is MP3 data, second is audio data. EXTRA format: disc structure first is audio data, second is MP3 data.
- The unit supports all MPEG bit rate including free format for MPEG 1 audio layer 3, except 8kbps and free format for for MPEG 2 audio layer 3.
- The unit support 32/44.1/48kHz sampling rate for MPEG 1 audio layer 3, 32/44.1/48kHz and 16/22.05/24kHz sampling rate for MPEG 2 audio layer 3, and 44.1kHz sampling rate for VBR (Variable Bit Rate).

How to get music files

- Either download legal music files from the internet to your computer hard disc or create them from your own audio CDs. For this, insert an audio CD into your computer CD-RW drive and convert the music using an appropriate encoding software.

MP3 Overview


Note on creating your own CD-Rs or CD-RWs containing MP3 files

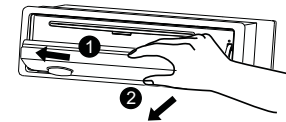
- To enjoy high quality music, we recommend converting MP3 files with a sampling frequency of 44.1 kHz and a fixed bit rate of 128 kbps.
 - Do not store more than 1000 MP3 files per disc.
 - For ISO 9660 -compliant format, the maximum allowable depth of nested folders is 8, including the root directory (folder).
 - When CD-R disc is used, playback is possible only for discs which have been finalized.
 - Make sure that when MP3,CD-R or CD-RW is burned that it is formatted as a data disc and NOT as an audio disc.
 - It is not recommended to write non-MP3 files or un-related folders along with MP3 files on the disc, otherwise it may take a longer time to start playing the MP3 music.
 - With some CD-R or CD-RW media, data may not be properly written due to inferior manufacturing quality. In this case, data may not be reproduced correctly. High quality CD-R or CD-RW discs are recommended.
- Support ID3 tag Version 1.XX and 2.XX, up to 16 characters can be displayed for the title of the song, album and the artist.
 - Note that the unit may not play tracks in the same sequence as ripped and recorded.

Anti-Theft

This unit is designed with a flip-down detachable panel. The panel can be detached and taken with you, helping to deter theft.

Removing the panel

- Switch off the power.
- Press  to flip down the panel.
- Hold right part of the panel. Gently push it to the left side, then pull it out.
- Place the panel into the case and take it with you.



Menu Function

Press and hold MENU button more than 2 seconds to enter submenu mode. Then press continuously to change the mode. All modes show as follows:

DSP mode

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

BEEP ON/OFF mode

Rotate the VOL knob to choose function beep sound on or off.

VOL mode

Rotate the VOL knob to choose volume last/adjust mode.

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

VOL ADJUST: Press MENU button to enter A-VOL mode. Rotate to set the turn-on volume level.

WOOF ON/OFF

Rotate the VOL knob to choose subwoofer on or off.

SEEK 1/2 mode

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

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

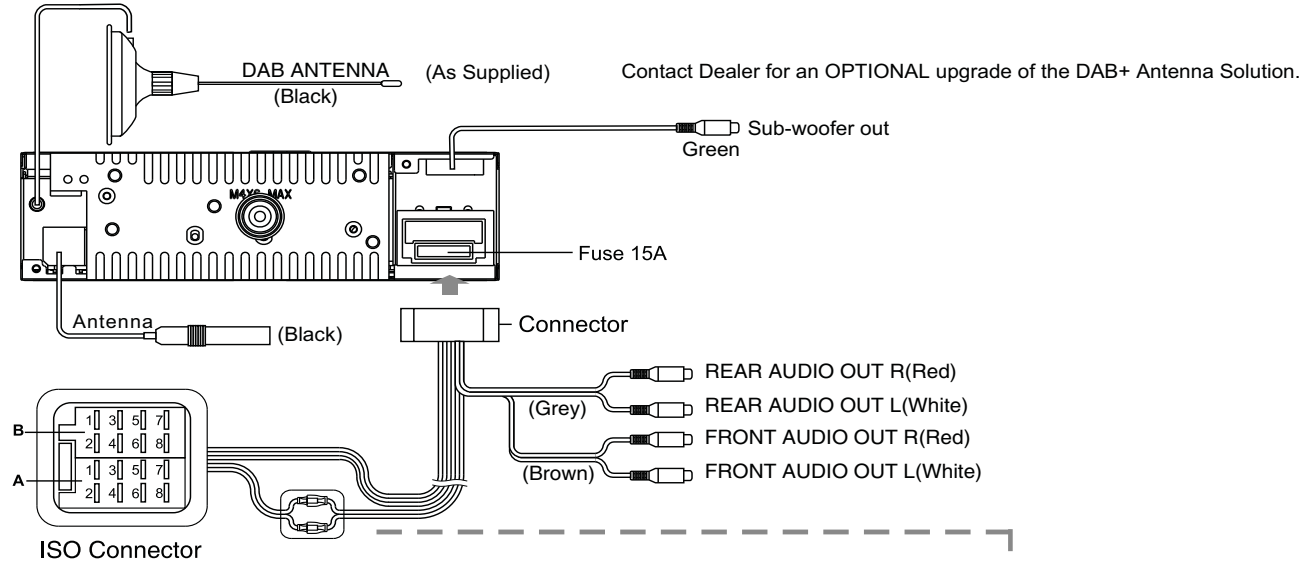
SEEK 2: Station search will stop when |<< or >>| button is released and next station is received.

