



Technical Service Bulletin

GROUP

ENGINE
ELECTRICAL

NUMBER

17-EE-001

DATE

JANUARY, 2017

MODEL(S)

2017MY
G80 & G90

SUBJECT: GENESIS SOLAR PANEL 12V BATTERY MAINTAINER

Description:

Some Genesis G80/G90 will arrive from Ports with a box on the passenger floor containing a 4-Watt solar panel 12V battery maintainer. The solar panel is to be installed at PDI with 4 suction cups positioned on the bottom passenger side of the windshield interior with the solar panel glass facing the windshield. The cable is routed over the vehicle dash and steering wheel to the OBD connector under the dash. This allows current from the solar panel to flow to the vehicle's 12V battery.

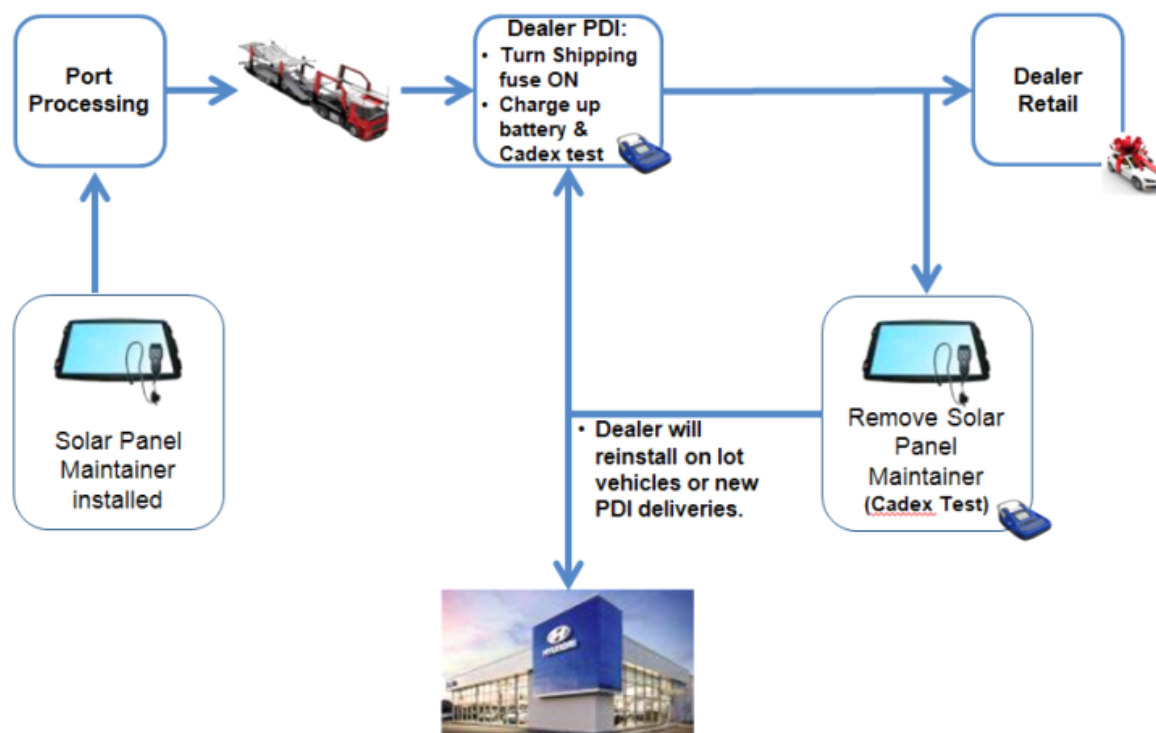


The purpose of the solar panel 12V battery maintainer is to help prevent battery drain during dealer storage to provide customers the best possible battery health. It supplements the existing vehicle battery maintenance procedures of TSB 16-EE-002 to provide Genesis an improved level of battery health. The solar panel does not eliminate existing battery maintenance to run engine idle for 20 minutes every month while in the dealer storage lot. The solar panel must be removed from the vehicle at customer delivery for later reuse in another Genesis G80 or G90 vehicle on the lot, or on any future incoming Genesis vehicle that doesn't arrive with a solar panel. **Dealers will retain the panels for use on stored vehicles only. They are not to be passed on for customer use.**

Here are some facts you should know about the solar panel battery maintainer program:

- The solar panel is shatter proof and amorphous. Amorphous means it is able to operate under both high and low light conditions, even including the interior of a dealer showroom. Current is generated to the vehicle's 12V battery whenever light is present on the panel.
- The shipping power fuse switch must be left ON in the vehicle for the solar panel to be able to feed current to the vehicle's 12V battery through the OBD connection under the dash.
- The vehicle may be operated and driven with the solar panel left in place at the bottom of the passenger windshield interior, and cable safely routed as instructed. However it is recommended to remove the solar panel for customer test drives and reinstall it on return each time from test drive per the reinstallation procedure of pages 4-5.
- The solar panel must be removed at customer delivery and retained to transfer to an existing in-stock Genesis vehicle that doesn't have the solar panel, or provided to your Service Department for installation on a future Dealer Stock Genesis vehicle PDI that didn't come with a solar panel. The solar panels can function for years if the cables are not damaged.

