



Product Name	Display Audio
Model No.	AH1802
Brand or Trademark	Panasonic
Product Description	Display Audio in the car.

OWNER'S MANUAL

Display Audio



Notes

- If your smartphone does not support Bluetooth®, this system will not function.
- Depending on the smartphone models, some functions may be restricted.
- In the following conditions, the system may not function.
 - The smartphone is turned off.
 - The current position is outside the communication area.
 - The smartphone is not connected.
 - The smartphone has a low battery.
 - When outgoing is controlled, due to heavy traffic on telephone lines, etc.
 - When the smartphone itself cannot be used.
 - When transferring the phonebook data from the smartphone.
- Even if your smartphone supports both hands-free and audio Bluetooth® connections, it may not be able to connect to the hands-free connection at the same time.
- When using Bluetooth® audio and hands-free at the same time, the following problems may occur.
 - The Bluetooth® connection may be cut.
 - Noise may be heard on the Bluetooth® audio playback.
- The Bluetooth® phone battery will burn out quickly when it is connected to Bluetooth®.

- This system supports the following service.

- Bluetooth® Specification

Technology: Bluetooth® 4.2

- Profile

- HFP (Hands Free Profile) Ver. 1.6
- A2DP (Advanced Audio Distribution Profile) Ver. 1.3
- AVRCP (Audio/Video Remote Control Profile) Ver. 1.6
- GAP (Generic Access Profile) Ver. XX
- PBAP (Phone Book Access Profile) Ver. XX
- SPP (Serial Port Profile) Ver. XX



Notes

- The other party's voice outputs from the front speaker. When the received calls or received voice outputs, the audio from the audio system will be muted.
- Talk alternately with the other party on the phone. If you talk at the same time, your voices may not reach each other. (It is not a malfunction.)
- Keep the volume of receiving voice down. Otherwise, an echo will be heard and receiving voice can be heard outside of the vehicle. When you talk on the phone, speak clearly towards the microphone.
- In the following situations, your voice may not reach the other party.
 - Driving on an unpaved road. (Due to traffic noise.)
 - Driving at high speed.
 - A window is open.
 - The sound of the air-conditioning fan is loud.
 - There is an effect from the smartphone network.

1

About the Phonebook in the System

The following data is stored for every registered phone. When another phone is connecting, you cannot read the registered data.

- Phonebook data
- Call history data (Recent Call)



Note

When you delete the phone, the above mentioned data is also deleted.

2 When You Release Your Car

A lot of personal data is registered when you use the Hands-free system. When you release your car, initialize your data.

You can initialize the following data in the system.

- Phonebook data
- Call history data
- Bluetooth® phone data



Note

If you initialize it, the previous state will never come back again. Pay attention when initializing the data.

3 Phone Status Display



① Indicates the condition of the Bluetooth® connection.



Connect : Appear
No connect : Disappear

② Indicates the amount of battery charge left.



Empty



Full

- This is not displayed when the Bluetooth® phone is not connected.
- Depending on the type of Bluetooth® phone, remaining battery charge may not be displayed.
- The amount left may not always correspond to that of the Bluetooth® phone. This system does not have a charging function.

Indicates the receiving area.

- The receiving area may not be displayed depending on the phone you have.

③ Indicates the level of reception.



- The level of reception does not always correspond with the one of your smartphone.
- The level of reception may not be displayed depending on the phone you have.
- When you are out of the service area or in a place inaccessible by radio waves,  is displayed.



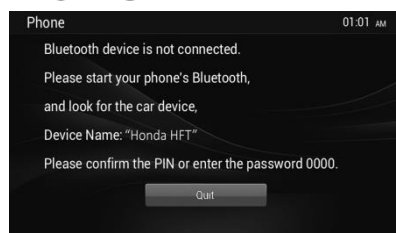
Notes

- An antenna for the Bluetooth® connection is built into the display.
- The condition of the Bluetooth® connection may not be good and the system may not function when you use the Bluetooth® phone in the following conditions.
 - Your Bluetooth® phone is hidden from the display (behind the seat or in the glove box or console box.)
 - Your Bluetooth® phone touches or is covered with metal materials.
- Leave the Bluetooth® phone in the place where the Bluetooth® sensitivity is good.

