MATRIX

User Operation Manual

IN CAR MULTI-MEDAPLAYER
WITH LCD TOUCH SCREEN DISPLAY
BLUETOOTH,RADIO & MOBILE PHONE-LINKING

1. Wiring

## Frequency Range:

FM:87.5-107.9 MHz   AM:530-1710KHz

CLASS 1 LASER PRODUCT

WARNING
POWER SOURCE: DC 12V
POWER CONSUMPTION: 40Wx4

1. Black**:** Ground (B-)
2. Red**:** Ignition Switch (ACC)
3. Pink**:** Back Sight (B+)
4. Green**:** Valid at slow speed of 12V
5. Dark Gray**:** Front Right Speaker (FR-)
6. Dark**:** Front Right Speaker (FR+)
7. White Black**:** Front Left Speaker (Fl-)
8. White **:** Front Left Speaker (FL+)
9. Battery positive (Battery+)
10. Orange**:** Headlamp Detection
    (Connect to on off control of car headlamp)
11. Grey**:**Fast 12V active/voltage detection
12. Blue**:** Camera power supply
13. Green/Black**:** Rear Left Speaker (RL-)
14. Green**:** Rear Left Speaker (RL+)
15. Purple: Rear Right Speaker（ RR+）
16. Purple/Black**:** Rear Right Speaker (RR-)
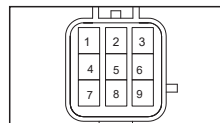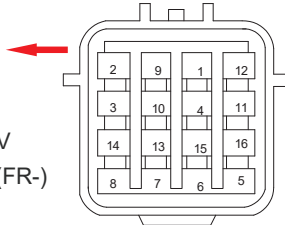
1. Passing beam
2. Driving beam
3. Turn left
4. Turn right
5. CANH
6. CANL
7. Pulse signal
8. Brake signal
9. Parking handbrake
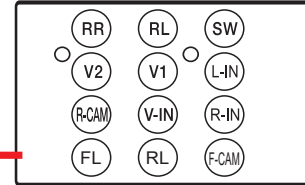
RL:	(White)	Rear left speaker output
RR:	(Red)	Rear right speaker output
SW:	(Green)	Sub-woofer output
V1:	(Yellow)	Video output
V2:	(Yellow)	Video output
L-IN:	(White)	Auxiliary left speaker input
R-CAM:	(Yellow)	Back sight camera input
V-IN:	(Yellow)	Video input
R-IN:	(Red)	Auxiliary right speaker input
FR:	(Red)	Front right speaker output
FL:	(White)	Front left speaker output
F-CAM:	(Yellow)	Front camera input
ANT:	(MIC)	Radio Antenna
MIC:	(ANT)	External MIC jack

2. Key Description

2.1. Prower

When the ignition switch is in the ACC ON position,press the switch panel on the t ouchscreen 【 ⏻ 】 key to boot.

2.2. Off

After the host starts,press the switch on the side of the touch screen 【 ⏻ 】 button for 2 seconds,the host will perform the shutdown

Attention: When there is noise, please briefly press the power button 【 ⏻ 】 to enter the mute mode.

Attention: When switching to other functions, the radio can be immediately turned off and the noise disappears.

2.3. Main interface

In the boot mode,the system defaults to enter the radio interface ,touch 【 ⌂ 】 home to enter the main interface:

2.4.Microphone 【 🎤 】

When linking to the Carplay function, you can click this button 【 🎤 】 for voice control, similar to the voice assistant on an Apple phone.

2.5.Volume control keys 【 🔊+ 】 【 🔊− 】

When the volume is too low, you can click 【 🔊+ 】 to increase the volume.

When the volume is too high, you can click 【 🔊− 】 to reduce the volume.

3.MAIN MENU

The Mode icon in gray means the corresponding function is not ready or proper device have not been connected.
Touch the corresponding Mode icon to enter playing mode.

