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QUALITY DRIVEN® SERVICE

SERVICE INFORMATION BULLETIN

APPLICABILITY: 2019-20MY Forester

NUMBER: 07-142-18R

SUBJECT: Battery Sensor Removal and Installation Precautions

DATE: 10/31/18

REVISED: 02/10/20

INTRODUCTION:

This Service Information Bulletin provides helpful tips and precautions to use whenever removing or installing the battery sensor assembly from the battery post (and / or negative battery cable from the battery sensor assembly).

SERVICE PROCEDURE / INFORMATION:

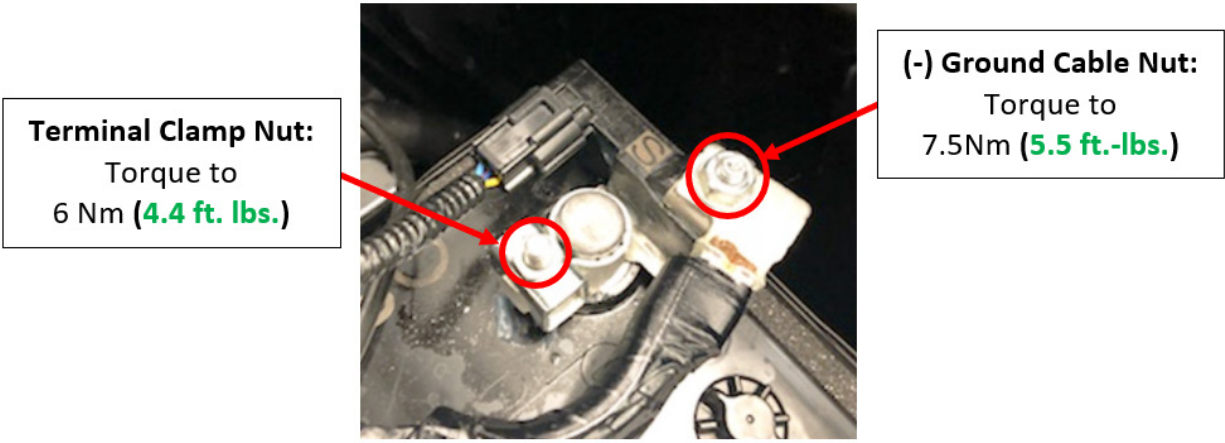
REMINDER: Customer satisfaction and retention starts with performing quality repairs. The service procedure for removal and installation of the battery sensor assembly and negative battery cable from the sensor have been revised with new torque specifications. Continue referring to the applicable Service Manual and review the full requirements of the repair being performed. The Service Manual procedures contain information critical to performing an effective repair the first time and every time.

NOTE: **Hand tools only** for this procedure as the sensor can be damaged very easily if either of the 10mm hex nuts are over-torqued.

- Whenever a negative (-) battery cable disconnect is required, hold the sensor in place with one hand while loosening the 10mm hex nut securing it to the sensor. This will help support the sensor and keep the assembly from rotating on the battery post. Remove the nut from then take the cable off the stud on the sensor. It is **STRONGLY** recommended to **leave the battery sensor on the battery post** unless the battery (or the battery sensor assembly) is being replaced. This will also help reduce the chances of damaging the sensor and / or creating a poor battery ground connection.

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<p>CAUTION: VEHICLE SERVICING PERFORMED BY UNTRAINED PERSONS COULD RESULT IN SERIOUS INJURY TO THOSE PERSONS OR TO OTHERS.</p>	<p>Subaru of America, Inc. is ISO 14001 Compliant</p>
<p>Subaru Service Bulletins are intended for use by professional technicians ONLY. They are written to inform those technicians of conditions that may occur in some vehicles, or to provide information that could assist in the proper servicing of the vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do the job correctly and safely. If a condition is described, DO NOT assume that this Service Bulletin applies to your vehicle, or that your vehicle will have that condition.</p>	<p>ISO 14001 is the international standard for excellence in Environmental Management Systems. Please recycle or dispose of automotive products in a manner that is friendly to our environment and in accordance with all local, state and federal laws and regulations.</p>



- If the sensor needs to be removed, loosen the 10mm hex nut **only as much as needed** to remove it from the (-) battery post. This way, the bottom plate (a) will stay in the proper position on the underside of the wedge / clamp portion as shown in **Fig. 1** below. If the nut is loosened too far like in **Fig. 2**, the plate can get out of alignment with the rotation stopper tabs (b) as shown in **Fig. 3**. If an attempt is made to reinstall the sensor with the plate out of position, the sensor will be damaged and require replacement.