Connect a Bluetooth® Phone

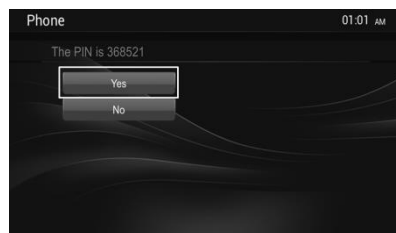
To use the Bluetooth® hands-free system, you need connect your phone into the system. Once you have connected it, you can make hands-free calls. If you have not yet connected any Bluetooth® phones, you must first register it according to the following procedure.

- Please see "Bluetooth® Settings" (⇒ Page 46) of additional registration when registering.



- (1) Touch **Phone** on the Home screen.

- (2) When this screen is displayed, perform a device discovery from your Bluetooth® phone.



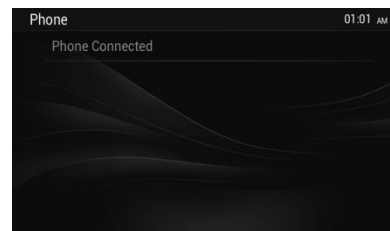
- (3) Confirm the passcode displayed on the screen into the phone.

- Touch **Yes** to continue.

- Pairing method differs depending on the Bluetooth® version of the device.
 - For devices with Bluetooth® 2.1: You can pair the device and the Head Unit using SSP (Secure Simple Pairing) which only requires confirmation.
 - For devices with Bluetooth® 2.0: You need to enter a PIN code both on the device and Head Unit for pairing.

- If you want to cancel it, touch **No**.

- If the Bluetooth® phone to be registered has a Bluetooth® audio function, this can be registered at the same time.



- (4) When the connection is completed, this screen is displayed.

- If the Bluetooth® is disconnected on purpose such as you turned your Bluetooth® phone off, this does not happen. Reconnect the Bluetooth® phone manually.

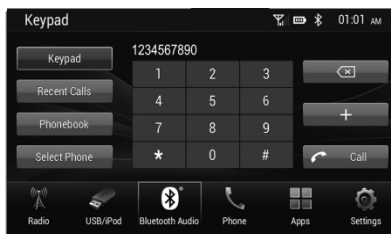


Note

For details on device discovery for your Bluetooth® phone, refer to the Bluetooth® phone's user's guide.

1 Selecting Bluetooth® Phone

If you have registered some Bluetooth® devices, you can change the device connected and add a new device.



(1) Touch **Select Phone**.



(2) Touch the Bluetooth® devices name to connect.

- The selection indicator is displayed on left side of the selected device name.
- The Bluetooth® mark is displayed when you connected the device.



Note

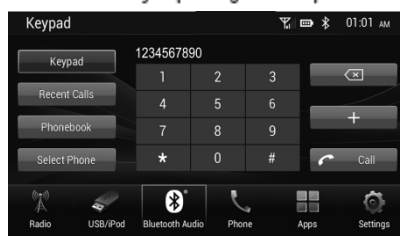
When you connect the phone while Bluetooth® audio is playing, the Bluetooth® audio will stop temporarily. It may take time, the phone connection is carried out during Bluetooth® audio play. The audio may be skipped.

Call on the Bluetooth® Phone

After you register the Bluetooth® phone, you can call by using Bluetooth® hands-free system.

1 By Dial

You can call by inputting the telephone number.



