

Subaru Service and Technical Support Line Newsletter

November 2019



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SUBARU TECHLINE HOLIDAYS & HOURS OF OPERATION

Holiday Break: (Closed) Tuesday, December 24, 2019 Wednesday, December 25, 2019

New Year's Day: (Closed)

| vvednesday, Janua | ary 1, 2020 |
|-------------------|----------------------|
| 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 Winner of QMR of the Month:

Thomas Jones from Hadwin-White Subaru in Conway, SC.

Thomas submitted his winning QMR describing his diagnosis and repair of a 2018 Outback 2.5i which presented with a concern of the vehicle having difficulty starting. Upon arrival, his first step was to confirm the hard start condition then connect the SSM to check for any stored or active DTCs. Thomas provided a list of the DTCs but concentrated his initial diagnosis on the EGR system as most were related to that system. He provided details of his testing and the results for each check performed. Continued testing led him to find a voltage fluctuation when wiggling the E18 connector and the related wiring harness. Thomas accessed the connector and upon inspection found pin #8 had backed out as a result of a broken lock tab. The affected pin was the EGR valve power supply. After replacing the engine harness, and road testing to confirm the repair. normal operation was restored with no returning DTCs. Thomas' report contained detailed step-by-step descriptions of his diagnostic procedure which was supplemented with a series of quality photos.

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

A \$500.00 Snap-On gift card.



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.



CONTINUED ON THE NEXT PAGE

The other Regional winners selected from QMRs submitted during November 2019 were:

- Travis George from Subaru of Spokane in Spokane, WA
- Alex Valentine from Quirk Works Subaru in Braintree, MA
- John Cote from Bill Kolb Jr. Subaru in Orangeburg, NY
- Erik Rodriguez from Grand Subaru in Bensenville, IL.

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

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 September 2019 was Thomas Jones, a Technician at Hadwin-White Subaru North in Conway, SC.



Thomas is shown above after being presented with his \$500.00 Snap-On Gift Card by SOA Field Service Engineer Dan Page. Pictured (right to left) are: Dan Page, Hadwin-White Service Manager, Brandon Bell, September's winning Technician Thomas Jones, his wife Jennifer and SOA District Parts and Service Manager Matt Seiler. Congratulations and **THANK YOU** to our September 2019 QMR of the Month Award recipient!

TECH TIPS GREATEST TIPS

This series features TechTIPS articles frequently referred to by Techline. This month's feature is for Authorization Request Pictures from April 2014

1 AUTHORIZATION REQUEST PICTURES

As mentioned in the February TIPS, the importance of taking quality pictures is essential when submitting an Authorization Request (AR) for consideration. Subarunet allows for each picture to be up to 5MB which is possible only when using a quality camera. Certain cell phones have the capability of providing quality pictures however, they must be saved in the proper format, <u>Actual</u> <u>Size</u>.

Prior to the customer leaving your dealership, take a minute to review the pictures you are about to submit to ensure their quality.

A camera is the best tool to use when taking pictures to attach to an AR. However, if you are sending pictures taken by a cell phone, it is recommended to choose the <u>Actual Size</u> when prompted. This will provide the best quality photo possible. The quality of the Small (KB), Medium (KB) or Large (KB) size pictures in most cases have poor resolution. This makes it necessary for us to request additional pictures.

Always review your pictures prior to attaching them to your AR request.

07 2020MY LEGACY & OUTBACK, DTCS B2259, B2244, B282C & B2C22

As part of retailer pre-delivery inspection (PDI) the green 30A (backup) fuse shown below is moved from "transit" position "**A**" to "delivery" position "**B**". During manufacturing and at the completion of port processing prior to shipment, the backup fuse is installed into the "**A**" position to eliminate battery draw during transit / storage.



NOTE: The new 2020MY Legacy and Outback will set DTCs **B2259**, **B2244**, **B282C** and **B2C22** if for some reason, the fuse is removed from the "**B**" position while the ignition is "ON". This is a normal operating characteristic for these models.