Main Menu

With Apple CarPlay

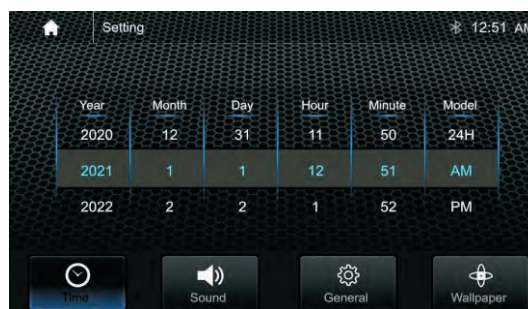With Android Auto

⚙️ Setup, to enter the Settings Menu.

🖥️ Turn off TFT display.
TFT enter black mode touch any zone return to TFT on.

4.Settings

Touch the ⚙️ icon to enter the Setup menu.
The Setup menu is included Time Settings, Audio Setting s, General Settings, Wallpaper Settings.

Time Settings
The Time Settings allow the user to set Date & Time.

Audio Settings
Below shown is the Audio Setting Menu.
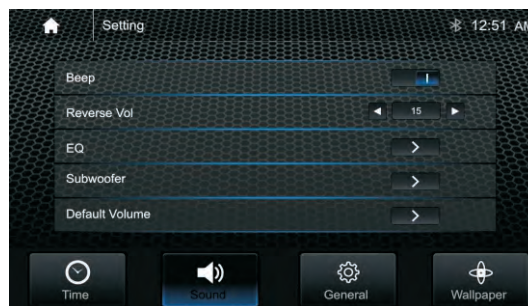
Beep: set the Beep tone is ON or OFF.
Reverse Vol: adjust the Vol value is 0-30.

EQ Settings
Balance/Fader:
Loudness: set the Loudness is ON or OFF.
Touch the "◄" or "►" of Balance /Fader to tune for the driver and passenger preference.
The value of Balance (Left12-Right 12) and Fader (Front 12- Rear 12).
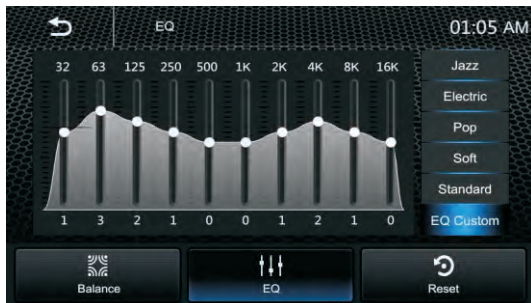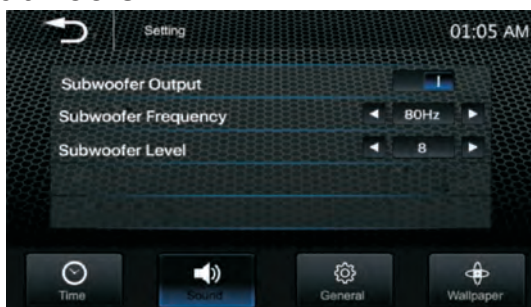Touch Reset to set both Balance and Fader to 0.

4.Settings

10-Band Equalizer:

10 band of EQ tuning, slide the EQ bar to tune each band frequency level according to user preference.
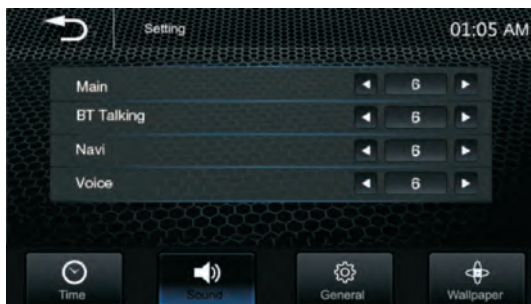Touch Reset to set all Band to .

