# TECH TIPS

#### **Subaru Service and Technical Support Line Newsletter**

### **October 2020**



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### SUBARU TECHLINE HOLIDAYS & HOURS OF OPERATION

Thanksgiving: (Closed)

Thursday, November 26, 2020

Day After Thanksgiving (10:30AM – 3:30PM) Friday, November 27, 2020

Holiday Break: (Closed)

Thursday, December 24, 2020 Friday, December 25, 2020 Saturday, December 26, 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 QMR of the Month Winner:

## Thomas Slaughter from Motor Mile Subaru in Christiansburg, VA

August's QMR of the Month winning report outlines the diagnosis and repair of a 2020 Outback with a customer concern of the engine running rough and making an unusual "clanking-type" sound after started cold. Thomas began by verifying the customer concerns as reported and noted both the roughness and clanking sound conditions dissipated after catalyst warm-up was complete. Since there were warning lamps illuminated, he performed a DTC scan which revealed a cylinder #1 misfire and determined the engine sound was a result of combustion occurring inside the exhaust manifold / front pipe assembly. Normal diagnostics were performed to isolate the cause of the P0301 but, nothing solid was identified. Thomas went further with compression and leak-down testing, inspection of VVT data, even valve clearance checks but all his test results were found to be within specification. Because the conditions could only be verified during warm-up after a cold start, Thomas turned his attention to the TGV system and proceeded to remove the intake manifold. The TGV diverter plates found in the cylinder head intake ports for cylinders 2 and 4 were identical but, after removing the diverter plates for cylinders 1 and 3, he found the plate removed from #1 was quite a different shape than the other 3. The odd-shaped TGV diverter plate was contacting the top of the cylinder head port and as a result, significantly restricting airflow during cold engine TGV operation. The restriction was causing #1 cylinder to run lean and the unburned fuel to combust in the exhaust manifold resulting in the clanking sound. After installing a correct TGV diverter plate, normal engine operation was restored. Thomas' QMR included detailed descriptions of all his diagnostic procedures, test results, high-quality photos and an excellent video to document this unusual discovery and repair.

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

\$500.00 Snap-On gift card

#### Continued on the next page

### 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.

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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.



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# O1 QMR of the Month (CONTINUED)

The other Regional winners selected from QMRs submitted during August 2020 were:

- John Cote from Bill Kolb Jr. Subaru in Orangeburg, NY
- David Callender from Roy Robinson Subaru in Tulalip, WA
- James Wilson from Dunning Subaru in Ann Arbor, MI
- Darin Richey from Colonial Subaru in Danbury, CT

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!



#### **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 August 2020 was Thomas Slaughter, a Subaru Senior Master Technician from Motor Mile Subaru in Christiansburg, VA.



Thomas is shown above after being presented with his \$500.00 Snap-On Gift Card. Joining him (left to right) are Subaru of America (SOA) Field Service Engineer Daniel Jackson, Motor Mile Subaru's Fixed Operations Director Rocky Fizzano and Service Manager Michael Sowers along with SOA District Parts and Service Manager Alex Adkins.

Congratulations and THANK YOU to our August 2020 QMR of the Month Award recipient!

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#### **Subaru Express Service - Low-Touch Best Practices for Technicians**

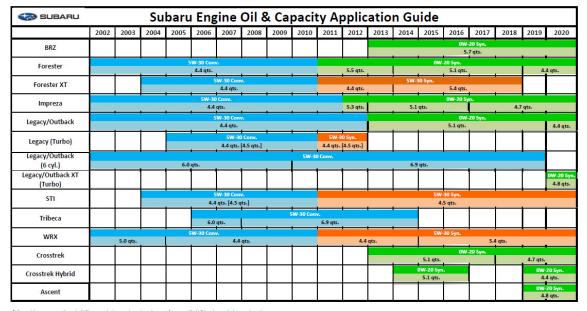
The Subaru Express Service Team has developed a set of low-touch best practices for Express Service Technicians performing work on customer vehicles during this pandemic. These best practices are meant to provide Express Service Technicians and customers a safe, clean experience.

- Technicians should wear gloves and face masks while working on customer vehicles. Gloves should be changed out between each service.
- Three options for checking the Engine/Cabin Air Filters:
  - Recommend replacement based on mileage intervals and previous maintenance history AND DO NOT remove filters for presentation.
  - Technicians should remove filters and send pictures of the filter condition to the Express Service Representative (ESR) to show the customer during their Multi-Point Inspection (MPI) presentation.
  - Follow normal procedure for removing filters for physical Multi-Point Inspection (MPI) presentation, but only the Express Service Representative (ESR) handles the filters.
- Any food/beverages should not be in the Technician service bays.



