

POWER ACOUSTIK

Car AM/FM Radio, CD, CD-R/RW, MP3
Player with USB/SD Card Inputs

Model No.: PCD-81B



USER'S MANUAL

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PRECAUTIONS

Precautions & Warnings

- To reduce the risk of fire, electric shock, and interference, do not attempt to repair this unit yourself. Refer all service to a qualified technician.
- Some MP3/WMA files may not be playable.
- Keep the volume at a reasonable level to avoid distracted driving. High volume levels may make it difficult to concentrate on traffic and road conditions while driving.
- If the car has been in direct sunlight for an extended period, you may need to reduce the temperature inside the car before turning on and using the unit.
- If the battery is disconnected, discharged, or changed, the preset memory of the unit will be lost and require reprogramming.
- The unit is designed to be installed in a level, horizontal position.
For optimal performance, avoid installing the unit at an angle.
- Never use excessive force when removing or attaching the faceplate.
Do not tightly grip the display and buttons to avoid damage.

Lithium Battery Cell Warnings

- Cell leakage may cause damage to the remote control.
- Do not throw cells into fire as this may cause an explosion.
- Keep battery cells out of reach of children.

Drives and connections

Never place any foreign objects into the openings of the car radio (USB jack, card slot, AUX IN connection). Otherwise you might damage the slots and connections.

Others Warnings

Do not switch on the car radio for long periods of time when the motor is switched off. This could cause the car battery to discharge and the vehicle can no longer be started.

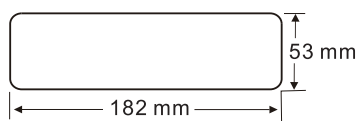
INSTALLATION

Installation Procedures

First complete the electrical connections and then check for correctness.

Installation Opening

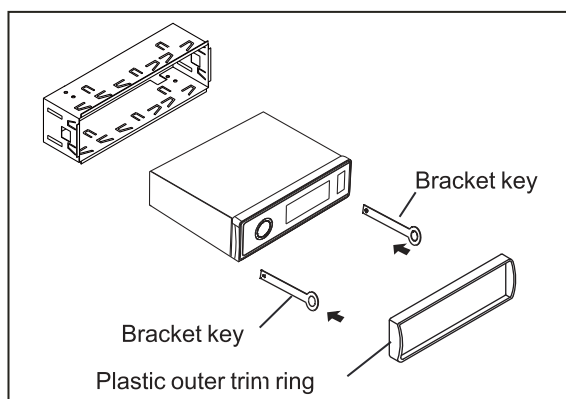
This unit can be installed in any dashboard Having an opening as shown the right figure.



To Install the Car Radio

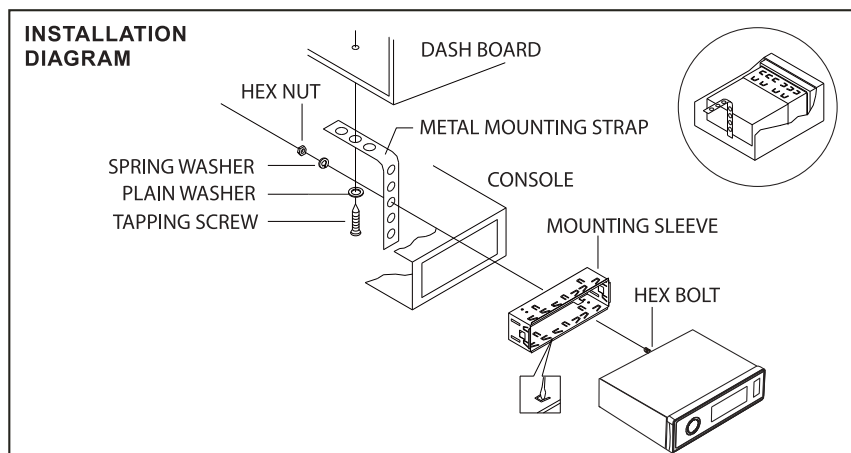
Be sure you test all connections first, and then follow these steps to install this unit.