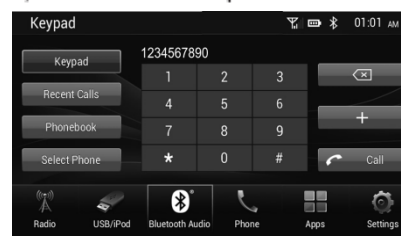
- (1) Enter a telephone number by touching number keys (0 - 9, *, #, +).

● Each time you touch , an inputted digit is deleted.

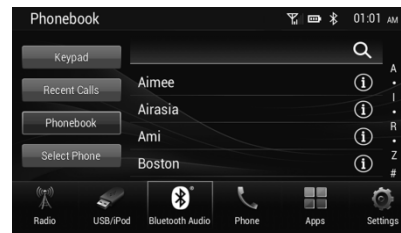
- (2) Touch  .

2 By Phonebook (Contacts)

You can make a call using the phonebook data which is transferred from your smartphone. The system has one phonebook for each phone. You can register up to 1,000 contacts in each phonebook.

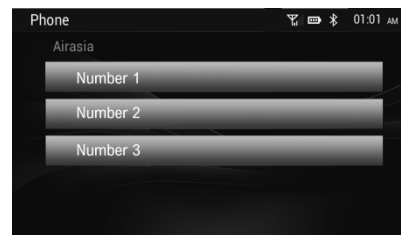


- (1) Touch **Phonebook**.



- (2) Touch the desired data from the list.

● Touch on Phonebook name to make a Phone call.

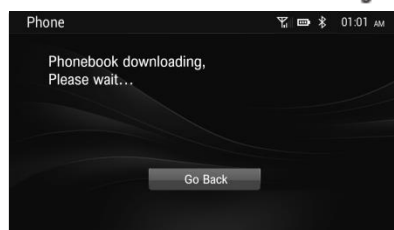


● Or Touch  to show Phone number list, and touch the desired Phone number to make a Phone call.

● When the Phonebook is empty



● When the Phonebook is loading



Note

When the number of one name is more than one, the maximum number of the phone numbers can be displayed on is 3.

(1) Touch **Phonebook**.

- If your phone does not support either PBAP or OPP service, you cannot transfer contacts.

(1) Waiting a few seconds and touch the **Phonebook** again.

OR

Touch **Go Back** to return.

3 Recent Calls

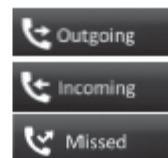


(1) Touch **Recent Calls**.



(2) Touch the desired number to call.

You can make a call using the recent calls which has 3 functions below.
(Displayed the last 4 entry of each function.)



Outgoing : Calls that you made

Incoming : Calls that you received

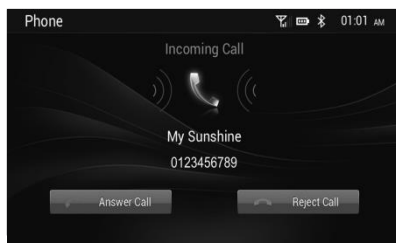
Missed : Calls that you missed

**Note**

- When you call using the phonebook, the name (if registered) is displayed.
- When a telephone number registered in the phonebook is received, the name and the number are displayed.
- Number-withheld calls are also memorized in the system.
- A international phone call may not be made depending on the smartphone which you have.

Receive on the Bluetooth® Phone

When a call is incoming call, this screen is displayed with a sound.



To answer the Phone:

Touch  Answer Call.

To refuse to receive the call:

Touch  Reject Call.

To adjust the volume of received call:

Touch “-” or “+” button.

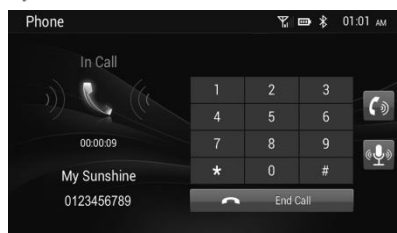


Notes

- On the international phone call, the other party's name may not be displayed correctly depending on the smartphone which you have.
- If video from a mobile phone was being displayed, the display may remain the same.

