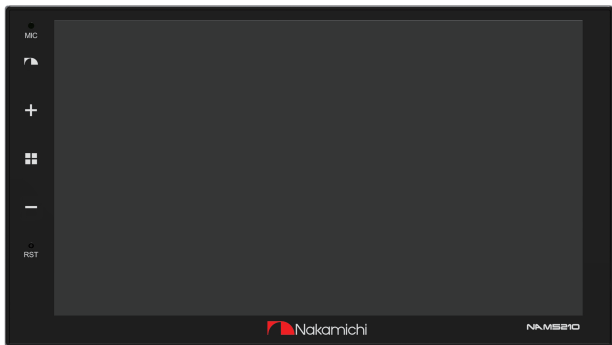




NAM5210

User Manual



7" TOUCH LCD SCREEN

Nakamichicaraudio.com

 [Nakamichi.Global](https://www.facebook.com/Nakamichi.Global)

 [Nakamichi.caraudio](https://www.instagram.com/Nakamichi.caraudio)

Dear Customer

Congratulations on purchasing our Nakamichi mobile system product for your sound system.

This product has been designed and manufactured to Nakamichi's exacting standards to ensure many years of audio enjoyment. For the best performance, we recommend that you have your Nakamichi product installed by an authorized Nakamichi dealer.

If you would like to install this product on your own, we recommend for you to go through this manual to familiarize yourself with all the installation requirements and procedures.

If you encounter any issues or if you have any questions on the operation of this product, please contact your nearest authorized Nakamichi dealer for assistance, or you may also contact us through our website or social media channels.

Installation Of Your Product

In today's modern vehicles, it is very easy to cause damage to existing systems through improper installation. Please follow and scrutinize all wiring diagrams to ensure that you have connected everything in its proper place. If you find yourself uncomfortable or unfamiliar with understanding the wiring and installation diagrams or testing instructions, do contact your nearest Nakamichi dealer to perform the installation for you.

Safety Warnings And Considerations (For Amplifier / DSP / Active Woofer)

- Clean only with a dry cloth or other similar materials.
- Install your product in a dry, well-ventilated location that does not interfere with your vehicle's safety equipment.
- Do not block any ventilation openings when installing this product.
- Do not mount the product in the engine compartment of your vehicle or in any areas of extreme heat such as mufflers, silencers, exhaust pipes
- Or other heat producing apparatus.
Securely mount the product so that it does not come loose in the event of a collision or as a result of repeated vibrations that might occur
- During normal operation.
Installation of the apparatus must be done with great care to prevent damage to your vehicle's fuel lines, power, and other electrical wiring, Hydraulic brake lines, and other systems. If possible always visit your
- Nearest Nakamichi dealer to perform the installation.
Do not run any wiring outside or underneath the vehicle. Keep all wires inside the vehicle.

- Take the necessary precautions when making connections to the vehicle's battery to avoid any potential shock.
- Protect all system wires from sharp edges by carefully routing them, always use rubber grommets to protect wiring and cables whenever you are installing them through metal openings.
- Secure all wiring using cable ties or wire clamps to protect them from moving parts and sharp edges.
- This apparatus shall not be exposed to dripping or splashing, and no object filled with liquids, shall be placed on the apparatus. Refer all servicing to qualified service personnel. Servicing is required
- When the apparatus has been damaged in any way, such as the power input terminals are damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Fuses shall be replaced only with the correct type and fuse value, and only when the apparatus is powered off.
- Exposure to high sound pressure levels may lead to permanent hearing loss. Take every precaution to protect your hearing.
- This product is designed specifically for use with 12 volt, negative-Ground electrical systems only. Using this product in systems with positive ground and/or voltages other than 12V may result in damage to the product and your system.

Warranty Considerations

Nakamichi warrants this product to be free of defects in materials and workmanship for a period stated by your country's authorized Nakamichi distributor. This warranty is not transferable and applies only to the original owner who has purchased from an authorized Nakamichi dealer.

Should service be necessary under this warranty for any reason due to manufacturing defect or malfunction, Nakamichi will (at its discretion), Repair or replace the defective product with new or remanufactured product at no charge. Damage caused by the following is not covered under warranty: accident, misuse, abuse, product modification or neglect, failure to follow installation instructions, unauthorized repair attempts, misrepresentations by the seller.