1. Make sure the ignition is turned off, and then disconnect the cable from the vehicle battery's negative (-) terminal.
2. Disconnect the wire harness and the antenna.
3. Lift the left or right top corner of the plastic outer trim ring then pull it out to remove it.
4. Insert the two bracket keys into the left and right side of the chassis, as shown the below figure to separate the chassis from the housing.



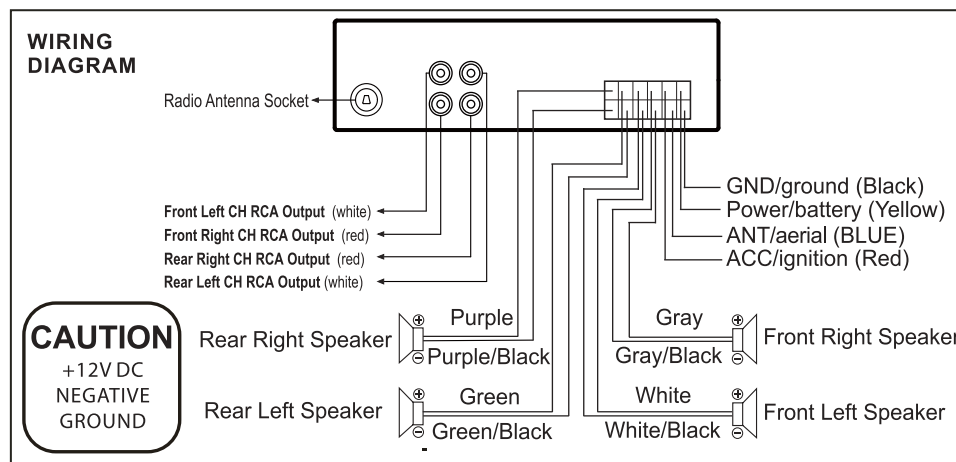
5. Insert mounting sleeve into the dashboard and bend the mounting tabs out with a screw-driver. Make sure that the lock lever is flush with the mounting sleeve and is not projecting beyond.
6. Insert car radio into the mounting sleeve.
7. Use a metal strap to secure the rear part of the chassis using the hardware indicated.
8. Make wiring connections, as illustrated in the "Wiring Diagram."
9. Install the plastic outer trim ring.

INSTALLATION(CONT.)



- Only use speakers with 4 ohms impedance.
- Do not attach the control panel to the chassis before wiring is complete.
- The maximum current of the auto antenna is 200mA.

