

Caution:

- The traffic units in all areas will adjust property of road (one-way street, left turn forbidden etc.) according to local traffic condition. Please be sure to obey the local traffic instructions. If the road condition differs with what the map shows, please make your own judgment if this road should be taken.

Map

- As with rapid urban construction and town and country highway traffic development, traffic regulation information of city streets keeps changing constantly. After launching for some time, the product may provide traffic information not exactly matching actual practice. Driver should be aware of actual traffic condition, so as to avoid going against traffic rules.
- As with the change of traffic regulation or temporary road control, the instructive

route provided by this navigator may not be matching actual practice. Please drive as per actual traffic control or regulation.

- The navigation routes provided by this device are for driving reference only. For example, in driver's familiar area, it may be more effective when choosing routes on his own, rather than following planned routes.

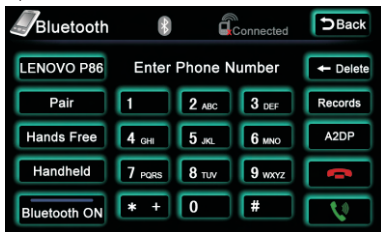
Receive satellite signal

Normally, as long as receiving the signal from over 3 satellites, the navigation system can accurately locate your position, but sometimes the signal received may be affected by weather or skyscrapers.

Functions and AV operation

6. Bluetooth telephone control


Click on the Bluetooth functional key in main menu, as follows:



(**Pair**) : Click to match Bluetooth mobile phone.




(**Handheld**) : Change to receive by mobile phone.

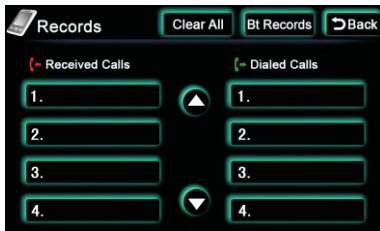
(**Hands Free**) : At hand free mode.

(**Bluetooth ON**) : Gray indicator turns yellow meanwhile “” turn blue indicating

Bluetooth is on, click(Pair).

Otherwise, it's off and not for matching mobile.

- () : Receive or dial call key, when in process, the button turns green.
- () : Hang up. In talking, the button is in red Press. this button to hand up, meanwhile it turns grey.
- ( **Del**) : Delete error number.
- (**Records**) : Click on this button to see the following picture :



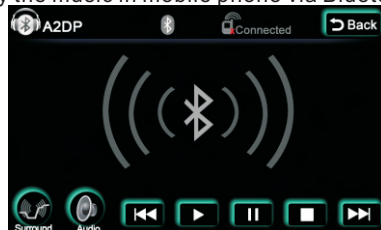
- (**↩ Back**) : Return to upper menu.
- (**Received calls**) and (**Dialed calls**) :
Preserve the most recent 20 received or dialed calls.
- (**▲**) & (**▼**) : See call records.
- (**Clear all**) : Clear all received and dialed call record.
- (**Bt Records**) : Click to see the following picture :



- (**CarRecords**) : Jump to vehicle record page.
- (**Missed Calls**) : Missed call list.
- (**Received Calls**) : Received call list.
- (**Dialed Calls**) : Dialed call list.
- (**SIM Contacts**) : As it states.
- (**Phone Contacts**) : As it states .

7. Bluetooth music control

Play the music in mobile phone via Bluetooth



Functions and AV operation

- (⏮) : Press it to play previous song.
- (▶) : When mobile phone is connected, press it to start playback.
- (||) : In playback mode, press it to pause.
- (■) : Press it to stop playing.
- (▶▶) : Press it to play next song.
- (↶ Back) : Return to upper setup page.

8.Setup function control

- ① Press (Settings) button on main menu to access to the first page of (Settings)page:



Auto Switch to GPS (ON) 、 (OFF) :

When it's (ON), and 10 seconds after operation in other page. it will auto switch to navigation page When it's (OFF),this function is turned off.

GPS Voice (ON) 、 (OFF) :

When it's (ON) • turn on GPS voice.
When it's (OFF) • turn off GPS voice.

Rearview Camera (ON)、 (OFF) :

When it's (ON), camera will capture the

car reversing live video onto the monitor. When it's off, no such live video will be provided. It remains the original operation screen.