This warranty does not cover incidental or consequential damages and does not cover the cost of removing or reinstalling the unit(s). Cosmetic damage due to accident or normal wear and tear is not covered under warranty.

Warranty is void if the product's serial number has been removed or defaced.

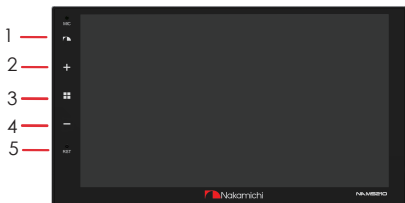
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INTRODUCTION OF TOUCH KEY FUNCTION

ACCESSORY LIST

- 1、 Power Cable ----- 1 PC
- 2、 20P-RCA Wire----- 1 PC
- 3、 4P-USB Wire ----- 1 PC
- 4、 6P-USB Wire ----- 1 PC
- 5、 Rear View Interface Wire ----- 1 PC
- 6、 GPS antenna----- 1 PC
- 7、 User Manual ----- 1 PC



1. Power: Press this button to power on/off the device.
2. Volume+: Short press to increase volume. long press to increase volume continuously.
3. Home: Press to enter home menu.
4. Volume-: Short press to decrease volume. long press to decrease volume continuously.
5. Reset: System Reset

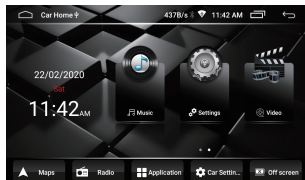
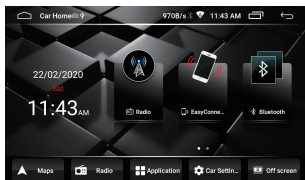
FUNCTIONAL APPLICATION

SAFETY INSTRUCTIONS

1. In order for safe driving and to avoid violating any traffic regulations, please do not watch any videos and do not operate the unit while driving.
2. In order to avoid short circuiting the unit, please do not expose the unit to rain or any other source of water.
3. In order to avoid short circuiting the unit, please do not expose the unit to any bare metal during installation.
4. Do not attempt to dismantle the unit for maintenance, all service and maintenance should be performed by an authorized service centre or technician.
5. When the engine is turned off, avoid using the unit for an extended period of time as this might drain the car's battery.
6. Wipe the screen carefully! Do not use sharp objects to push against the screen.

HOME MENU

Upon booting, the unit will enter to home menu, as shown below.



FUNCTIONAL APPLICATION

THE FUNCTIONS ARE AS FOLLOWS:



: Click to enter radio interface.



: Click to enter EasyConnection interface.



: Click to enter bluetooth interface.



: Click to enter music interface.



: Click to enter settings interface.



: Click to enter video interface.



: Click to enter Google map interface.



: Click to enter radio interface.



: Click to view all the applications.



: Click to enter car settings interface.



: Click to turn off screen.

FUNCTIONAL APPLICATION

RADIO

Touch "Radio" in home menu to enter radio interface.

Touch [] icon can return to home menu.

Touch [] icon to switch band FM/AM.


Touch [] icon to search for stations automatically.


Touch [] icon to select a local or remote station.

Touch [] icon to input specific station.

Touch [] icon to open RDS.


Touch [] icon to set the audio effect.

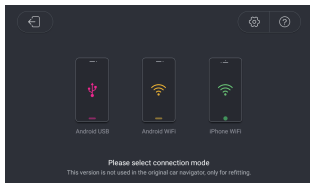
Long press [] for 2 seconds to searching stations by upward , if one station is found will stop searching automatically, press this icon to fine-tune by upward.

Long press [] for 2 seconds to searching stations by downward , if one station is found will stop searching automatically, press this icon to fine-tune by downward.



EasyConnection

Press  to enter EasyConnection, the mobile phone can be connected to the in-vehicle infotainment device through Android USB, Android Wi-Fi and iPhone Wi-Fi.

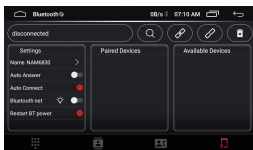


FUNCTIONAL APPLICATION

BLUETOOTH

After connecting your mobile phone to your unit using Bluetooth, you will be able to make phone calls and play music.

Press the Bluetooth icon to enter the Bluetooth interface.



Touch [🔍] to search Bluetooth devices.

Touch [🔗] to connect the currently selected Bluetooth device.