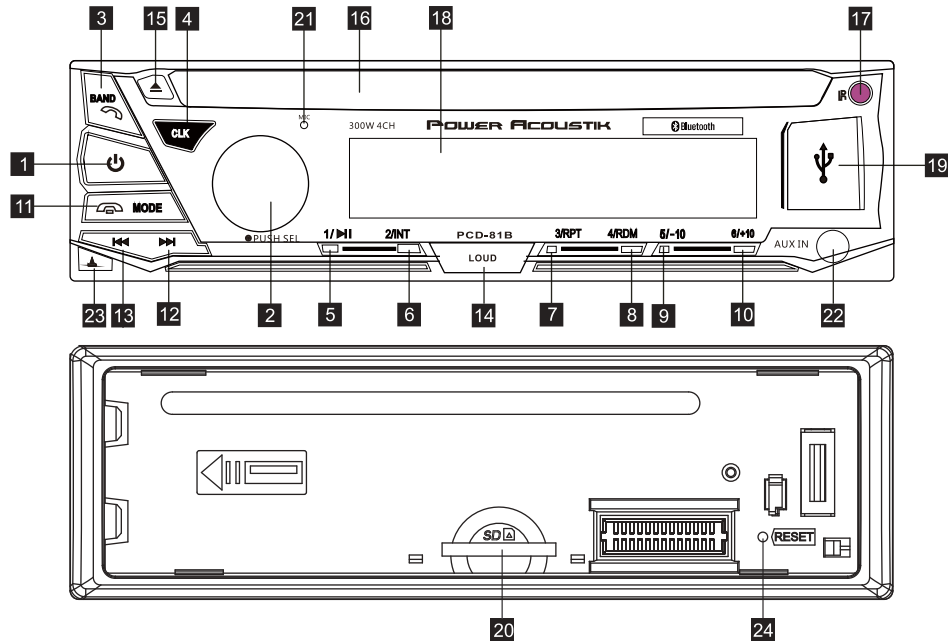
Wiring Connections



Removal of the Main Unit

1. Remove the metal strap from the main unit.
2. Remove the plastic trim out from the main unit.
3. Insert a bracket key into the left and right side of the main unit and draw the unit out of the mounting sleeve.

CONTROL PANEL BUTTON LOCATIONS



1. ⏻ (power)button
2. SEL (select/menu) button and VOL (volume) knob
3. BAND(band) button, 📶 button
4. CLK (clock setting) button
5. ⏸ (pause/play), Preset station 1 button
6. INT (intro), Preset station 2 button
7. RPT (repeat), Preset station 3 button
8. RDM (random), Preset station 4 button
9. -10(previous 10 tracks), Preset station 5 button
10. +10(next 10 tracks), Preset station 6 button
11. MODE (source) button, 🔄 button
12. ⏮ (tune down, seek down, track down, fast reverse) button
13. ⏭ (tune up, seek up, track up, fast forward)button
14. LOUD,button
15. ⏏ (eject) button
16. Disc slot
17. IR remote control sensor
18. LCD Display
19. USB port
20. SD Card Slot
21. MIC hole(built-in Microphone)
22. AUX IN (auxiliary input) jack
23. 📶 (Release) button
24. RESET button

GENERAL OPERATION

Turn Unit On/Off

- Press the power (⏻) /MODE button on the front panel to turn on the unit, and long press it again to turn off the unit.
- Press the power (⏻) button on the remote control to turn the unit on or off.

Adjust Volume (VOL)

Rotate the **VOL** knob on the front panel or press the **VOL+ ▲** /**VOL- ▼** button on the remote control to increase or decrease the volume level.

Adjust Menu Options (SEL)

- Press the **SEL** button on the front panel or on the remote control repeatedly to cycle through the following adjustable audio functions: BASS, TREBLE, BALANCE, FADER, EQ FLAT/POP/ROCK/CLASS/OFF, LOUD ON/OFF, DX/LOC, STEREO/MONO and VOLUME.

- Rotate the **VOL** knob on the front panel or press the **VOL+ ▲** /**VOL- ▼** button on the remote control to adjust the selected item.

- BASS/TREBLE:-07,-06,~, -01,00,+01,~, +06,+07
- BALANCE:L07,L06,~, L01, 00, R01,~,R06,R07
- FADER:R07,R06~,R01,00,F01,~,F06,F07
- EQ(Equalizer) Setting:OFF, FLAT, POP, ROCK, CLASS
- Loudness: LOUD ON/OFF
- DX/LOCAL: Enables or disables the local broadcast mode (LOCAL).
- Stereo/Mono: Switches between MONO and STEREO reception mode for radio frequencies.
- Volume level:00,01,~,40

- Press and hold the **SEL** button on the front panel or press the **SEL** button on the remote control to access these additional functions:VOL(LAS/ADJ), AREA EU/US, CLOCK 24/12, BEEP ON/OFF.

- VOL(LAS/ADJ):This option allows you to preset a volume level as the power-on memory volume level.
- VOL LAST: In this mode,the unit switches on at the actual volume it had when it was last switched off.
- VOL ADJ: In this mode, the unit power on at the actual volume that you presetted a constant switch-on volume level.
Press the **SEL** button to enter the constant switch-on volume adjusting mode and the "A-VOL XX" will be shown on the LCD display.
Then you can adjust a constant switch-on volume level by rotating the **VOL** knob.
- AREA EU/US: This car radio is equipped the Europe / USA frequency.
Rotate the volume knob to switch between USA and europe frequency.
The system will change the frequency setting in about 3 seconds.
- CLOCK 24/12:
This unit is equipped with two types of clock display formats, 24 and 12 hours.
Rotate the volume knob to choose 24 hours format or 12 hours format.
- BEEP ON/OFF:Enables or disables the "BEEP" signal to confirm use.

