



Multimedia Navigation System for Audi A4L
USER MANUAL

Safety Notice

- It is electronic product. Please install, operate and use it according to relevant national standards;
- It is suitable for 12V car electrical system. It should not be installed on car models of 24V electrical system;
- Avoid squashing, piercing, cutting off and prolonging every connecting wire during the installation process;
- This system should be installed and maintained while the electricity is switching off. For safety purpose and in order to ensure regular service of this product, installation should be finished by the specialized staffs who sell this product to you. Please don't disassemble or repair this product without permission, so as to avoid damage to this product and prevent accidents from happening;
- In order to ensure driving safety and avoid violation of highway code, please don't watch programs and operate this product while you are driving;
- Please distinguish the GPS antenna from the CMMB antenna, so as to avoid connecting error which may cause failure of this system;
- Brand configuration of disk enclosure should be in accordance with additionally installed disk enclosure, otherwise the DVD player would not be able to play;
- This system is equipped with special map card. Please use it, otherwise the navigation software would not be able to run;
- Please don't put this product in damp circumstance and water, so as to avoid electric shock, damage and fire which are caused by short circuit;
- The backing-up monitoring function of this product only acts as backing-up assistance. Our company should not be liable for any backing-up accident;
- This system simultaneously works with the self-contained multi media display screen and can be automatically switched on or off via power system of the multifunctional display screen. That is to say, within two minutes after shut-down of ACC, this system would automatically be switched off.

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1. Product Profile

Thank you for using our company's high quality series car electronic products. As a multifunctional car video & audio entertainment system with brand-new graphic interface, this product is developed and designed by our company and is suitable to be used in Audi A4L. It integrates functions of GPS navigation, Bluetooth communication, digital television, music player, video player and multi media player and allows external connections of single-disk and multi-disk disk enclosure of many brands. The self-contained 16:9 6.5 inch ultrahigh resolution digital displayer can make your visual sense stay in the optimum condition all along; it can retain self-contained functions such as 6-disk CD player and radio, etc. This system also has auxiliary function ports such as video back view mirror and AV, etc. More of your functional wants and needs can be satisfied after you have chosen and bought fittings of our company such as video back view mirror, etc.

It features professional design of in-car electronics. All operations feature intellectualized, humanized and graphic interface; it has OSD menu display and direct control can be realized through panel function keys, touch screen keys and self-contained keys; friendly man-machine interaction; it can completely satisfy your requirements for the pursue of leisure and convenience; if you have a Bluetooth mobile phone, you can finish the talking with others right through this main frame without picking up your mobile phone; the function of front and back displayers can satisfy needs of those who sit in the back seat of the car.

To correctly install and use this product, please carefully read through this Manual.

Reminder: While operating functional keys, please wait for the multi media system to complete the execution of the function you have chosen before operate other functional keys. Overquick operation might cause error due to response failure of the system.

If system error appears, please rerun the start-up operation, or press the Return Key under start-up status. Wait for a while for the system to return to normal condition.

