

DELPHI

Delphi Touch Screen Navigation Radio - TNR800



DISCLAIMER – WARNINGS

Purchaser/Installer assumes all responsibility for damages and/or injuries incurred while and after installing this product. Delphi is not responsible for damages resulting from kits installed incorrectly or individuals not following these instructions correctly.

READ ALL INSTRUCTIONS THOROUGHLY BEFORE BEGINNING THE INSTALLATION

Do not attempt to install this radio in any application other than those specified. If you do, there may be radio and vehicle functions that will not work properly.

Items included in the Kit:

- Navigation Radio
- GPS Antenna
- Navigation DVD
- Miscellaneous Installation Hardware
- Owner's Manual

BEFORE YOU BEGIN

- Eject all CD's from the factory radio. If you don't, the customer's CDs may be trapped in the old unit with no way to remove them.
- Set the Parking Brake! If you don't, the vehicle could move during this procedure, causing personal injury or damage to the vehicle.
- Turn the ignition key to the Off Locked: position.

Delphi Touch Screen Navigation Radio Installation Instructions

For 2003-2006 Denali and Escalade EXT & ESV & AMP Conversion..... 3 - 10

Tools needed for the Installation:

- Phillips Head Screwdriver
- Flat Screwdriver or Prying Device
- 7mm, 10mm, Extension and Drive
- Bowl for holding screws

Estimated Installation Time - 1 hour.

For 2003-2006 Non-Class 2 Bose Amp Equipped Chevy and GMC Trucks and SUVs..... 11 - 19

Tools needed for the Installation:

- Phillips Head Screwdriver
- Flat Screwdriver or Prying Device
- 7mm, 10mm, Extension and Drive
- Pliers (needle nose and regular)
- Soldering Iron (if preferred)
- Bowl for holding screws

In addition to the Kit Items listed on the cover of this manual, a VSS Jumper is included for this installation.

Estimated Installation Time - 1.5 - 2 hours.

For Professional Installation Assistance, call 1-877-667-8700

1. Remove the 30 amp fuse from the under hood electrical center.
 - The fuse is located in the bottom right corner of the box if you are standing on the driver's side of the vehicle looking toward the engine (see picture).
 - You can also look on the under side of the lid for location diagram.



2. Disconnect the Battery Negative Cable. **WARNING:** If you don't, the vehicle could accidentally start and move during this procedure and result in serious personal injury, including death.
3. Make sure the parking brake is engaged.
4. Remove Dash Bezel - Gently Snaps Off.
 - Tilt the steering wheel down and put the gear selector into 1st with the engine off.
 - With your fingers, start from the top right corner (corner above the radio - see picture) and gently pull out
 - Continue around the top of the bezel and work to the sides and bottom.

NOTICE: Be careful when removing the bezel over the Emergency Light Switch located on top of the steering column. This can scratch the bezel very easily.

- Put gear selector back into Park.



5. Remove the Radio

- Remove the three screws and hold the radio in place. The screws are the only thing holding the radio in place, so hold the radio once the screws are removed.
- Turn the key to the “On” position (with the engine off) and put the gear selector in 1st.

WARNING - Make sure the parking brake is set. If you don't the vehicle could move and cause personal injury or damage to the vehicle.

- Pull out the radio and disconnect the connections in the rear.

IMPORTANT: Some vehicles may have the wires caught on the dash structure behind the radio. This prevents pulling out the radio and disconnecting the plugs. If your vehicle has this issue, you can access the plugs by going through the AC controls area below the radio. Once the radio is removed, you can maneuver the harnesses releasing it from the dash structure. There is enough wire that allows the plugs to come out even with the front of the dash.