- Rotate the **VOL** knob on the front panel or press the **VOL+ ▲** /**VOL- ▼** button on the remote control to adjust the selected item.

Set the Clock (CLK)

1. To display clock time, press the **CLK** button.
2. To set clock time, press and hold the **CLK** button and the hour will flash.

GENERAL OPERATION (CONT.)

3. Press the ◀◀ or ▶▶ button on the front panel or on the remote control to adjust the hour.
4. Press the **CLK** button and the minutes will flash.
5. Press the ◀◀ or ▶▶ button on the front panel or on the remote control to adjust the minute.
6. Note: During Bluetooth mode, the clock can not be adjusted.

Change the Source (MODE)

Press the **MODE** button to switch between RADIO, BT(Bluetooth), USB(with USB device inserted), CARD(with SD card inserted) and AUX-IN(auxiliary input) modes.

Mute on/off

In power on mode, briefly press the **MUTE** button to toggle mute on or off. The muted state will be also released when the volume knob is used.

Loudness on/off

Press the **LOUD** button on the remote control to turn on the loudness to reinforce the output of bass frequencies, press again to turn it off.

Preset Equalizer (EQ)

Press the **EQ** button on the front panel or on the remote control to toggle between EQ OFF, FLAT, POP, ROCK, CLASS.

Release the detachable front panel

Press the  (Release) button to detach the detachable front panel, then the front panel can be removed from the chassis.

USB port

The USB port of this car radio is designed for media playback from flash memory devices.
Note: This USB port is not designed to charge high-power devices.

Built-in Microphone

To receive your voice when you calling by using this bluetooth handsfree system.

Aux input connector

The 3.5mm auxiliary input stereo connection is designed for deiveces with 3.5mm line-out or headphone output.

Reset System (RESET)

The RESET button is used to reset all parameters to factory default settings.
This function may be used when the LCD does not display normally or sound is distorted, or when any of the controls are disabled. Press the  button to release the front panel and remove it, then use a thin object with a pointed end to depress the **RESET** button.

RADIO OPERATION

Switch Between USA area and Europe area Frequency

In radio mode, press and hold the **VOL** button to enter switch state of the EU(USA) and EU (europe) frequency, then rotate it to switch between US(USA) and EU(europe) frequency. The system will change the frequency setting in about 3 seconds.

Change Bands (BAND)

Press the **BAND** button to switch between the FM1, FM2, FM3, AM1 and AM2 bands. Each band stores up to six preset stations.

Manual Tuning (◀ / ▶)

Press and hold the ▶ or ◀ button on the front panel or on the remote control to enter manual tuning mode. In manual tuning mode, press the ▶ or ◀ button to move the radio frequency number up or down one step.

Auto Seek Tuning (◀ / ▶)

In standby mode or while not in manual tuning mode, quickly press the ▶ or ◀ button to move to the next/previous available station automatically.

To Store / Recall Preset Stations

The radio can be stored 6 preset stations for each band (FM1, FM2, FM3, AM1 and AM2) for a total of 30 preset stations.

To memorize a station:

- Turn the radio on and select the desired band and station.
- Select a station by ▶ or ◀ button.
- Press and hold the desired preset button (numbered 1-6 on the face of the radio) for more than 2 seconds to save the station to that preset number.

- To recall a preset station:

- Select the desired band.
- Briefly press a preset button (numbered 1-6) to recall the corresponding preset station.

Automatic Store station/ Preset station scan (AMS)

Press and hold the **AMS** button for more than 2 seconds to select six strong stations and store them in the current band. The radio will automatically scan the current frequency and enter the six strongest stations into the preset memory positions for that band.