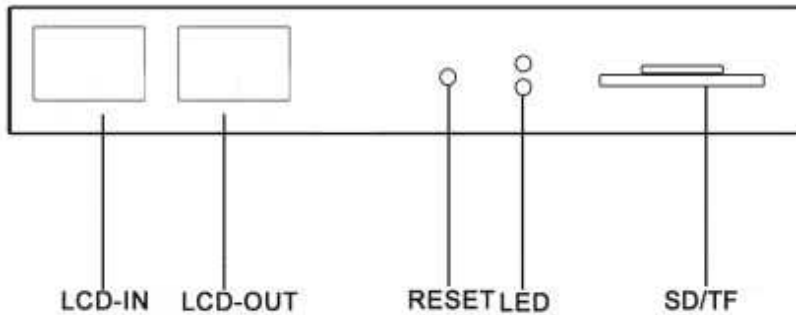
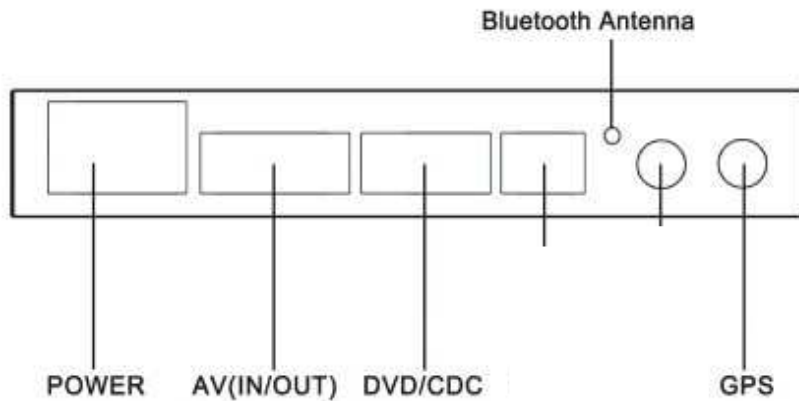
While you are using the Bluetooth communication function, please don't use any functional key other than the volume control keys, otherwise the talking over telephone may be interrupted.

While you are backing up the car, please don't carry out any operation of the system, otherwise the backing-up video display might be interrupted.

2. Product Features

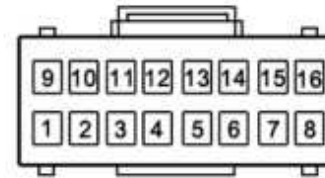
- Built-in functions: Multi media player, GPS navigation and Bluetooth hands-free function, etc.
- Multi media player: DVD/VCD/CD/MP3/WMA/JPEG/MPEG4 etc could be played.
- Display screen: Self-contained 6.5 inch digital display screen is adopted.
- Touch screen: It can reduce graphic keystroke and increase friendliness of man-machine interaction. In the original car function, the touch screen should not be touched.
- Bluetooth handsfree function: It supports Bluetooth handsfree communication and Bluetooth music playing function.
- Navigation function: This intelligent system can, according to the destination set by the user, work out the best travel way in an intelligent manner. Its whole-journey site display, traffic sign voice reminder and high-precision graphic display can guide the driver smoothly arrive over the destination.
- Music function: While using non-navigation voice reminder, you can enjoy music normally. This would make your journey more relaxed and pleasant.
- Hand-writing function of navigation: Under navigation status, you can input handwritten data in the touch screen. This can make the inquiry operation more convenient and faster.
- Dynamic graphic interface: The operation interface is wholly graphic. It is more direct-viewing and humanized.
- Menu function: There are OSD character displays for all operations.
- Front and back displayers function: It can respectively control playing functions of the front and back displayers to satisfy different wants and needs.
- Backing-up display (optional): It connects with the backing-up lens. While backing up the car, you can watch the backing-up status.
- Display service pattern: Automatic PAL/NTSC/SECAM which feature wide field of application and strong compatibility.
- Automatic memory: All adjusting parameters could automatically be memorized and automatic recovery is available.
- Interfacing of SD card: It is used to read data card of the navigation map.
- Signal selection: AV input/output. It is convenient to connect external signal.

3. Wiring Diagram



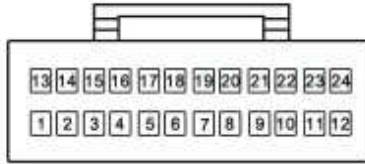
External wiring illustration

16 PIN power supply interface specification



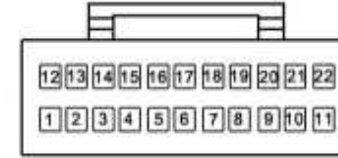
Pin	Description	Pin	Description
1	+12V	9	ACC
2	BACK DET	10	WGND
3	TSYP	11	TSYM
4	TSXP	12	TSXM
5	CAN1H/TX	13	CAN2H/+5V
6	CAN1L/RX	14	CAN2L/DET
7	AGND	15	GND
8	AOUT-L	16	AOUT-R