Talk on the Bluetooth® Phone

While you are talking on the phone, this screen is displayed. You can do the operation below on the screen.



To hang up the phone:

Touch  End Call.

To mute your voice:

Touch .

To input a Key:

Touch .

To transfer the call:

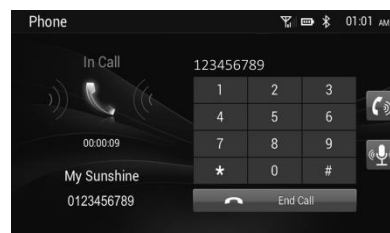
Touch  for Handsfree Mode
or  for Handset Mode.



Notes

- When you change from smartphone call to Hands-free call, the Hands-free screen will be displayed and you can operate it on the screen.
- If video from a mobile phone was being displayed, the display may remain the same.

● When you touch "0-9"



- (1) Enter a number by touching the number keys.

To hang up the phone:

Touch  End Call.

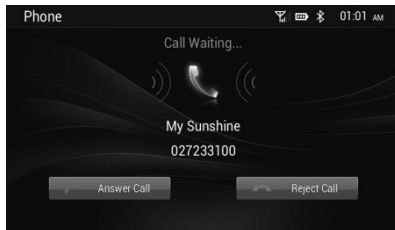


Notes

- The continuous tone signal is the marked sign (p or w) and the number following phone number. (ex. 056133w0123p#1*)
- You can do this operation when you want to operate an answering machine or use a telephone service in bank for example. You can register the phone number and the code number in the phonebook.

1 Interrupt Call

When the call is interrupted by the third party while talking, this screen is displayed.

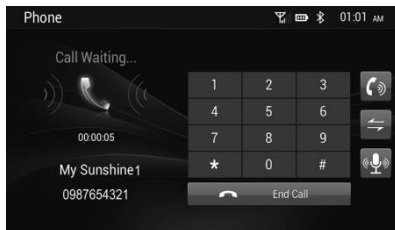


To answer the Phone:

Touch  **Answer Call**

To refuse to receive the call:

Touch  **Reject Call**



- Everytime you touch  while interrupt call, the other party will be switched.



Notes

- Interrupt call operation may differ depending on your phone company and smartphone.
- Interrupt call is unavailable depending on the contract detail with the phone company.

Using the Steering Wheel Controls

You can control the basic audio features through the buttons on the steering wheel.

●Function of buttons

- SOURCE Button
- (Volume) Button
- (Channel) Button
- (HFT) Button <Optional>

1 SOURCE (Mode) Button

Changes the audio source mode.

- Press the SOURCE button.

Changes the audio source mode;

FM1 → FM2 → AM → (USB/iPod※1) → BT Audio(※1) → AUX → (back to) FM1.

※1 This mode will shown only when an equipment is connected.

2 (Volume) Button

Adjust the volume.

- Press the (volume) button to increase the volume.
- Press the (volume) button to decrease the volume.

3 (Channel) Button

Radio (AM, FM1, FM2)

- Press the (Channel) button to change to the next preset station (channel).
- Press the (Channel) button to change to the previous preset station (channel).
- Press and hold for one seconds to scan for a station with strong signal.

All Source mode can available.

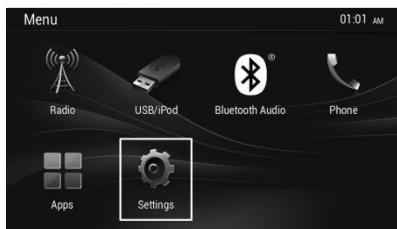
- Press the (Channel) button to skip to the next track, file, etc.
- Press the (Channel) button to skip to the beginning of current track, file, etc. Press the (Channel) button again to go to the beginning of the previous track, file, etc.
- Press and hold to skip forward/backward to the first track of the next folder or album.

