

GPS NAVIGATION SYSTEM  
**KNA-G630CN**

## Kenwood Corporation

B54-4794-08

**Failure to avoid the following potentially hazardous situations could result in serious injury or fire.**

When extending ignition wires, battery wires, or ground wires, use automotive-grade wires or other wires with AWG 18 (0.75 mm<sup>2</sup> gauge) or greater to prevent wire deterioration and damage to the wire coating.

If the unit starts to emit smoke or strange smells, turn off the power immediately and consult your Kenwood dealer.

Keep small articles (like screws or batteries) out of the reach of children. If any such object is accidentally swallowed, consult a doctor immediately.

**Failure to avoid the following potentially hazardous situations may result in injury or property damage.**

Be sure to ground the unit to the chassis of your vehicle.

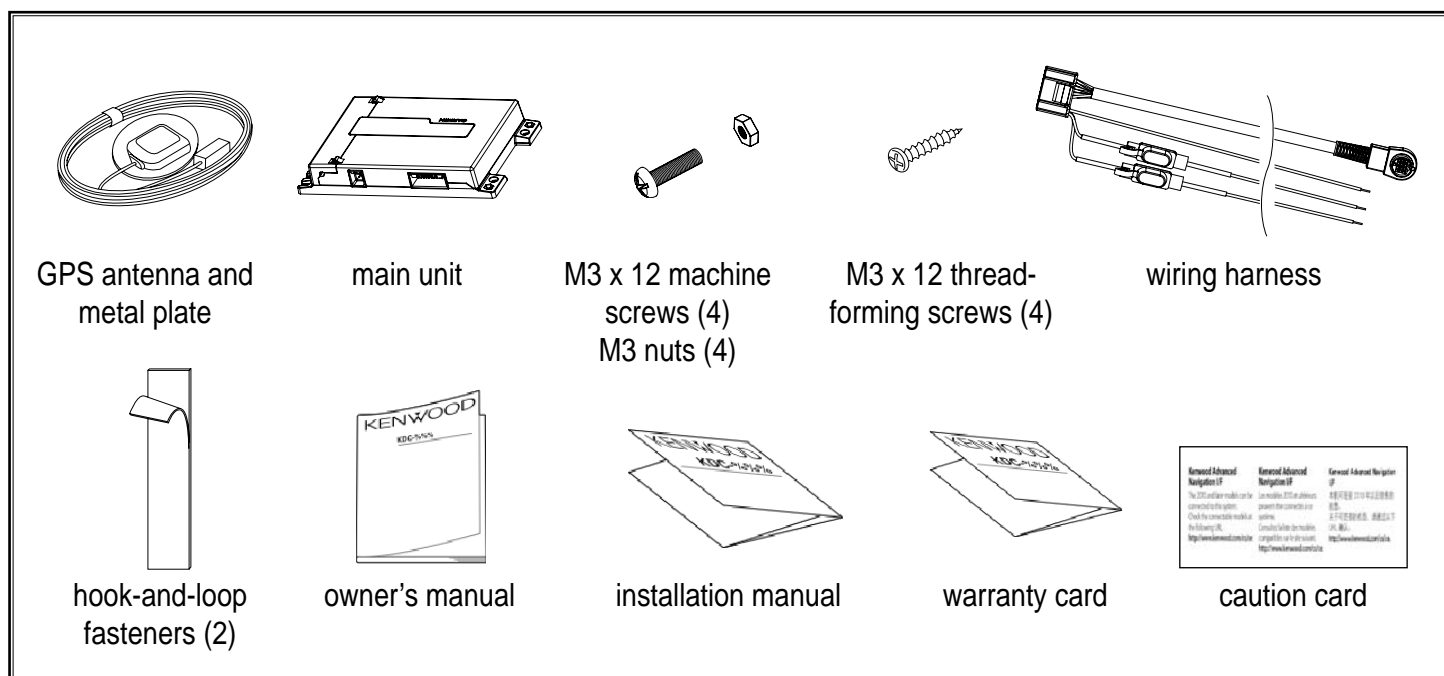
Secure all wiring with cable clamps or electrical tape. Insulate unconnected wires, and do not allow any bare wiring to remain exposed.