Caution :

- **This function is valid for the cars with CAN BUS control only.**

Auto Dimmer(ON):

Day/night mode button in menu disappears. Turning vehicle light on/off may control the day mode and night mode of screen. When turning on the head lamp, the screen will be in night mode. When turning off the head lamp, it's in day/night mode.

Auto Dimmer(OFF):

When day/night mode button appears in main menu, press it to adjust the day mode and night mode of the screen.

Brake Override (ON), (OFF):

When it's ON, DVD or video picture from auxiliary input can't be shown until taking stopping brake. But audio is not affected by this setting. When it's OFF, you may access to DVD or video picture from auxiliary input at any time.

Information : Click to display the relevant info about MCU, iPod, Barcode, Bluetooth, MPEG and UUID, as following picture:

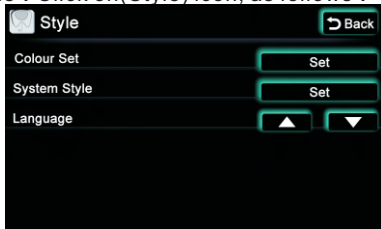


Information		Back
MCU	753078-00-00-12-12-14-C1-03	
iPod	V 1.0	
Barcode	75307A00E2CC12BF00149	
Bluetooth	V1128065	
MPEG	Y12M07D26	
UUID	33221100554477668899aabbccddeeff	

Functions and AV operation

Tire pressure : Display vehicle & set up relevant in-car info.

Style : Click on(Style) icon, as follows :



(Colour Set): Personalize page color, as following picture:

"-" " " "+" :Add or reduce RGB color value.

Including: "Blue", "Orange", "Green", "Yellow".

For quick switching system color, user may use R, G, B to customize color style, press and hold the definition to save it.

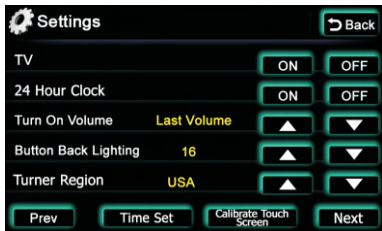


(System Style) : Click button(Set) to open style setup page, with a variety of style available, as follows :



- “Default”** : Click on the default style.
- “Apply”** : Click to apply the selected style.
- “Cancel”** : Click to cancel the selected style.
- “Next”** : Jump to the next style setup page.
- “↶Back ”** : Return to the setup page of upper level.
- (Language)** : Use (▲)&(▼) to switch language.

② Press **(Next)** button to 2nd **(Settings)** page, As following picture :



(TV) : When TV setup is **(ON)**, turn on TV function; when TV setup is **(OFF)**, convert to XM Radio (for use out of China only).

24 Hour Clock(ON), (OFF) :

When it's **(ON)**, the time is in 24-hour system; When it's **(OFF)**, the time is in 12-hour system.

(Turn On Volume) : Use (▲)&(▼)to adjust volume output.

(Button Back Lighting) :

Use(▲)&(▼)keys to setup the brightness of panel indicators, in consistent with other keys.

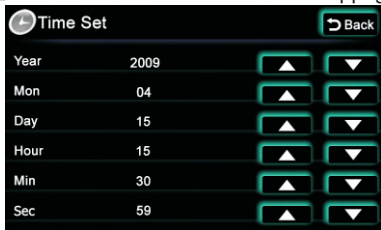
(Turner Region) : Use(▲)&(▼) keys to select the radio channel of your desired nation.

Time Set : Click **(Time Set)** button to setup, as following picture:

Functions and AV operation

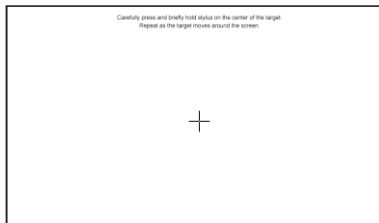
“ ▲ ” and “ ▼ ” : Set up relevant time: parameters of the system.

“ ⏪ Back ” : Press it to return to setuppage.