4 OFF HOOK ON HOOK (HFT) Button <Optional>

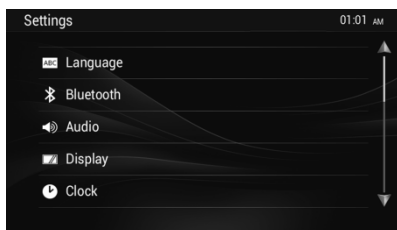
Hands Free Telephone (HFT) function <Optional support for some vehicle >
During the Handsfree Incoming call :

- Press the (OFF HOOK) button to answer call.
- Press the (ON HOOK) button to reject call.
During the Handsfree talking:
- Press the (ON HOOK) button to end calling.

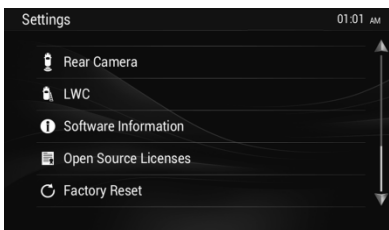
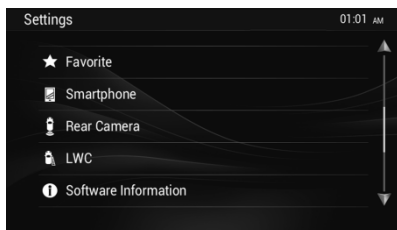
Settings



- (1) On the Menu screen
(⇒Page 7) touch **Settings**.



- (2) Touch the switch for the item to set.



Settings items

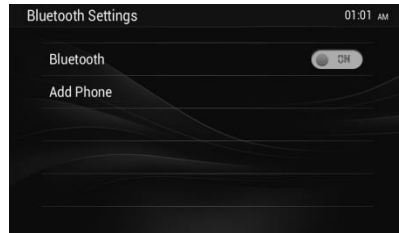
Bluetooth	Bluetooth Settings (⇒Page 46)
Audio	Audio Settings (⇒Page 51)
Display	Display Settings (⇒Page 51)
Clock	Clock Settings (⇒Page 52)
Favourite	Favourite Settings (⇒Page 53)
Language	Language Settings (⇒Page 54)
Software Information	Software Information (⇒Page 55)
Open Source License	Open Source License information (⇒Page 55)
Factory Reset	Factory Settings (⇒Page 56)

Bluetooth® Settings

● Screen for Bluetooth® Settings

You can confirm and change the Bluetooth® settings.

● When there is no any device pairing



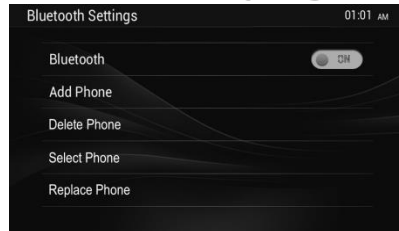
(1) Touch the items to be set.

- Please refer the right table for each setting.

Switch	Switch Name	Function
	Bluetooth (ON/OFF)	To turn ON/OFF the Bluetooth.
Add Phone	Add Phone	For pairing the phone device.
Delete Phone	Delete Phone	For deleting the phone device.
Select Phone	Select Phone	For selecting/changing the phone device.
Replace Phone	Replace Phone	For replacing the phone device.
	Phonebook Download	To turn ON/OFF the Phonebook Download.

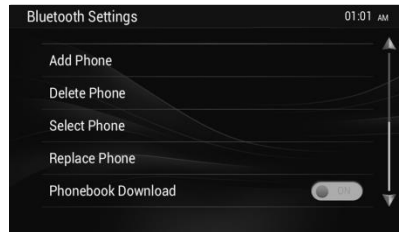
- Some switches cannot be select during the driving.
Please stop driving and turn the parking brake to ON.