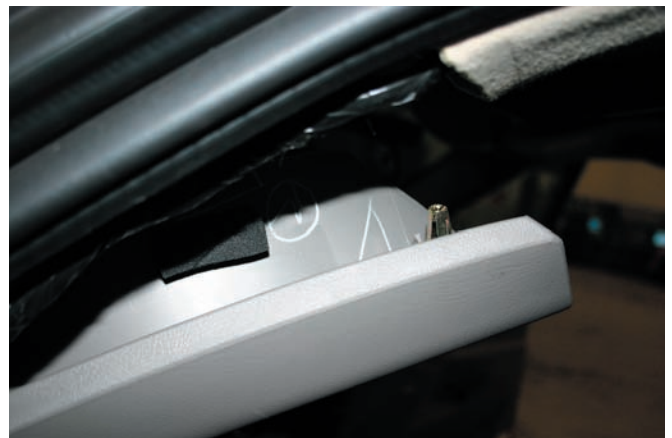
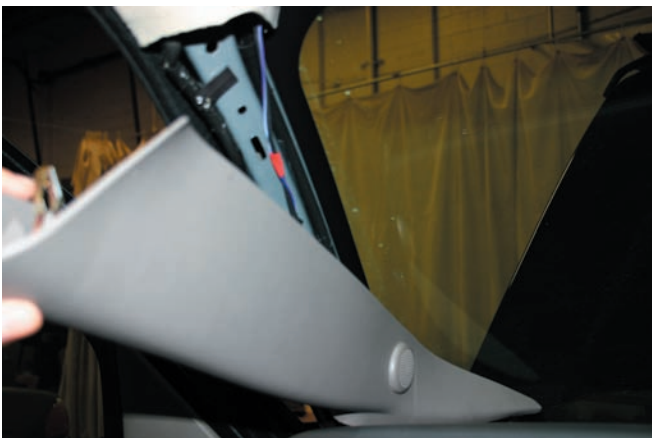
- Coaxial Antenna Lead (pull perpendicular to the radio to remove).
- XM/DVD/AUX plug (12-pin, if equipped).
- Main radio connector (24-pin).



6. Put the gear selector in Park and turn the key to the “Off” position.

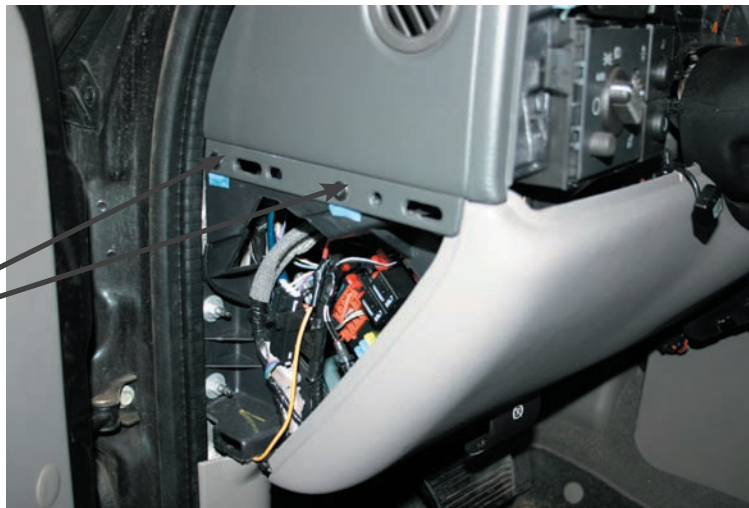
7. Remove the driver and passenger side A-Pillar trim.

- There is only one clip at the top of the trim piece.
- Pull on both sides diagonally away from the pillar.
- You may have to remove part of the weather-stripping from around the door frame to get a good grip on the A-Pillar trim.
- To remove the weather-stripping, pull straight down to the middle of the door frame.



8. Remove the fuse box trim from both sides of the dash.

2 Screws



9. With a flat screwdriver or flat tool, pry out both A/C vents on the passenger's side of the dash.

- Be careful not to scratch the dash trim or break the vent bezels with the prying tool.
- You may want to wrap the tool in cloth to prevent damage to the dash parts.



10. Remove the Passenger Assist Handle.

- Reach inside the A/C vent holes and and press the release tabs on both sides of the handle.
- Pull the handle away from the dash to remove the handle.