This is a pilot evaluation program that Hyundai will be monitoring for benefit to our dealers and battery health for our customers to decide whether to expand this program. Your feedback is important. If you have comments, positive or negative, please email HMAQA@hmausa.com with the subject "Dealer# – Solar Panel Feedback". If available include a photo any Cadex battery test result tickets taken before solar panel installed and after solar panel removed prior to retail sale.



NOTE: Cadex battery test before install and after removal is requested for new panels only that are installed at PDI.

Installation Procedure of Solar Panel Battery Maintainer into a Genesis Vehicle:

- *Skip to perform steps 4 through 7 If installing a used solar panel transferred at the Dealer from one vehicle to another vehicle.*

New Solar Panel Battery Maintainer Installation steps at PDI:

1. At PDI perform a Cadex battery test at the battery in the trunk with ignition OFF. Test in the "PDI/Stock/New Veh" test mode to verify a "GOOD BATTERY" result.
 - If "CHARGE & RETEST" follow the display directions for charging, then retest.
 - Mark the "GOOD BATTERY" Cadex ticket on top as **"Before Solar Panel"** and place it inside the side pocket of the driver's door.



2. Open up the solar panel battery maintainer box and remove the carton with including the solar panel and cable. Locate the plastic bag with the 4 suction cups and remove them to install them into the 4 slots of the glass side of the solar panel facing up. Slide the suction cups into place in the slots towards the inside of the panel until they are secure in place.

NOTE: The bag with suction cups may be found packed underneath the panel.



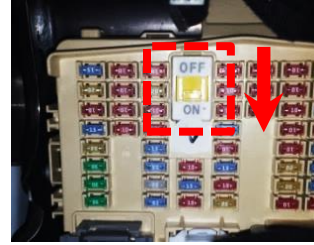
3. Connect the OBD connector's cable to the wires coming out of the solar panel battery maintainer. Image shown to the right is only partially connected. Push both connectors fully together to establish a secure connection.

NOTE: Discard any other type of connector that came in the solar panel box including clamps or 12V DC connector as they will not be used.
NOTE: It can only supply power to the vehicle's 12V battery through the OBD connector.



- **Solar Panel Battery Maintainer reinstallation instructions, and new solar panel installation continued:**

4. Remove the underdash fuse box lid and place it in the side storage pocket of the driver's door. Make sure the shipping power fuse switch is in the ON position.
NOTE: Solar Panel battery maintainer will not operate with the shipping power fuse OFF.



5. Inspect the solar panel's 4 suction cup tabs to make sure they are facing outward from the panel. This will make it easier to remove from the vehicle later just prior to retail sale.



6. Install the solar panel at the bottom passenger side of the windshield interior so it does not obstruct the center defroster grilles or obstruct the drivers view.



7. Route the solar panel cable diagonally over the dash and the back of the steering wheel to plug into the OBD connector in the under dash fuse box. **NOTE:** Keep the cable as short as possible to minimize the amount it hangs down from the OBD connector.



Solar Panel Battery Maintainer Removal at Retail Sale:

1. Remove the solar panel from the windshield pulling up by the outer tabs of the 4 suction cups. Remove the OBD connector from the fuse box and reinstall the fuse box lid that was left stored in the driver's side door panel.
2. If possible for our valuable pilot program feedback, please provide the vehicle to your Service Department to perform a quick Cadex battery test directly at the battery in the trunk with ignition OFF. Print the result ticket marking it as **"After Solar Panel"**. Be sure to enter correct last 6 digits of the VIN into Cadex tester.
 - a. Print out the Cadex result ticket and mark it as **"After Solar Panel"**. Locate in the driver's side door pocket the "Before Solar Panel" Cadex results.
 - b. Take photo of the **"Before Solar Panel"** and **"After Solar Panel"** Cadex result tickets and email to HMAQA@hmausa.com with the subject line stated as "Dealer# – Last 6 of VIN - Solar Panel Feedback". Include any comments you may have positive or negative about your dealer experience with the solar panel battery maintainer pilot program.
3. Provide the used solar panel battery maintainer to your Service Department for installation into the next in stock new Genesis vehicle PDI that does not have a solar panel box included.