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SUBARU TECHLINE HOLIDAYS & HOURS OF OPERATION

Mon. - Thurs.	8:30AM - 7:30PM EST
Friday	10:30AM - 5:00PM EST
Saturday	9:00AM - 3:00PM EST

01 QMR of the Month

We are pleased to announce this month's QMR of the Month Winner:

Gregory Beach from
Ramsey Subaru in Ramsey, NJ

Gregory created a high quality QMR using TechShare reporting on inoperative power windows and power seats. Gregory's report included detailed diagnostic steps, high-quality photos, and video.

Please refer to the following link to review the TechShare QMR in detail.

<https://subarutechshare.com/qmrs/TS-204031>

In appreciation for going the extra mile and sharing his experience with us, Gregory will be receiving the following from his Field Service Engineer:

\$500.00 Snap-On gift card

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CAUTION: VEHICLE SERVICING PERFORMED BY UNTRAINED PERSONS COULD RESULT IN SERIOUS INJURY TO THOSE PERSONS OR TO OTHERS.

The Subaru TechTIPS newsletter is intended for use by professional Technicians ONLY. Articles 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 your vehicle has or will have that condition. Impreza, Legacy, Justy, Loyale, Outback, Forester, Subaru SVX, WRX, WRX STI, Baja, Tribeca, BRZ, XV Crosstrek, Ascent, Crosstrek Hybrid and "Quality Driven" are Registered Trademarks.

SUBARU OF AMERICA, INC. IS
ISO 14001 COMPLIANT

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.



QUALITY DRIVEN® SERVICE



ASE Education Foundation

01 QMR of the Month (CONTINUED)

The other regional winners selected from TechShare QMRs submitted during June 2022 were:

- **Albert La Chance** from **Mitchell Subaru**
- **Henry Steingisser** from **Subaru of Little Rock**
- **Jeremy Johnson** from **McDaniels Subaru of Columbia**
- **Tau Jeppesen** from **Larry H. Miller Subaru Boise**

Any Subaru Technician can participate in the TechShare QMR of the Month program. See the February 2013 and January 2016 issues of TechTIPS for full details. You just might see your name and photo in a future issue of TechTIPS!

01 QMR of the Month Award Presentations

As part of our “enhanced” QMR of the Month recognition program, we will include a photo (whenever available) of the recipient’s award presentation in TIPS. The winner selected from QMR of the Month submissions received during June 2022 was Technician and Shop Foreman Gregory Beach from Ramsey Subaru in Mahwah , NJ.



Gregory is shown above (right/center) after being presented with his \$500.00 Snap-On Gift Card. Also pictured (left to right) Ramsey Subaru’s Service Manager John DeStefano, and Customer Relations Director Melissa Sereika. To Gregory’s left is SOA District Service Quality Manager Jim Colamarino.

*Congratulations and **THANK YOU** to our June 2022 QMR of the Month Award recipient!*

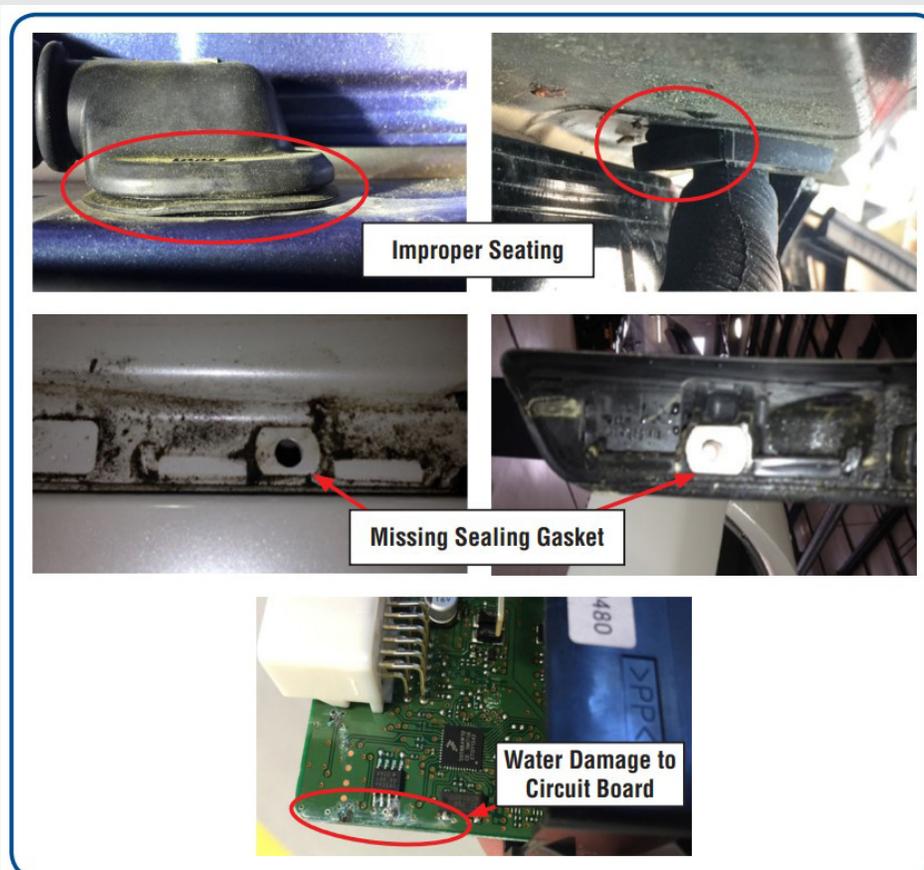
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TECH TIPS GREATEST TIPS