November 2019 TechTIPS

07 2020MY LEGACY & OUTBACK, DTCS B2259, B2244, B282C & B2C22 (CONTINUED)

- B2259: Center Information Display Communication Open -> Cockpit Control Module (CCU)
- B2244: Amplifier Communication -> Cockpit Control Module (CCU)
- **B282C**: Audio Visual Navigation Abnormal -> Eyesight
- **B2C22**: Eyesight System -> Reverse Auto Brake (RAB)

For this reason, when performing a Check ALL DTC on a new 2020MY Legacy or Outback, the list of DTCs above will likely be stored in memory until the backup fuse is in position "**B**" and the memory cleared. For example: if a Technician installs an additional accessory which requires removal of the backup fuse from "**B**", the codes above will automatically set. The memory must always be cleared after the backup fuse is reinstalled into "**B**".

When checking for DTCs during diagnosis of any abnormality regarding the infotainment system, EyeSight or RAB, keep this information in mind to avoid diagnosing the listed DTCs unnecessarily.

First, check to see if **B2259**, **B2244**, **B282C** and **B2C22** are Current or History codes. See the SSM screenshot below for reference.

IF CURRENT: Check to see if the backup fuse is blown or not and confirm it is fully installed in the proper position. If the fuse is OK, diagnose the DTCs as per the applicable Service Manual.

| Keyless A | No DTC | | | | | | |
|------------|------------|--------------|---|-------|-------|-----|-----|
| EyeSight | Current | <u>B282C</u> | Audio Visual Navigation Abnormal | 00684 | 17400 | Com | 000 |
| Combina. | No DTC | | | | | | |
| Power Re. | Unexecuted | | | | | | |
| Headligh. | No DTC | | | | | | |
| Immobili. | Unexecuted | | | | | | |
| Blind Spo | No DTC | | | | | | |
| Blind Spo | No DTC | | | | | | |
| Front Cor. | Unexecuted | | | | | | |
| Front Cor. | Unexecuted | | | | | | |
| Cockpit C | Current | <u>B2259</u> | Center Information Display Communication Open | 00683 | 30800 | Com | 000 |
| Cockpit C | Current | <u>B2244</u> | Amplifier Communication | 00683 | 63700 | Com | |
| Power Se. | No DTC | | | | | | |
| EyeSight. | No DTC | | | | | | |
| Telematic | No DTC | | | | | | |
| Power W. | No DTC | | | | | | |
| Power W. | No DTC | | | | | | |
| Power W. | No DTC | | | | | | |
| Power W. | No DTC | | | | | | |
| Power W. | No DTC | | | | | | |
| Reverse | Current | <u>B2C22</u> | Eyesight System | 00683 | 36500 | Com | |
| Keyless E | Unexecuted | | | | | | |

07 2020MY LEGACY & OUTBACK, DTCS B2259, B2244, B282C & B2C22 (CONTINUED)

IF HISTORY: Check the **Trip** count and **Freeze Frame Data** of the DTCs to determine when the DTCs were stored. If the Trip count when the DTCs were stored is *higher* than the current trip count *or*, if the FFD shows the date when the DTCs were stored is *before* the sold date, these DTCs are not related to a customer concern. The cause of the DTCs would most likely be the backup fuse was removed for some reason and the memory was not cleared after the fuse was reinstalled.

| | | | | Time stamp | | | | |
|-----------|---------------------|--------------|---|------------|--------|------|--------|-------------------|
| System 🛦 | Status | Code 🛦 | Description & trouble part | Trip 🔺 | Time C | Gro | IG c I | FFD▲ |
| | | | | 00100 | 188200 | Cur | | <u>۱</u> |
| Keyless A | No DTC | | | | | | | |
| Keyless A | No DTC | | | | | | | |
| EyeSight | History | <u>B282C</u> | Audio Visual Navigation Abnormal | 00058 | 18200 | Com | | |
| Combina | No DTC | | | | | | | |
| Power Re | No communication | | | | | | | |
| Headligh | No DTC | | | | | | | |
| Immobili. | No communication | | | | | | | |
| Blind Spc | No DTC | | | | | | | |
| Blind Spc | No DTC | | | | | | | |
| Front Cor | No communication | | | | | | | |
| Front Cor | No communication | | | | | | | $\mathbf{\nabla}$ |
| Cockpit C | History | <u>B2259</u> | Center Information Display Communication Open | 00057 | 48800 | Com | | 300 |
| Cockpit C | History | <u>B2244</u> | Amplifier Communication | 00057 | 68300 | Com. | | |
| Power Se | No DTC | | | | | | | |
| EyeSight | No DTC | | | | | | | |
| Telematic | History | <u>B2A15</u> | VIN Data Response | | | | | |
| Power W | No DTC | | | | | | | |
| Power W | No DTC | | | | | | | |
| Power W | No DTC | | | | | | | |
| Power W | No DTC | | | | | | | |
| Power W | No DTC | | | | | | | |
| Reverse | History | <u>B2C22</u> | Eyesight System | 00058 | 19000 | Com | | |
| Keyless E | No communication | | | | | | | |
| Central G | No DTC | | | | | | | |
| E 10.01 | No | | | | | | | |
| 1 | | | | | | | | |

