TOYOTA
Technical Service Bulletin

MIL ON With Turbo Wastegate Corrosion

Service Category Engine/Hybrid System

Section Intake/Exhaust **Market** USA

Toyota Supports ASE Certification

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2023 - 2025	Sequoia HV	
2022 - 2025	Tundra, Tundra HV	

Introduction

Some 2022 – 2025 model year Tundra and Tundra Hybrid and 2023 – 2025 Sequoia Hybrid vehicles may exhibit an MIL ON condition with one or more of the following Diagnostic Trouble Codes (DTCs):

- P25B372 – Turbocharger/Supercharger Wastegate “A” Actuator Stuck Open
- P25B473 – Turbocharger/Supercharger Wastegate “A” Actuator Stuck Closed
- P25B572 – Turbocharger/Supercharger Wastegate “B” Actuator Stuck Open
- P25B673 – Turbocharger/Supercharger Wastegate “B” Actuator Stuck Closed

Visual inspection may reveal corrosion on the wastegate actuator linkage. The turbocharger assembly has been updated to prevent this condition from occurring. Follow the Repair Procedure in this bulletin to address this condition.

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Production Change Information

This bulletin applies to vehicles produced **BEFORE** the Production Change Effective VINs shown below.

MODEL	PLANT	FRAME TYPE	PRODUCTION CHANGE EFFECTIVE VIN
Sequoia HV	TMMTX	VXKH80	7SVAAAAA#SX004152
		VXKH85	7SVAAABA#SX054484
Tundra		VXKA70	5TFLA5AB#SX044802
		VXKA71	5TFJA5BC#SX003554
		VXKA72	5TFKB5CD#SX001995
		VXKA75	5TFKB5DA#SX268443
		VXKA76	5TFLA5EC#SX040735
		VXKA77	5TFLA5GD#SX003705
Tundra HV		VXKH70	5TFJC5AB#SX003903
		VXKH71	5TFWC5BC#SX001209
		VXKH75	5TFWC5DB#SX089387
		VXKH76	5TFJC5EC#SX008526

Warranty Information

NOTE

Refer to Customer Support Program 26TE04 for warranty applicability and claim filing instructions.

Parts Information

PART NUMBER	PART NAME	QTY
17201-F4011-84	Reman Turbocharger Sub-Assy, No. 1	1
17208-F4011-84	Reman Turbocharger Sub-Assy, No. 2	1
04175-F4010	Gasket Kit, Turbocharger	1
04175-F4020		1
17452-70010	Clamp, Exhaust Pipe	2
00279-0WQTE-6S	0W20 Motor Oil	1
00272-1LLAC	Super Long Life Coolant (4.6 US Qts)	1

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Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
DCA-8000 Battery Diagnostic Tool*	DCA-8000P-T	1

*Essential SST.

NOTE

Additional SSTs may be ordered by calling 1-800-368-6787 or by visiting *Home – Service Resources – Toyota Tools and Equipment Program*.

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
Techstream ADVi*	ADE	TSADVUNITECP	1
Techstream Lite		TSLP3DLR01	
Techstream Lite (Green Cable)		TSLP2DLR01	

*Essential SST.

NOTE

- Only ONE of the Techstream units listed above is required.
- GTS+ Software version 2026.03.002.02 or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787 or by visiting *TIS – Diagnostics – Tools & Equipment – Techstream Order Portal*.

Repair Procedure

1. Confirm the condition exists.
   Does the vehicle exhibit a MIL ON condition with any of the following DTCs?
   - P25B372 – Turbocharger/Supercharger Wastegate “A” Actuator Stuck Open
   - P25B473 – Turbocharger/Supercharger Wastegate “A” Actuator Stuck Closed
   - P25B572 – Turbocharger/Supercharger Wastegate “B” Actuator Stuck Open
   - P25B673 – Turbocharger/Supercharger Wastegate “B” Actuator Stuck Closed

   - **YES —** Continue to step 2.
   - **NO —** This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.

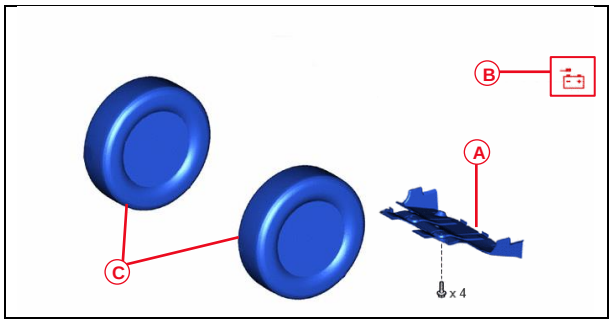
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Repair Procedure (continued)

2. Does the vehicle have an open campaign of 24TA07 and/or 24TA14?
   - **YES —** Please perform the open campaign; the engine assembly has updated the turbocharger assemblies.
   - **NO —** Continue to step 3.
3. Remove the left-hand and right-hand turbocharger assemblies.
   A. Remove the No. 1 engine under cover assembly.
   B. Disconnect the cable from the negative battery terminal.
   C. Remove the front wheels.