Briefly press the **AMS** button on the remote control to recall each preset station that saved in the memories in each band.

LOCAL/DX

In urban areas, most stations are strong enough and "LOCAL ON" mode should be selected. Switch to LOCAL OFF mode to search for stations with weaker signals.

Press the **LOC** button on the remote control to choose local or distant reception mode.

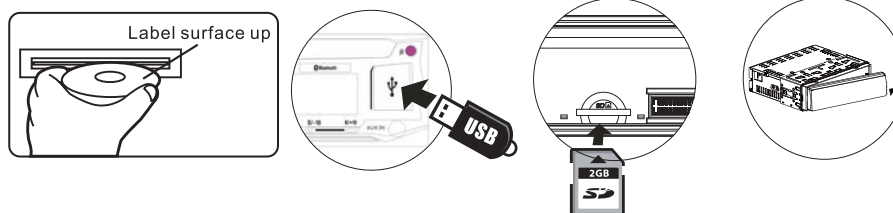
STEREO/MONO

FM station is received in stereo mode. However, if the signal is weak or reception is not as good as you would like, switching to MONO mode usually improves the overall sound quality. Press the **ST** button on the remote control to choose FM STEREO or MONO audio effect.

DISC / USB / SD CARD OPERATION

To insert DISC / USB / SD CARD

- To play files on a disc, insert a disc with the label surface facing upward into the disc slot. Playback will begin automatically.
- To play files on a USB device, open the USB port cover and insert the USB storage device into the USB port. Playback will begin automatically.
- Press the  button to remove the front panel, and insert the SD card into the SD slot on the chassis. Finally install the front panel to the chassis. Playback will begin automatically.



Eject Disc/USB/SD

- To eject a disc, press the  button to stop playback. Press the  (eject) button to eject the disc and then remove it.
- To eject a USB device, press the  button to stop playback, then remove the USB device.
- To eject an SD card, press the  button to stop playback, and press the release button to release and remove the front panel, then remove the SD card from the chassis.

Play/Pause

Press the  (play/pause) button to pause or resume playback.

Next/Previous Track

- To play the next track, press the  button.
- To play the previous track, press the  button.

Fast Forward/Backward

- To fast forward, press and hold the  button.
- To fast backward, press and hold the  button.

Introduction Scan

Press the INT button to play the first 10 seconds of each track, press again to stop the introduction scan, and play the current track.

Repeating the same track

Press the RPT button to repeat the current track, press again to stop repeat playback and resume normal playback.

Playing all tracks in random

Press the RDM button to play all tracks in random order, press again to cancel this function.

Track/Folder Navigation

- During a disc, USB or SD card mode, press the 5/-10 button to go backward 10 tracks. Press the 6/+10 button to jump forward 10 tracks.
- During a MP3 disc, USB or SD card mode, press and hold the 5/-10 button to go back the previous folder. Press and hold the 6/+10 button to go to the next folder. You can repeat this function depending on the number and level of folders.
- These buttons have no this function if the USB device or SD card has no folders.

DISC / USB / CARD OPERATION (CONT.)

Select the track or file for playback in MP3 format

Press the **AMS** button repeatedly to select one of the following 3 search modes:

- NUM SCH (Searching by track or file serial number)
- DIR SCH (Searching by folder serial number)
- FILE SCH (Searching by track or file name)

Searching by track or file serial number:

a) In playback of files with MP3 format, press the **AMS** button once to access the track or file number searching mode which allow you to quickly find a specific MP3 track or file by its serial number, and the "NUM SCH" and "NUM ***" will appear on the LCD display in sequence, and the first symbol "*" will blink.

b) Rotate the **VOL** knob to select the serial number of your favorite file with high speed.

c) Finally press the **SEL** button to confirm and play the selected file.