Do not let unconnected wires or terminals touch metal on the vehicle or anything else that can conduct electricity.

Do not open the top or bottom covers of the unit.

The KNA-G630CN is not waterproof.

## What's Included



## Installing the Main Unit

Use the screws or the hook-and-loop fasteners provided to mount the main unit in the vehicle. Select a location that allows you to access the SD card slot on the unit.

### ⚠ CAUTION

Do not install the unit where it will be exposed to direct sunlight, excessive heat or humidity, dust, spills, or liquids.

Check for cables or other parts underneath the floor mat before cutting the floor mat.

## Installing the GPS Antenna

### ⚠ CAUTION

Do not paint the antenna. This will impair or disable signal reception.

Remove any object or accumulated snow, etc., from the top of the antenna. It will reduce reception strength.

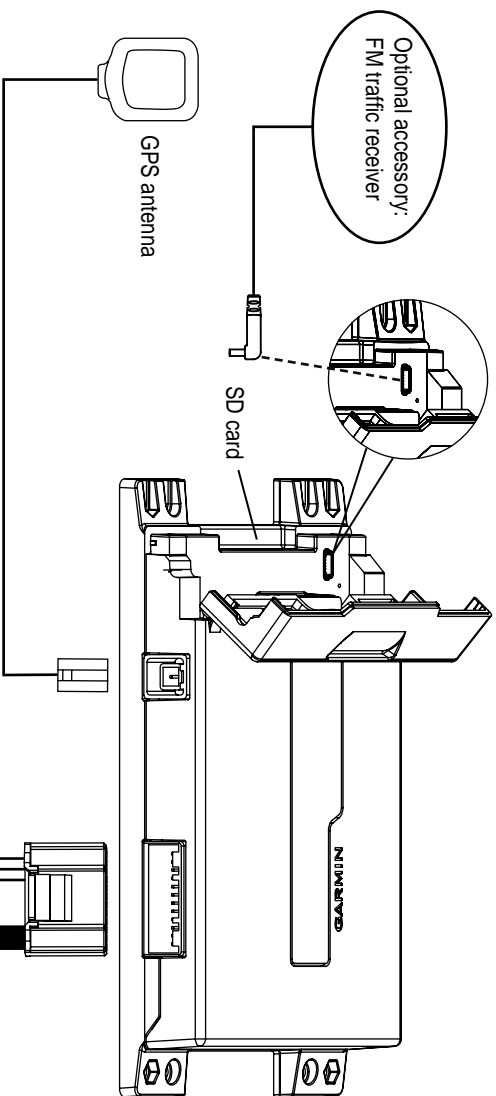
Do not pull the cord when removing the antenna or adjusting its position. This can cause a short or break the wires.

The **permanent** adhesive on the back of the metal plate is extremely difficult to remove after it is installed.

The GPS antenna can be installed either inside or outside the vehicle. It should be placed horizontally for best GPS reception. The GPS antenna must have a clear view of the sky. If you install the antenna inside the vehicle, place it close to a window. GPS signals can pass through glass but not through metal. Refer to the image on the next page for recommended places to install the antenna. Place the GPS antenna on a metallic surface, such as the roof of your vehicle, for best reception. If a metallic surface is not available, mount the GPS antenna on the enclosed metal plate. See the next page for further instructions.

## Installing Optional Accessories

For information on installing the optional FM traffic receiver, refer to the installation guide included with the traffic receiver.



## Steps to Install the KNA-G630CN

1. Remove the key from the vehicle ignition and disconnect the negative battery cable.
2. Install the GPS antenna. Refer to the tips on the previous page.
3. Connect the wiring harness to your vehicle in the following order: ground, battery, ignition.
4. Connect the wiring harness to the main unit.
5. Install the main unit. Refer to the tips on the previous page.
6. Reconnect the negative battery cable.