Release
Tab

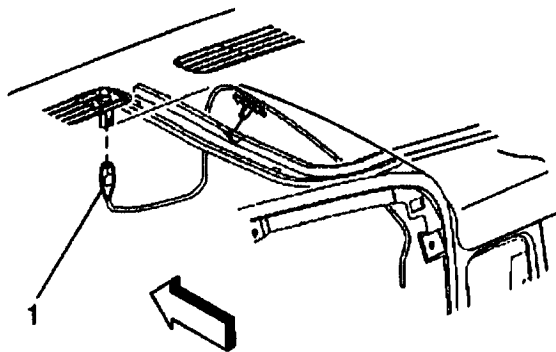
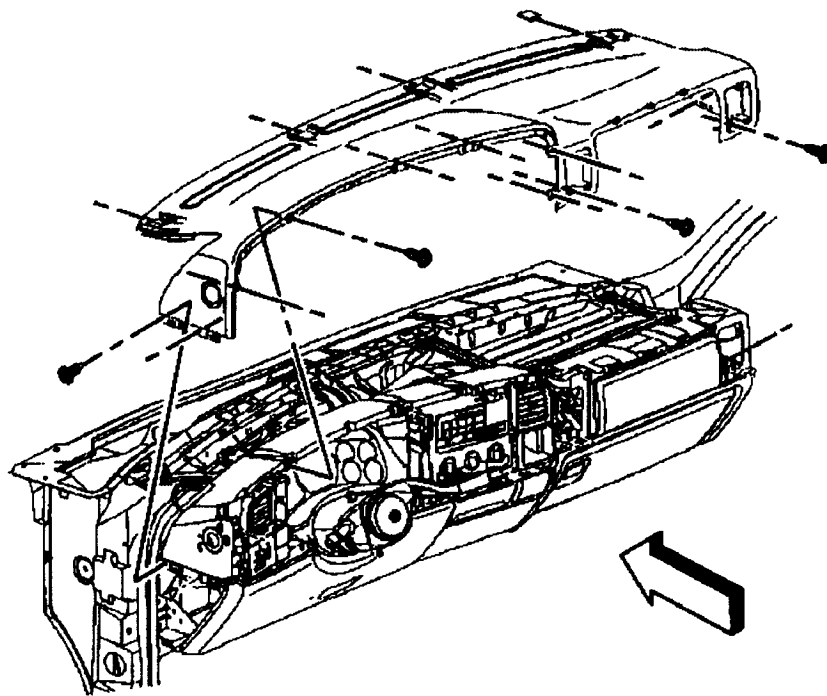


11. Remove the Top Dash Trim.

- Remove two screws from each side of the dash.
- Remove two screws from the passenger A/C vent location.
- Remove remaining screws from the front of the dash trim.
- Release the clips from each side of the dash by pulling out slightly.
- Pull out on the dash trim above the passenger's airbag (there are three clips in this location that must be released before the trim can be removed).
- Lift up the dash trim to disconnect the ambient light sensor.

NOTICE: When lifting up on the dash trim, be careful of the ambient light sensor wiring. There is not much slack in the wiring and it could be torn from the sensor very easily.

- Twist the ambient light housing (1/4 twist) to release the sensor from the dash pad. This must be done before bringing the pad forward to remove.



INSTALLATION

12. Install GPS Antenna.

- Locate the screw slightly forward and to the right (passenger side) of the radio housing area.
- Remove the screw from the dash metal support.
- Install GPS antenna and install the screw.

Screw



13. Route GPS antenna wiring under A/C pipe and to the radio area.



14. Install new Navigation Radio.

- Connect radio connectors, GPS antenna, radio antenna and XM/DVD connector (if equipped).
- Install three screws.



15. Connect Battery Negative Cable.

16. Install 30A fuse in under-hood fuse box.



17. Test Radio.

- Make sure parking brake is set.
- Start vehicle.
- Turn radio On.
- Load DVD Navigation Disc.
- Once disc checking is complete, press the “NAV” button if the navigation screen doesn’t appear automatically. Make sure the vehicle is in position in an open, outside area so the GPS antenna can link up to the satellites.
- If the radio stations work and the navigation screen loads correctly, turn the radio Off, turn the vehicle Off, and proceed to the next step.
- If the radio isn’t working correctly, check all radio plugs in rear, as well as amp connections and fuse.

18. Install top dash trim.

- Position trim to lock into the front tabs next to the windshield.
- Connect ambient light sensor.
- Once in position, push in clips located above passenger's airbag.
- Engage all remaining clips and make sure dash trim is in position.
- Install screws on side of dash, in passenger A/C vents and front of trim.