Subwoofer:

Subwoofer Output: On/Off.
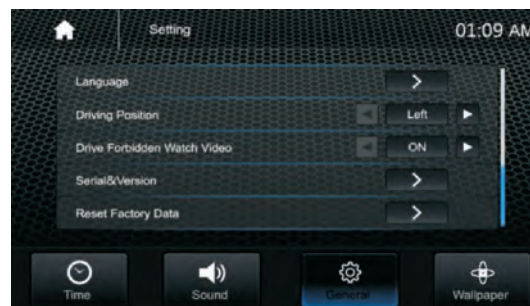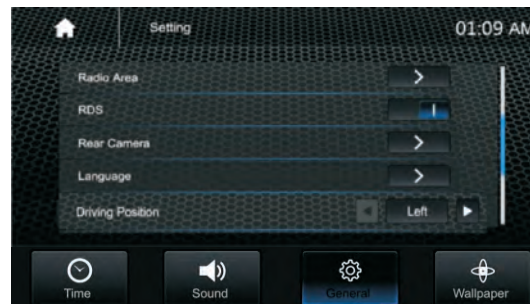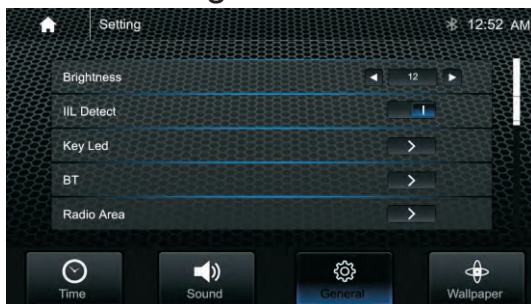Subwoofer Frequency: 50Hz/80Hz/120Hz /160Hz
Subwoofer Level: -10~+10

Volume Control:

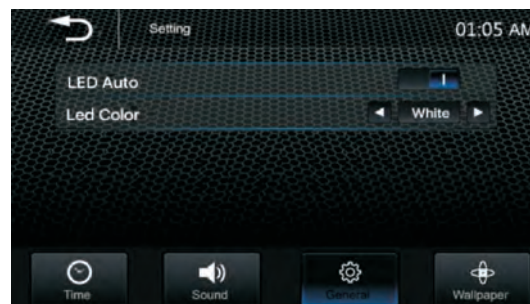Set the Main / BT Talking /Navi /Voice default volume value.

General settings:

Brightness: Adjust the screen's brightness from 0-15.
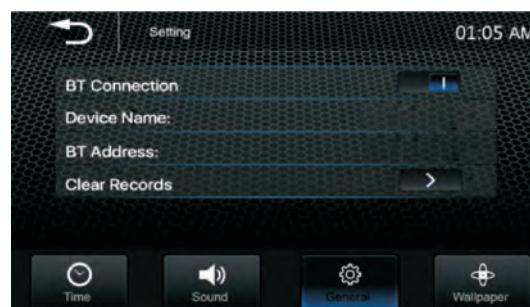Illumination Detect: On / Off.

Key Led:

LED Auto: On/Off.
ON: the Led color will change automatically.
OFF: select required LED light color:
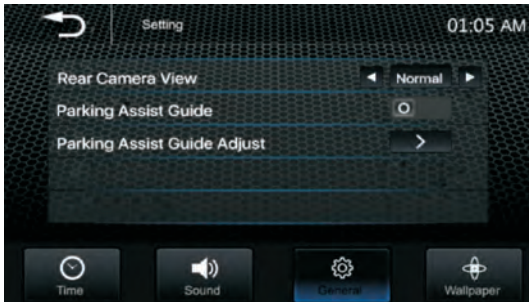 White / Red/ Yellow /Blue/Green/Purple /Light Green.

BT:

4.Settings

Radio Area:

Select the region: America/ Europe/ Eastern Europe/ Japan / Southeast Asia /Latin America / Asia / Australia.

RDS: On/Off.

Rear Camera:

Rear Camera View: Normal/Reverse
Parking Assist Guide: On/Off
Parking Assist Guide Adjustment
Touch ">to enter Parking Assist Guide Adjustment interface to show the below screen:

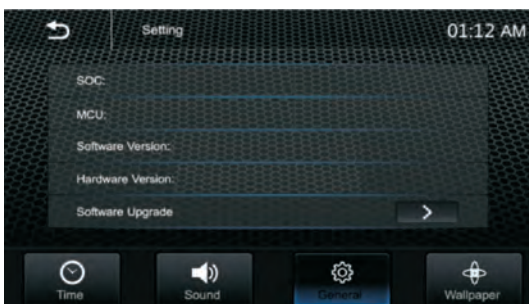Select the adjust position and Touch
< / > / ∧ / ∨   to adjust.
Touch Reset to resume the default Parking Assist Line.