24 PIN AV / IN interface specification



Pin	Description	Pin	Description
1	BVOUT1	13	BVOUT2
2	VGND	14	BVIN
3	BVCC	15	GND
4	SPK+	16	SPK-
5	AGND	17	AGND
6	ALIN	18	ARIN
7	VGND	19	AVIN
8	MIC+	20	GND
9	MIC-	21	GND
10	VDD-IR	22	IR-IN
11	GND	23	USB-DN
12	VDD-USB	24	USB-DP

22 PIN DVD interface specification



Pin	Description	Pin	Description
1		12	
2		13	CVBS IN
3	AGND	14	VGND
4	DVD-FR	15	DVD-FL
5		16	
6		17	
7		18	
8	+12V	19	+12V
9		20	
10	DVD-GND	21	DVD-GND
11	CDC ACC	22	CDC BUS

4. Functions Operation

Enter the Audi Multi Media Interface

Start up the system for the first time. The system will automatically enter the Audi multi media control console. If the navigation setting is set as "Run the navigation software automatically while starting up", the system will directly enter the navigation interface. In this case, you need to click the "MMI" icon in the navigation interface, so as to return to the multi media navigation control console;

Touch every icon. Move the cursor to the target icon, click it and enter relevant functional operation.



Boot screen of the multi media system



Navigation interface

On the self-contained AUX functional interface, press the MEDIA key to switch to the navigation interface of this system. As a default, the sound output is finished by the self-contained stereo system. Press FM and AM keys to return to self-contained FM and Am functional interface;

While you are using self-contained FM and AM functions etc, long press the directly over part of the display screen for 3 seconds to switch to the master control board interface of this system. All sound outputs are finished by the sound loudspeaker and would not influence self-contained functions. You can click icon "⊞" in the main control board interface to return to the self-contained interface.



Self-contained control panel

On the functional interface of this system, press the MEDIA key to return to the self-contained CD playing interface. Then press the MEDIA key again to enter the playing interface of SD card. If you press the MEDIA key for the third time, the system would return to the navigation interface of its own.



Self-contained FM interface

4.1 Touch screen calibration

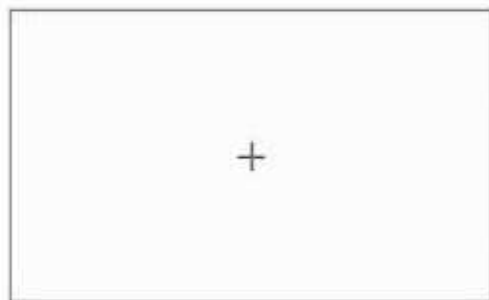
Turn on power supply and start system to enter the following console interface:



Choose "Setting" and enter the following navigation setting interface:



Click "Touch screen calibration" You will enter the interface of Touch screen calibration as follows:



Long click center cursor position in accordance with reminds in the picture until the calibration cursor automatically shifts to the top left corner. Then relatively calibrate cursor position in lower left and right corner as well as in top right corner in turn. If failing to calibrate well, the system would automatically re-enter calibration interface; if succeeding, "OK" would be displayed on the screen and click any position on the touch screen can store it and exit from the interface. After calibration, the system will memorize the result to avoid loss due to power cutting and troubles of re-calibrating any more. Touch screen has been calibrated after leaving the factory.

4.2 Navigation Function

Insert the SD card with navigation software. As shown in the following interface:



Choose "GPS the path Setting" and enter the following navigation setting interface:

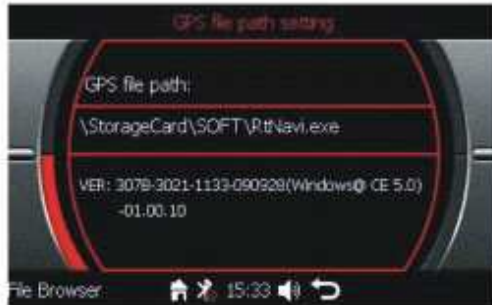


Click icon "File Browser" in the navigation setting option, As shown in the following interface :



In the list interface, according to saving path of the navigation software, choose the program RtNavi.exe (a file whose filename extension is generally exe).