This series features TechTIPS articles frequently referred to by Techline. This month's feature is from September 2015.

07 2010-2016 FORESTER, TPMS LIGHT FLASHING, SENSOR REGISTRATION ISSUES

The Techline has received a number of calls regarding flashing TPMS warning lights. After initial diagnosis, if you are even able to communicate with the TPMS system, sometimes codes are stored, but most of the time there are none. If you encounter this condition, and for example, only 3 of 4 TPMS sensors are able to be registered, always check the TPMS control module for signs of water intrusion before replacing any parts. Also, always inspect the connectors and pins at the module carefully for corrosion if this condition is verified. Most cases have been traced back to the passthrough rubber harness cover / bellows between the body and the rear gate not being fully seated as shown in the photos below. The improper seating area has been primarily on the front side which can make it hard to see if not inspected carefully. There have also been isolated cases of a missing sealing gasket on the rear roof rail mounting stud. When either of these conditions occur, water can enter the vehicle, follow down the rear gate harness and drip directly onto the TPMS control module, eventually causing internal damage as seen in the bottom photo of a damaged circuit board. If you verify this concern, make sure to thoroughly clean and fully re-seat the pass through harness cover and re-check to verify any water leak has been repaired. To complete the repair, it will be necessary to replace the TPMS control module and re-register all the transmitters.



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When servicing the Solterra, it is possible to cause DTCs to set inadvertently by not following the correct service procedures outlined in STIS. Below are examples of DTC's that may set and how to prevent them from occurring.

DTC P0A1B1F (Generator Control Module Circuit Intermittent), P0A1C1F (Drive Motor "B" Control Module Circuit Intermittent) Detection

DTCs P0A1B1F and P0A1C1F may be set during the following work activities:

1. Disconnecting the 12V battery (auxiliary battery) terminal(negative) with EV mode Ready-ON.
2. Disconnecting the 12V battery terminal while the System Main Relay (SMR) is in overheat protection mode.

SMR overheat protection mode is started when Ready-ON ↔ Ready-OFF is repeated many times in a short period of time. This could include several quick ON/OFF cycles as the vehicle is written up in the service drive, moved to the parking lot and then moved into the service bay.

The SMR remains ON several minutes after Ready-OFF (IG-OFF) for overheat protection.

If you disconnect the 12V battery during this time, these DTC's may set.

Note that even if these DTC are detected, they do not affect driving and can be cleared by using the SSM.

Observe the two points below.

- (1) Do not disconnect the 12V battery during Ready-ON (see Fig 1).
- (2) When disconnecting the 12V battery, wait 3 minutes after IG-OFF as described in the service manual (see Fig 2).



Fig 1: Ready-ON is displayed in the red circle.

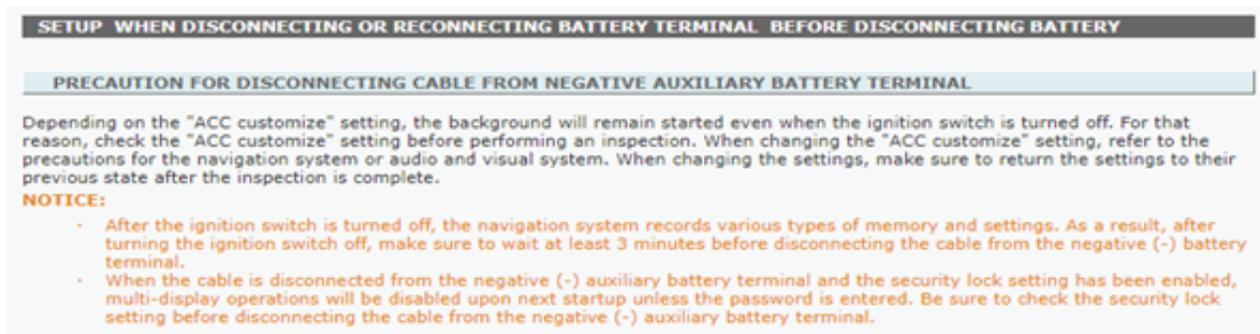


Fig 2: Service Manual Excerpts

DTC U113B87 (Lost Communication with Charging Communication Module Missing Message) Detect During PDI