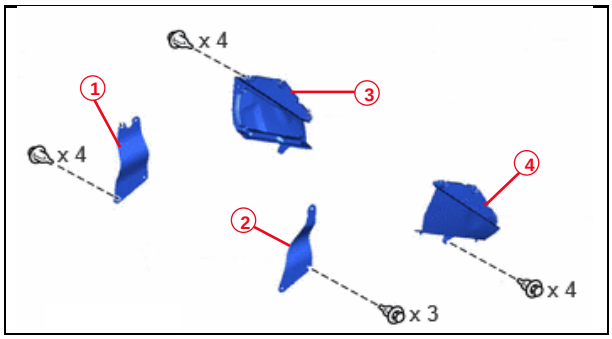
Figure 1.



A	No. 1 Engine Under Cover Assembly
B	Negative Battery Terminal
C	Front Wheels

   D. Remove the front fender:
      (1) Remove the apron trim packing A
      (2) Remove the apron trim packing B
      (3) Remove the apron trim packing C
      (4) Remove the apron trim packing D
   E. Drain the engine oil.
   F. Drain the coolant for ONLY the intercooler.

Figure 2.



1	Front Fender Apron Trim Packing A
2	Front Fender Apron Trim Packing B
3	Front Fender Apron Trim Packing C
4	Front Fender Apron Trim Packing D

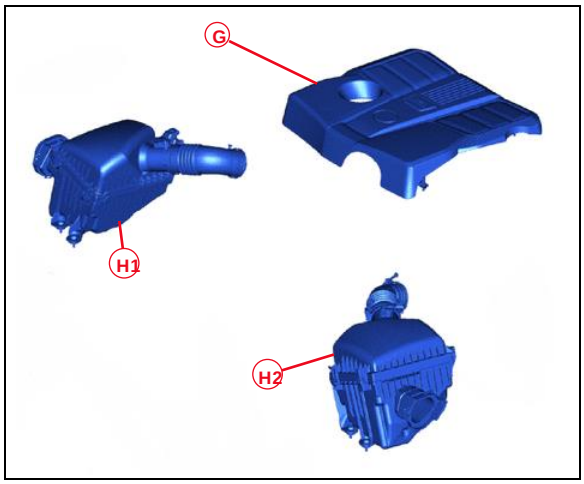
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Repair Procedure (continued)

G. Remove the V-bank cover sub-assembly.
H. Remove the right-hand and left-hand air cleaner assemblies.

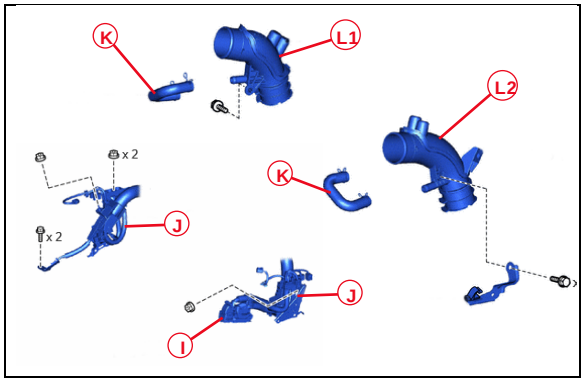
Figure 3.



G	V-bank Cover Sub-assembly
H1	Right-hand Air Cleaner Assembly
H2	Left-hand Air Cleaner Assembly

I. Disconnect the Electronic Control Module (ECM) connector.
J. Move the engine wire to the side.
K. Remove the No. 2 Positive Crankcase Ventilation (PCV) hose (No. 2 ventilation hose).
L. Remove the No. 1 and No. 2 air inlet ducts.

Figure 4.



I	ECM Connector
J	Engine Wire
K	No. 2 PCV Hose
L1	No. 1 Air Inlet Duct
L2	No. 2 Air Inlet Duct

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Repair Procedure (continued)

M. Align the front wheels so that they are facing straight ahead.

N. Secure the steering wheel.

O. Disconnect the No. 2 steering intermediate shaft sub-assembly.

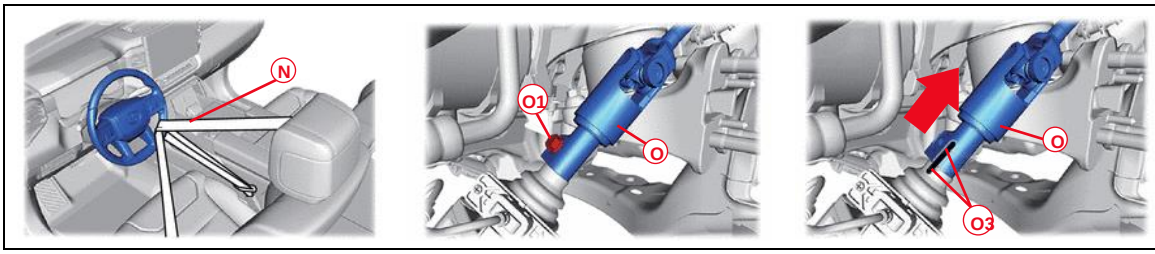
(1) Remove the bolt.

(2) Slide the No. 2 steering intermediate shaft sub-assembly in the direction shown by the arrow in Figure 5.

(3) Put the matchmark on the No. 2 steering intermediate shaft sub-assembly and the rack and pinion power steering gear assembly.

(4) Disconnect the No. 2 steering intermediate shaft sub-assembly from the rack and pinion power steering gas assembly.