● When the device is pairing

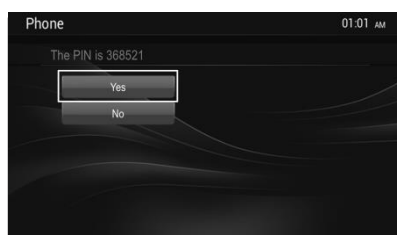
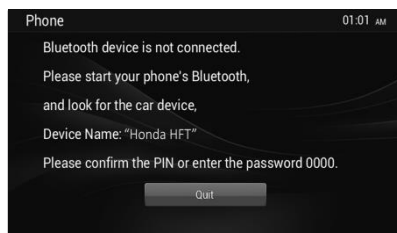
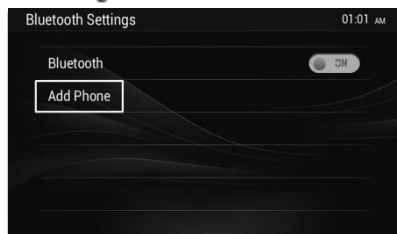


(1) Touch the items to be set.

- Please refer the right table for each setting.
- Touch switch to scroll down to the bottom screen.
- Touch switch to scroll up to the bottom screen.



● Adding a New Device



(1) Touch **Add Phone** to register your Bluetooth® device to the system.

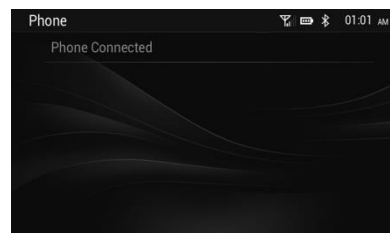
(2) When this screen is displayed, perform a device discovery from your Bluetooth® device.

(3) Input the passcode displayed on the screen into your Bluetooth® device. Touch **Yes** to continue.

- A passcode is not required for SSP (Secure Simple Pairing) compatible Bluetooth® phones. Depending on the type of Bluetooth® phone being connected, a message confirming registration may be displayed on the Bluetooth® phone's screen. Respond and operate the Bluetooth® phone according to the confirmation message.

- If you want to cancel it, touch **No**.

- If the Bluetooth® phone to be registered has a Bluetooth® audio function, this can be registered at the same time.



(4) When the connection is completed, this screen is displayed.

- Once you have registered it, the system automatically connects to your Bluetooth® device every time you start your vehicle.

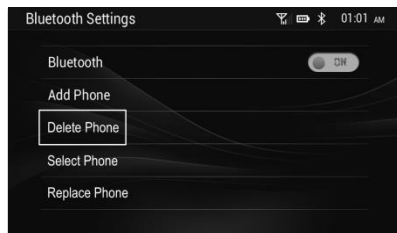


Notes

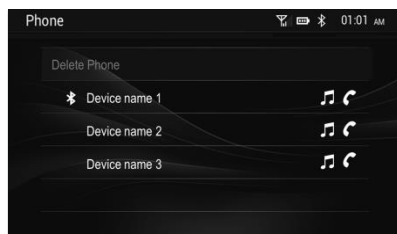
- For details on device discovery for your Bluetooth® phone, refer to the Bluetooth® phone's user's guide.
- When you register your phone, Bluetooth® audio will disconnect.
- If the Bluetooth® device has Bluetooth® phone and Bluetooth® audio functions, it will register phone and audio simultaneously. If an on-screen message appears, follow the message and register either or both Bluetooth® phone and/or Bluetooth® audio functions.
- Pairing method differs depending on the Bluetooth® version of the device.
 - For devices with Bluetooth® 2.1: You can pair the device and the Head Unit using SSP (Secure Simple Pairing) which only requires confirmation.
 - For devices with Bluetooth® 2.0: You need to enter a PIN code both on the device and Head Unit for pairing.

● Removing a Bluetooth® Device

You can delete a paired Bluetooth® device



- (1) Touch **Delete Phone** to display a device list.



- (2) Select the device to remove.