Searching by folder serial number:

The folder search mode allows you to quickly find an MP3 track or file under a specific group folder.

a) In playback of files with MP3 format, press the **AMS** button twice, the "DIR SCH" will be shown on the LCD display.

b) Rotate the **VOL** knob to select a desired folder. If there are no root Folder in the MP3 disc, USB or SD card, the LCD will display "ROOT")

c) Press the **SEL** button to play the first track or file of the selected folder.

Searching by track or file name:

This track or file name search function requires only the first few character as search keyword, it will allow you to quickly find an MP3 title by its name.

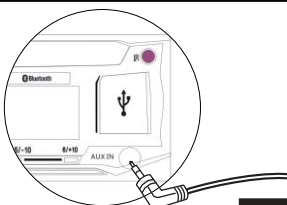
a) Press the **AMS** button three times, the "FILE SCH" and "*----" will be shown on the LCD display in sequence, and the first character "*" will blink.

b) Rotate the **VOL** knob to change the first character (*). The character will be changed from "A" to "Z", "0" to "9" and "_", "-", "+", "space". Press the **SEL** button to confirm the character entered and the next character will blink for setting. Press the **AMS** button to delete the incorrect character.

c) When mached files was found, press the **SEL** button to start play the searched file. If the file was not found, "NO FOUND" message will be visible on the display.

AUXILIARY INPUT OPERATION

This car radio has an external auxiliary input jack, it is compatible with audio output from an MP3 music player. So you can listen to sounds and music from external devices, if you have plugged such a player into the AUX IN jack with a audio cable. Press the **MODE** button to switch to the AUX input mode on or off.



BLUETOOTH OPERATION

Pair and Connect

Prior to using the Bluetooth device as a handsfree system for a Bluetooth-enabled mobile phone for the first time, you must pair and connect the two devices as follows:

1. In any mode, prior to pairing and connecting, the BT logo in the LCD indicating that no device is connected. To begin pairing, enable BT mode on your mobile phone.
2. When the phone the car audio system, the "Power Acoustik" name will be displayed.
3. Choose the "Power Acoustik" from the device list to pair and connect with the car audio system. Upon confirming, the BT logo will stop flashing.
4. When pairing is complete, the mobile phone audio will automatically transfer to the car audio system whenever a call is made or received, or when the mobile phone plays music.

Make a Call

- To make a call, dial the call directly from the paired mobile phone.
- To make a call with this bluetooth handsfree system:
 - a) When linking up the Bluetooth-enabled mobile phone to this bluetooth handsfree system, press the  button to access the dial telephone number mode, then press the "0~9", *, and # button on remote control to input the telephone number, and the entered number will be shown on the LCD display.
 - b) If a number has been incorrectly inputted, press the **DEL** button or  button to delete it.
 - c) Press the  button to make outgoing call.

Redial Last Dialed Number

Press and hold the  button on the control panel to redial the last dialed phone number.

Answer a Call

- When the mobile phone is called, the incoming telephone number displays on the LCD.
- To receive the call, press the  button on the control panel.

Reject a Call

To reject the call, press the  button on the control panel.

End a Call

To end an active call, press the  button.

Switch Audio Between Car Audio and Mobile Phone

During a call, press the **VOL** knob/button to switch the audio source from the car audio system back to your mobile phone.

Adjust Talk Volume

- During a call, use **VOL** knob or **VOL+**  / **VOL-**  button to adjust the volume level.
- Use the **MUTE** button to mute sound.

Audio Streaming (A2DP)

1. Press the  / **MODE** button to enter BT mode and display media in the LCD display.
2. When a mobile device is paired, music played through that device will automatically be heard through the car audio system.
3. Press the  or  button to play the next or previous on the mobile phone.
4. Press the  button to pause or resume music playback.

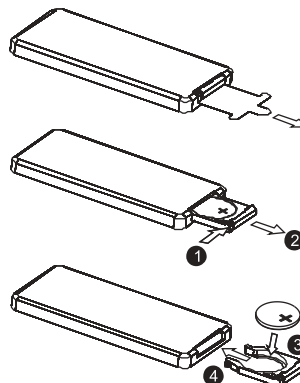
REMOTE CONTROL

Remove Insulating Sheet

The remote control comes with an insulating sheet attached to the underside of the remote control, as illustrated on the right. The remote control will not work until the insulating sheet is removed.