Figure 5.



N	Seat Belt Securing Steering Wheel
O	No. 2 Steering Intermediate Shaft Sub-assembly
O1	Bolt
O3	Matchmark

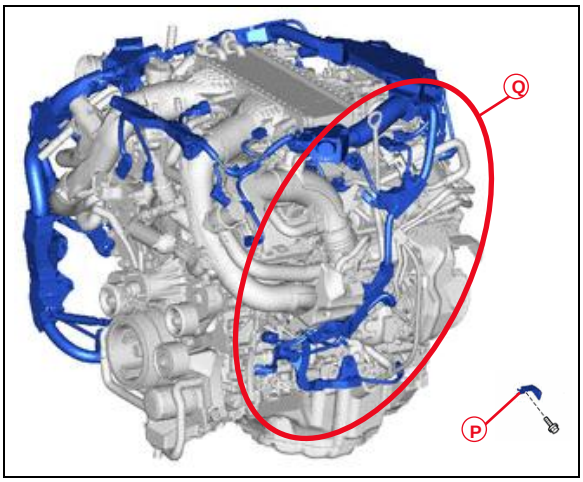
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Repair Procedure (continued)

P. Remove the No. 6 turbo insulator.
Q. Move the engine wire section.

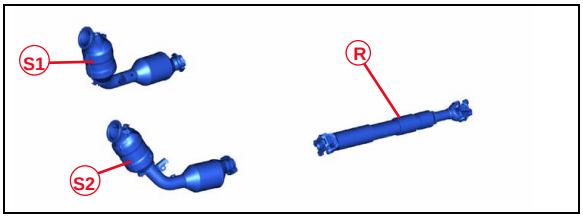
Figure 6.



P	No. 6 Turbo Insulator
Q	Engine Wire Section

R. Remove the front propeller shaft assembly (for 4WD ONLY).
S. Remove the converters with the left-hand and right-hand catalyst assemblies.

Figure 7.



R	Front Propeller Shaft
S1	Converter with Left-hand Catalyst Assembly
S2	Converter with Right-hand Catalyst Assembly

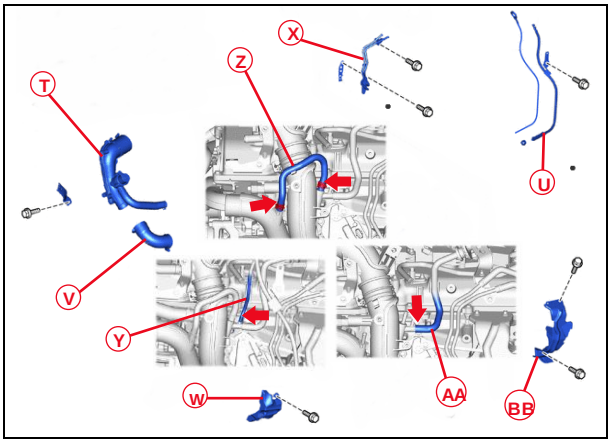
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Repair Procedure (continued)

T. Remove the No. 2 air tube assembly.
U. Remove the engine oil level dipstick guide.
V. Remove the No. 3 air hose.
W. Remove the No. 2 engine cover sub-assembly.
X. Disconnect the No. 2 turbo water pipe sub-assembly.
Y. Remove the vacuum hose.
Z. Remove the No. 6 air hose.
AA. Remove the No. 4 fuel vapor feed hose.
BB. Remove the No. 3 turbo insulator.

Figure 8.



T	No. 2 Air Tube Assembly
U	Engine Oil Dipstick
V	No. 3 Air Hose
W	No. 2 Engine Cover Sub-assembly
X	No. 2 Turbo Water Pipe Sub-assembly
Y	Vacuum Hose
Z	No. 6 Air Hose
AA	No. 4 Fuel Vapor Feed Hose
BB	No. 3 Turbo Insulator

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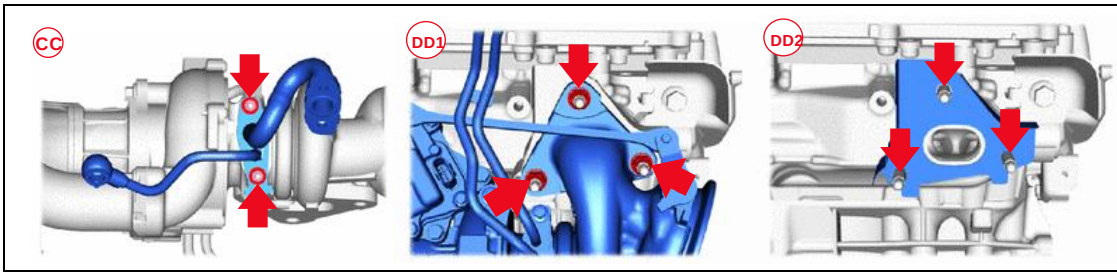
Repair Procedure (continued)

CC. Disconnect the turbo oil inlet pipe from the left-hand turbocharger assembly.

> NOTE
> Do NOT remove the turbo oil inlet pipe from the engine block.

DD. Remove the turbocharger stud bolts and studs, pointed out by the arrows in Figure 9.

Figure 9.