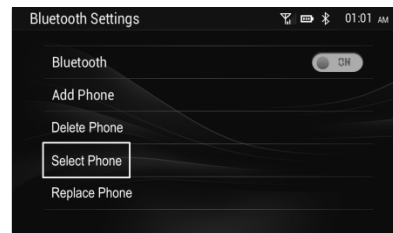


Note

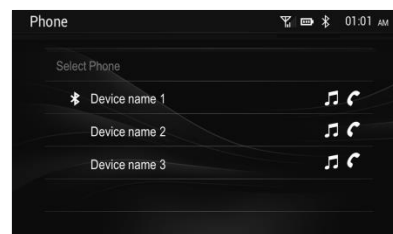
When you delete a Bluetooth® phone, the phonebook data will be deleted at the same time.

● Selecting a Bluetooth® Device

You can select a paired Bluetooth® device.



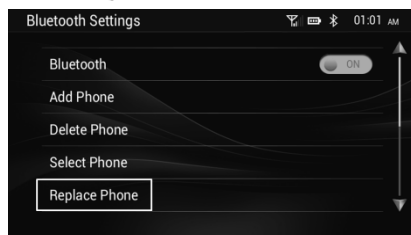
- (1) Touch **Select Phone** to display a device list.



- (2) Select the device to be selected.

● Replacing a Bluetooth® Device

You can replace a new Bluetooth® device with a paired one.

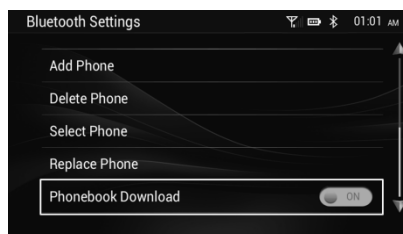


- (1) Touch **Replace Phone** to display a device list.



- (2) Select the device to be replaced.

● Phonebook Download



- Phonebook Download will not show when no device connected.

Phonebook Download

- ON (Default): Activated the Phonebook Download.
- OFF: Deactivated the Phonebook Download



Notes

When Phonebook Download : ON

- Phonebook data could be transmitted automatically when the phone is connected.
- Phonebook of connected phone will be displayed. Download be will start after permitted on the phone.

When Phonebook Download : OFF

- Phonebook data not could be transmitted automatically when the phone is connected.

Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

- For operations with the external components, refer also to the instructions supplied with the adapters used for the connections (as well as the instructions supplied with the external components).

Condition	Checking Items
General	
No sound comes out of the speakers.	⇒ Adjust the volume to the optimum level. ⇒ Check the cords and connections.
USB	
"Reading" does not disappear from the screen.	⇒ Turn the power off and on again.
While playing a track, sound is sometimes interrupted.	⇒ The tracks are not properly copied into the USB device. Copy the tracks again, and try again.
Tracks are not played back as you have intended them to play.	⇒ Playback order may differ from the one played back using other players.
iPod/iPhone	
No sound comes out of the speakers.	⇒ Disconnect the iPod/iPhone, then connect it again. ⇒ Select another source, then reselect "iPod".
The iPod/iPhone does not turn on or does not work.	⇒ Check the connection. ⇒ Update the firmware version. ⇒ Charge the battery. ⇒ Reset the iPod/iPhone.
Sound is distorted.	⇒ Deactivate the equalizer either on this unit or the iPod/iPhone.
A lot of noise is generated.	⇒ Turn off (uncheck) "Voice Over" on the iPod/iPhone. ⇒ For details, visit < http://www.apple.com >.
No operations are available when playing back a track containing artwork.	⇒ Operate the unit after the artwork has loaded.