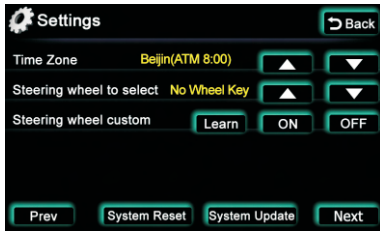


Screen verifying : When touch screen becomes insensitive or with drifting sign, it's needed to verify the touch screen area, in following steps : Start up the system, “notes” page appears, when seeing “agree” button, press and hold the screen for 3 seconds. A white page appears, follow the text prompt on the screen, slightly

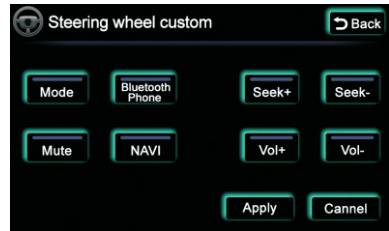
and accurately use finger or touch pen to hit the center of cross cursor in order. After successfully verifying, cross cursor disappears, 30 seconds count-down starts at the center of screen. In such time hit on the screen to confirm the verify data, Otherwise the verification is invalid, as follows :



③ **(Next):** Return to upper setup page, press **(Next)** button to access to page 3 of **(Settings)** page, as following picture:



- (**Timezone**) : Use (▲) & (▼) buttons to select your desired time zone.
- (**Steering Wheel to Select**) : When steering wheel study is(ON), you may then use(▲) & (▼) to select steering wheel .
- (**Steering Wheel Custom**) : When it's (OFF), turn off steering wheel study, steering wheel becomes default. When it's (ON), click to access to (study) operation page, as follows:



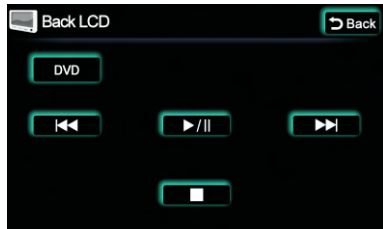
- "**Mode**" : Click to highlight it, and click the corresponding key in steering wheel, and click apply to successfully set up your desired shortcut key. Other key functions are the same as those of "mode" operation.
- (**System Reset**) : Click on system reset key to restart the mainframe CPU and GPS system.
- (**System Update**) : Product software update.
- ↶ **Back** : Press it to return to setup page.

Optional function

Optional function

Back LCD

Click on (Back LCD) to access to setup page, as following picture:

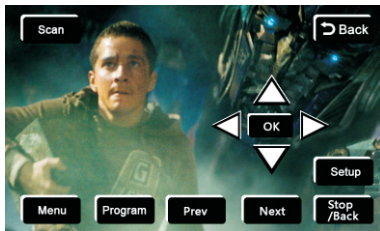


- (**DVD Mode**) : Press it to select playing Disc.
- (**⏮**) : Press it to play previous song or track.
- (**▶/||**) : When Disc is in, press it to start playback; When the Disc is playing, press it to pause. When it's paused and stopped, press it resume normal playback.

- (**■**) : Press it to stop playing Disc.
- (**▶▶**) : Press it play next track or song.
- (**↩Back**) : Return to main menu setup.

Watch TV program

Click on the (TV) button on the main menu to see following picture:



- (**Scan**) : Click to auto search TV channel.
- (**Setup**) : The same as (DVD) setup (see P-13 for reference) .

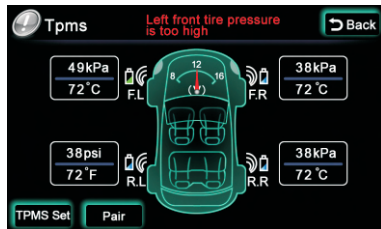
- (**Menu**) : Program setup menu.
- (**Program**) : Press it to watch the preset TV channel.
- (**Prev**) : Choose previous channel.
- (**Next**) : Choose next channel.
- (**Stop/Back**) : Cancel/return to an operation.



: In **(TV)**page, use this button to move the cursor from all directions, press **(OK)** button to select it.
 (Hint: ◀ / ▶ may adjust volume).

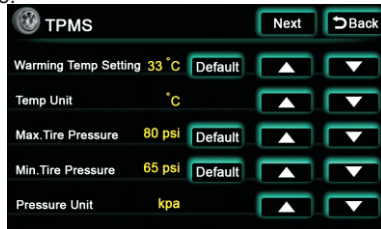
TPMS setup

In main menu, press **(Tpms)** button to access to the management page as follows:



(**Pair**) : Match tire pressure and temperature sensor.