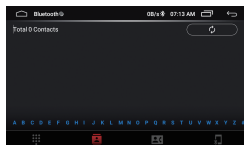
Touch [🗑️] to disconnect the currently Bluetooth device

Touch [🗑️] to delete a paired device.

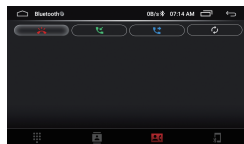
Dial Phone



Phone book



Call log



FUNCTIONAL APPLICATION

SETTINGS

Touch "Settings" icon from home menu to enter below picture:



1. Network & Internet

Wi-Fi: Press the button on the right of the Wi-Fi to turn on. After turning on the Wi-Fi, if there is a Wi-Fi network available around device, it can be searched in the list, press the name of the WLAN need to connect, and enter the password to connect.

2. APP: to view all the installed apps.

3. Storage: to check device storage and storage used.

4. Security & Location: to turn on or off location function, choose location mode, check App location permissions etc.

5. Users & accounts: to manage user accounts.

6. Accessibility: to enable your installed accessibility applications and adjust related settings.

7. Google: to set the parameters related to Google setting of services & preferences.

8. Car settings: It can be used for steering wheel control learning, reverse auxiliary line switch setting, etc. Check "Car Settings" for details.

9. System

a. Language and Input.

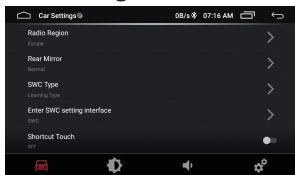
b. Date and time: it can select GPS or network to automatically determine the time and date. It allows to customize the setting date, time, time zone and time display format.

c. Reset options: can be restored to factory settings.

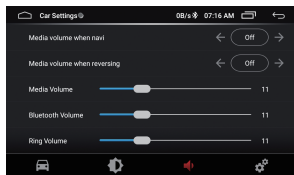
d. About Car: check the system software version, MCU software version, android version, model, etc.

FUNCTIONAL APPLICATION

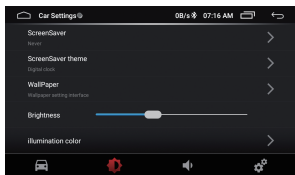
Car Settings



Click options can choose settings.

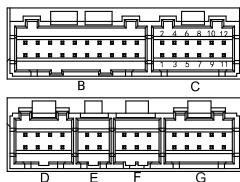
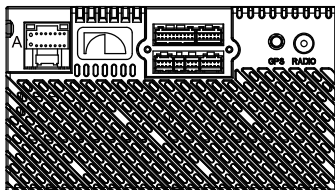


Click options can choose settings about volume and sound.



Click options can choose settings about display screen & brightness etc.

WIRE CONNECTION



- A--Power
- B--AV
- C--Extend
- D--Can bus
- E--4P USB
- F--6P USB
- G--Camera

A: Power

Label	Color	Name
GND	Black	Ground wire
BATT+	Yellow	Battery wire
ACC	Red	Ignition wire
ILLUMI	Orange	Lamp control wire
REVERSE	Green/White	Reverse wire
SWC1	Yellow/White	Steering wheel control wire 1
SWC2	Orange/White	Steering wheel control wire 2
P.ANT	Blue	Automatic antenna
FR-	Gray/black	Front right speaker-
FR+	Gray	Front right speaker+
RL-	Green/Black	Rear left speaker-
RL+	Green	Rear left speaker+
FL-	White/Black	Front left speaker-
FL+	White	Front left speaker+
RR-	Purple/Black	Rear right speaker-
RR+	Purple	Rear right speaker+

B: AV

Label	Color	Name
AV IN VIDEO	Yellow	Video input
AV IN L	White	Left audio input
AV IN R	Red	Right audio input
VIDEO OUT 1	Yellow	Video output 1
VIDEO OUT 2	Yellow	Video output 2
LINE OUT FRONT L	White	Front Left audio outPut
LINE OUT FRONT R	Red	Front Right audio output
LINE OUT REAR L	White	Rear Left audio outPut
LINE OUT REAR R	Red	Rear Right audio output
LINE OUT SUBWOOFER	Brown	Subwoofer output
PWR CON	Red	Power amplifier control

G: Camera		
Label	Color	Name
CAMERA-R	Yellow	Reverse camera input
PARKING	Brown	Brake control