Click icon "OK" or double click the file to return to the navigation setting interface.



After selecting the navigation application program, you can click "↩" to return to the master control board interface.



Click "GPS" to operate the navigation function and enter the navigation interface which is as follows:



Note: 1. The navigation function of this multi media navigation system is compatible with multi brand maps. For details of relevant problems of the map you use such as version content, matters need attention, operation instruction and version upgrading, etc, please refer to the User's Guide of relevant providers of the map.

2. Maps provided by appointed sales and service providers for the navigation function of this multi media navigation system are genuine "Cn-map" and "Careland" maps.

4.3 Bluetooth Function



Click "Bluetooth" to enter the Bluetooth hands-free pattern interface which is as follows:



Click icon "Pairing" to enter the matching status which is as follows:



Matching status is the status of being searched. You need to use your mobile phone to search the Bluetooth equipment initiatively. After finding the equipment, holder of the mobile is required to input passwords of the equipment. Default passwords Should be compared with the picture and the actual

Item is the standard. After being matched, the equipment needs not be matched again every time. If you switch on the Bluetooth function of the mobile phone and activate the Bluetooth function of this system, they would automatically be connected.

On the Bluetooth status, click "Paired Devices" and enter the following Matching Record interface:



Click icon "Disconnect" means to disconnect the selected equipment. Click icon "Connect" means to connect with the selected equipment. Click icon "Delete" means to delete all equipments.

In order to obtain relevant configurations, you can click "Back" to exit the Matching Record interface and return to the Bluetooth interface.

On Bluetooth status, click icon "Setting" and enter the following Bluetooth setting interface:



Click "Bluetooth ON" to set whether to maintain Bluetooth function on non-Bluetooth interface; ;
 Click "Auto Answer" to set whether to auto answer incoming call;

Click "PINcode" and enter the input status which is as follows:



After input of the PIN code, click icon "Delete" to exit.



On the Bluetooth connecting status, click icon "Dial Pad" to enter the dialing and calling interface which is as follows:



Icon "Delete" is the backspace key; icon "Dial Pad" is the dialing key; icon "Redial" is the redialing key and icon "Call History" is the call history.

The talking connection process is as follows:

4.4 Multi Media Player



Click icon "Hang Up" to hang up;

Answering status (when the mobile phone has been connected and matched with this equipment) is as follows:



It can display the number of incoming call. Icons "Answer" and "Hang Up" respectively correspond with the answering key and hanging up key.



Click icon "DVD" to enter the multi media player interface. At this time, you can play DVD. On the multi media player interface, click the screen and the function menu interface would be shown on the screen.



Multi disk DVD player

Functional specification for icons of the player:

- Icon “▶” means Play; icon “⏸” means Pause. Click “▶” and the player would pause. Click “⏸” and the player would play the disk;
- Icon “⏭” means “Skip Forwards” and icon “⏮” means “Skip Backwards”;
- Icon “⏪” means to play the last song and icon “⏩” means to play the next song. Icon “Last Disk” means to play the last disk and icon “Next Disk” means to play the next disk;
- Click icon “Menu” and the disk information would be displayed. You can click “Sound Track” to shift sound track and click “Open the Disk Holder” to get the disk out;
- You can click icon “ⓘ” to select disk information and icon “OK” is for confirmation;
- You can click icon “🏠” to go back to the main menu. All manifested contents of the current page would automatically be saved;
- You can click icon “🚪” to exit the multi media player interface.

4.5 Music Player



Click icon “Music” to enter the main interface of music player which is as follows:



Click icon “File Browser”. Select and play all music files or single music file according to the correct saving path;



You can click the MP3 file to play it; you can select the MP3 file and click icon “Delete” to delete the file; you can also click icon “Hide List” to back to the music player interface.