82259 The past : Center Information Display Communicati

| B2259 The past : Center Information Display Communication Open | | | | | | |
|--|-------|--------|--------|--------|--------|--------|
| Item | Unit | 4 bloc | 3 bloc | 2 bloc | 1 bloc | Detect |
| Trip Count | times | 57 | 57 | 57 | 57 | 57 |
| Count | | Comm | Comm | Comm | Comm | Comm |
| Time Count | ms | 46800 | 47300 | 47800 | 48400 | 48800 |
| ACC Power connection state | | OFF | OFF | OFF | OFF | OFF |
| IGN Power connection state | | OFF | OFF | OFF | OFF | OFF |
| Reverse connection state | | OFF | OFF | OFF | OFF | OFF |
| SPEED signal connection state | | ON | ON | ON | ON | ON |
| PKB connection state | | OFF | OFF | OFF | OFF | OFF |
| Illumi connection state | | OFF | OFF | OFF | OFF | OFF |
| XM ant connection state | | ON | ON | ON | ON | ON |
| GPS ant connection state | | ON | ON | ON | ON | ON |
| MIC connection state | | ON | ON | ON | ON | ON |
| Steering switch connection state | | OFF | OFF | OFF | OFF | OFF |
| Rear camera connection state | | ON | ON | ON | ON | ON |
| USB1 connection state | | ON | ON | ON | ON | OFF |
| CAN connection state | | ON | ON | ON | ON | ON |
| BATT Voltage | V | 12.05 | 12.05 | 12.05 | 12.05 | 12.05 |
| Speed | | 0 | 0 | 0 | 0 | 0 |
| BATT BackUp Voltage | V | 12.05 | 12.14 | 12.14 | 12.14 | 3.79 |
| GPS Received Number | | 18 | 18 | 18 | 18 | 18 |
| Global Positioning System Level | | 0 | 2 | 2 | 2 | 2 |
| Time and Date Settings :Year | Year | 2019 | 2019 | 2019 | 2019 | 2019 |
| Time and Date Settings :Month | Month | 9 | 9 | 9 | 9 | 9 |
| Time and Date Settings :Date | day | 13 | 13 | 13 | 13 | 13 |
| Time and Date Settings :Hour | Hour | 22 | 22 | 22 | 22 | 22 |
| Time and Date Settings :Minute | min | 31 | 31 | 31 | 31 | 31 |
| Time and Date Settings :Second | sec. | 30 | 31 | 31 | 32 | 32 |
| CID connection state | | ON | ON | ON | ON | OFF |
| METER connection state | | ON | ON | ON | ON | ON |
| USB3 connection state | | OFF | OFF | OFF | OFF | OFF |
| | | | | | | |

When diagnosing P04AE in 2019-2020MY Ascent, there are two separate issues which can make an accurate diagnosis difficult. The first issue is caused by an ECM logic concern and only the 2019MY Ascent is affected. The issue was corrected for the 2020MY. Normally P04AE is set when a fault is detected between the canister purge control solenoid valve and the intake manifold. However, DTC P04AE may be set by a loose fuel cap on the Ascent (2019MY only). This occurs due to an issue within the ECM. The 2020MY ECM has been updated and will set P0455 for a loose fuel cap.

The second issue is an error with the SSM4 software. Currently P04AE will not be detected during the ELCM self-test. However, P04AE can be detected using the normal diagnostic method. NASI and SBR are actively working to correct the issue with the SSM4 software. Until this is corrected, the DTC and Mode\$06 data may be retrieved after the ELCM self-test has been completed. At the end of the ELCM self-test, no DTC is detected. Without turning the key off, perform an all-DTC scan with the SSM4 software.