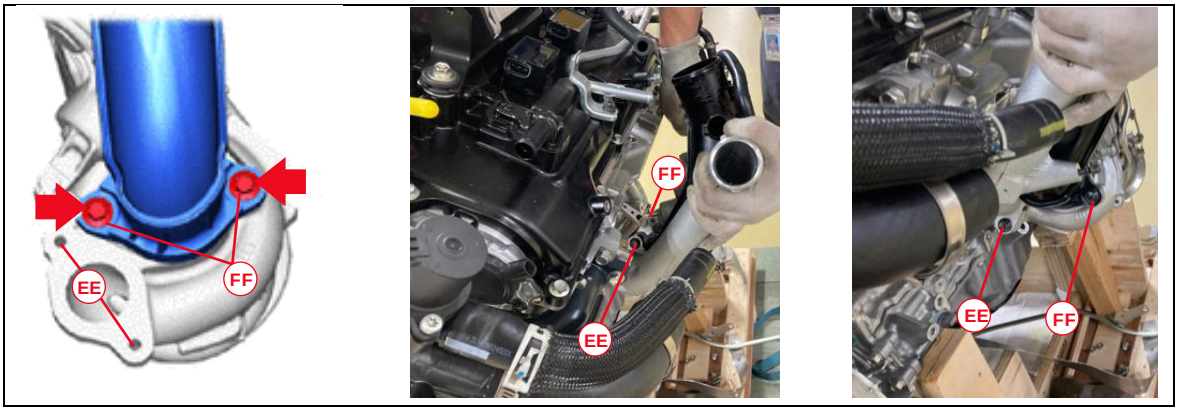


CC	Turbo Oil Inlet Pipe
DD1	Turbocharger Stud Bolts
DD2	Turbocharger Studs

EE. Loosen the No. 2 compressor outlet elbow bolts.

FF. Loosen the No. 2 compressor inlet elbow sub-assembly bolts.

Figure 10.



EE	No. 2 Compressor Outlet Elbow Bolts
FF	No. 2 Compressor Inlet Elbow Sub-assembly Bolts

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Repair Procedure (continued)

GG. Tilt and remove the left-hand turbocharger from the bottom of the vehicle.

Figure 11. Turbocharger in the Bottom of the Vehicle

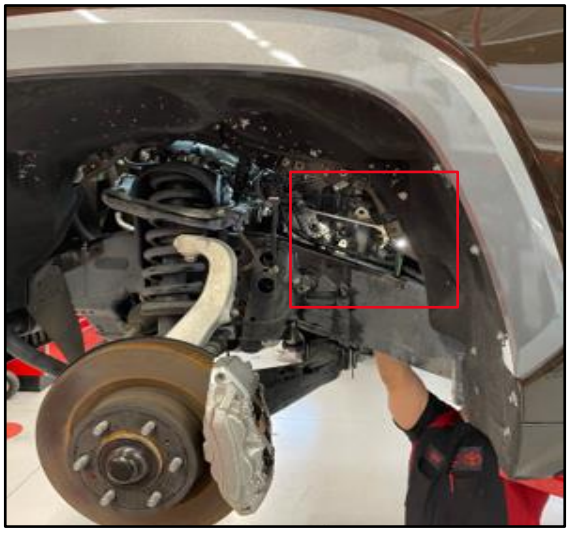


Figure 12. Parts Transferred to the New Left-hand Turbocharger



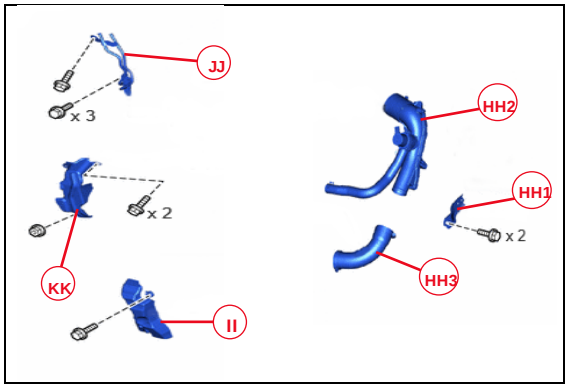
HH. Remove the No. 1 air tube support, air tube assembly, and air hose.

II. Remove the No. 1 engine cover sub-assembly.

JJ. Disconnect the No. 1 turbo water pipe sub-assembly.

KK. Remove the No. 1 turbo insulator.

Figure 13.



HH1	No. 1 Air Tube Support
HH2	No. 1 Air Tube Assembly
HH3	No. 1 Air Hose
II	No. 1 Engine Cover Sub-assembly
JJ	No. 1 Turbo Water Pipe Sub-assembly
KK	No. 1 Turbo Insulator

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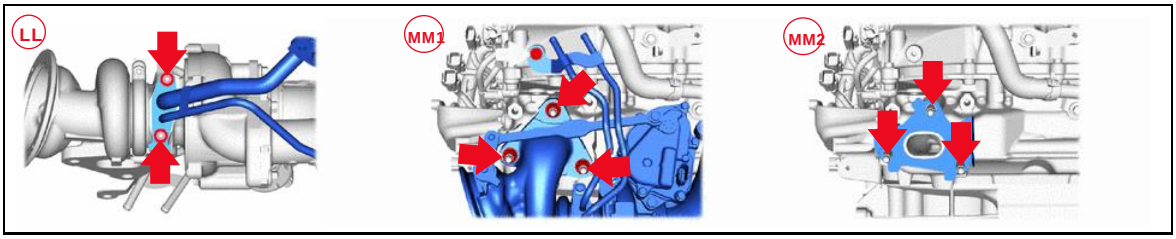
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Repair Procedure (continued)

LL. Disconnect the turbo oil inlet pipe from the right-hand turbocharger assembly.

MM. Remove the turbocharger stud bolts and studs.