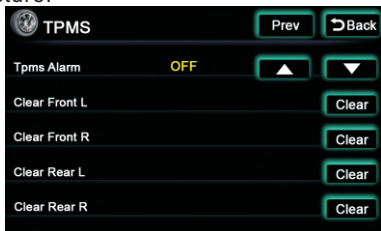
Press **(TPMS Set)** button to access to setup page:



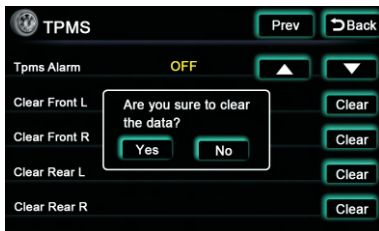
Optional function

Click(▲)&(▼) to set up related parameters.

- Press(Next) button, to enter the following picture:







matching information.



- (▲) & (▼) button can set up tire pressure alarm type. (OFF, RING, TEXT WARNING).
- (↶ Back) : Press to return to previous operation page.
- (Clear) : Click(clear)button to see the following page, And press(Yes) key to clear related tire pressure

Playable Disc type

Disc label side, package box and package bag have the following marks.

Playable Disc type and mark	Size/sides	Longest playing
DVD 	DVD 12cm/singe side 1 side2 sides 12cm/double sides 1 side2 sides	(MPEG2format) 133min 240min 266min 484min
CD  	CD 12cm/single side	74min
 Is a reistered remark of DVD Format/ Logo licensing Corporation		

 Caution:

- Part of functions can't be used in DVD/CD Disc.
- DVD-R/RW disc is for playing the files in Vid-eo format.
- Files in VR format can't be played in DVD-RW Disc.
- For playing the Disc burnt by PC, but sometimes it can't be played subject to application setting or environment. Title or other text information may not be displayed in this machine.
- DVD-R/RW Disc burnt in video format and music CD or PC-burnt CD-R/CD-RW may not be able to play in this machine, due to scratch, stain or internal lens dirt or dew.
- Sometimes, due to direct sunlight or high temperature or abnormal condition in vehicle, CD-R/RW Disc may not start to play.
- Unable to play any CD-R/RW Disc burnt in DDCD (Double Density CD) format, and unverified CD-R/RW, DVD-R/RW Disc. Only the Discs with above labels can be played in

Use of the monitor

Use the monitor correctly

1. Notes of use

- DO NOT expose the monitor under direct sunlight or high temperature area, otherwise, LCD failure may happen.
- When not using this machine, please avoid exposing the monitor to direct sunlight.
- Use the monitor within the following temperature range:
Temp. range of use : -10 °C~+50 °C
Temp. range of preservation : -20 °C~+80 °C
- For easy watching in vehicle, LCD monitor sticks out. Please DO NOT press with LCD monitor surface with strength, as it could lead to failure. When slightly touching the monitor, except verifying the coordinator, please make sure using finger to softly touch it, otherwise, it maybe damaged or sticking with dirt.
- In vehicle installed with the likes of safeair bag, please note DO NOT hinder the

working of safety device.

2. About LCD screen

- The LCD monitor sometimes may be with a black dot or a flashing dot (bright dot). This is a unique phenomena of LCD monitor, rather than failure.
- When using it in cold area, after connecting to power, the screen may be dim initially. After a while, the brightness will resume normal.
- If with direct sunlight on LCD monitor, the screen may be unclear due to light reflection.

3. About maintenance

- When cleansing the dirt on screen, please turn off power and use soft cloth to wipe it.
- When wiping monitor, please avoid scratching by fingernail.
- DO NOT use wet cloth, volatile oil or diluents.

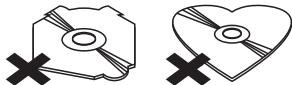
How to use Disc

1, Notes of handling Disc

- DO NOT use any Disc with crack or stain, or bended.



- DO NOT use abnormal (non-perfect rounded) Disc, so as not to cause failure.



- DO NOT touch the info side (with gloss) of the Disc when handling it. DO NOT hurt the Disc.

- DO NOT stick paper or label on the Disc.



2, About maintenance

- If the Disc is covered with dirt, please use clean soft cloth to wipe the Disc from inside out.



