



**SIRIUS** 

Vehicle Installation Guides

**KPA-H2CFM**

## ***Congratulations***

You are one step closer to experiencing Sirius Satellite Radio. Sirius will revolutionize your in-home or vehicle entertainment with:

- 100 streams of original programming, including
  - 60 streams of completely commercial-free music ? guaranteed.
  - 40 streams of news, sports and entertainment
- Coast-to-Coast reception and Digital-quality sound

All music content is selected and developed in-house by Sirius? team of Master Music Programmers ? talented and seasoned professionals who love the music as much as the listeners. World-class partners such as ESPN, ABC, CNBC, Bloomberg, Discovery and Radio Disney are developing news, sports and entertainment programming.

Your Kenwood H2A must be used with an adapter kit, such as the Kenwood Home kit or Vehicle/Boat Kit as required by your specific installation needs. These kits are available at retailers where Kenwood main units are sold.

Kenwood Home Kit: KPA-H2H

Kenwood Vehicle Kit: KPA-H2CFM (With FM Transmitter)

Kenwood Vehicle Kit: KPA-H2C (Without FM Transmitter)

## ***Cautions and Warnings***

1. Do not install the H2A in a position that hinders your view through the windshield, or obstructs view of the dashboard indicators and displays.
2. Do not install the unit where it may obstruct the operation or deployment of safety devices, such as airbags, etc.
3. Do not allow operation of the unit to detract from safe driving practices; remember that you are responsible as the vehicle operator to adhere to all safe driving and traffic regulations.
4. This equipment may generate or use radio frequency energy. Change or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authorization to operate this equipment if an authorized change or modification is made.
5. By adhering to these warnings and safety considerations, serious accidents and/or personal injury can be avoided.

## ***Installation/Wiring Precautions***

1. To prevent a short-circuit, be sure to turn off the ignition and remove the negative (-) battery cable prior to installation. Connect power wires last.
2. Do not install the unit in the locations exposed to direct sunlight or, in areas subject to extreme temperatures.
3. Incorrect installation may cause damage to the system. Mount the unit firmly in place, using the supplied hardware.
4. Be careful not to damage the vehicle wiring.
5. Be sure to use the supplied screws and washers.
6. Be careful not to snag any wires when tightening screws.

## ***Setting Up and Installing Your Kit***

**NOTE:** The SIRIUS<sup>®</sup> signal can be received and processed virtually anywhere as long as there are no obvious satellite signal obstructions such as nearby buildings, high terrain, parking garages or tunnels.

### ***1. Cabling Interconnections***

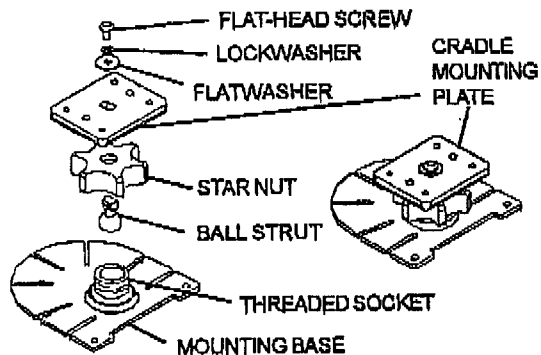
You can begin to enjoy Sirius<sup>®</sup> Satellite Radio as soon as the H2A and Vehicle Kit installation are complete. Set up your Kenwood H2A using the following installation instructions, or enlist the help of a professional installer:

### ***2. Installing the Cradle Mount Base Assembly***

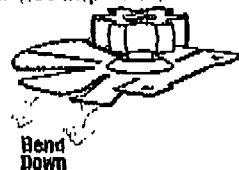
**NOTE:** The fins on the mounting base are pliable and can be bent to conform to most mounting surfaces.

- a. Interconnect all of the components as shown on the adjacent page to verify that the system operates normally.
- b. Locate a firm, reasonably flat surface within your car to permit optimum viewing and line-of-sight access by the supplied remote control unit.

- a. Insert the end of the ball strut into the keyed opening on the cradle mounting plate, and secure the plate to the ball strut using the flatwasher, lockwasher and flat-head screw through the back of the plate.
- b. Reattach the mounting plate assembly to the rear or bottom of the cradle assembly, as desired, using the two flat-head screws removed previously. Installation of the mounting base can now continue.



- c. If the outside air temperature is cold, it may be beneficial to warm the adhesive backing on the base using a portable hair dryer, or by holding the backing surface in front of a vehicle heater vent.
- d. Remove the plastic liner from the adhesive backing on the base, and fix the base in position on the surface; make sure the mounting pad is accurately positioned on the first try, since repositioning may be difficult, if not impossible.



- e. Bend the fins on the base so it conforms to the mounting surface. If the mount is to be screwed in place, do not remove the plastic liner from the adhesive backing. Use appropriate sheet metal or machine screws for this purpose.

### **1. Installing the Cradle Using Double-Sided Tape**

You can mount the cradle directly to your dashboard or other flat surface without using the cradle mount in the kit. To do this, do not remove either of the mounting plate assemblies from the cradle.

- a. Remove the 3/4" x 3" double-sided tape from the supplied kit.
- b. Determine the location of the cradle, and clean the mounting surface as before.
- c. Peel the backing from one side of the tape, and press the tape in place on the rear or bottom cradle mounting plate.
- d. Peel the backing from the exposed side of the tape and carefully position the cradle on the mounting surface, gently pressing the cradle into place.

### **2. Using Other Manufacturer's Mounts**

The H2A Cradle can also be installed using other manufacturer's mounts; the mounting plate provisions on the rear and bottom of the cradle provide you with multiple mounting options within the vehicle using various vehicle-specific aftermarket brackets, such as those purchased separately from Panavise, Pro-Fit, etc.