NOTICE: Before installing the screws, make sure each of the clips located at the front of the dash (up by the windshield) is in position. They are easy to miss.

19. Install passenger A/C vents, dash handle and A-pillar trim.

- Align the dash handle with the holes and push into position. Check orientation as there is a "top" and "bottom" to the handle. Slide the handle in and lock it.
- A-pillar trim: align the tabs to the dash and press the metal clip into the upper hole.

20. Test the radio again.

21. Install the dash bezel.

- Make sure the parking brake is set.
- Tilt the steering wheel down and put the gear selector in to 1st with the engine off.
- Roll the bezel in starting with the bottom first.

NOTICE: Be careful when moving the bezel over the emergency light switch located on the top of the steering column. This can scratch the bezel very easily.

- Align the clips and press into position.

22. Install fuse box covers on side of dash.



1. Remove the 30 amp fuse from the under hood electrical center.
 - The fuse is located in the bottom right corner of the box if you are standing on the driver's side of the vehicle looking towards the engine (see picture).
 - You can also look on the under side of the lid for location diagram.



2. Disconnect the Battery Negative Cable. **WARNING:** If you don't, the vehicle could accidentally start and move during this procedure and result in serious personal injury, including death.
3. Make sure the parking brake is engaged.
4. Remove Dash Bezel - Gently Snaps Off.
 - Tilt the steering wheel down and put the gear selector into 1st with the engine off.
 - With your fingers, start from the top right corner (corner above the radio - see picture) and gently pull out
 - Continue around the top of the bezel and work to the sides and bottom.

NOTICE: Be careful when removing the bezel over the Emergency Light Switch located on top of the steering column. This can scratch the bezel very easily.

- Put gear selector back into Park.



5. Remove the Radio.

- Remove the three screws and hold the radio in place. The screws are the only thing holding the radio in place, so hold the radio once the screws are removed.
- Turn the key to the “On” position (with the engine off) and put the gear selector in 1st.

WARNING - Make sure the parking brake is set. If you don't the vehicle could move and cause personal injury or damage to the vehicle.

- Pull out the radio and disconnect the connections in the rear.
 - Coaxial Antenna Lead (pull perpendicular to the radio to remove).
 - XM/DVD/AUX plug (12-pin, if equipped).
 - Main radio connector (24-pin).



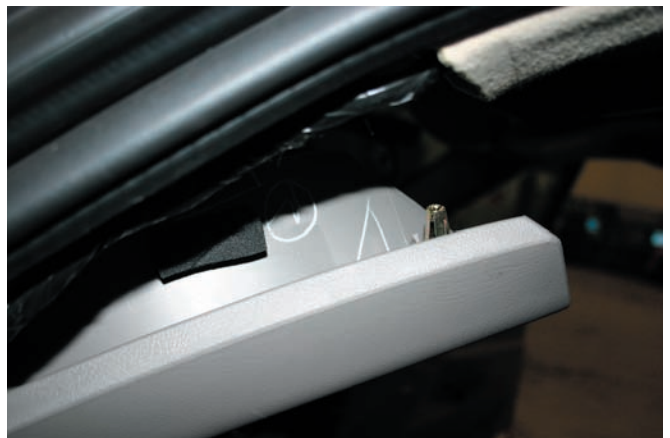
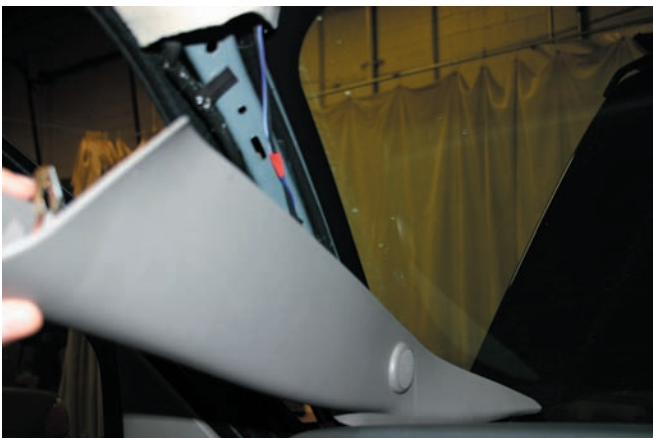
6. Remove the instrument cluster.