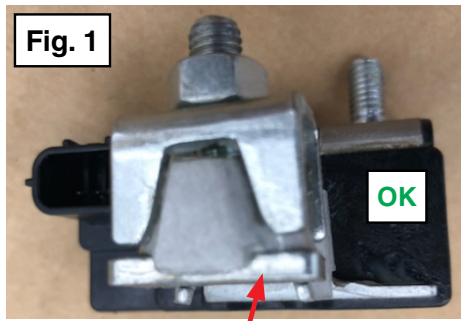


Plate (a) shown in proper position with the rotation stopper tabs (b).

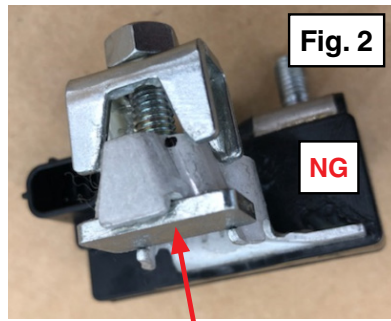


Plate (a) still shown in proper position but, retaining nut loosened too much.

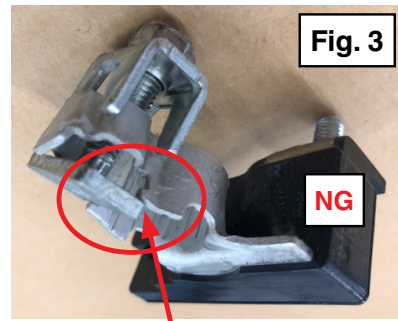
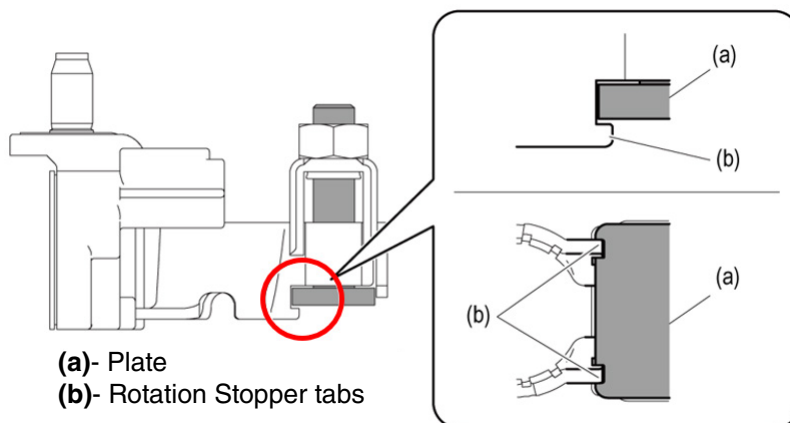


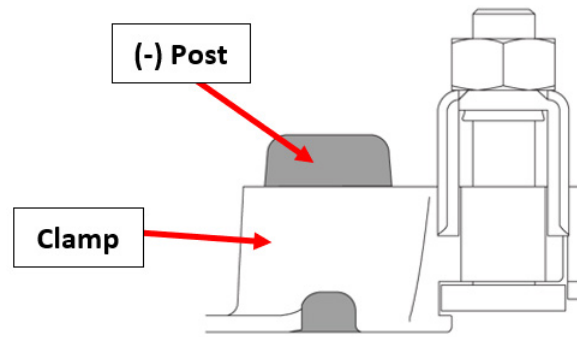
Plate (a) mis-aligned with rotation stopper tabs (b) because retaining nut has been loosened too much.



The illustration above provides an additional detail view of how the plate (a) is required to fit into the rotation stopper tabs (b).

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- When installing the sensor assembly onto the battery post, confirm it is fully seated and the (-) post protrudes above the clamp portion as shown below before torquing the 10mm retaining hex nut.



TORQUE SPECIFICATIONS:

- Negative Battery Cable (Ground) Nut: 7.5 Nm (**5.5 ft. lbs.**)
- Terminal Clamp Nut: 6 Nm (**4.4 ft. lbs.**)
- Always hold the sensor in place with one hand while loosening or torquing either 10mm hex nut.

IMPORTANT REMINDERS:

- SOA strongly discourages the printing and/or local storage of service information as previously released information and electronic publications may be updated at any time.
- Always check for any open recalls or campaigns anytime a vehicle is in for servicing.
- Always refer to STIS for the latest service information before performing any repairs.

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