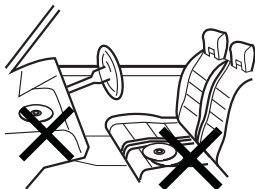
- DO NOT adhere volatile or diluentsdiluent onto the Disc. Besides, DO NOT use the cleaner for analogue recorder or antistatic agent.



3, Notes of preservation

- DO NOT expose the Disc under direct sunshine or where is at high temp.
- Keep the Disc in box, so as to avoid bending.

Trouble shooting



4. About Disc Playback Environment

- While driving, Disc data can't be correctly read due to vibration.
- In low temp environment, please play the Disc upon turning on heater. Due to lens or Disc player could be with moisture condensation (condensation effect), normal playback may not be able to start. At this time, wait for about a hour, until the dew is evaporated, and then use soft cloth to wipe out the dew remained on the Disc.
- When temperature rises, protection

function will be triggered, and some functions will be stopped.

Trouble shooting

When with trouble

Please refer to the following table before sending to maintenance



Unable to fix it after checking

Reset the machine as factory default



Still unable to fix it

Please consult with the customer services department of the manufacturer

Common problems

Trouble	Reason	Solution
Unable to power on. Not working.	All leads and connectors are not correctly connected.	Reconfirm stable connection.
	Blown fuse.	Check reason of blown fuse, and replace it with the fuse of the same specification.
	For noise reason, built-in computer error.	Press reset button.
No response to touch key on screen, or being insensitive.	Touch key shifting over actual reaction location.	Conduct Touch screen coordinate verifying .
Unable to play.	Disc with dirt.	Clean the dirt on Disc.
	Unacceptable Disc type.	Confirm Disc.
	With wrong Disc side up.	Insert Disc with label side up.
Turn on the ACC of vehicle (start engine) , with engine sound.	Confirm the Disc is inserted.	Normal working.
Black dot or bright dot on LCD screen.	Unique LCD phenomena, rather than failure.	

Trouble shooting

Dark LCD picture.	Improper Brightness adjustment.	Adjust brightness.
	Too cold in the vehicle.	Low surrounding temp leads to dark monitor. Use heater to warm up the interior vehicle.
No sound.	Volume is 0.	Increase volume.
	Connection error.	Confirm correct connection.
No image display.	Not connect to parking brake line.	Connect to parking brake and execute it.
	No parking brake.	
	Turn off monitor.	Press POWER key or touch the screen.
No navigation system image display.	Not being switched to navigation.	Switch the image into navigation system.
No sound from front or rear speaker.	Improper volume adjustment in front or rear speaker.	Correct adjustment and setup.
No sound from left or right speaker.	Improper volume adjustment in left or right speaker.	

DVD Video

Trouble	Reason	Solution
Unable to play.	The Disc inserted can only be played from Disc menu.	Play from Disc menu.
No image display.	Vehicle is driving.	When brake cable is detected ON , no image can be played while driving, but with music only.
	Access to navigation picture.	Press(AV) button to switch picture.
No sound.	Standstill picture, in slow motion.	Standstill picture and slow playback are without sound accompanied.
Unable to switch audio and subtitle language.	The DVD is recorded with 1 language soundtrack only.	Unable to switch over the Disc recorded with 1 language soundtrack only.
	Limited switching from Disc menu only.	Switch over Disc menu.
Unable to execute initial setup audio and subtitle language.	The DVD isn't recorded with initial setup language.	Such DVD is unable to switch to the selected language.
When playing Disc, picture chaos or dim.	The Disc is recorded with copy-forbidden signal. (It may be recorded subject to Discs)	As the system is with function of preventing from analogue copying, when playing Disc recorded with copy-forbidden signal, some monitors may appear horizontal stripes, This is not failure.

Trouble shooting

Pictures tagnant, unable to operate.	Unable to read data when playing Disc.	Wipe out the dirt and play again.
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CD/MP3Disc

Trouble	Reason	Solution
With mass noise while playing CD; suddenly comes to a stop while playing.	Scratching or bending the Disc.	Change to another Disc, if improve, it proves that it's Disc problem.
	Disc is very dirty.	Wipe off the dirt.
	The Disc is sticking with mist or water drop.	Wipe out the mist or water drop.
Mass noise or no sound while playing MP3 file.	Non-MP3 file is attached with [.mp3] extension name.	Please replace the Disc (Don't attach [.mp3] extension name to non-MP3 file) .
M P3 files are played in a different sequence to burning.	M P3 files sometimes aren't played as per the burning sequence.	Some files with names like **01, **02... can be played as per set sequence.