C:Extend

Pin	Name	Pin	Name
1	Ground	7	Audio Left input
2	+12V output	8	RXD
3	NC	9	NC
4	NC	10	NC
5	Audio Right input	11	Ground
6	TXD	12	Video input

TECHNICAL PARAMETERS

SPECIFICATIONS

Voltage:14.4V(10.5-16V)
Working Temperature:-10℃-+70℃
Storage Temperature:-20℃-+80℃
Net Weight:458g

TFT DISPLAY

Display Size:7.0"
Display Resolution:1024x600
Contrast Degree:500

RADIO

FM Frequency Modulation
FM Range:87.5-108.0MHZ
AM FM Range:522-1620KHZ

VIDEO FORMAT

H264/MP4/AVI/MKV/FLV

AUDIO FORMAT

MP3/APE/AAC/FLAC

USB INTERFACE

USB:Readable/Chargable
(5±0.25V/1A)

VIDEO

External Video Input System:
NTSC/PAL/SECAM
External Video Input:1VP-P/75Ω

AUDIO

Maximum Power:4x50W
Front Output(V):4V/10KΩ
Pre-Output Impedance:≤600Ω
Speaker Impedance:4-8Ω

BLUETOOTH

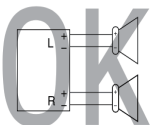
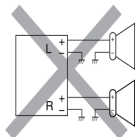
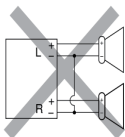
Communication System:BT4.0 +EDR
Output: Bluetooth Standard Power
Level 2 Maximum Communication
Range:About 5 Meters.
Band:2.4G

COMMON TROUBLESHOOTING GUIDELINES

FAULT	REASON	SOLUTION
Unable to boot	Power supply fuse burned out	Replacement of the same type of fuse
	Other factors cause microprocessors to work abnormally	Reboot by pressing the reset hole on the panel with the pointed object point
When the ignition switch is turned off, all the information of setting is lost.	Replacement of batteries or fuses	Replace batteries or fuse and enter settings again.
The radio is ineffective	Weak radio signal	Try again by moving the car to another location
	Failure to connect radio antennas leads to weak signals	Connect the antenna and try again.
No image	Other factors cause microprocessors to work abnormally	Reboot by pressing the reset hole on the panel with the point of the pointed object
Silent output	Small voice	Increase the volume required
	Output line incorrectly connected	Check Output Line Connection

Do not connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.

BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.



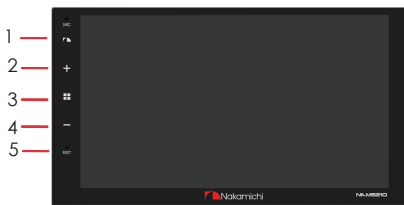
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觸摸按鍵功能介紹

附件清單

- 1、電源線-----1條
- 2、20P-RCA線-----1條
- 3、4P-USB線-----1條
- 4、6P-USB線-----1條
- 5、倒車後視接口線-----1條
- 6、GPS天线-----1條
- 7、用戶手冊-----1本



- 1、電源鍵：按下此按鍵開關機
- 2、音量+：短按可增加音量，長按音量不斷增大
- 3、主頁菜單：按下進入主菜單
- 4、音量-：短按可減小音量，長按音量不斷減小
- 5、復位鍵：按下進入系統重置

功能應用

功能應用

安全說明

- 1、使用本機前請閱讀說明書，不遵守說明書所造成的損壞將不享受保修。
- 2、為了安全駕駛並避免違反交通規則，請勿在駕駛時觀看程序並操作本機。
- 3、為避免短路，請勿將設備暴露在雨中。
- 4、為避免短路，請勿將設備或任何遺留的金屬物品放入。
- 5、請勿自行打開機器進行維修，請到專業維修站進行維修。
- 6、發動機關閉時，請勿長時間使用汽車音響，否則電池可能會耗盡。
- 7、請勿在設備的通風口和其他開口處插入任何物品。
- 8、小心擦拭屏幕！不用使用尖銳的物體推，擦，劃屏幕。