12/24 HOUR mode

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

Electrical Connections

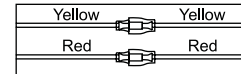
Wiring Diagram



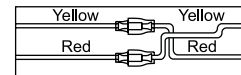
Location	Function	
	Connector A	Connector B
1		Rear Right (+) / Purple
2		Rear Right (-) / Purple with Black Stripe
3		Front Right (+) / Grey
4	Battery 12V(+) / Yellow	Front Right (-) / Geay with Black Stripe
5	ANT/AMP control / Blue with white stripe	Front Left(+) / White
6		Front Left(-) / White with Black Stripe
7	ACC+ / Red	Rear Left (+) / Green
8	Ground / Black	Rear Left (-) / Green with Black Stripe

For some VW/Audi or Opel(vauxhall) car models, the wiring of the supplied power cord may need to be modified as illustrated, to retain the memory of the unit after you power off. Contact your authorized car dealer before installing this unit.

Original wiring



Modified wiring




Installation Guide

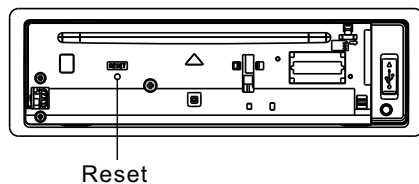
Installation Procedures

First complete the electrical connections, and check for correctness.

Reset

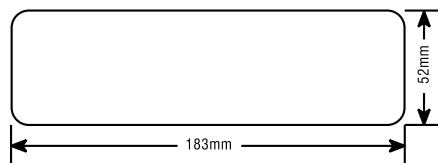
Press  button to flip down the panel. Then press the RESET button with a pointed object to reset the unit to the factory settings.

Note: Pressing the RESET button will erase the time and stored stations.



Installation Opening

This unit can be installed in any dashboard having an opening as shown below. The dashboard should be 4.75mm - 5.56mm thick in order to be able to support the unit.

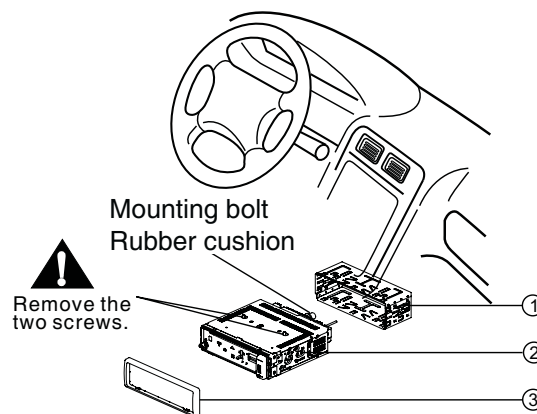


Install the unit

Important:

Remove the two transit screws on the top of the unit before installation.

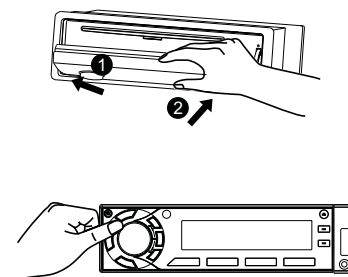
Otherwise, the player will not work.



1. Inset mounting collar into the dashboard, and bend the mounting tabs out with a screwdriver.
Make sure that lock lever is flush with the mounting collar (not projecting outward).
2. Secure the rear of the unit.
After fixing mounting bolt and power connector, fix the rear of the unit to the car body by the rubber cushion.
3. Insert trim plate.

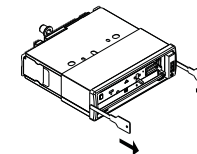
Installing the panel

- Hold the panel and ensure the face is open. Set one side of the panel in the panel bracket. Press the other side of the panel until it locks.
- Press the top of panel until it locks.



Removing the unit

1. Switch the power off.
1. Remove the panel and the trim plate.
2. Insert both T-Keys into hole on the front of the set until they lock.
3. Slide out the unit.



Troubleshooting

If you suspect something is wrong, immediately switch off power. Do not use the unit under abnormal conditions, (eg without sound, or with smoke) Never try to repair the unit yourself.

General		
No power or no sound.	Vehicle ignition is off.	Turn your car's key to ACC or ON.
	Cable is not correctly connected.	Check connection.
	Fuse is burnt.	Replace fuse.
	Volume is too low or muted.	Check volume or mute on / off.
	If the above solutions cannot help.	Press the RESET button.