- Remove the four 7 mm screws.
- Retate the bottom of the cluster out and disconnect the plug on the back.
- Squeeze the tabs and wiggle the connector to remove.

7. Put the gear selector in Park and turn the key to the “Off” position.

8. Remove the driver and passenger side A-Pillar trim.

- There is only one clip at the top of the trim piece.
- Pull on both sides diagonally away from the pillar.
- You may have to remove part of the weather-stripping from around the door frame to get a good grip on the A-Pillar trim.
- To remove the weather-stripping, pull straight down to the middle of the door frame.



9. Remove the fuse box trim from both sides of the dash.

2 Screws



10. With a flat screwdriver or flat tool, pry out both A/C vents on the passenger's side of the dash.

- Be careful not to scratch the dash trim or break the vent bezels with the prying tool.
- You may want to wrap the tool in cloth to prevent damage to the dash parts.



11. Remove the Passenger Assist Handle.

- Reach inside the A/C vent holes and and press the release tabs on both sides of the handle.
- Pull the handle away from the dash to remove the handle.



Release
Tab

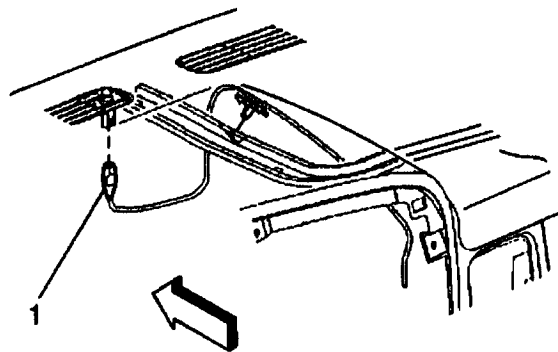
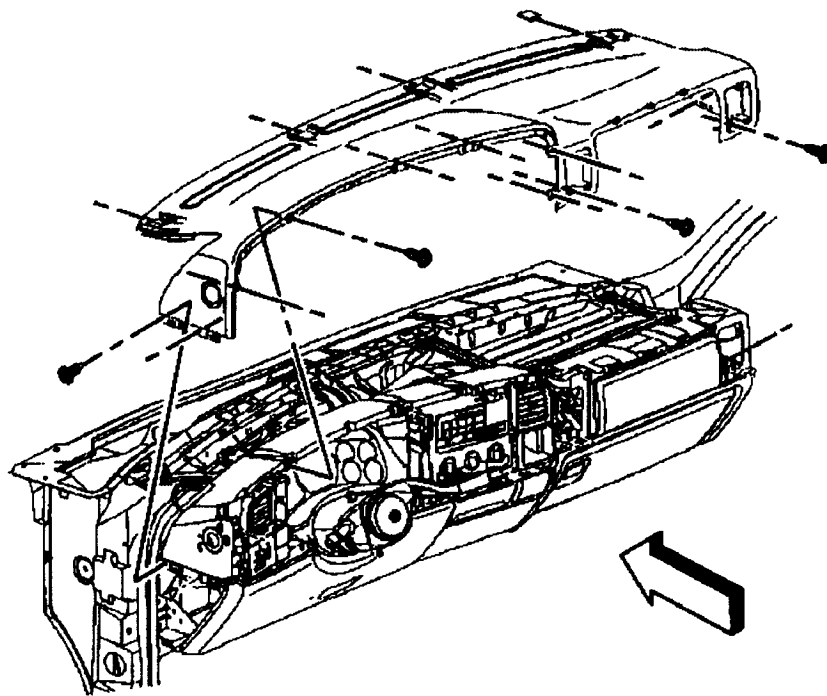


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- Remove remaining screws from the front of the dash trim.
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- Pull out on the dash trim above the passenger's airbag (there are three clips in this location that must be released before the trim can be removed).
- Lift up the dash trim to disconnect the ambient light sensor.