Terms Definition

1. CD/MP3 Disc

CD-DA

Abbreviation for "Compact Disk Digital Audio", means uncompressed common CD.

MP3 (MPEG Audio Layer3)

"MPEG Audio Layer3" means MP3, sound compression format specified by Moving Picture Expert Group (MPEG) of ISO (international standard organization). MP3 could compress the sound to 1/10 of original data content

ISO9660 Format

According to international standard of CD-ROM file and folder logical format. ISO9660 format is limited by following level:

Level 1 : File name is 8.3 type (comprising of capital English letters and number, and "-", with name less than 8 characters, extension name less than 3 characters), all folders have no more than 8 levels.

Level 2 : File name is with up to 31 characters (Including separating character, "-" and extension name) , All file folders are with no more than 8 levels.

Extension format :

Joliet: Max. 64 characters in file name

Romeo: Max. 128 characters in file name

Multi-segment writing

Multi-segment burning is a data written way to supply additional data. When burning CD-ROM, CD-R and CD-RW, the process from beginning to ending one burning makes a segment. Multi-segment burning is to burn more than two segments of data on one Disc.

Id3 Tag

An approach to embed the relevant info of a song into MP3 file. The info for embedding comprises of song name, artist name, album name, device type, production year and comment etc. The content can be edited by software with ID3 Tag editing function. Usually it is limited by character number. When playing songs, the info can be seen.

Byte rate

It is the data provided in 1 second, with unit of bps (bits per second). The larger number means more playable information for music, so the larger number means the better music quality.

Terms Definition

VBR (Variable Bit Rate)

“Variable Bit Rate” is short for VBR, commonly known CBR (Constant bit rate) .When compressing audio, bit rate is variable as per compression condition.

PacketWrite

Like using floppy disk and hard disk, write the desired file into the likes of CD-R.

m3u

Extension file name of playable file (.m3u) , attaching to the playback file list made by WINAMP.

2. DVD Video

Title

DVD has mass content—1 Disc can hold several movies. For example, there are 3 movies in it---mov1, mov2, mov3. All file names can be inquired.

Chapter

DVD titled content is divided into several segments with identifiers, for chapter inquiry.

Multi-angle

Typically, TV camera shoots program at certain angles, with only 1 angle in playback. Some DVDs comprise of all shooting angles for viewers to choose

Multi-soundtrack

DVD may comprise of multiple soundtracks, for you to choose language.

Multi-subtitle (Subheading)

DVD may comprise of subtitles up to 32 languages. Viewer may self-define his own language..

Area Code

DVD player and DVD Disc are with different playing area codes for every sales area. If the Disc doesn't comprise of the code in the player, playback can't be started. The area code of this machine is (6).

Specification

(As the product keeps improving, if with change of specification, please forgive that we won't have separated notice)

Universal

- Max current consumption:10.0A.
PowerDC14.4V(Usable11V~16V).
Grounding : Negative pole grounding.
External image input level:1V p-p(75Ω load).
External audio max input level1.5V/22KΩ.
Image output level:1V p-p(75Ω load)
(white100%output /when playing DVD).

GPS

- Approach : L1、 C/A code GPS
SPSstandard. positioning service.
Receiving way : 12 channels.
Receiving frequency : 1 575.42MHz.
Sensitivity : -130dBm.

Amplifier and audio parts

- Rated power output:22W X 4(10%T.H.D).
Max. power output:45W X 4.
Load impedance:4Ω.

DVDplayer parts

- Support Disc:DVD-ROM、 DVD-VIDEO、 DVD-R(video mode) /RW (video mode)、 CD-ROM 、 CD-DA 、 CD-R/RW .
Area No. : 6 .
Signal format (Sampling rate)
(DVDvalue) : 48/96 Khz
(CDvalue) : 44.1 Khz
Signal format (quantization B it)
(DVDvalue) : 16/20/24B it line
(CDvalue) : 16B it line
Frequency response:20Hz~20KHz(±3dB)
Audio SNR : ≥65dB.

Specification

Channel separation : $\geq 50\text{dB}$.