During PDI, a warning message (Plug-in Charge System) may display on the instrument panel (Fig 3) and U113B87 might be detected. This DTC indicates a failure in the CAN BUS between the Plug-in ECU and the Communication ECU (the unit used to communicate with the charging stand).

When the DC cut fuse (30A) is not installed (Fig 4), the power supply to the communication ECU is cut off.

If the Plug-in ECU tries to communicate with the Communication ECU, U113B87 will be set, and a warning message will be displayed on the instrument panel.

The Plug-in ECU communicates with the communicating ECU at the following two points.

(1) When the 12V battery is reconnected and first IG-ON.

*When the 12V battery is disconnected, the Communication ECU part number information on the Plug-in ECU is cleared, so it must record it again following the first IG-ON.

(2) When DC charging and DC CUT FUSE (30A) is removed (see Fig 4).

If U113B87 is detected, or was detected in the past, you can clear it using the SSM.

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**Solterra DTC's Resulting from Service or Maintenance Activities:
P0A1B1F, P0A1C1F, U113B87 (CONTINUED)**



Figure 3: Warning message on the instrument panel.

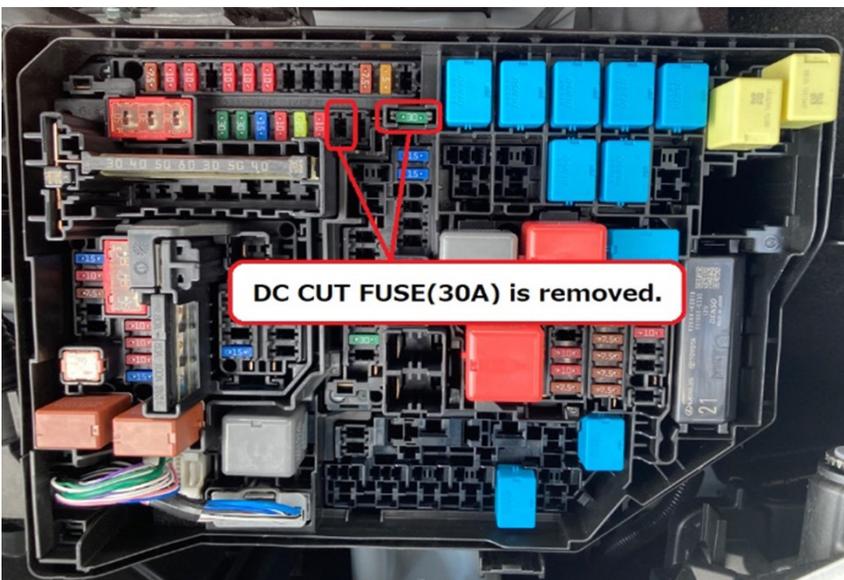


Figure 4: DC CUT FUSE (30A) is removed.

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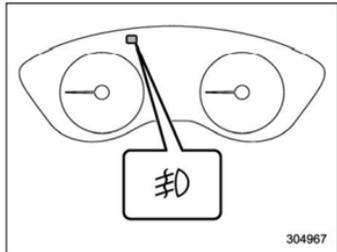
22MY WRX One Touch Turn Signal Operation

With the introduction of the 2022 WRX, a new feature has been added to the turn signal operation. If faced with a customer concern about the turn signal lever operation, take note that it now incorporates one-touch usage. Please see the excerpt from the Owner's Manual about operation.

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01 22MY WRX One Touch Turn Signal Operation (CONTINUED)

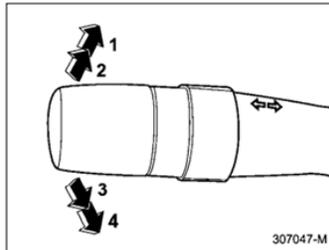
228 Turn Signal Lever



Indicator light

The indicator light located on the combination meter will illuminate when the front fog lights are on.

3-14. Turn Signal Lever



- 1) Right turn
- 2) Lane change right signal
- 3) Lane change left signal
- 4) Left turn

To activate the turn signal:

Pushing the turn signal lever up/down and releasing it activates the turn signal. Then the lever returns to its original position.