### ⚠ CAUTION

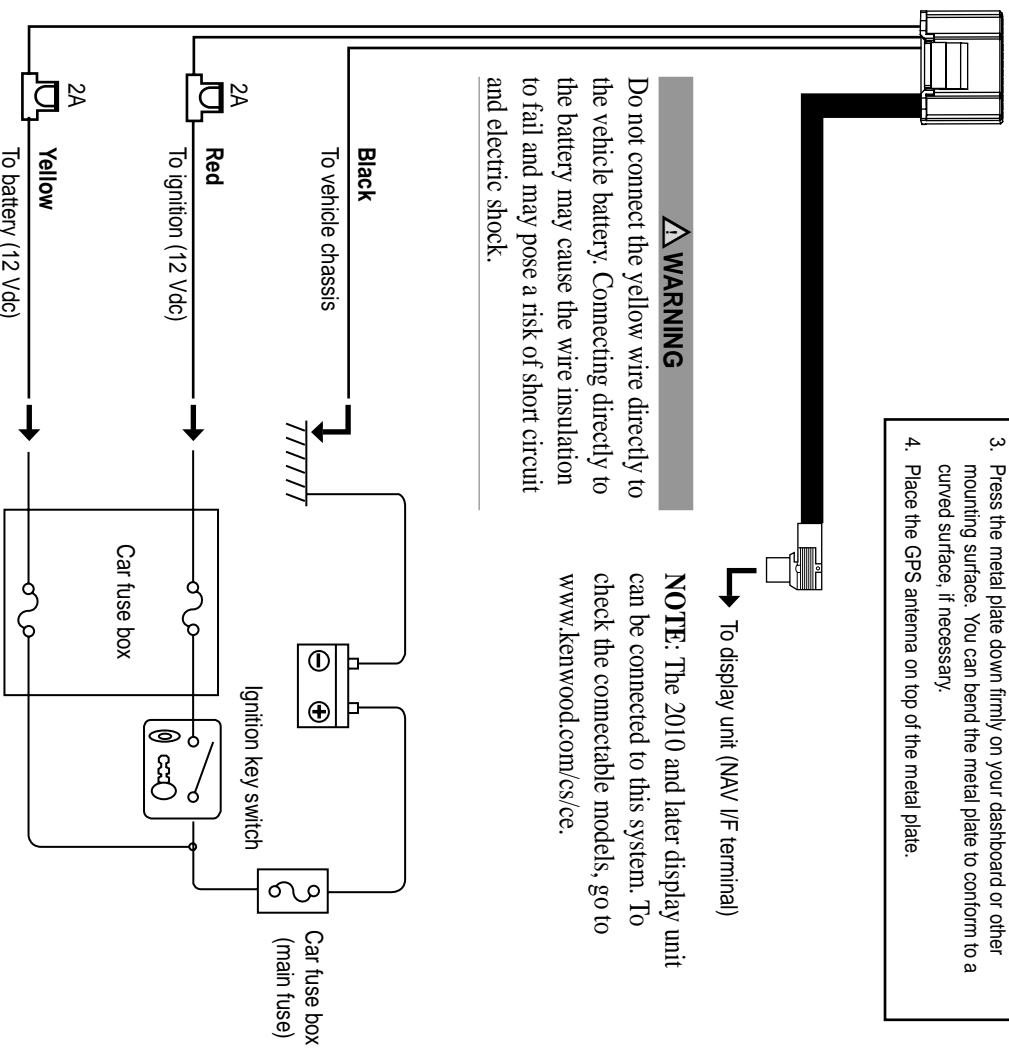
If your vehicle ignition does not have an ACC position, connect the ignition wires to a power source that can be turned on and off with the ignition key. If you connect the ignition wire to a power source with a constant voltage supply, as with battery wires, the navigation system could drain your battery.

### Installing the GPS Antenna

Best (roof of vehicle)  
Good (inside car on dashboard)  
Better (trunk of vehicle)

**To mount the GPS antenna inside your vehicle:**

1. Clean your dashboard or other surface.
2. Peel the backing off of the adhesive on the bottom of the metal plate.
3. Press the metal plate down firmly on your dashboard or other mounting surface. You can bend the metal plate to conform to a curved surface, if necessary.
4. Place the GPS antenna on top of the metal plate.



### ⚠ WARNING

Do not connect the yellow wire directly to the vehicle battery. Connecting directly to the battery may cause the wire insulation to fail and may pose a risk of short circuit and electric shock.

**NOTE:** The 2010 and later display unit can be connected to this system. To check the connectable models, go to [www.kenwood.com/cs/ce](http://www.kenwood.com/cs/ce).