Figure 14.

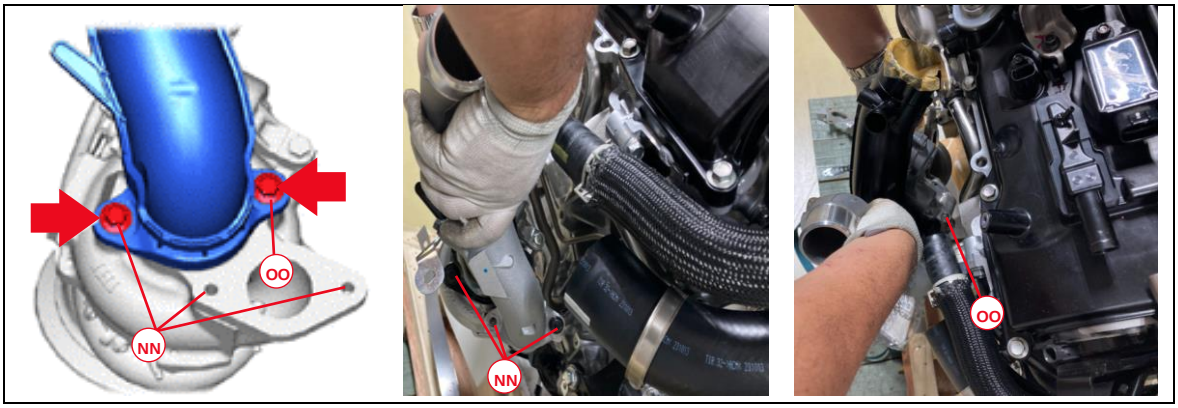


LL	Turbo Oil Inlet Pipe Bolts
MM1	Turbocharger Stud Bolts
MM2	Turbocharger Studs

NN. Loosen the No. 1 compressor outlet elbow bolts.

OO. Loosen the No. 1 compressor inlet elbow sub-assembly bolts.

Figure 15.



NN	No. 1 Compressor Outlet Elbow Bolts
OO	No. 1 Compressor Inlet Elbow Sub-assembly Bolts

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Repair Procedure (continued)

PP. Tilt and remove the right-hand turbocharger from the bottom of the vehicle.

4. Install the right-hand and left-hand turbocharger assemblies.
   A. Tilt and install the right-hand turbocharger into the bottom of the vehicle.

Figure 16. Turbocharger in the Bottom of the Vehicle

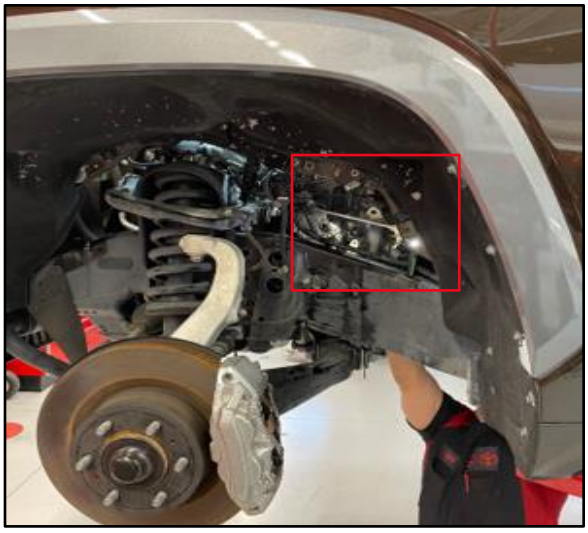


Figure 17. Parts Transferred to the New Right-hand Turbocharger



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Repair Procedure (continued)

B. Tighten the No. 1 compressor inlet elbow sub-assembly bolts in the vehicle.
C. Tighten the No. 1 compressor outlet elbow bolts in the vehicle.

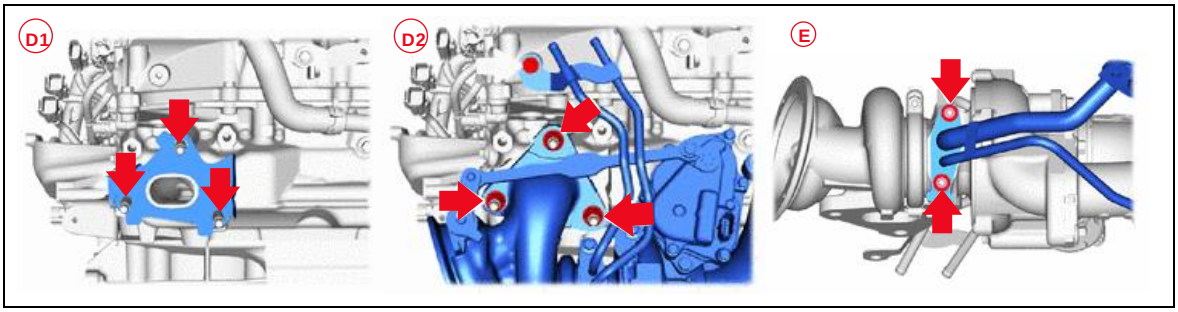
Figure 18.