Radio		
Much noise in broadcast.	Station is too far, or signals are too weak.	Select other stations of higher signal level.
Preset station lost.	Battery cable is not correctly connected.	Connect the battery cable to the terminal that is always live.

Disc		
Disc is inside but no sound.	Disc is upside down.	Place disc in the correct direction, with the label side up.
	Disc is dirty or damaged.	Clean disc or change to another disc.
Disc sound skips, tone quality is low.	Disc is dirty or damaged.	Clean CD or change CD.
Sound skips due to vibration.	Mounting angle is over 30°.	Adjust mounting angle to less than 30 °.
	Unstable mounting.	Mount the unit securely with accessories supplied.

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.	Format is not supported.	Check that the file system is in FAT or FAT32 format. Due to different formats, some models of devices may not be read.

Specifications

General

Power supply	12V DC(11V-16V) Test voltage 14.4V, negative ground
Max.current consumption	12A
Maximum power output	50Wx4 channels
Continuous power output	20Wx4
Suitable speaker impedance	4-8ohm
Pre-Amp output voltage	2.0V (CD play mode: 1KHz, 0dB, 10K Ω load)
Fuse	15A
Dimensions(WxHxD)	178x50x166mm
Weight	1.64kg
Aux-in level	\geq 300mV
SUB-out	2V

Disc Player

System	Disc digital audio system
Frequency response	20Hz - 20KHz
Signal/noise ratio	>80dB
Total harmonic distortion	Less than 0.20%(1KHz)
Channel separation	>60dB

FM Stereo Radio

Frequency range	87.5 – 108.0MHz
Usable sensitivity	10dB 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	530 – 1710KHz
Usable sensitivity(S/N=20dB)	30dB μ

DAB+ Digital Radio

Frequency range	1174.928MHz ~ 239.200MHz
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Components

Mounting collar	1
Machine screws M5x6 mm	4
Mounting bolt (50mm)	1
Wire connector	1
Removable face plate case	1
Trim plate	1
T-key	2
Operating Instructions	1
Rubber cushion	1
Remote control unit	1

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

WARRANTY

Congratulations on your purchase of a quality **axis** Mobile Audio System! You're joining thousands of satisfied customers who enjoy & experience the benefits of the products we distribute. In the unlikely event that some technical difficulty arises with your purchase, be assured that we are most anxious to see that the problem is quickly rectified to your satisfaction. Please familiarise yourself with the following simple conditions of our warranty.

This warranty covers faults through component failure or failure of the product to operate in accordance with published specifications. Product failure as a result of unreasonable environmental conditions, accident, misuse, improper installation, unauthorised repair, vehicle electrical or wiring faults or neglect etc, will not be covered by this warranty. Removal and installation costs, if any, would be paid by the owner as well as any freight or postage costs of transporting the product to AudioXtra. AudioXtra shall not be liable or responsible for any loss of use of this product or any form of consequential loss.

CONSUMER WARRANTY

This product is warranted by AudioXtra International Pty Ltd to be free from defects in materials and workmanship under **NORMAL USE** for a period of **TWENTY FOUR MONTHS** from the date of purchase.

WITHIN 30 DAYS OF PURCHASE DATE: Please return the unit for replacement to our National Service Centre or the Retailer from where you made the purchase. All accessories must be included. Proof of purchase date **must** accompany the product.

AFTER 30 DAYS OF PURCHASE DATE: Warranty repair and service is carried out by our National Service Centre. Repair and service will be carried out at no cost to the owner if proof of ownership and the date of purchase can be verified to the satisfaction of the authorised centre concerned with this repair. This proof should take the form of either:

- a) The warranty card accompanying this product, stamped and dated by the dealer.
- b) A Tax Invoice or Receipt showing full details of original vendor, purchaser, model number and serial number.

COMMERCIAL WARRANTY: A product used in or associated with a commercial application will carry a limited **SIX MONTH** warranty. An abnormal commercial application is one where usage, dust, vibration, heat/cold and other environmental conditions exist at an extreme level.

Please complete details below in the event of warranty service being required.

Purchaser's Name: _____

Purchaser's Address: _____

Model Number: **AX 1104DAB+** Serial Number: _____

Dealer Name: _____ Date of Purchase: / /

Dealer Address: _____

Invoice/Sales Docket no: _____

General Hints:

To expedite service and prompt return of the equipment, please:

- a) Clearly describe the fault in detail
- b) Safety and security pack the unit for transport
- c) Include your return address
- d) Provide proof of purchase date as outlined above

audioxtra
INTERNATIONAL PTY LTD

www.audioxtra.com.au

National Service Centre:

10 STODDART ROAD, PROSPECT, SYDNEY NSW 2148 Australia

Telephone: (02) 8841 9000 Fax: (02) 9636 1204 email: service@audioxtra.com.au

PN:127075003165