主菜单

第一次開機默認進入主菜單，如下圖所示



功能應用

功能如下：



：點擊進入收音機界面



：點擊進入億聯界面



：點擊進入藍牙界面



：點擊進入音頻界面



：點擊進入設置界面



：點擊進入視頻界面



：點擊進入谷歌地圖界面



：點擊進入收音機界面



：點擊查看所有安裝應用



：點擊進入汽車設置界面





：點擊熄滅屏幕

功能應用

收音機


觸摸主菜單中的“收音機”進入收音機界面。

觸摸 [] 圖標，可返回主菜單。

觸摸 [] 圖標，可切換FM/AM。


觸摸 [] 圖標自動搜索電臺。


觸摸 [] 可以打開/關閉LOC功能。

觸摸 [] 可以打開鍵盤輸入頻點。

觸摸 [] 可以打開RDS。

觸摸 [] 進入音效設置。

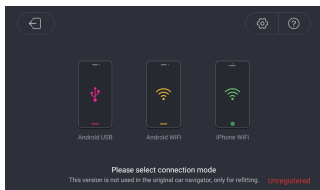
長按2秒向上 [] 搜索電臺，如果找到壹個將自動停止搜索，按此圖標向上微調。

長按2秒向下 [] 搜索電臺，如果找到壹個將自動停止搜索，按此圖標向下微調。



億聯

觸摸  進入億聯，手機可以通過Android USB、Android Wi-Fi 和 iPhone Wi-Fi連接車載設備。



功能應用

藍牙

本系統支持手機藍牙連接，連接藍牙後，可實現撥號/接聽/電話簿/音樂播放等功能
觸摸藍牙圖標進入藍牙界面。

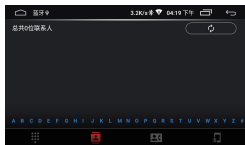


- 觸摸 [🔍] 搜索藍牙設備
- 觸摸 [🔗] 連接當前選擇的藍牙設備
- 觸摸 [🔌] 斷開當前的藍牙設備
- 觸摸 [🗑️] 刪除配對的設備

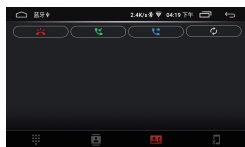
撥打電話



電話簿



通話記錄



功能應用

設置

主界面觸摸“設置”圖標進入以下界面



1、網絡和互聯網

Wi-Fi: 按下Wi-Fi右邊的按鈕就可以打開。打開Wi-Fi後，如果設備周圍有可用的Wi-Fi網絡，可以在列表中搜索，按下需要連接的WLAN名稱，並輸入連接密碼。

2、查看所有安裝應用。

3、內存：查看設備的內存和使用情況。

4、安全性和位置:打開或關閉定位功能，選擇定位模式，檢查應用程序的定位權限等。

5、用戶和帳戶:管理用戶帳戶。

6、可訪問性:啟用已安裝的可訪問性應用程序並調整相關設置。

7、谷歌:設置與谷歌相關的服務和參數設置。

8、汽車設置:可用於方向盤控制學習，倒車輔助線開關設置等。詳見汽車設置。

9、系統

a.語言和輸入

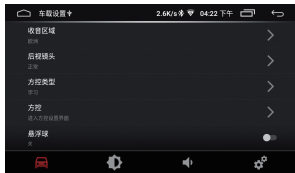
b.日期和時間:可選擇GPS或網絡自動確定時間和日期。它允許自定義設置日期、時間、時區和時間顯示格式。

c.重置選項:可以恢復到出廠設置。

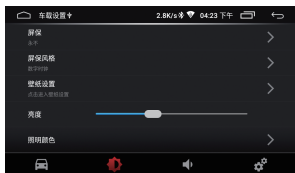
d.關於汽車:檢查系統軟件版本，MCU軟件版本，android版本，型號等。

功能應用

汽車設置



單擊選項可以選擇設置。

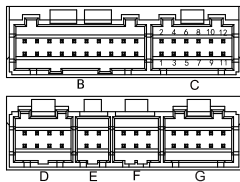
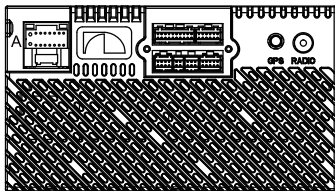