B	No. 1 Compressor Outlet Elbow Bolts
C	No. 1 Compressor Inlet Elbow Sub-assembly Bolts

D. Install the turbocharger studs and stud bolts.
E. Install the right-hand turbo oil inlet pipe sub-assembly.

Figure 19.



D1	Turbocharger Studs Bolts
D2	Turbocharger Studs
E	Turbo Oil Inlet Pipe Bolts

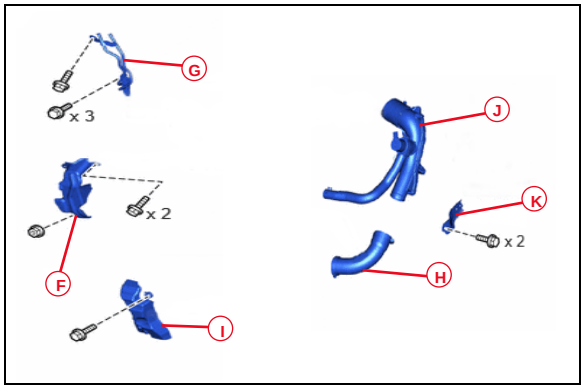
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Repair Procedure (continued)

F. Install the No. 1 turbo insulator.
G. Connect the No. 1 turbo water pipe sub-assembly.
H. Install the No. 1 engine cover sub-assembly.
I. Install the No. 1 air hose.
J. Install the No. 1 air tube assembly.
K. Install the No. 1 air tube support.

Figure 20.



F	No. 1 Turbo Insulator
G	No. 1 Turbo Water Pipe Sub-assembly
H	No. 1 Engine Cover Sub-assembly
I	No. 1 Air Hose
J	No. 1 Air Tube Assembly
K	No. 1 Air Tube Support

L. Tilt and install the left-hand turbocharger.

Figure 21. Turbocharger in the Bottom of the Vehicle



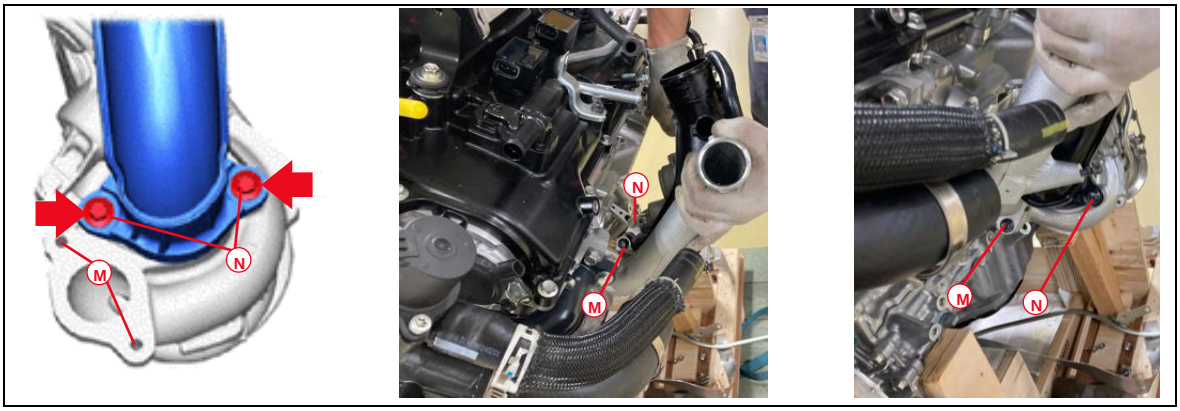
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Repair Procedure (continued)

M. Tighten the No. 2 compressor inlet elbow sub-assembly bolts in the vehicle.
N. Tighten the No. 2 compressor outlet elbow bolts in the vehicle.

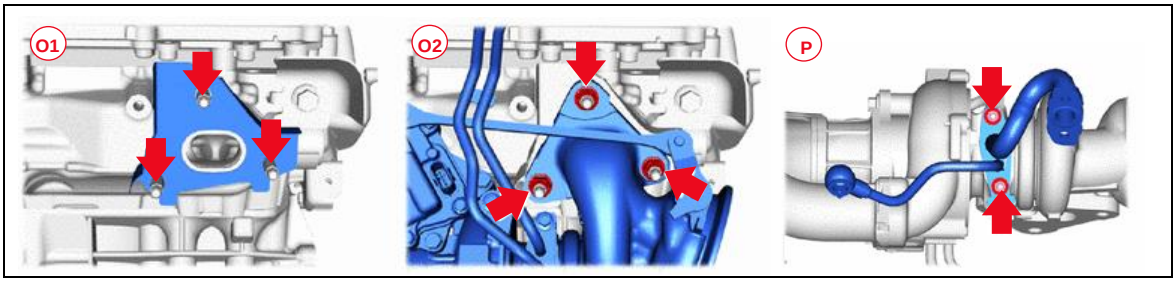
Figure 22.