#### **Oil Capacity**

The Techline and Customer Advocacy Department (CAD) have received calls from customers with concerns about their vehicle being overfilled after an oil change has been performed. NOTE: some newer model year vehicles have a lower oil capacity than prior year models. Please refer to the chart below. Technicians should be allowing adequate drain time to allow for more accurate dipstick readings. Always be sure to double check oil levels before releasing the vehicle to the customer. This chart may be found on Subarunet under Parts/ Service- Prgms/ Accessories \ Oil Programs \ Oil Charts/ Resources tab.



Capacities assume oil and oil filter are being replaced - subtract .2 quarts if oil filter is not being replaced

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FOR REFERENCE ONLY

## 01

#### **CPO PROCEDURE FOR TURBOCHARGED SUBARU VEHICLES**

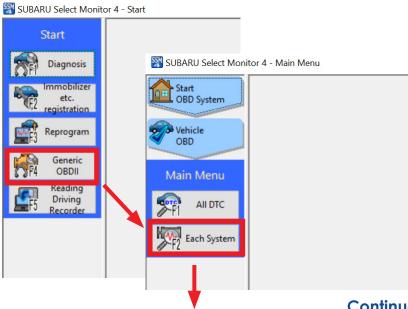
Techline has observed a surge in Certified Pre-Owned (CPO) submissions with the increased number of turbocharged engines across multiple platforms. As part of the CPO program, turbocharged vehicles require the Calibration Identification/ Calibration Verification Numbers (CID/CVN) to be checked before enrollment. Due to the high number of inquiries to Techline, we felt it necessary to remind retailers of the correct CPO procedures. To help serve retailers in a timely manner, please review the CPO process and expectations using the provided instructions below. Incorrect submissions will delay the process for all parties involved. Responses to CPO requests are returned within a 24hr time period. Holidays & weekends may affect return times.

- Vehicles more than five years old ARE NOT eligible for CPO.
- Checking the CID/CVN over the phone for CPO purposes is NOT the correct procedure.
- Vehicles which are customer pay or used car inspections should not be submitted. Example: A
  customer wants to buy a 2017 STI privately, from the local used car lot. The customer brings the
  vehicle to the retailer to make sure it has not been modified. In this situation, the retailer should
  contact Techline and open a case to verify CID/CVN.
- Vehicles that are at the retailer for warranty work, such as short block failure or check engine light diagnosis, should contact Techline.
- Vehicles confirmed to be modified should be called in to the Techline, a case opened and a Vehicle Modification Report filed.

#### **#1 Vehicle Information Acquisition screen**

Please be sure to obtain a clear, crisp image of the vehicle information acquisition screen. An example is shown below. Please DO NOT submit any hand written information. Vehicle Information Sheets (VIS) or a copy of the Repair Order (RO) are also unacceptable. This information should ONLY be obtained using the Subaru Select Monitor. Pictures taken with a cell phone are acceptable as long and the information can be clearly read.

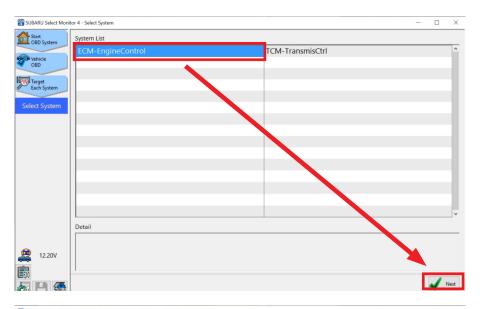
SSM4 instruction on obtaining the acquisition screen.

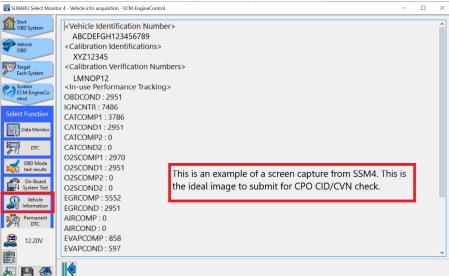


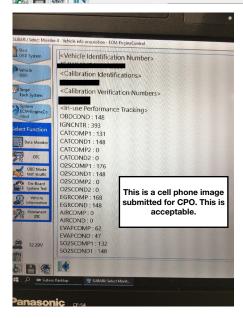
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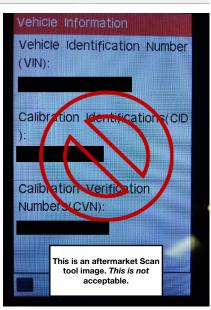
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#### **CPO PROCEDURE FOR TURBOCHARGED SUBARU VEHICLES (CONTINUED)**