Functional specification for icons of the player:

● Icon “▶” means Play; icon “⏸” means Pause. Click “▶” and the music would pause. Click “⏸” and the music would be played;

- You can click icon “Last” to select the last Song and click “Next” to select the next song;
- You can click icon “+” to increase the sound volume and click “-” to reduce the sound volume;
- Icon “🔊” means normal playback and icon “🔇” means loudspeaker mute. Click “🔊” and there would be loudspeaker mute. Click “🔇” and the loudspeaker mute status would be turned to playback status;
- You can click icon “Delete” to delete files;
- You can click the playing progress bar “▬” to freely select playing velocity;
- You can click icon “Hide List” to shift from the music list interface to the music playing interface and click icon “Show List” to shift from the music playing interface to the music list interface;
- You can click “🏠” to go back to the main menu. All manifested contents of the current page would automatically be saved;
- You can click icon “🚪” to exit the music player interface.

4. 6 Video Player



Click icon “Movie” to enter the main interface of video player which is as follows:



Click icon “File Browser”. Select and play all video files or single video file according to the correct saving path;



You can click the video file to play it; you can select the video file and click icon “Delete” to delete the file; you can also click icon “Hide List” to back to the video player interface.



Functional specification for icons of the player:

● Icon “⏪” means Play; icon “⏸” means Pause. Click “⏪” and the video would pause. Click “⏸” and the video would be played;

- Click “Last” to select the last video and click “Next” to select the next video;
- You can click icon “⏮” to increase the sound volume and click “⏭” to reduce the sound volume;
- Icon “🔊” means normal playback and icon “🔇” means loudspeaker mute. Click “🔊” and there would be loudspeaker mute. Click “🔇” and the loudspeaker mute status would be turned to playback status;
- Click icon “⏏” to watch the video on a full screen basis;
- You can click the playing progress bar “▬” to freely select playing velocity;
- You can click “⏪” to go back to the master menu. All manifested contents of the current page would automatically be saved;
- You can click “⏩” to exit the video player interface.



Full screen playing pattern

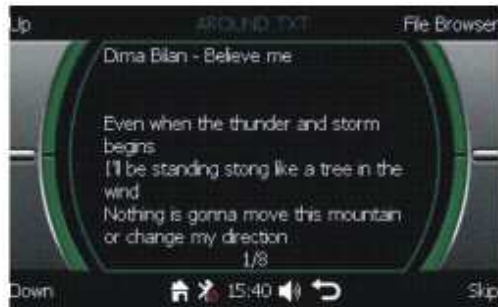
4.7 E-book



Click icon “E-book” to enter the main interface for E-book which is as follows:



Click icon “file browser” to read the text file according to the correct route.



Click icon “skip” to choose the page. Picture is shown as follows:



Icon “←” means backspace and icon “✓” means enter;

Click “down” to go to the next page and click “up” to go to the previous page.

Click “🏠” to return to main menu. The content in current page will be saved automatically.

Click “🔌” to quit e-book interface.

4. 8 Picture Viewer



Click “Photo” to enter the following interface of picture viewer:



Click icon “file browser” to read the text file according to the correct route.



Icon function description:

- Click “+” to magnify your picture and click “-” to zoom out your picture.
- Click “⌛” for 360o rotation of picture.
- Click “up” to see the previous picture and click “down” to see the next picture
- Click “slide” to see your picture through slideshow mode and click “⌛” to see your picture by full screen
- Click “🏠” to return to main menu. The content in current page will be saved automatically.
- Click “🔍” to quit the picture viewer.