Audio distortion plus noise : $\leq 0.03\%$.

Video output level : $1.0 \pm 0.3\text{Vpp}$.

Line synchronous amplitude : $0.3 \pm 0.1\text{Vpp}$.

FM tuner parts

● Frequency band : $87.5\text{MHz} \sim 108\text{MHz}$) .

Practical sensitivity : $\leq 12\text{dB}\mu\text{V}$.

Locking sensitivity : $35\text{dB}\mu\text{V}$.

SNR: Over 50dB (IHF-A network) .

THD : 0.3% .

Frequency response : $\geq 2\text{KHz}$.

Stereo crosstalk : $\geq 27\text{dB}$.

AM tuner parts

● Received frequency band:

$531\text{kHz} \sim 1602\text{kHz}$ (9kHz) .

$530\text{kHz} \sim 1604\text{kHz}$ (10kHz) .

Practical sensitivity : $\leq 28\text{dB}\mu\text{V}$.

Locking sensitivity : $\leq 45\text{dB}\mu\text{V}$.

Monitor part

● Screen size: 6.5inch , 6.95inch , 8.0inch .

Display area: 144×78.4 , 158×83.6 ,
 177.64×100.35 .

Pixel resolution : 800×480 .

Approach: TFT active matrix, transparent.

Edge illumination : Cold cathode L tube.

Color system : NTSC/PAL compatible.

Temperature range for working:

$-10\text{ }^\circ\text{C} \sim +50\text{ }^\circ\text{C}$.

Temperature range for preserving :

$-20\text{ }^\circ\text{C} \sim +80\text{ }^\circ\text{C}$.

Touch screen : Resistance induction
analog (film + glass) .

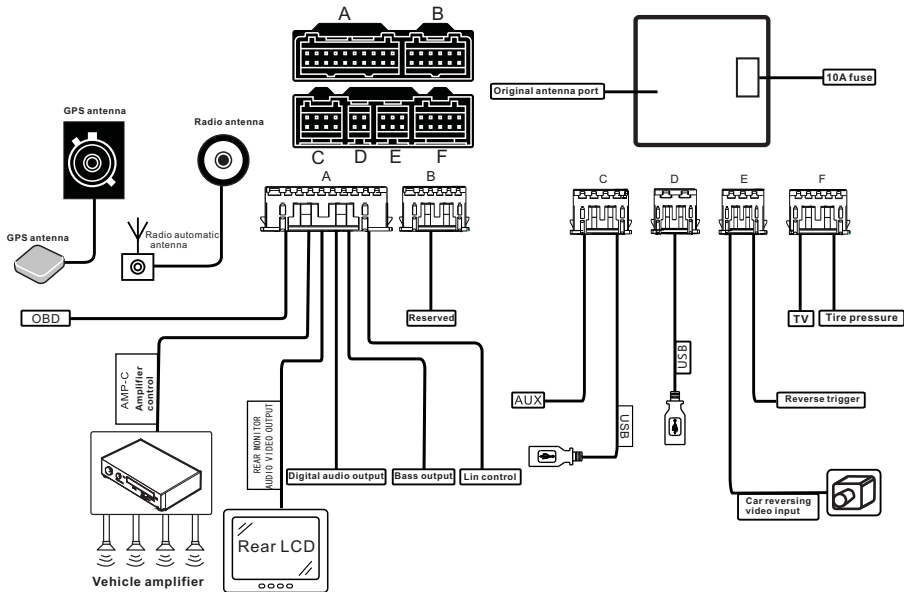
GPS antenna

● Antenna: Microwave transmission with flat
plane antenna/Right circular. polarization
wave antenna cable length : 3.0m .

Dimension and size

- Installation size of navigation system
mainframe :
178(W) x 100(H) x165 (D)mm.
GPSAntenna :
39(W) x 15.5(H) x48.5 (D)mm.
- Total weight:about 2.5kg.

**Quick installation guide. Before installation, please read through all instructions.
It's advised to entrust professional automobile Hi-Fi dealer to install this machine**



FCC Caution.

§ 15.19 Labelling requirements.
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.

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

§ 15.105 Information to the user.
Note: 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.

* RF warning for Portable device:
The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

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※ If there would be any change of address or telephone number, please forgive that we won't have separated notice.

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