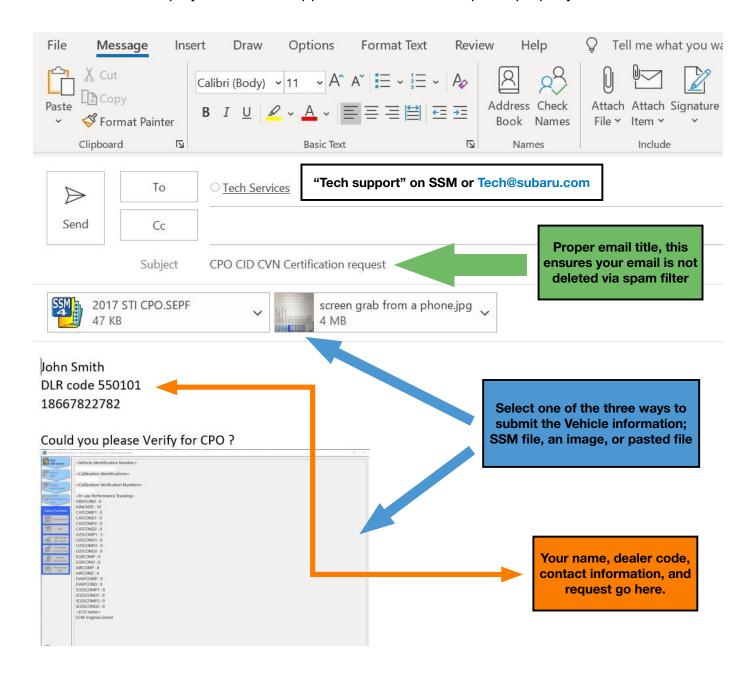
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#### **CPO PROCEDURE FOR TURBOCHARGED SUBARU VEHICLES (CONTINUED)**

#### **#2 Email submission instructions**

Submitting a CPO CID/CVN request is just like calling Techline. A case needs to be opened with credible information. This information includes: your full name, dealer code, and a contact number. You will always receive the confirmation email from the account you submitted it by. Always submit a CPO request from an email account that you have access to and check regularly. The email address to submit the CPO request is Tech@subaru.com. When following the Send-SSM4 document instructions on Subarunet it is displayed as "tech support". Here is an example of properly submitted email.



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Techline continues to receive calls regarding 20MY Legacy and Outback Immobilizer registration. When adding keys, programming a remote start, or making immobilizer system repairs to a G/H type system an 8-digit "Authentication Key" is required. As a reminder, this new Authentication Key will change approximately every 6 months. For detailed information and latest Authentication Key, refer to TSB **15-246-19R**. Bellow is The Application Chart for Immobilizer for reference to the varying types of immobilizers.

	US model	2005MY 2006MY 2007MY	2008MY 2009MY 2010MY	2011MY 2012MY	2013MY 201	4MY 2015MY 2016MY	2017MY 2018MY 2	2019MY 2020MY 20
Legacy	Key Access type	A type			B type	G		
овк	keyless Access with push- button start system			D type	)	Н		
Tribeca	Key Access type		A type	е				
MPREZA	Key Access type		A type			Bt	уре	
MPREZA	keyless Access with push- button start system	D type						
Propostrole	Key Access type	B type				B type		
Crosstrek	keyless Access with push- button start system	D type						
Crosstrek Hybrid	keyless Access with push- button start system					D type		F type
WRX/STI	Key Access type	A type				B type		
WKX/511	keyless Access with push- button start system					D type		
Farantar	Key Access type			A type			B type	
Forester	keyless Access with push- button start system						D type	
BRZ	Key Access type					X type		
DRZ	keyless Access with push- button start system						Y type	
ACCENT	Key Access type							B type
ASCENT	keyless Access with push- button start system							D type

07

#### **Identical Electrical Connectors**

Most electrical connectors in Subaru vehicles have unique designs which allow them to be plugged in to only one component. However, this does not apply to all connectors. Some connectors have the same physical shape and will connect to multiple components. These connectors don't always have the same power, ground, or signal pins. If the component receives the incorrect circuit path, the component could be damaged. This is very common when installing Keyless Access Control Modules. Below are some examples of identical connectors for different components.





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#### 2020+ Legacy/Outback Passenger Air Mix and Intake Air Door Actuators

Techline recently received a call regarding a concern of the passenger side HVAC always blowing hot air. The Technician found DTC B1441 "Air Mix door actuator circuit stuck (Passenger)". After following the DTC trouble tree the Technician found the passenger air mix door actuator required replacement. Following replacement of the actuator the Tech found the condition was still present. Upon further inspection the Tech determined both the air mix door actuator (i190) and the intake door actuator (i188) connectors are the same. After moving the connectors to their correct locations normal HVAC operation was restored.