### **3. Installing the H2A into the Cradle**

The H2A cradle has three retaining clips—one on top and two on the bottom. Place the H2A in the cradle so that the H2A connectors are lined up; use the SAT and TERR RF connectors as guides. Then gently press in on the bottom of the H2A to engage the connectors. The top clip will automatically engage; then slide the two bottom clips back into the locked position. Cradle orientation can be adjusted by loosening the star nut and then tightening it when the cradle is in the desired viewing position.

(Part No. 112C3159) is available and provides a hard-wired FM output when connected to the FM OUT connector on the left side of the cradle; the other end of the switching box plugs into the antenna jack of your radio. By using this assembly, and selecting the appropriate FM output frequency (88.1MHz, 88.3MHz, 88.5MHz or 88.7MHz) with the slide switch, the Sirius signal received at the SAT (MAIN) or TERR, cradle antenna input can be played through your car radio when tuned to one of these frequencies.

#### **6. Sirius Program Listening Options**

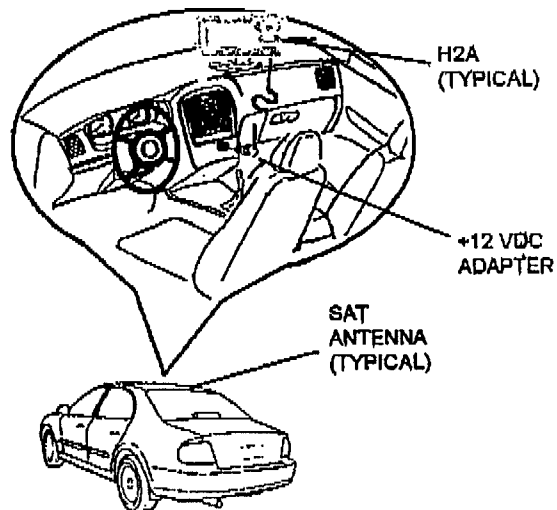
The H2A and Cradle provide an audio output signal in three manners:

1. When using KPA-H2CFM or KPA-H2C, the audio signal can be routed through an audio cable which is applied to the auxiliary inputs of a radio or entertainment system.
2. When using the KPA-H2CFM cradle, the audio signal can be transmitted to a car radio on one of four selectable FM frequencies. The audio signal can then be played through your car radio when the car radio is tuned to one of these frequencies.
3. Some listeners prefer to use a hard-wired FM transmitter. In this instance, when using the KPA-H2C cradle, an optional FM Switching Box assembly

## 7. Mounting the Vehicle Antenna

The antenna should be placed on a relatively flat surface on the vehicle exterior, preferably on the roof (high point) or on the trunk (convertible). To mount the antenna:

- Plug the antenna into the SAT. (MAIN) connector on the back of the cradle.
- Place the antenna at the preferred location on the roof or trunk surface. If the vehicle is equipped with a roof or trunk rack, the antenna may have to be mounted off-center on the surface. The magnet will secure the antenna in the desired position.
- Apply power to the H2A system as outlined in the associated User Guide and obtain an audio output. If no audio is heard, first check the signal strength indicator located on the bottom left corner of the display to ensure the antenna is receiving an optimum signal. If necessary, move the antenna to different positions on the surface until an audio output is heard. This is the desired antenna position and should be marked with masking tape or by another non-scratch method.



- After determining the optimum position, turn off Shuttle power, disconnect the power adapter from the vehicle cigarette lighter receptacle and disconnect the antenna cable.



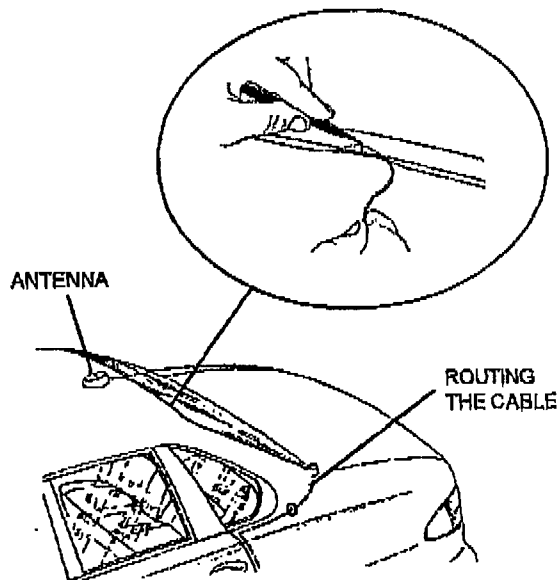
e. Plan the routing of the antenna cable to the H2A RF input. Make sure you avoid any obstructions that could crimp, kink or twist the cable; use protective grommets wherever the rough openings are encountered.

f. Route the cable from the antenna position to the interior of the vehicle, working the cable under the rear window molding; make adjustments and take up slack whenever necessary.

g. At the lowest point of the rear window, route the cable into the trunk, taking advantage of existing cable conduits. Then snake the cable around the passenger compartment to the back of the Sirius cradle.

h. In SUVs, minivans, etc., route the cable into the vehicle under the rubber molding of the hatch door or tailgate, and then under the interior trim.

**NOTE:** Avoid exposing the cable in the driver and passenger areas where it could become entangled in feet or other objects.



- I. Plug the antenna cable into the SAT (MAIN) connector on the back of the cradle; then plug the cigarette lighter adapter into the lighter receptacle. The integral power LED of the power button (🔴) will light red.
- J. You are now ready to enjoy Sirius programming within your vehicle.

**CAUTION:** You could drain the vehicle battery if the cigarette lighter adapter remains plugged in after the ignition is turned off. Unplug the adapter to prevent this possibility.