## Acquiring GPS Signals

The first time you turn on the KNA-G630CN, you must wait while the system acquires satellite signals for the first time. This process could take up to several minutes. Ensure that your vehicle is outdoors in an open area, away from tall buildings and trees, for fastest acquisition. After the system acquires satellites for the first time, it will acquire satellites quickly each time thereafter.

## Changing the Fuses

If you need to replace a fuse on the red or yellow wires, to prevent a short circuit, ensure that the wires are not touching. Then replace the old fuse with a new 2 A fuse.

### CAUTION

When replacing a fuse, use only a new fuse with the prescribed rating. Using a fuse with the wrong rating may cause your unit to malfunction. To prevent short circuits, disconnect the wire harness before replacing a fuse.

## Specifications

### General

**Operating Temperature:** From -20°C to 70°C

**Storage Temperature:** From -40°C to 85°C

**Operating Voltage:** 9.5 V to 25 Vdc

**Current Consumption:** 0.16 A typical at 13 Vdc (Max 1.0 A at 13 Vdc)

**ACC off Current:** 70 uA typical at 13 Vdc

**Dimensions:** (W × H × D) 165 × 28.5 × 97 mm

**Weight:** 186 g

**Map Storage:** Internal non-removable memory and optional removable SD card (City Navigator® map data)

**Connectors:** System/power, GPS antenna, SD card slot, Mini-B for optional FM traffic receiver

### Navigation

**Frequency:** 1,575.42 MHz

**Acquisition Times\*:**

**Warm:** < 1 second

**Cold:** < 38 seconds

**AutoLocate®:** < 45 seconds

\*On average for a stationary receiver with an open sky view

**Update Rate:** 1/second, continuous

**GPS Accuracy:**

Position: < 10 meters, typical

Velocity: 0.05 meter/sec RMS

**Antenna:** External GPS antenna requires metal surface 60 × 60 mm or larger, such as a car roof or the included metal plate. A larger metal mounting surface improves GPS reception.

# KENWOOD

GPS 导航系统

## KNA-G630CN

安装手册

Kenwood Corporation



B54-4794-08

### ⚠ 警告

倘若未能避免以下潜在危险情况，可能会造成严重人身伤害或火灾。

请勿擅自安装或维修 KNA-G630CN。未接受有关电子设备或汽车附件安装或维修方面的培训或不具备相关经验就贸然安装或维修本装置可能很危险，且有可能遭受电击或其它风险。

延长点火线、电池线或接地线时，请使用汽车等级电线或 AWG（美国线规）为 18（0.75 mm<sup>2</sup> 量规）或更大的其它电线，以防止电线性能下降和损坏电线涂层。