There are two key differences to note when servicing these connectors.

- 1. The 5 wires for i190 connector are V, W, Sb, P and Br. The 5 wires for the i188 connector are V, P, Sb, Or and V.
- 2. The coverings for each harness have some key differences as well, the i190 connector has a soft tubing and the i188 connector has a hard plastic-corrugated tubing.

Bellow is each connector in the correct locations on the left i190 Air mix door actuator, Right i188 intake air door actuator.



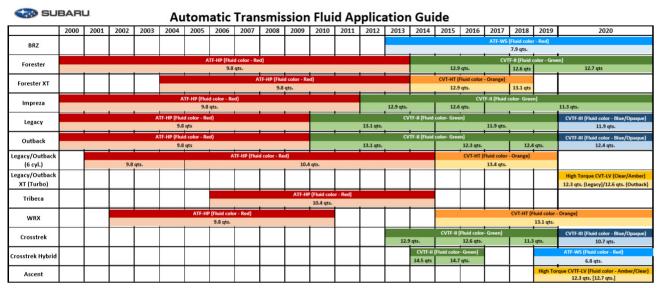


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#### **Automatic Transmission Fluid types**

Techline has received some calls with questions regarding automatic transmission fluid types. Fluid types can be found in the appropriate Service Manual under General Description>Recommended Materials. Below is a handy chart to help know what transmission fluid type is required for each vehicle as well.

**NOTE:** All fluid amounts below are capacities from dry and capacities within brackets are applicable for vehicles equipped with oil coolers. This chart may be found on **Subarunet under Parts/ Service-Prgms/ Accessories \ Oil Programs \ Oil Charts/ Resources tab.** 