点击选项可以选择显示屏幕和亮度等设置。



點擊選項可以選擇音量和聲音的設置。

線材鏈接



- A--电源
- B--AV
- C--扩展
- D--CAN协议盒
- E--4P USB
- F--6P USB
- G--摄像头

A: 摄像头

標簽	顏色	名稱
GND	黑色	地线
BATT+	黄色	电瓶B+
ACC	红色	打火ACC
ILLUMI	橙色	大灯控制
REVERSE	绿色/白色	倒车线
SWC1	黄色/白色	SWC1
SWC2	橙色/白色	SWC2
P. ANT	蓝色	自动天线
FR-	灰色/黑色	前右喇叭-
FR+	灰色	前右喇叭+
RL-	绿色/黑色	后左喇叭-
RL+	绿色	后左喇叭+
FL-	白色/黑色	前左喇叭-
FL+	白色	前左喇叭+
RR-	紫色/黑色	后右喇叭-
RR+	紫色	后右喇叭+

B: AV

標簽	顏色	名稱
AV IN VIDEO	黄色	视频输入
AV IN L	白色	音频输入L
AV IN R	红色	音频输入R
VIDEO OUT 1	黄色	视频输出1
VIDEO OUT 2	黄色	视频输出2
LINE OUT FRONT L	白色	前左音频输出
LINE OUT FRONT R	红色	前右音频输出
LINE OUT REAR L	白色	后左音频输出
LINE OUT REAR R	红色	后右音频输出
LINE OUT SUBWOOFER	褐色	重低音输出
PWR CON	红色	功放控制

G: 摄像头

標簽	顏色	名稱
CAMERA-R	黄色	摄像头输入
PARKING	褐色	刹车控制

C: 扩展

Pin	標簽	Pin	標簽
1	地线	7	音频输入L
2	+12V输出	8	UART-RXD
3	NC	9	NC
4	NC	10	NC
5	音频输入R	11	地线
6	RART-TXD	12	视频输入

技術參數

常規

電壓：14.4 (10.5-16V)
工作溫度：-10°C-+70 °C
儲存溫度：-20°C-+80 °C
淨重：458g

TFT顯示器選項

顯示器尺寸：7.0寸
顯示分辨率：1024*600
對比度：500

收音機選項

FM調頻範圍：87.5-108.0MHZ
AM調頻範圍：522-1620KHZ

視頻格式

H264/MP4/AVI/MKV/FLV

音頻格式

MP3/APE/AAC/FLAC

USB界面選項

USB：讀取 (可充電5±0.25V/1A)

視頻選項

外部視頻輸入系統：
NTSC/PAL/SECAM
外部視頻輸入：1VP-P/75Ω

音頻選項

最大功率：4x50W
前置輸出(V):4V/10KΩ
前置輸出阻抗：≤600Ω
揚聲器阻抗：4-8Ω

藍牙選項

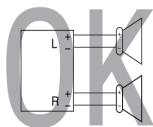
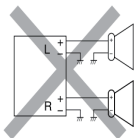
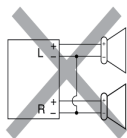
通信系統：BT4.0版 +EDR
輸出:藍牙標準功率2級
最大通信範圍：大概5米
頻段：2.4G

常見故障排除指南

故障	原因	解決方法
不能開機	電源供電保險絲燒壞	更換同型號保險絲
	其他因素造成微處理器工作異常	用尖端物點按面板上的複位孔，重新開機
點火開關關閉後，設置的信息全部丟失	更換蓄電池或保險絲	重新設置信息並保持
收音收臺效果差	電臺信號弱	將車移動到另外一個位置重新搜索
	收音天線未連接好導致信號弱	連接好天線重新搜臺
無圖像	其他因素造成微處理器工作異常	用尖端物體點按面板上的複位孔，重新開機
無聲音輸出	聲音小	加大到所需的音量
	輸出線未正確連接	檢查輸出線連接

電源和揚聲器接線注意事項

切勿把揚聲器導線接頭接至電池，否則本機將會嚴重損壞。
在把揚聲器導線接頭接至揚聲器之前，檢查您汽車上的揚聲器線路。



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文件名 File Name	19CHZ193-IM-V1.1	版次 Revision	V1.1
机型 Project#		比例 Scale	1:1
客户/品牌 Customer		公差 Tolerance	±3mm
尺寸+P数 Size	英文版/中文版, 144*105mm, 共28p	设计 Designer	王瑛英
材质 Material	封面G128双铜	审核 Checked	陈慧文
工艺 technique	内页单黑, 80克书写纸, 打钉	设计日期 Design Date	2020.01.06
注释: Remarks:	描述 Description 封面封底背面为空白页		