Replace Lithium Battery Cell

1. When the lithium cell battery becomes weak, replace it as illustrated on the right.
2. Press and hold the movable block in the direction indicated by arrow 1. At the same time, pull the cell holder out of the remote control in the direction indicated by arrow 2.
3. Replace the old cell with a new one, making sure the (+) polarity is facing upward.
4. Re-insert the cell holder into the remote control.



- Cell leakage may cause damage to the remote control.
- Do not throw cells into as this may cause an explosion.
- Keep battery cells out of reach of children.

Remote Control Operation

Position the emitting window of the remote control toward the sensor window of the unit.

- The operation angle for front panel remote control reception is about 30 degrees.
- The distance between the emitting window of the remote control and the sensor window of the unit should remain less 5 meters.

Button Names and Locations

1. ⏻ (Power on/off) button
2. VOL+/VOL- (volume increase/decrease) button
3. BAND button, 📞 (answer call) button
4. ⏮ Tune down, seek down; Track down, fast reverse
5. SEL (selection) button
6. ⏭ button: tune up, seek up; Track up, fast forward
7. MUTE button, DEL (Delete) button
8. MODE button, 📞 (end call) button
9. ⏪ button, preset station 1 button, keypad 1
10. INT (intro) button, preset station 2 button, keypad 2
11. RPT (repeat) button, preset station 3 button, keypad 3
12. RDM (random), preset station 4 button, keypad 4
13. -10 (previous 10 tracks), preset station 5 button, keypad 5
14. +10 (next 10 tracks), preset station 6 button, keypad 6
15. ST (stereo) button, keypad 7
16. LOUD (loudness) button, keypad 8
17. LOC (local)/DX button, keypad 9
18. CLK (clock setting) button, keypad *
19. EQ (Equalizer) button, keypad 0
20. AMS (automatic music search) button, keypad #



Note: When using the remote control for the first time, you must pull out the protective plastic tab from the battery compartment found on the back of the remote control.

SPECIFICATIONS

General

Chassis Dimensions.....178(W) x 160(D) x 50(H) mm
Power Supply RequirementDC 12V
Current Consumption10A (max.)
Maximum Power Output25W x 4CH

Radio

FM

USA/ Europe Frequency Range.....87.5 - 107.9 MHz (200KHz/Step)
87.5 - 108.0 MHz(50KHz/Step)

Usable Sensitivity30 dBu
I.F. Frequency10.7 MHz

AM

USA/ Europe Frequency Range.....530 - 1710KHz (10KHz/Step)
522 - 1620 KHz (9KHz/Step)

Usable Sensitivity20 dBu
I.F. Frequency450 KHz

USB/Card

Usable Audio FormatsMP3/WMA
Pre-amp OutputFront and Rear
Frequency Response20 Hz - 20 KHz
S/N Ratio60dB

BT

BT Profile supportsA2DP, AVRCP, HSP, HFP
Range of frequency2.4GHz spectrum

TROUBLESHOOTING

If you suspect something is wrong immediately switch power off. 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. Never try to repair the unit yourself because it is dangerous to do so.

■ General

No power or
no sound

Car's engine switch is not on. Turn your car's key to ACC or ON.
Cable is not correctly connected. Check connection.
Fuse is burnt. Replace fuse. Check volume or mute on/off.

■ Radio

A lot of static in
broadcast

Station or signal is too weak.
Select other stations of stronger signal level.

Preset station
is reset

Battery cable is not correctly connected.
Connect the battery cable to the terminal that is always live.

■ USB / SD

USB or SD card
is connecting but
No Sound

USB or SD card connection is not good.
Take it out and insert again.
USB or SD card is damaged or no music file inside.
Change to another USB or SD card, or record music inside it.

FCC Statement

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.

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