To cancel the turn signal:

Push and release the turn signal lever slightly in the opposite direction of the active turn signal.

To signal a lane change:

1. Push the turn signal lever up or down slightly.
2. Hold in the signal lever during the lane

change.

The turn signal indicator lights will flash in the direction of the turn or lane change. The lever will return automatically to the neutral position when you release it.

■ One-Touch Lane Changer

To flash the turn signal and turn signal indicator light three times, push the turn signal lever up or down slightly and immediately release it.

NOTE

The operational/non-operational setting of the one-touch lane changer can be changed by a SUBARU dealer. Contact the nearest SUBARU dealer for details. The setting can also be changed by operating the center information display. For details, refer to "Car settings" P195 (11.6-inch display models) or "Vehicle setting icons" P208 (dual 7.0-inch display models).

07 2019MY(+) Hybrid Inverter Cable Installation

When installing a new Inverter Cable on a Hybrid Crosstrek, it may be tempting to use dielectric grease or some other kind of protectant when installing the cable. Research performed by the SOA engineering department discovered that applying grease may accelerate corrosion and cause unfavorable results. The terminal end and cable should be clean and free of debris. Be sure to always follow STIS closely for the proper installation process and do not add unapproved chemicals/sealants to this cable terminal.



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ITEM CODE	ITEM TYPE	TITLE	CREATED DATE
15-303-22	Technical Service Bulletin	Valet Mode Operation and Passc...	20-Sep-22
E101SFL002	Accessory Installation Guide	2017-24MY Impreza (all trims) ...	19-Sep-22
E101SFL100	Accessory Installation Guide	2018-24MY Crosstrek (all trims...	19-Sep-22
01-175-16R	Technical Service Bulletin	E-Mailing Files to Techline an...	19-Sep-22
09-80-21R	Technical Service Bulletin	DTC # P2682 & P26Ax** / Thermo...	14-Sep-22
16-136-22R	Technical Service Bulletin	Vibration & Possible Judder Co...	14-Sep-22
03-89-22	Technical Service Bulletin	DTC B280B VDC Brake Fluid Pres...	13-Sep-22
04-28-22R	Technical Service Bulletin	Squeaking Sound Occurs When Tu...	13-Sep-22
15-301-22	Technical Service Bulletin	Reprogramming File Availabilit...	9-Sep-22
DCA-8000-F	Other/Miscellaneous	DCA-8000 Diagnostic Battery Ch...	9-Sep-22
DCA-8000-S	Other/Miscellaneous	DCA-8000 Diagnostic Battery Ch...	9-Sep-22
DCA-8000	Other/Miscellaneous	DCA-8000 Diagnostic Battery Ch...	9-Sep-22
DSS-5000-F	Other/Miscellaneous	DSS-5000 User Guide (French)	9-Sep-22
DSS-5000-S	Other/Miscellaneous	DSS-5000 User Guide (Spanish)	9-Sep-22
DSS-5000	Other/Miscellaneous	DSS-5000 User Guide	9-Sep-22
07-207-22R	Technical Service Bulletin	Subaru Battery Drain Product L...	6-Sep-22
18-225-22R	Technical Service Bulletin	Diagnostics Procedure Addition...	6-Sep-22
WRB-22R	Subaru Product/Campaign Bulletin	PCV Vacuum Hose Clamp Lock Fai...	2-Sep-22
WRA-22R	Subaru Product/Campaign Bulletin	WRX EyeSight® Reprogramming	2-Sep-22
WRE-22	Subaru Product/Campaign Bulletin	Safety Recall – Back-Up Lamp S...	2-Sep-22
07-209-22R	Technical Service Bulletin	EyeSight® Reprogramming DTC B2...	2-Sep-22

All revised publications are highlighted in yellow.

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This is your chance to offer suggestions for use in future issues of TechTIPS! Make sure that if you e-mail us, you place in the **subject line** of your e-mail **“For TechTIPS Newsletter”**. Thank you!

Model: _____

Year: _____

VIN: _____

Description of situation encountered: _____

Your suggestion for repair procedure, product improvements, etc.: _____

Please attach separate sheets, if necessary. You may also want to include Service Manual diagrams or references, or your own drawings to assist in describing your suggestion. All information submitted becomes the property of Subaru of America, Inc. Permission is granted to Subaru of America, Inc. to print your name and suggestions in TechTIPS and other Subaru of America, Inc. publications. Mail items to: PO Box 9103; Camden, NJ 08101-9877.

Your Name: _____

Signature: _____

Dealer's Name: _____

City: _____

Date: _____

Dealer Code: _____