如果装置在启动时排出烟雾或发出怪味，请立即关闭电源，并咨询 Kenwood 经销商。

将小物件（例如，螺丝或电池）放在儿童接触不到的地方。如果不慎吞咽了此类物件，请立即就医。

### ⚠ 注意

倘若未能避免以下潜在危险情况，可能会造成人身伤害或财产损失。

务必将装置的接地线连在车辆底盘上。

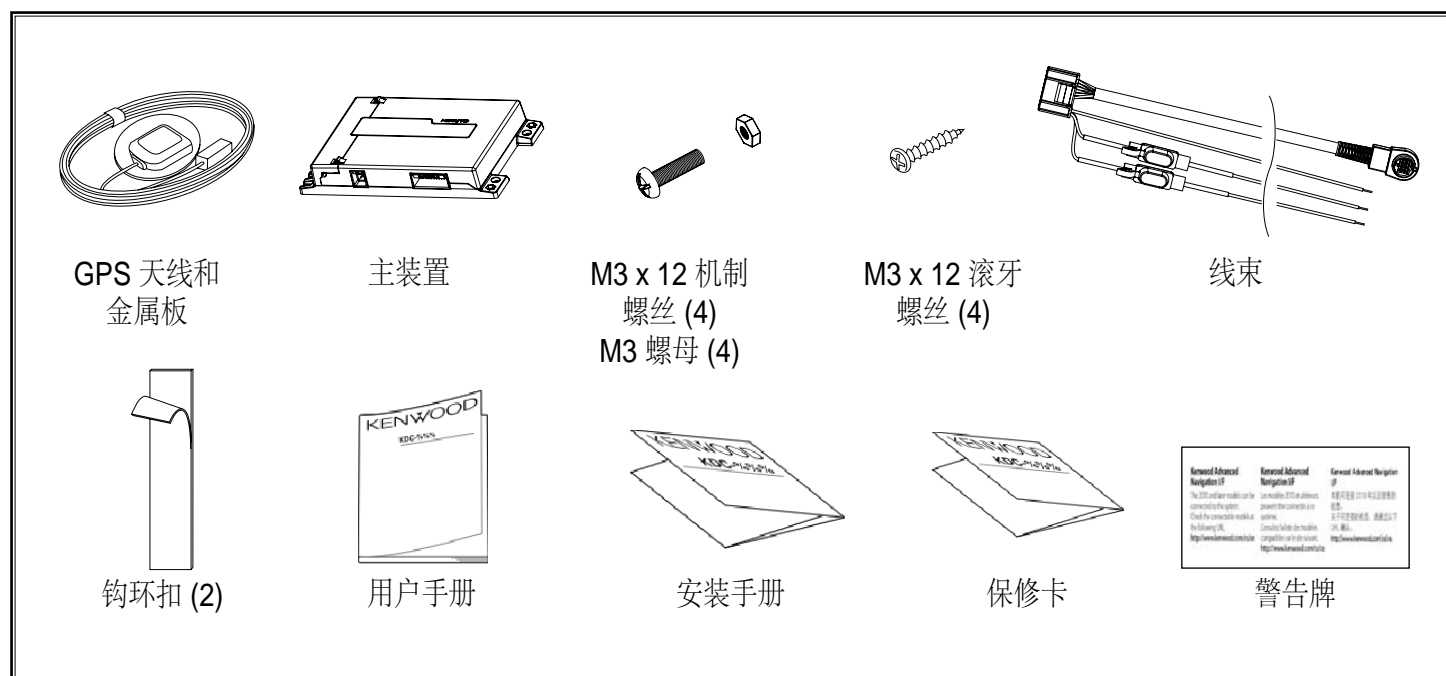
使用电缆夹或绝缘胶带固定好所有连线。将未连接的电线绝缘，不要让任何电线裸露在外。