Language: Select the desired language.

Driving Position : select the driver
position is Left or Right.

Drive Forbidden Watch Video:
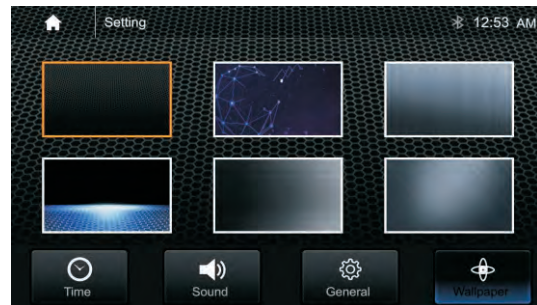On /Off.

Serial & Version:

5.CarPlay & Android Auto

Reset Factory Data: Once selected, the unit will prompt to confirm reset to factory settings. Once confirmed the system will automatically reboot.

Wallpaper:
User can select the preset wallpaper for prefer background.

8.1 Apple Carplay

Plug the iPhone (iPhone 5 or latter models, and IOS 7.1 or above) through the lightening cable to the USB port of the source unit. The iPhone will be shown the "CarPlay". The source unit will enter the CarPlay interface, the APP that support the CarPlay feature will be displayed on the source unit as shown below. Touch the corresponding

APP can operate, touch [▢] button to go back the CarPlay interface.

5.CarPlay & Android Auto

6.Radio mode
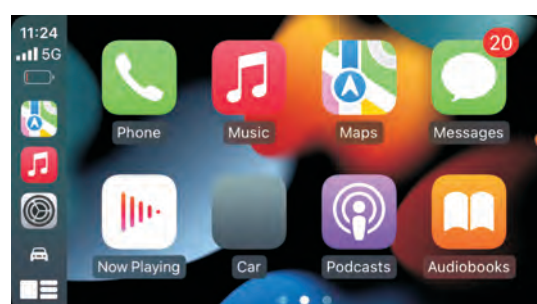
Siri

In Carplay mode, user can talk to Siri to control the CarPlay functions. Press 🎤 to start the Siri function, or touch the ⬛ button for 2 seconds or the HOME button of iPhone. Now you can talk to Siri for playing music, I am going....

Note: For Siri function in the source unit, the Micriphone has to be connected.

8.2 Android   Auto Operations

Android Auto enables you to use functions of your Androd device convenient for driving. You can easily access route guidance, make calls, listen to music, etc. For details about Android Auto, visit

https://www.android.com/auto

or

https://support.google.com/androidauto.,

Compatible Android devices

You can use Android Auto with Android devices of Android version 5.0 or later.

Note: Android Auto may not be available on all devices and is not available in all countries or regions.

Operation s:

1. Connect an Android device via USB terminal. To use the hands-free function, connect the Android device via Bluetooth. When an Android device compatible with Android Auto is connected to USB terminal, the device is connected iva Bluetooth automatically, and the Bluetooth smartphon currently conected is disconnected.

2. Unlock your Android device

3. To enter Android Auto mode, touch Android Auto icon in the head unit screen. You can perform the operations of the Apps of the connected Android device.
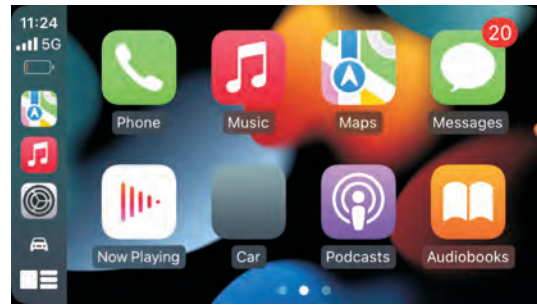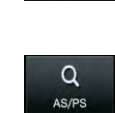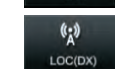
Radio mode