4.9 Settings

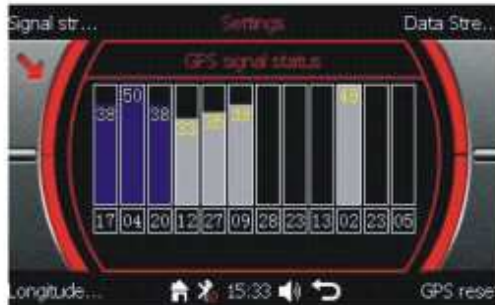
1 .Signal Monitor



Click “GPS signal status” to enter GPS monitor. Then GPS data stream will be display on the screen as follows:



Click “signal” to enter the signal interface. Then number of satellites and relative signal strength will be displayed on the screen as follows:



Click "latitude and longitude" to enter its interface. Then the GPS signal like latitude, longitude, speed and direction will be displayed on the screen as follows:



Click "GPS reset" to restart GPS. Picture is shown as follows:



II. Back-end Setup



Click "Back-end Setup" to enter the interface of backseat settings. Picture is shown as follows:



Choose "Consistent With Front-end". The information shown on the display monitor wrapped behind the front-row head rest should be the same with the information shown on the display screen in the front of the car.

If you choose "Inconsistent With Front-end", click "Home" to return to control console when it is playing DVD and aided video. Then the display screen of front seat will return to control console and the display Screen of backseat will continue to

play DVD And AVS aided video. When the display monitor of front seat is playing digital TV, music or video, the display monitor of backseat will play the same thing.

III. CDC Brand



Click "CDC Brand" to enter the interface of disk enclosure brand settings as follows. Set the disk enclosure brand based on the existing disk enclosure. Then play the music by multi media player. You cannot enter the interface of multi media player if the setting is in contradiction with the installation.



After choose the corresponding disk enclosure in the interface of disk enclosure settings, click "⏪" to exit the interface.

IV. Language Setup

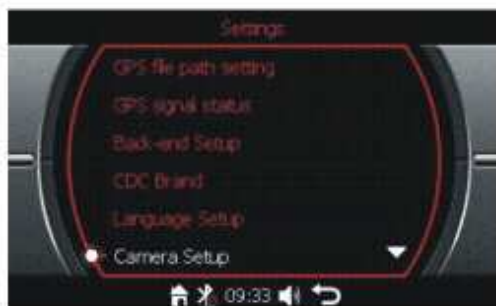


Click "language Setup" to enter its interface. Picture is shown as follows:

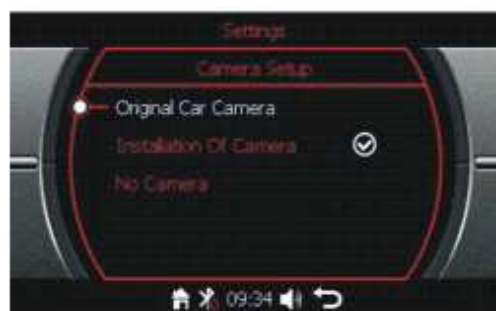


You can choose languages like English, simplified Chinese and traditional Chinese in the language settings.

V. Camera Setup



Click “Camera Setup” to enter its interface. Picture is shown as follows:



Choose “Original Car camera”: If the car is equipped with camera, the display screen will show the pictures shot by the camera when you are backing your car.

Choose “Installation of Camera”: If the car has no camera and has to be installed with newly-added camera, the display screen will show the video directly shot by the camera when you are backing

your car.

Choose “no camera”: If the car is not equipped with any camera, nothing will be shown on the display screen.

VI. Original Car GPS Setup



Click “Original Car GPS Setup” to enter its interface. Picture is shown as follows:



When choose “Original Car GPS”: The car has its own navigation settings. Click the icon of

Navigation function to enter "Original Car GPS".

Choose "Installation Of GPS": the car has no navigation and need to be installed with this multi media navigation system. Click the icon of navigation function to enter the Installation Of GPS.

VII. Time Setup



Click "Time Setup" to enter its interface. Picture is shown as follows:



Set the month, date, year, hour and minute one by one. "▲" means up and "▼" means down. You can set the time zone by left key and right key.