M	No. 2 Compressor Outlet Elbow Bolts
N	No. 2 Compressor Inlet Elbow Sub-assembly Bolts

O. Install the turbocharger studs and stud bolts.
P. Install the left-hand turbo oil inlet pipe sub-assembly.

Figure 23.



O1	Turbocharger Studs
O2	Turbocharger Stud Bolts
P	Left-hand Turbo Oil Inlet Pipe Sub-assembly Bolts

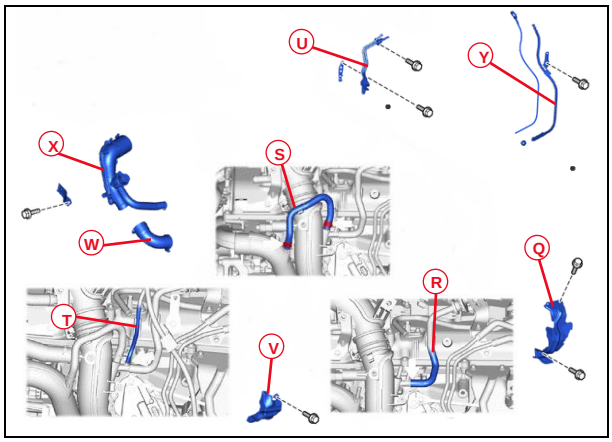
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Repair Procedure (continued)

Q. Install the No. 3 turbo insulator.
R. Install the No. 4 fuel vapor feed hose.
S. Install the No. 6 air hose.
T. Install the vacuum hose.
U. Install and connect the No. 2 turbo water pipe sub-assembly.
V. Install the No. 2 engine cover sub-assembly.
W. Install the No. 3 air hose.
X. Install the No. 2 air tube assembly.
Y. Install the engine oil level dipstick guide.

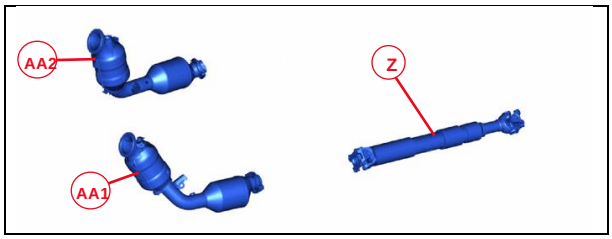
Figure 24.



Q	No. 3 Turbo Insulator
R	No. 4 Fuel Vapor Feed Hose
S	No. 6 Air Hose
T	Vacuum Hose
U	No. 2 Turbo Water Pipe Sub-assembly
V	No. 2 Engine Cover Sub-assembly
W	No. 3 Air Hose
X	No. 2 Air Tube Assembly
Y	Engine Oil Dipstick

Z. Install the front propeller shaft assembly (for 4WD ONLY).
AA. Install the converters with the left-hand and right-hand catalyst assemblies.

Figure 25.



Z	Front Propeller Shaft
AA1	Converter with Left-hand Catalyst Assembly
AA2	Converter with Right-hand Catalyst Assembly

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Repair Procedure (continued)

BB. Install the engine wire.

CC. Install the No. 6 turbo insulator.

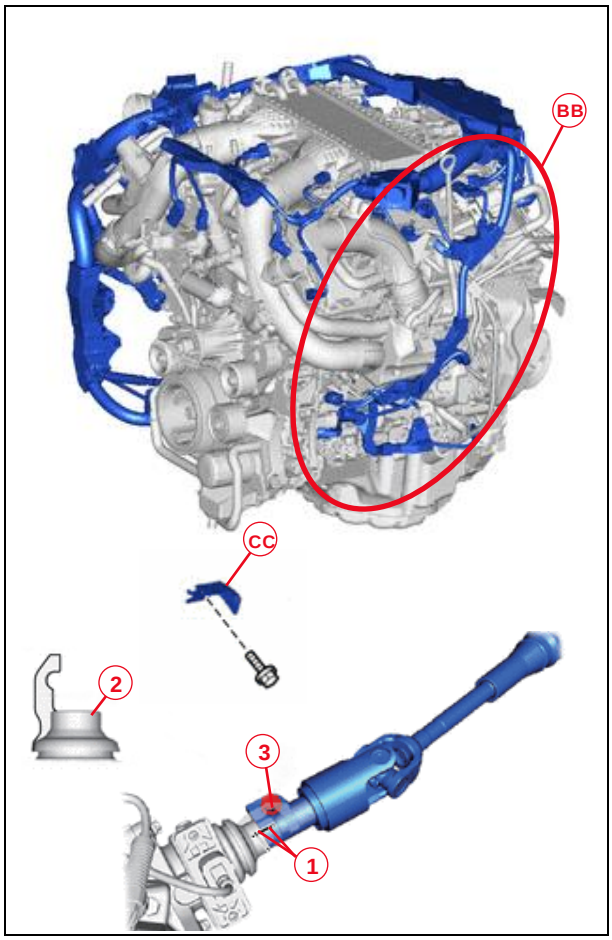
DD. Connect the No. 2 steering intermediate shaft sub-assembly.

(1) If the dust cover was removed, install by aligning with the matchmarks.

(2) Align the part of the dust cover labeled 2 with No. 2 steering intermediate shaft and install the No. 2 steering intermediate shaft assembly to the rack and pinion power steering gear assembly.