# 00 STIS New Releases

ITEM CODE	ITEM TYPE	TITLE	CREATED DATE
07-181-20	Technical Service Bulletin	DTC B1572- Revised Immobilizer	16-0ct-20
06-77-20R Technical Service Bulletin		DTCs C1531 and C1741- VDC Cont	15-0ct-20
12-303-20	Technical Service Bulletin	Left Rear Seat Belt -Design Ch	15-0ct-20
14-22-16R Technical Service Bulletin		Special Service Tool Cross Ref	15-0ct-20
12-302-20	Technical Service Bulletin	Squeaking Sound from Front Sea	14-0ct-20
15-205-16R	Technical Service Bulletin	Reprogramming File Availabilit	13-0ct-20
15-272-20R	Technical Service Bulletin	2021 Audio/Navigation & Power	13-0ct-20
05-78-20	Technical Service Bulletin	DTC C2921 ID Registration Erro	13-0ct-20
16-128-20R	Technical Service Bulletin	DTC P0842 / Transmission Harne	9-0ct-20
12-289-20	Technical Service Bulletin	Rear Gate Stay Warranty Extens	9-0ct-20
WTB-63R	Subaru Product/Campaign Bulletin	Service Campaign - Electronic	9-0ct-20
06-80-20	Technical Service Bulletin	DTC C0075 Repair Information	8-0ct-20
14-26-20	Technical Service Bulletin	FA / FB Front Timing Chain Cov	7-0ct-20
WUJ-95R	Subaru Product/Campaign Bulletin	Exhaust Pipe Front (EPF) Bello	7-0ct-20
	T 1 1 10 1 D 11 11	Rear Outer Seat Belts Not Retr	7-0ct-20
12-298-20	Technical Service Bulletin	near outer sear delis not neti	1 001 20
12-298-20 10-98-20	Technical Service Bulletin	New Air Conditioning (A/C) Com	7-0ct-20
10-98-20	Technical Service Bulletin	New Air Conditioning (A/C) Com	7-0ct-20
10-98-20 07-155-19R	Technical Service Bulletin  Technical Service Bulletin	New Air Conditioning (A/C) Com  Power Rear Gate (PRG) Control	7-0ct-20 6-0ct-20
10-98-20 07-155-19R H501SSG203	Technical Service Bulletin  Technical Service Bulletin  Accessory Installation Guide	New Air Conditioning (A/C) Com  Power Rear Gate (PRG) Control  PORT INSTALLATION: 2020MY Lega	7-0ct-20 6-0ct-20 5-0ct-20
10-98-20 07-155-19R H501SSG203 07-179-20	Technical Service Bulletin  Technical Service Bulletin  Accessory Installation Guide  Technical Service Bulletin	New Air Conditioning (A/C) Com  Power Rear Gate (PRG) Control  PORT INSTALLATION: 2020MY Lega  Power Rear Gate (PRG) Control	7-0ct-20 6-0ct-20 5-0ct-20 5-0ct-20
10-98-20 07-155-19R H501SSG203 07-179-20 MSA5M2101W	Technical Service Bulletin  Technical Service Bulletin  Accessory Installation Guide  Technical Service Bulletin  Warranty Booklet	New Air Conditioning (A/C) Com  Power Rear Gate (PRG) Control  PORT INSTALLATION: 2020MY Lega  Power Rear Gate (PRG) Control  2021 Warranty and Maintenance	7-0ct-20 6-0ct-20 5-0ct-20 5-0ct-20 5-0ct-20
10-98-20 07-155-19R H501SSG203 07-179-20 MSA5M2101W MSA5B2101A	Technical Service Bulletin  Technical Service Bulletin  Accessory Installation Guide  Technical Service Bulletin  Warranty Booklet  Owner Manual	New Air Conditioning (A/C) Com  Power Rear Gate (PRG) Control  PORT INSTALLATION: 2020MY Lega  Power Rear Gate (PRG) Control  2021 Warranty and Maintenance  2021 Getting Started Guide	7-0ct-20 6-0ct-20 5-0ct-20 5-0ct-20 5-0ct-20 2-0ct-20
10-98-20 07-155-19R H501SSG203 07-179-20 MSA5M2101W MSA5B2101A MSA5M2112A	Technical Service Bulletin  Technical Service Bulletin  Accessory Installation Guide  Technical Service Bulletin  Warranty Booklet  Owner Manual  Owner Manual	New Air Conditioning (A/C) Com  Power Rear Gate (PRG) Control  PORT INSTALLATION: 2020MY Lega  Power Rear Gate (PRG) Control  2021 Warranty and Maintenance  2021 Getting Started Guide  2021MY Impreza Eyesight Owner'	7-0ct-20 6-0ct-20 5-0ct-20 5-0ct-20 5-0ct-20 2-0ct-20 2-0ct-20
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10-98-20 07-155-19R H501SSG203 07-179-20 MSA5M2101W MSA5B2101A MSA5M2112A MSA5M2109A MSA5M2101A WRD-20R 18-201-20 12-300-20 05-77-20 SUTTIPSLOC	Technical Service Bulletin  Technical Service Bulletin  Accessory Installation Guide  Technical Service Bulletin  Warranty Booklet  Owner Manual  Owner Manual  Owner Manual  Owner Manual  Subaru Product/Campaign Bulletin  Service Manual Correction  Technical Service Bulletin  Technical Service Bulletin  Other/Miscellaneous	New Air Conditioning (A/C) Com  Power Rear Gate (PRG) Control  PORT INSTALLATION: 2020MY Lega  Power Rear Gate (PRG) Control  2021 Warranty and Maintenance  2021 Getting Started Guide  2021MY Impreza Eyesight Owner'  2021MYImpreza Subaru STARLINK®  2021MY Impreza Owner's Manual  Fuel Pump Impeller Failure  Service Manual Corrections  Power Rear Gate (PRG) Switch T  Front Suspension Alignment Spe  TechTIPS Article Locator Index	7-0ct-20 6-0ct-20 5-0ct-20 5-0ct-20 5-0ct-20 2-0ct-20 2-0ct-20 2-0ct-20 2-0ct-20 2-0ct-20 30-Sep-20 30-Sep-20 29-Sep-20
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ITEM CODE	ITEM TYPE	TITLE	CREATED DATE
15-230-18R	Technical Service Bulletin	Harman Audio / Infotainment: T	28-Sep-20
15-229-18R	Technical Service Bulletin	Harman Audio / Infotainment: T	28-Sep-20
15-228-18R	Technical Service Bulletin	Harman Audio / Infotainment: D	28-Sep-20
15-247-19R	Technical Service Bulletin	Harman Navigation "Route Calcu	28-Sep-20
15-227-18R	Technical Service Bulletin	Harman Audio / Infotainment: T	28-Sep-20
15-226-18R	Technical Service Bulletin	Harman Audio / Infotainment: T	28-Sep-20
15-243-19R	Technical Service Bulletin	Multi-Function Display (MFD) C	28-Sep-20
15-221-18R	Technical Service Bulletin	Harman Audio / Infotainment: H	28-Sep-20
TECH_SRVY_20	Other/Miscellaneous	2020 Subaru Technician Survey	28-Sep-20

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# SUBARU TECHLINE Hours of Operation

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