不要让未连接的电线或端子接触车辆上的金属或任何其它导体。

不要打开装置的上盖或下盖。

KNA-G630CN 不防水。

## 包装盒中的物品



## 安装主装置

使用所提供的螺丝和钩环扣将主装置安装到车辆上。选择可使自己接触到主装置上 SD 卡插槽的位置。

### ⚠ 注意

不要将主装置安装在阳光直射、过热或过湿、有灰尘、泄漏或液体的位置。

切开地毯之前，检查地毯下方是否有电缆或其它部件。

## 安装 GPS 天线

### ⚠ 注意

不要将天线喷漆。这将削弱或妨碍信号接收。

清除天线顶部的任何物体或积雪等。否则会降低所接收的信号强度。

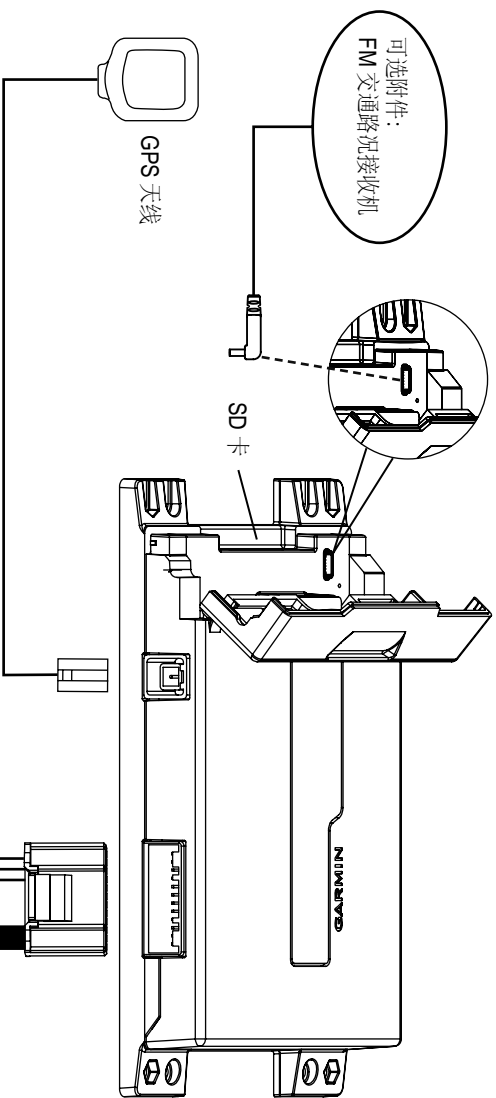
取下天线或调整其位置时不要拉电线。这可能引起短路或损坏电线。

金属板背面的**永久性**安装粘膜在安装后极难去除。

GPS 天线安装在车内或车外均可。只有将其水平放置才能收到最佳 GPS 信号。GPS 天线周围不得有障碍物。如果将天线安装在车内，请使其靠近窗口。GPS 信号可穿透玻璃但无法穿透金属。有关建议的天线安装位置，请参阅下一页上的图像。将 GPS 天线放在金属表面上，例如车顶，以使信号接收效果到达最佳。如果没有金属表面，请将 GPS 天线安装在随附的金属板上。有关详细说明，请参阅下一页。

## 安装可选附件

有关可选 FM 交通路况接收机的安装信息，请参阅其随附的安装指南。



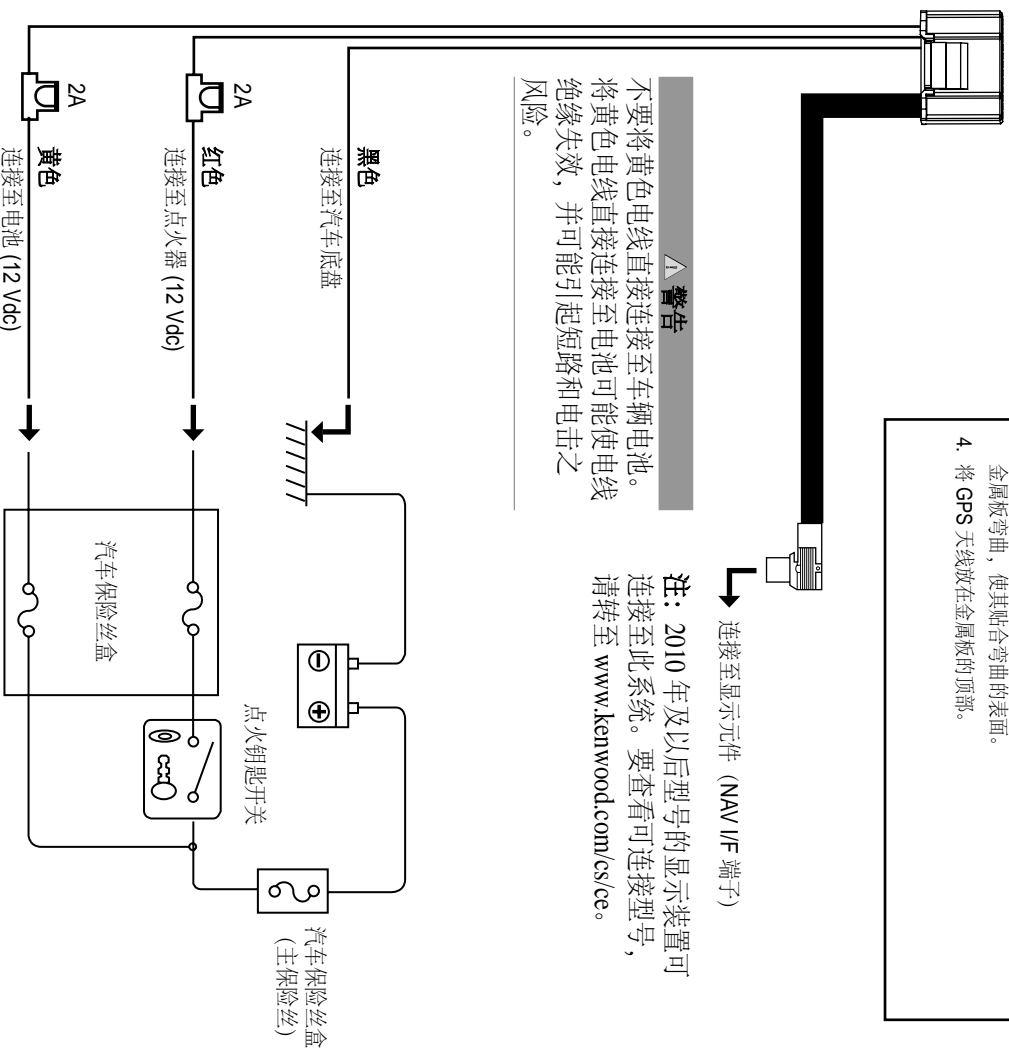
- ### 安装 GPS 天线
- 最佳 (车顶)
- 更佳 (车内行李箱上)
- 较佳 (车内仪表盘上)
- 将 GPS 天线安装在车内:
1. 清洁仪表盘或其它表面。
  2. 撕下金属板底部安装粘膜上的衬纸。
  3. 将金属板紧按在仪表盘或其它安装表面上。如有必要，您可将金属板弯曲，使其贴合弯曲的表面。
  4. 将 GPS 天线放在金属板的顶部。