Touch the Radio mode icon to enter Radio.

| Icon	Description
FM1	Touch FM1 to select FM1 Band.
AM1	Touch AM1 to select AM1 Band.
BAND	Touch to select Band, FM1>FM2 >FM3>AM1>AM2
AS/PS	Short touch to prescan searching, each scanned station will be played 10s. Long touch for auto searching.
EQ	Touch to enter EQ settings.
LOC(DX)	Touch to switch LOCAL or DX.
GOTO	Touch to input tune directly.
◀◀	Short touch to Seek-, long touch for Step-
▶▶	Short touch to Seek+, long touch for Step+
87.50MHz	Preset station,6 preset store and recall station for each band.

Store a Station
1. Tune radio to desired station.
2. Touch and hold the one of the preset station for more than 3 seconds, then the preset button will be highlighted on the screen,and the preset station will be stored.

USB

Plug the USB , the USB icon will be colorful. Touch the USB icon to enter the USB playback mode. The source unit default the play the Audio in the USB device.
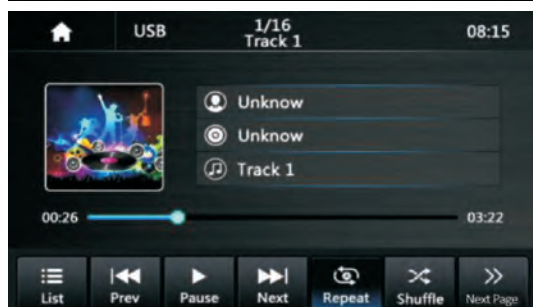
List	Press to list Audio , Video, Picture files in USB.
Prev	Short press to skip previous track, Long press to fast reverse.
Pause	Play or pause button.
Next	Short press to skip next track, Long press to fast forward.
Repeat	Press to select Repeat All > Repeat 1> Repeat Directory.
Shuffle	Press to switch Random is On or Off.
EQ	Press to select Audio setting or set the prefer EQ of each band in custom mode.
Goto	Touch to handle goto page for input the track number directly.

File List browsing

Touch [List] to browse the folder and file list of the USB device.
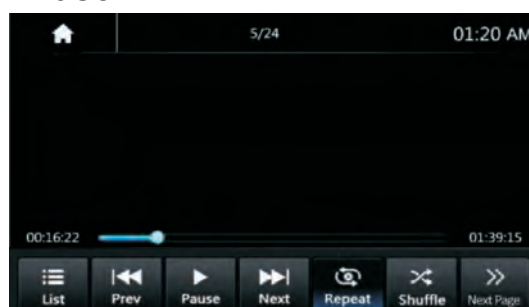You can select the multi-media type.

|	
▶	Return to playing previous file.
♪	Select Audio or Music files.
✷	Select Movie or Video files.
🖼	Select Picture files.

Video

List	Press to list Audio , Video, Picture files in USB.
Prev	Short press to skip previous track, Long press to fast reverse.
Pause	Play or pause button.
Next	Short press to skip next track, Long press to fast forward.
Shuffle	Press to switch Random is On or Off.
Repeat	Press to select Repeat All > Repeat 1> Repeat Directory.
Next Page	Touch to select the second page of the keypad.

8.Bluetooth Audio

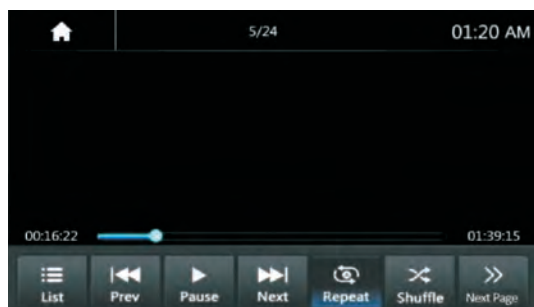**EQ** — Press to select Audio setting or set the prefer EQ of each band in custom mode.