15 UPDATED INFOTAINMENT "CONDITIONS" INFORMATION

Changing SXM Channel Using Voice Recognition

There have been reports received regarding a faulty voice recognition system (VR) operation when changing the SXM channel by calling a channel name. It usually happens following a head unit factory reset. Harman has reviewed reports and found the root cause. This issue occurs occasionally when a SXM channel name file gets deleted from the cache during a factory reset. The countermeasure is already being worked on but at this point, the schedule is not available. In the meantime, Harman has recommended the following steps as the temporary work around. The issue can be resolved by changing the language from English to Spanish or French and back to English, followed by a full ignition (I/G) cycle (Full I/G cycle = Turn OFF I/G, open/close driver door, wait for 2-3 minutes, and turn I/G ON).



Album Artwork Display for FM Radio:

Please note, the head unit displays the album art only when HD radio is on and the info is provided by the broadcaster.



When the head unit has been rebooted, there will be a delay until the artwork is displayed. It is also true after the HD Radio option is first turned on.

Gen 1 and Gen 2 Fujitsu Ten (Denso Ten) SD Card Navigation Service Update

Please note, Subaru Map Update Download Tool (Toolbox) needs to be re-installed to support the latest 64bit MacOS Catalina. Subaru Toolbox is a utility designed to connect the Navigation device with a computer (PC or Mac) and enables the user to see all available updates, download the necessary files from the internet and upload updates and new content to the Navigation device. The latest Toolbox for Windows as well as MacOS is available to download at this link: <u>http://www.subarumapupdates.com/index-en-gb.html</u>

15 2020MY LEGACY / OUTBACK NEW IMMOBILIZER REGISTRATION PROCEDURES

This TIPS article outlines a new required procedure to follow when performing immobilizer-related repairs on the all-new 2020 Legacy and Outback. To further enhance vehicle security, this new procedure requires connection to a secure SBR server for authentication and to access immobilizer information. An 8-digit "Authentication Key" supplied by SBR will be a required input when working with SSM4. Unlike the previous system where Teaching Codes have been unchanged, the new Authentication Key will change every 6 months. TSB **15-246-19R** will be updated with the latest Authentication Key as it becomes available. The new vehicles utilize an Immobilizer Type "**G**" or "**H**" system depending on model:

- G: Vehicles with a turn key ignition switch
- H: Keyless Access with Push-Button Start.

After connecting the SSM4 to the vehicle and starting the application, from the Main Menu, select Immobilizer etc. registration, select the Vehicle then Immobilizer Type and Confirmed.

15 2020MY LEGACY / OUTBACK NEW IMMOBILIZER REGISTRATION PROCEDURES (CONTINUED)

| Start Diagnosis Immobilizer etc. registration Reprogram | Registration Work | s Select A Explanation Some Service Control of Second Service | nation le work requires a connection to the SUB/ er. nect PC to a network such as the Internet n performing these tasks. |
|---|---|---|--|
| Generic G | Immobilize Select V ILEGAC IMPRE WRX FORES ASCEP BRZ | er Vehicle EZA/XV STER NT | |
| Pisy Project | /pe | Back | Applicable model |
| Туре | Keyless access with push-button start system | Security ID (Security ID plate) | Note |
| F Type | X | Not Applicable | When PHEV |
| G Type | Not Applicable | Not Applicable | When No Immobilizer CU |
| Н Туре | x | Not Applicable | When No PHEV |
| I Type | Not Applicable | Not Applicable | When Immobilizer CU |
| | | | |

When the vehicle utilizes either a **G** or **H** -Type system, an Authentication Key is required to perform any of the immobilizer-related functions listed in the menu shown below.

| Immobilizer System Registration | |
|-------------------------------------|-----------|
| Engine Control Module Registration | |
| Central Gateway Registration | |
| Number of Registered Kev(s) | |
| Immobilizer Key ID Deletion | |
| Remote Engine Start CM Registration | |
| Telematics CM Registration | |
| | |
| | |
| | |
| | |
| | |
| | (* |
| | |
| Exit | Confirmed |

Currently, for all other models, the immobilizer registration process is unchanged.