(3) Tighten the No. 2 steering intermediate shaft with the bolt.

Figure 26.



BB	Engine Wire
CC	No. 6 Turbo Insulator
DD	No. 2 Steering Intermediate Shaft Sub-assembly
1	Matchmark
2	Dust Cover Labeled 2
3	Bolt

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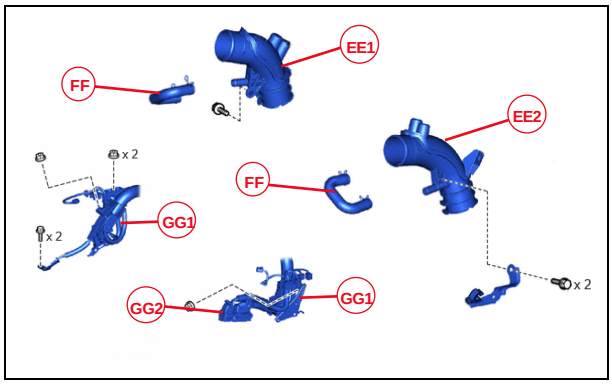
Repair Procedure (continued)

EE. Install the No. 2 and No. 1 air inlet ducts.

FF. Install the No. 2 PCV hose (No. 2 ventilation hose).

GG. Install the engine wire and ECM connector.

Figure 27.

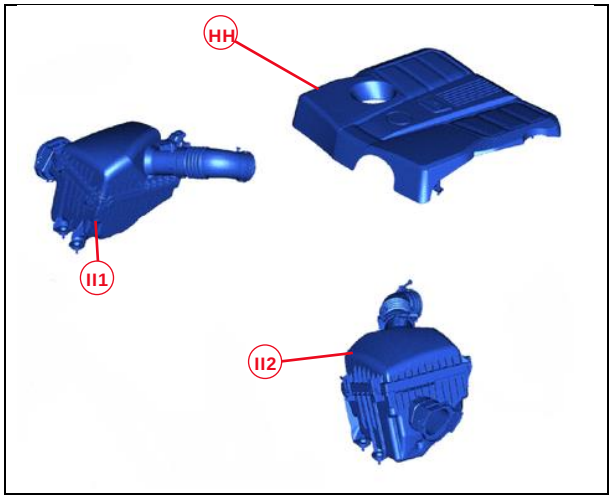


EE1	No. 1 Air Inlet Duct
EE2	No 2. Air Inlet Duct
FF	No. 2 PCV Hose (No. 2 Ventilation Hose)
GG1	Engine Wire
GG2	ECM Connector

HH. Install the V-bank cover sub-assembly.

II. Install the right-hand and left-hand air cleaner assemblies.

Figure 28.



HH	V-bank Cover Sub-assembly
II1	Right-hand Air Cleaner Assembly
II2	Left-hand Air Cleaner Assembly

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Repair Procedure (continued)

JJ. Add coolant for the intercooler.

KK. Add engine oil.

LL. Install the front fender:

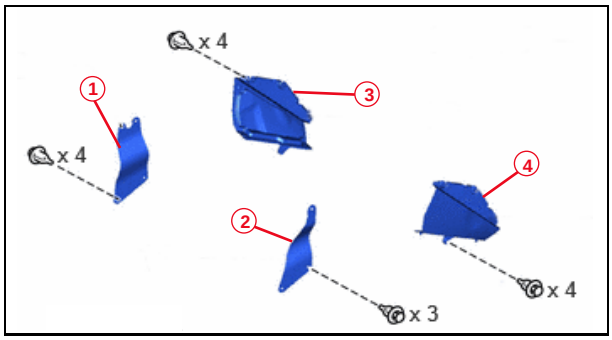
(1) Install the apron trim packing A

(2) Install the apron trim packing B

(3) Install the apron trim packing C

(4) Install the apron trim packing D

Figure 29.



1	Front Fender Apron Trim Packing A
2	Front Fender Apron Trim Packing B
3	Front Fender Apron Trim Packing C
4	Front Fender Apron Trim Packing D

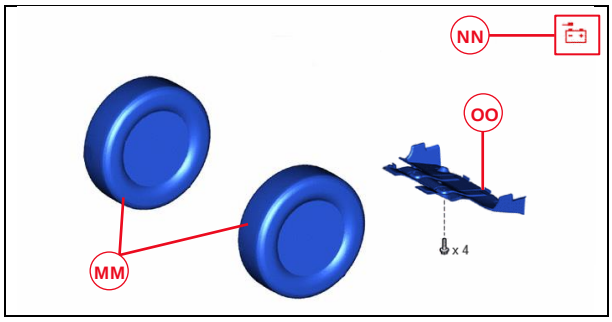
MM. Install the front wheels.

NN. Connect the cable from the negative battery terminal

OO. Install the No. 1 engine under cover assembly.

PP. Inspect for an oil and coolant leak.

Figure 30.



MM	Front Wheels
NN	Negative Battery Terminal
OO	No. 1 Engine Under Cover Assembly

5. Using GTS+, clear ANY DTCs and test-drive the vehicle to confirm the condition has been addressed.

NOTE

After DTCs are cleared, be sure to IG OFF and let vehicle rest for no less than 30 seconds before READY ON.

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