

SONATA-CAM  
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# NAV-TV

INTERFACING THE FUTURE

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## CAUTION!

FAILURE TO READ THIS MANUAL PRIOR TO  
INSTALLATION MAY RESULT IN A FAULTY  
AIRBAG LIGHT, AN EXPENSIVE TRIP TO THE  
DEALERSHIP, AN UNHAPPY CUSTOMER,  
IMPROPERLY FUNCTIONING EQUIPMENT OR  
ALL OF THE ABOVE.



## SONATA-CAM

Reverse Camera Integration Module for 2011 and up Hyundai Sonata Vehicles  
with factory Navigation. SKU# NTV-KIT295

Protected by U.S. Patent # 7917261

## What's in the Box

1) USB Cable 2) P&P Harnesses 1) SONATA-CAM module



## Required Installation Tools

Plastic Pry Tool  
Electrical Tape  
Butt Connector  
Crimpers  
Phillips Screwdriver  
7mm nut driver



## Required Items NOT provided

- 1) Rear view Camera
- 2) RCA Video cable
- 3) 17' of 18 gauge power wire.

## INSTALLATION

### Radio removal

1. Using a plastic pry tool, gently pry up the 2) vinyl trim panels on either side of the radio leading down the center console.



2. Once removed, this will reveal a screw on either side just below the HVAC trim bezel. Remove these two screws



# WARNING!

Before proceeding to the next steps make sure that either the key is off and out of the ignition or the battery is disconnected. Failure to do this may trip an airbag fault light.

3. Using a plastic pry tool, pry on the upper trim along the outside edge of the shroud containing the HVAC controls to release the clips. Disconnect all the wiring and remove the airbag light button from the structure. **Plug only the airbag light button back into the wiring harness to avoid an airbag fault light.**



4. With the upper trim removed locate the (4) 7mm/Phillips screws (two on each side of the radio) that hold the radio in place. Remove the screws and pull the radio gently out of the dash.



5. Disconnect all wiring from the radio and set it aside in a safe place.



6. Plug the supplied plug-and-play harnesses into the factory wiring harness. Connect a video RCA cable (not provided) into the yellow RCA on the plug-and-play harness labeled "backup camera" and use electrical tape to secure the connection. Using a butt connector and crimpers attach the 18 gauge power wire (not supplied) to the white/red wire and drop both the video RCA and power wire through the opening to the left of the radio all the way down to the floor. Both of these wires will be run to the rear of the vehicle and attached in the trunk lid.



7. Plug the SONATA-CAM module into the 18 pin molex connector and secure the module in the dash with velcro or double sided tape (not provided). Reinstall the radio in the dash.



8. **MAKE SURE THE KEY IS OFF OR THE BATTERY IS DISCONNECTED!!!** Reassemble the airbag light into the factory location and completely reassemble the dash making sure to plug everything in correctly. **The SONATA-CAM WILL NOT WORK IF THE HVAC IS DISCONNECTED SO DO NOT ATTEMPT TO PROCEED UNTIL THE DASH IS FULLY REASSEMBLED!!**



9. Remove the plastic trim pieces on the driver side floor of the vehicle from front to back and run the video RCA and the 18 gauge power wire to the rear of the vehicle following the stock wiring harness. Be sure to avoid moving parts or anything that could cause a short circuit or hazard. Once you have the RCA and power wires in the rear of the vehicle it is time to remove the trunk lid cover. Begin by gently prying up on the handle cover using your soft pry tool. Remove two phillips screws and remove the handle. Remove the plastic clips that attach the trunk lid cover to the underside of the trunk lid and remove the cover. Following the factory wire harness run your RCA and power cable into the trunk lid.



10. Install your rear view camera (not provided) and run the video RCA from the camera and the power wires into the trunk lid. Attach the video RCA from the SONATA-CAM module to the video RCA from the rear view camera. Attach the ground wire from the rear view camera to the BLACK wire at the reverse light three pin plug. Attach BOTH the camera power wire and the power wire from the SONATA-CAM to the BLUE wire at the reverse light in the three pin plug.



11. BEFORE reassembling the rear trunk lid cover, TEST the new reverse camera integration. Start the vehicle and wait for the Navigation system to boot up. A "start up" screen will appear every time the vehicle is started. After the boot up screen disappears place the vehicle into reverse. If you have made all your connections correctly you will now have a reverse camera image on the factory Navigation LCD screen. If you get a reverse camera image on the screen while in reverse you have successfully installed the SONATA-CAM. Reassemble the trunk lid cover and reinstall the driver side plastic trim pieces.

**IF YOU DO NOT GET A REVERSE IMAGE ON THE SCREEN DO NOT CALL TECHNICAL SUPPORT UNTIL YOU HAVE FOLLOWED THE FAQ AND TROUBLESHOOTING SECTION ON THE FOLLOWING PAGE.**

## TROUBLESHOOTING

- Q: "I put the vehicle into reverse but it does nothing"  
A1: Check to make sure that when the vehicle goes into reverse you have 12 volts + on the wire you ran from the white/red wire on the SONATA-CAM module.  
A2: Did you reassemble the HVAC panel fully? If not no image will appear.
- Q: "I put the vehicle into reverse but all I get is a black screen"  
A: Either you have not connected power to the camera or the RCA from the SONATA-CAM to the video RCA from the reverse camera. Check your power and ground connections to the camera and make sure the video RCA is plugged in. If all tests are positive use another video source to check to see if either your camera is bad or the RCA is bad or disconnected at the front of the vehicle. If the screen goes only to a black screen the SONATA-CAM module is functioning properly and you either have a bad camera, connections or RCA cable.
- Q: "My image is grainy and has lines in it"  
A: The use of poor quality RCA cables and reverse cameras can lead to poor video quality. Replace the camera and RCA cable with a high-quality cable and camera and recheck.

## FAQ

- Q: "I start my car and put it into reverse but the reverse camera image is not immediately available"  
A: The vehicle has a "wake up" screen that lasts about 10 to 15 seconds. During that period of time the Navigational unit is actually turning on. This is very similar to your home TV set. Until the Navigation unit is fully awake it cannot display any image.
- Q: "I tried to install the unit this weekend and I stopped because I was scared I might damage something"  
A: NAV-TV recommends professional installation of all their products. We would be happy to refer you to an authorized NAV-TV dealer in your area.

## TECHNICAL SUPPORT

If after FIRST READING THE MANUAL AND PERFORMING THE TROUBLESHOOTING STEPS you still have problems please call our technical support department, Monday through Friday 9a.m - 6 p.m. EST, at 1-866-477-3336 extension 2.