November 2019 TechTIPS

For 2020MY Legacy and Outback with a **G** or **H** -Type system, the Server Connection screen shown below will be displayed. Input the current Authentication Key and select "Connection." Currently the Authentication key is **AGE5GP9W**.

| JBARU Server Connection Authentication | |
|---|------------|
| Authentication key of a server connection for diagnosis | Connection |
| AGE5GP9W | Cancel |
| * To connect to SUBARU Server, it is necessary to input the information. | e above |
| | |
| * Authentication Key is updated regularly. Please obtain the information from Dealer. | ne latest |

Detailed instructions for performing all immobilizer-related functions can now be found on STIS under the Other/Miscellaneous Publication Type: "20MY Registration Manual for Immobilizer" or by searching Document Code: S1090BE.

00

STIS NEW RELEASES

| ITEM CODE | ITEM TYPE | TITLE | CREATED DATE |
|------------|----------------------------------|--------------------------------|-----------------|
| 15-249-19R | Technical Service Bulletin | 2020 Audio/Navigation & Power | 02-Dec-19 |
| MSA5P3611C | Technician Reference Booklet | Electrical Theory and Diagnosi | 21-Nov-19 |
| MSA5P3415T | Technician Reference Booklet | CVT Transmission Diagnosis (No | 21-Nov-19 |
| WUR-03R | Subaru Product/Campaign Bulletin | Brake Hose Swelling Service Pr | 20-Nov-19 |
| WUM-98R | Subaru Product/Campaign Bulletin | Occupant Detection Wiring Harn | 20-Nov-19 |
| MSA5B2008A | Owner Manual | 2020MY Crosstrek Hybrid Quick | 19-Nov-19 |
| MSA5B2007A | Owner Manual | 2020MY Crosstrek Quick Guide | 19-Nov-19 |
| MSA5M2025A | Owner Manual | 2020MY Crosstrek Hybrid Subaru | 19-Nov-19 |
| MSA5M2019A | Owner Manual | 2020MY Crosstrek Subaru STARLI | 19-Nov-19 |
| MSA5M2027A | Owner Manual | 2020MY Crosstrek Hybrid Eyesig | 19-Nov-19 |
| MSA5M2018A | Owner Manual | 2020MY Crosstrek Eyesight Owne | 19-Nov-19 |
| MSA5M2008A | Owner Manual | 2020MY Crosstrek Hybrid Owner' | 19-Nov-19 |
| MSA5M2007A | Owner Manual | 2020MY Crosstrek Owner's Manua | 19-Nov-19 |