## KNA-G630CN 安装步骤

1. 从汽车点火器中取出钥匙，断开负极电池电缆的连接。
2. 安装 GPS 天线。请参阅上一页上的提示。
3. 按以下顺序将线束接到车辆上：接地线、电池线和点火线。
4. 将线束连接到主装置。
5. 安装主装置。请参阅上一页上的提示。
6. 重新连接电池负极电缆。

### △ 注意

如果您的车辆点火器没有 ACC 位置，请将点火线连接至可通过点火钥匙打开和关闭的电源。如果将点火线连接至恒定电压的电源，如同连接电池线一样，导航系统可能会耗尽电池电量。



### △ 警告

不要将黄色电线直接连接至车辆电池。将黄色电线直接连接至电池可能使电线绝缘失效，并可能引起短路和电击之风险。

注：2010 年及以后型号的显示装置可连接至此系统。要查看可连接型号，请转至 [www.kenwood.com/cs/cc](http://www.kenwood.com/cs/cc)。

## 获取 GPS 信号

首次打开 KNA-G630CN 时，您必须等待系统首次获取卫星信号。此过程可能需要数分钟之久。确保您的车辆处于户外的开阔区域，四周无高大建筑物和树木，这样才能最快地收到信号。在系统首次获取卫星信号后，以后每次都会很快获取信号。

## 更换保险丝

如果需要更换红色或黄色电线上的保险丝，以防止短路，请确保电线未相互接触。然后，用新的 2A 保险丝更换旧保险丝。

### ⚠ 注意

更换保险丝时，只能使用指定额定值的新保险丝。使用错误额定值的保险丝可能引起装置故障。为了防止短路，更换保险丝之前，请断开线束连接。

## 规格

### 一般信息

操作温度:	-20°C 至 70°C
存储温度:	-40°C 至 85°C
操作电压:	9.5 V 至 25 Vdc
电流消耗:	在 13 Vdc 时通常为 0.16 A (在 13 Vdc 时最大为 1.0 A)
ACC 截止电流:	在 13 Vdc 时通常为 70 uA
尺寸:	(宽 x 高 x 厚) 165 x 28.5 x 97 毫米
重量:	186 克
地图存储:	内部不可移动内存卡或可选的可移动 SD 卡 (City Navigator® 地图数据)
连接器:	系统/电源、GPS 天线、SD 卡插槽及适用于可选 FM 交通路况接收机的 Mini-B

### 导航

频率:	1,575.42 MHz
获取时间*:	
热:	< 1 秒
冷:	< 38 秒
AutoLocate®:	< 45 秒
	*在开阔天空下使用固定接收机所需的平均时间
更新速率:	1/秒, 持续
GPS 精度:	
	位置: < 10 米, 典型
	速度: 0.05 米/秒 RMS
天线:	安装外部 GPS 天线需要 60 x 60 毫米或更大的金属表面, 例如, 车顶或随附的金属板。金属安装表面越大, GPS 信号接收效果就越好。