Goto — Touch to handle goto page for input the track number directly.

Prev Page — Touch to select the first page of the keypad.

Picture

Zoom Out — Press to Zoom Out the picture.
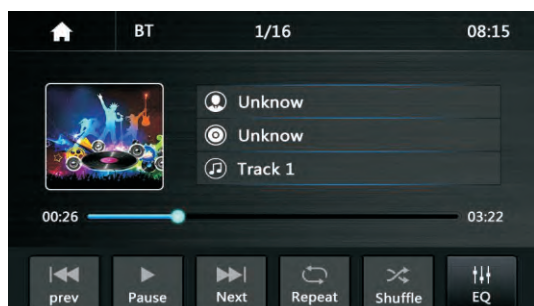
Zoom In — Press to Zoom In the picture.

Bluetooth Audio

Touch the BT Audio icon to enter Bluetooth Audio playing mode. If the Bluetooth is connected, the music will be playing as following shown;

Bluetooth Audio Playback

prev — Press to skip previous track

Pause — Play or pause button.

Next — Press to skip next track.

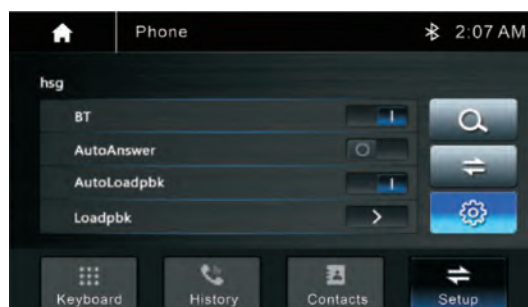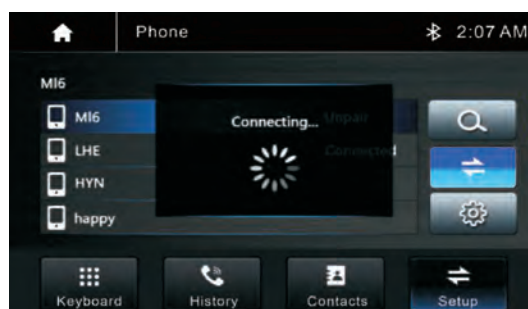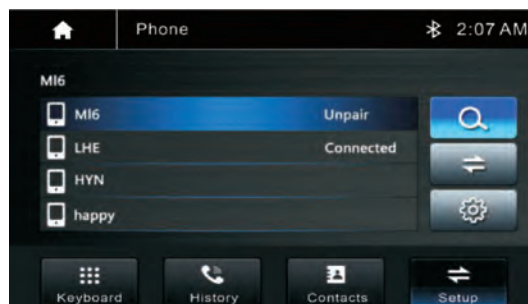**Shuffle** — Press to switch Random is On or Off.

Repeat — Press to select Repeat All > Repeat 1> Repeat Directory.

EQ — Press to select Audio setting or set the prefer EQ of each band in custom mode.
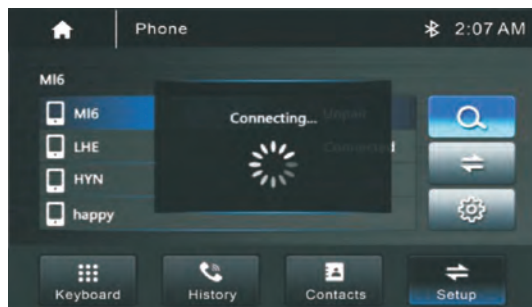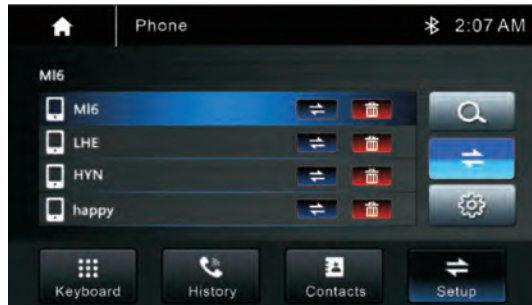
Bluetooth   Connect

If the Bluetooth is not connected, press Re-connect the paired phone or paring to pair the new device.