00 STIS NEW RELEASES

| ITEM CODE | ITEM TYPE | TITLE | CREATED DATE |
|-----------------|----------------------------------|--------------------------------|-----------------|
| V1390BE | Service Manual | 2020MY Crosstrek Hybrid Emerge | 19-Nov-19 |
| 01-167-08R | Technical Service Bulletin | Recommended Materials (All Veh | 18-Nov-19 |
| 15-231-18R | Technical Service Bulletin | Harman Audio / Infotainment: T | 18-Nov-19 |
| 15-228-18R | Technical Service Bulletin | Harman Audio / Infotainment: D | 18-Nov-19 |
| 15-227-18R | Technical Service Bulletin | Harman Audio / Infotainment: T | 18-Nov-19 |
| 15-251-19R | Technical Service Bulletin | DTC B2A16 | 18-Nov-19 |
| 15-221-18R | Technical Service Bulletin | Harman Audio / Infotainment: H | 18-Nov-19 |
| 15-233-18R | Technical Service Bulletin | Display / Touch Screen "Soft K | 15-Nov-19 |
| 15-220-18R | Technical Service Bulletin | Harman Audio / Infotainment: T | 15-Nov-19 |
| 15-230-18R | Technical Service Bulletin | Harman Audio / Infotainment: T | 15-Nov-19 |
| 15-229-18R | Technical Service Bulletin | Harman Audio / Infotainment: T | 15-Nov-19 |
| 15-247-19R | Technical Service Bulletin | Harman Navigation "Route Calcu | 15-Nov-19 |
| 15-226-18R | Technical Service Bulletin | Harman Audio / Infotainment: T | 15-Nov-19 |
| 15-243-19R | Technical Service Bulletin | Multi-Function Display (MFD) C | 15-Nov-19 |
| F411SFL030 | Accessory Installation Guide | 2020MY Impreza Sedan Seat Cove | 13-Nov-19 |
| F411SFL020 | Accessory Installation Guide | 2020MY Impreza Sedan Seat Cove | 13-Nov-19 |
| U1370BE | Service Manual | 2020MY Impreza/Crosstrek New C | 12-Nov-19 |
| MSA5B2001A | Owner Manual | 2020MY Impreza Quick Guide | 12-Nov-19 |
| MSA5M2012A | Owner Manual | 2020MY Impreza Eyesight Owner' | 12-Nov-19 |
| MSA5M2009A | Owner Manual | 2020MYImpreza Subaru STARLINK® | 12-Nov-19 |
| MSA5M2001A | Owner Manual | 2020MY Impreza Owner's Manual | 12-Nov-19 |
| WUP-01R | Subaru Product/Campaign Bulletin | PCV Valve- Design Change | 11-Nov-19 |
| 15-257-19 | Technical Service Bulletin | STARLINK Service Leads, DTC B2 | 11-Nov-19 |
| 15-249-19R | Technical Service Bulletin | 2020 Audio/Navigation & Power | 11-Nov-19 |
| TIPS1119-SE-CP1 | TechTIPS NewsLetter | 2020 OUTBACK/LEGACY COCKPIT GE | 11-Nov-19 |
| 15-256-19 | Technical Service Bulletin | FOTA (Firmware Over-The-Air) R | 8-Nov-19 |
| 15-255-19 | Technical Service Bulletin | Map Data Update Procedure for | 8-Nov-19 |
| 15-254-19 | Technical Service Bulletin | Map Data Update Procedure for | 8-Nov-19 |
| 11-193-19 | Technical Service Bulletin | DTC P0300- Reprogramming File | 8-Nov-19 |
| 15-236-18R | Technical Service Bulletin | Reprogramming File Availabilit | 8-Nov-19 |
| H630SAN100 | Accessory Installation Guide | LEGACY / OUTBACK Tweeter Kit | 8-Nov-19 |
| H671SSJ003 | Accessory Installation Guide | Forester USB Charging Ports | 8-Nov-19 |
| H671SSJ003 | Accessory Installation Guide | Forester USB Charging Ports (F | 8-Nov-19 |
| H671SXC003 | Accessory Installation Guide | Ascent USB Charging Ports (FRE | 8-Nov-19 |
| H671SXC003 | Accessory Installation Guide | Ascent USB Charging Ports | 8-Nov-19 |
| SNLG_01 | Other/Miscellaneous | Engine, Transmission & Turboch | 8-Nov-19 |
| WUA-86R | Subaru Product/Campaign Bulletin | Harman Kardon Head Unit Reprog | 8-Nov-19 |

All revised publications are highlighted in yellow.

00 STIS NEW RELEASES

| ITEM CODE | ITEM TYPE | TITLE | CREATED DATE |
|------------|----------------------------------|--------------------------------|-----------------|
| WTZ-85R | Subaru Product/Campaign Bulletin | Harman Kardon Head Unit FMVSS | 8-Nov-19 |
| WUE-90R | Subaru Product/Campaign Bulletin | Brake Lamp Switch Replacement | 8-Nov-19 |
| WTW-82 | Subaru Product/Campaign Bulletin | Combination Meter Reprogrammin | 8-Nov-19 |
| 07-146-19R | Technical Service Bulletin | Engine Wiring Harness- Design | 6-Nov-19 |
| H451SFL300 | Accessory Installation Guide | 2020 Impreza LED Fog Lamp Upgr | 5-Nov-19 |
| H451SFL300 | Accessory Installation Guide | 2020 Impreza LED Fog Lamp Upgr | 5-Nov-19 |
| H451SFL200 | Accessory Installation Guide | 2020 Impreza Fog Light Kit (FR | 5-Nov-19 |
| H451SFL200 | Accessory Installation Guide | 2020 Impreza Fog Light Kit | 5-Nov-19 |
| WUS-04R | Subaru Product/Campaign Bulletin | PCV Valve- Design Change | 31-Oct-19 |
| WUQ-02R | Subaru Product/Campaign Bulletin | Ignition Coil Short Circuit | 31-0ct-19 |
| 15-245-19R | Technical Service Bulletin | FOTA (Firmware Over-The-Air) R | 31-0ct-19 |

*** NOW YOU CAN E-MAIL YOUR TECHTIPS INPUT AND SUGGESTIONS TO: TECH@SUBARU.COM ***

| 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: |



Monday – Thursday 8:30 am to 7:30 pm Friday 10:30 am to 5 pm and Saturday 9 am to 3 pm