NOTICE: When lifting up on the dash trim, be careful of the ambient light sensor wiring. There is not much slack in the wiring and it could be torn from the sensor very easily.

- Twist the ambient light housing (1/4 twist) to release the sensor from the dash pad. This must be done before bringing the pad forward to remove.



INSTALLATION

13. Install GPS Antenna.

- Locate the screw slightly forward and to the right (passenger side) of the radio housing area.
- Remove the screw from the dash metal support.
- Install GPS antenna and install the screw.

Screw



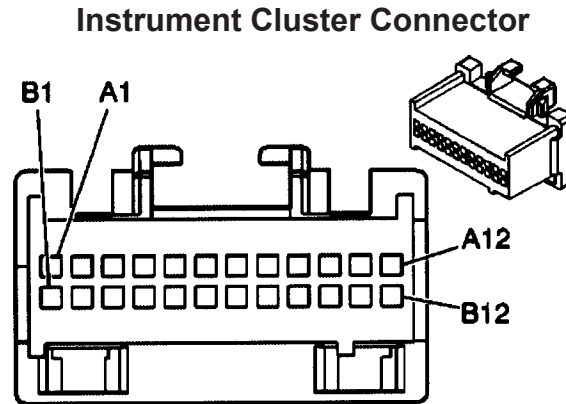
14. Route GPS antenna wiring under A/C pipe and to the radio area.



15. Install included single wire between Instrument Cluster plug and radio plug.

NOTICE: Some vehicles may come with this wire installed from the factory (2004 and earlier don't usually have this wire). If you have the wire in position E of the 12-pin radio connector, skip this step.

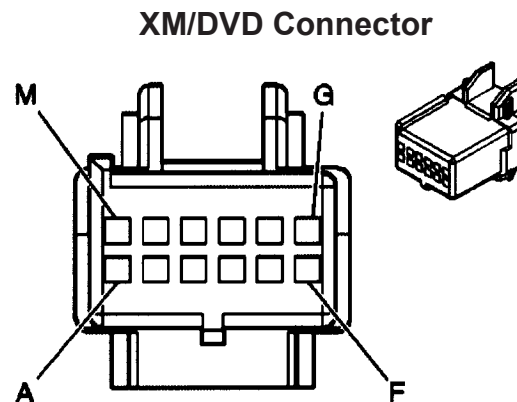
- Using the picture below, connect to the wire in position A4 on the instrument cluster connector (you can either use the included tap splice connector or solder the connection, whichever you prefer).



- Using the picture below, install the terminal end of the included wire in position E of the 12-way radio connector.
- Remove the locks from the plug using a small flat screw driver or other similar tool.
- Before inserting into the connector, observe how the other terminals in the plug are oriented, and copy.

NOTICE: This terminal is delicate and can be bent easily under force. We recommend inserting the terminal with your hands and using a pair of needle nose pliers to push it to the "lock" position. Grab the terminal with the pliers as close to the back of the terminal as possible.

- Check for continuity once wire is in position (circuit tester or light tester).



16. Install Instrument Cluster.

- Install 4 screws.

17. Install new Navigation Radio.

- Connect radio connectors, GPS antenna, radio antenna and XM/DVD connector (if equipped).
- Install three screws.



18. Connect Battery Negative Cable.

19. Install 30A fuse in under-hood fuse box.



Radio/Amp
Fuse

20. Test Radio.

- Make sure parking brake is set.
- Start vehicle.
- Turn radio On.
- Load DVD Navigation Disc.
- Once disc checking is complete, press the “NAV” button if the navigation screen doesn’t appear automatically. Make sure the vehicle is in position in an open, outside area so the GPS antenna can link up to the satellites.
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- A-pillar trim: align the tabs to the dash and press the metal clip into the upper hole.

23. Test the radio again.

24. Install the dash bezel.

- Make sure the parking brake is set.
- Tilt the steering wheel down and put the gear selector in to 1st with the engine off.
- Roll the bezel in starting with the bottom first.

NOTICE: Be careful when moving the bezel over the emergency light switch located on the top of the steering column. This can scratch the bezel very easily.

- Align the clips and press into position.

25. Install fuse box covers on side of dash.