8.Bluetooth Phone

Bluetooth Pairing

Pairing mode screen will be shown as below:

Turn On the Bluetooth of the mobile phone
or Bluetotth device, you can see the
CAR-KIT, select the CAR-KIT
for pairing and connection.

Bluetooth Phone

Touch the Phone icon in main menu to go to
Phone mode. After the mobile phone is
connected with the source unit via Bluetooth
(HFP), user can through the source unit to
make a phone call. Please note it needs to
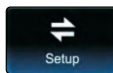connect the microphone for phone call.
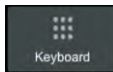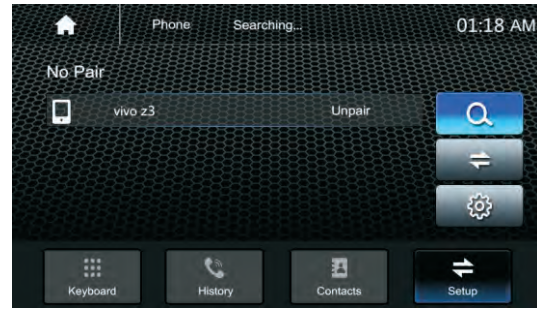
Dial Pad. tap it to enter call mode.

Call logs, to show the call record,
missed, received and dialed calls
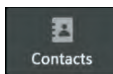
Contact, tap to show the phone-
book connected phone.

Show the usable devices.

BT Setup, tap to set auto answer
and load phonebook.

Search the available devices.

Manage the connected device.

Make a Call

1. Touch the [Keyboard] icon to enter below screen.
2. Using the keypad, touch 0-9,*,#, enter the
phone number you wish to dial. If you input

an incorrect number, touch the [icon] icon
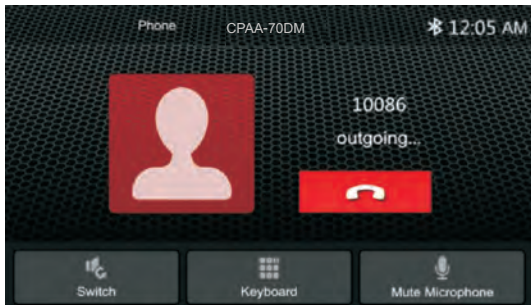on the keypad to delete the incorrect number.
3. Once the correct number appears on the

screen, touch the [icon] icon. To go to dialing
interface.

4. To end the call, touch the icon [icon] on the screen.

Receive an incoming call

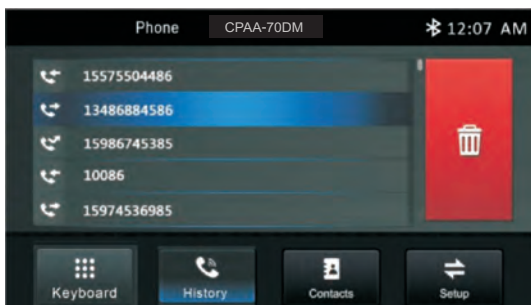If the Phone is connected with the source unit via Bluetooth, when an incoming call, below screen will be shown:

Press [icon] to answer the incoming call.

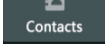Press [icon] to reject the incoming call.

Call Logs

Touch the icon [History] to display the Call combined list.

Slide the bar at right side up and down to display a call logs up to 20 records.

Contacts

Touch the icon [Contacts] to access the phone book of the connected mobile phone.
To make a call from the phonebook, simply touch the contact name.

BT Setup

BT   On /OFF, Power On or Off BT function.

Auto Answer   On /OFF, incoming call auto answer.
Auto Loadpbk , On /OFF, when connectphone auto load phonebook on or off.
Loadpbk , Manually load phone book.

9.AV IN

The Audio/Video source with RCA cable can through the source unit to play the Audio/Video. Plug the RCA to the corresponding A/Vsocket.

Touch the icon to view the playing Audio /Video.

The Audio and Video will via the RCA cable to the source unit.