VIII. Original Car Sound Setup



Click "Original Car Sound Setup" to enter its interface. Picture is shown as follows:



When you want to connect to the car's self-contained stereo system, press "MEDIA" to switch to this system. The sound will come out from the car's own car's own stereo system.



If you don't want to connect to the car's self-contained stereo system, press the upward side of the touch screen for 3 seconds to switch to this system. The sound will come out through voice speakers.

5. Technical Parameters

Technical Parameters	
Basic Frequency	533MHZ
Master Chip Model	SAMSUNG S3C2450XH-53
Memory	64 MB
Memory Space	128MB
Navigation Software Storage	SD CARD
Operation System	WINCE 5. 0NET
Software Compilation Type	ARMV4I

Bluetooth Parameters	
Protocol Specification	V1.2
Output Power	Class 2
Chip Set	CSR BLUE CORE 3
Hands Free Type	Full-duplex mode
Hookup Distance	3m (associated to the mobile phone)
Basic Parameters	
Sound Output	CD quality with dual channel
Sound Power	Dual channel 3.1W/chanel or single channel 7.5W
Weight	About 300g
Product Size	154mm (length), 104mm (width) and 23mm (height)
Working temperature	Between -10℃ and +60℃
Storage Temperature	Between -20℃ and +70℃
Working Humidity	Between 45% and 80%
Storage Humidity	Between 30% and 90%
Control Voltage	DC12V
Average Power	3W
Standby Power	180mW
ACC Reactive Power	<12mW

GPS Parameters

Chip Set	SIRF Star III
Frequency	L1,1.575GHZ
Positioning Accuracy	10m,2D RMS 5m,2D RMS,WAAS enable
Tracking Sensitivity	159dBm
Recapture Time	Average 0.1S
Hot Start Time	Average 1S
Warm Start Time	Average 38S
Cold Start Time	Average 42S
Maximum Speed	515m/s
Antenna Gain	27dB
Antenna Voltage	3.3V±5%DC
Antenna Current	15mA

6. List of fittings

Standard Fitting	
Name	Quantity
Power Connecting Line	1
Display Screen Connecting Line	1
24PIN AV Connecting Line	1
22PIN DVD Connecting Line	1
GPS Antenna	1
Speaker	1
Mic Wire	1
Touch Screen	1
Touch Screen Connecting Line	1
Touch Pen	1
Product Description	1
Backup Control Box	1
Optional Fitting	
DVD Connecting Line	1
Single piece of DVD	1

7. Trouble Shooting

Please compare the possible reasons that cause machine problems with the following tablet before sending the machine for repair. The problems may be solved and the machine may resume normal operation if you check or adjust the machine by taking the relevant countermeasures. If the problems fail to be solved under the instruction of the following countermeasures, contact our company or our maintenance service centre.

Problem	Possible Reason	Countermeasure
The navigation shows no indication that the indicator light is power-cut.	The protective tube is burnt out	Replace the protective tube
	Connecting line gets loose	Reconnect the line
If GPS navigation becomes soundless	The system is set to mute.	Unmute the system.
	The speaker line is not yet connected.	Reconnect the line
	The speaker is damaged.	Replace the speaker.

Problem	Possible Reason	Countermeasure
No signal	In a place where there is no signal or the signal is hard to receive because of the buildings	Change to open space
	GPS antenna is not yet connected.	Reconnect the antenna
	GPS antenna is damaged.	Replace the GPS Antenna
Bluetooth hands-free doesn't work	Not match up with the host machine	Rematch the host Machine
The touch screen does not work or is slow in reaction	The touch coordinate deviates.	Recalibrate the touch Coordinate
	The control system of the host machine goes wrong.	Press the reset key to restart the machine
Backup doesn't Work	The back-up line is not connected or connects wrongly.	Reconnect
	Settings goes wrong	Reconnect
The disk enclosure can't be operated or can't play music or video.	The disk enclosure settings goes wrong	Reset the disk enclosure
	The connecting line is not connected.	Reconnect the line