Condition	Checking Items
Miracast	
The mirrored screen is unstable.	⇒ Check whether there are any obstructions between the unit and the Android device. ⇒ Shorten the distance between the unit and the Android device.
The connection between the Android device and unit is interrupted during playback.	⇒ An energy saving function is working on the connected Android device. Deactivate the energy saving function.
The unit cannot be found on the Wi-Fi list.	⇒ Shorten the distance between the adapter and the device.
WebLink	
The WebLink does not turn on or does not work.	⇒ Minimum 3G network is recommended ⇒ Check the connection. ⇒ Update the firmware version. ⇒ Charge the battery. ⇒ Reset the Smartphone
When connecting WebLink for the 1st time, it may take long time depending on phone and network.	⇒ Please retry USB connection or restart App.
Some Use Cases for Zomato: ● When pressing call to a searched restaurant, call number will be displayed on the phone and operation will be controlled by phone. ● When it notified to launch Navi app, only Waze map can be seen in Head Unit.	
Radio	
Radio Reception is not clear	The antenna should be adjusted for best reception.

Condition	Checking Items
AV-Out	
No picture appears on the screen.	⇒ Turn on the video component if it is not on. ⇒ Connect the video component correctly.
Signal Standard	⇒ Peripherals using only NTSC input can work with the Head Unit.
AUX	
No sound comes out.	⇒ Turn on the audio component if it is not on. ⇒ Connect the audio component correctly.
Bluetooth®	
Phone sound quality is poor.	⇒ Reduce the distance between the unit and the Bluetooth® mobile phone. ⇒ Move the car to a place where you can get a better signal reception.
The sound is interrupted or skipped while using a Bluetooth® audio player.	⇒ Reduce the distance between the unit and the Bluetooth® audio player. ⇒ Disconnect the device connected for Bluetooth® phone. ⇒ Turn off, then turn on the unit. (When the sound is not yet restored) connect the player again.
The connected audio player cannot be controlled.	⇒ Check whether the connected audio player supports ⇒ AVRCP (Audio/Video Remote Control Profile).

Condition	Checking Items
Bluetooth®	
The Bluetooth® device does not detect the unit.	⇒ Search from the Bluetooth® device again.
The unit does not pair with the Bluetooth® device.	⇒ For devices compatible with Bluetooth® 2.1: Register the device using a PIN code. (⇒ Page 47) ⇒ For devices compatible with Bluetooth® 2.0: Enter the same PIN code for both the unit and target device. ⇒ Turn off, then turn on the Bluetooth® device.
The unit does not respond when you try to copy the phone book to the unit.	⇒ You may have tried to copy the same entries (as stored) to the unit.

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- Microsoft and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

Law and Regulation

FCC CAUTION

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

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines as this equipment has very low levels of RF energy.

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.

Statement of Compliance with RE Directive (2014/53/EU)

This vehicle's car audio conforms to the basic requirement of the RE Directive (2014/53/EU) and related regulations.

- Manufacturer name and address
Panasonic Automotive Systems Asia Pacific Co.,Ltd
101 Moo 2 Teparak Rd, T. Bangsaothong, A. Bangsaothong, Samutprakarn 10570 Thailand
- Transmit frequency 2402 – 2480 MHz
- Maximum radio frequency 4 dBm
- Importer name and address

Importer	Importer address
PANASONIC INDUSTRIAL DEVICES SALES (M) SDN BHD.	PANASONIC INDUSTRIAL DEVICES SALES (M) SDN BHD., 15TH FLOOR,MENARA IGB, MID VALLEY CITY,LINGKARAN SYED, PUTRA 59200 KUALA LUMPUR, MALAYSIA
PANASONIC INDIA PVT LTD	Panasonic India Pvt. Ltd. Khasra No.673, N.H.-08 (Delhi-Jaipur Highway) Mother Warehouse (Gurgaon) 122001, Haryana, India
PANASONIC INDUSTRIAL SINGAPORE,A DIVISION OF PANASONIC INDUSTRIAL ASIA PTE.LTD	HAGEMEYER INDIA LTD., 2,INDUSTRIAL AREA,KALKAJI, NEW DELHI,INDIA

This product is in compliance with RE Directive (2014/53/EU). The full text of the EU declaration of conformity is available at the following website.

URL: <http://www.ptc.panasonic.eu/filedepot>