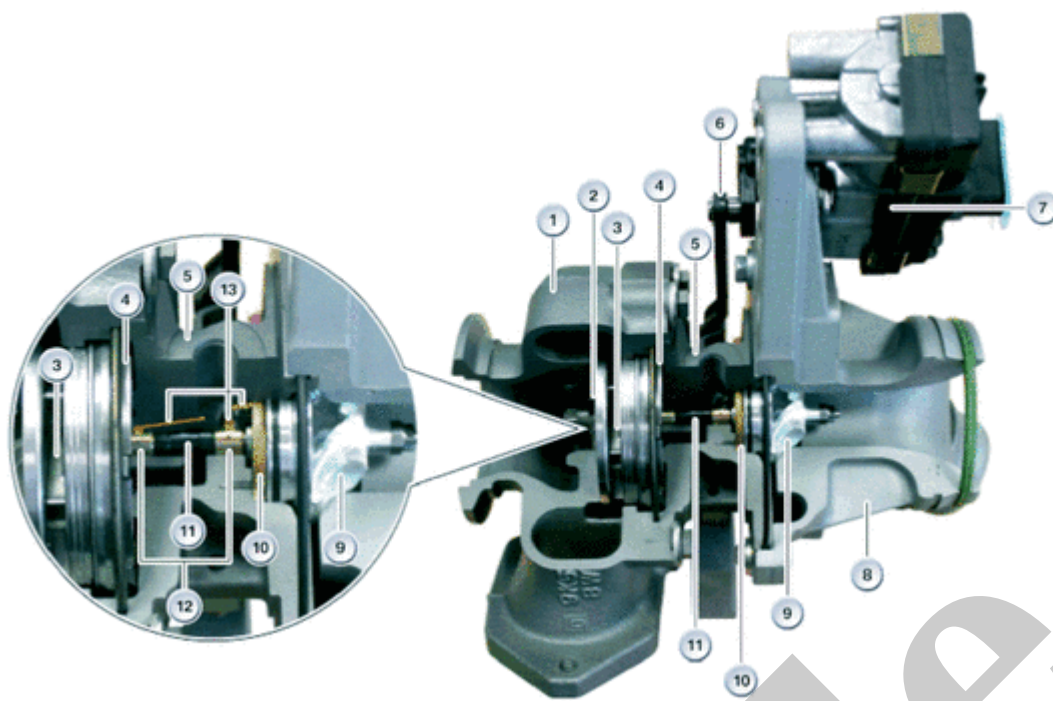


# Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

## 2013 Toyota Avalon Service and Repair Manual

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*1	Turbine housing	*2	Turbine wheel
*3	Variable blades	*4	Adjusting ring
*5	Oil inlet journal	*6	Adjusting lever
*7	Turbocharger actuator and link assembly	*8	Compressor housing
*9	Compressor wheel	*10	Thrust bearing
*11	Shaft	*12	Radial bearing
*13	Oil supply	-	-

## 2. GENERAL NOTES ON TROUBLESHOOTING

(a) The following notes must be observed in order to find the root cause of faults when problems are reported, and to prevent the unauthorized, i.e. inappropriate, replacement of the turbocharger sub-assembly:

### (1) Tracking down and verifying the complaint

If possible, any problem reported ('complaint') should be tracked down and verified on the vehicle. The parameters or marginal conditions prevailing at the time the problem was reported need to be noted down.

### (2) Diagnosis

As a first procedural step, diagnosis must be performed using the diagnosis system.

Faults on sensors and actuators may be responsible for 'complaints', i.e. reported problems, which may also be associated with the turbocharger sub-assembly in some way. For this reason, faults on sensors and actuators must first be remedied if these are stored in the fault memory.

In addition, the engine ventilation is important for the oil supply to the turbocharger sub-assembly. If the pressure in the cylinder block sub-assembly is too high, the oil supply to the turbocharger sub-assembly is endangered, and oil leakage may occur at the turbocharger sub-assembly.

The stored charging pressure control faults must then be investigated or troubleshooting must take place on the turbocharger sub-assembly.

### (3) Repair history

If possible, check to find out whether repairs have already been made on or near the turbocharger sub-assembly following similar reported problems.

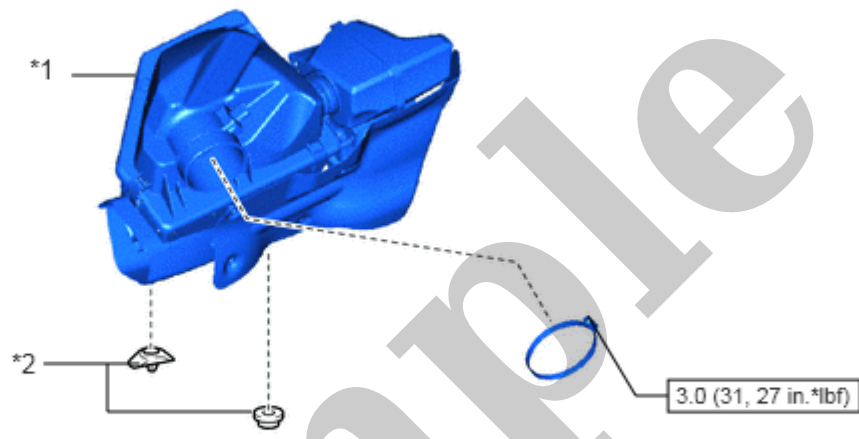
### (4) With any repeated complaint with different fault patterns, the problem could have arisen during the last repair.

Problems could have arisen in conjunction with installation, connections or the ingress of foreign bodies.

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<b>Model Year Start:</b> 2020	<b>Model:</b> Supra	<b>Prod Date Range:</b> [03/2019 - ]
<b>Title:</b> B58 (INTAKE / EXHAUST): AIR CLEANER ASSEMBLY: COMPONENTS; 2020 - 2025 MY Supra [03/2019 - ]		

## COMPONENTS

## ILLUSTRATION



*1	AIR CLEANER ASSEMBLY	*2	AIR CLEANER SUPPORT
	N*m (kgf*cm, ft.*lbf): Specified torque	-	-



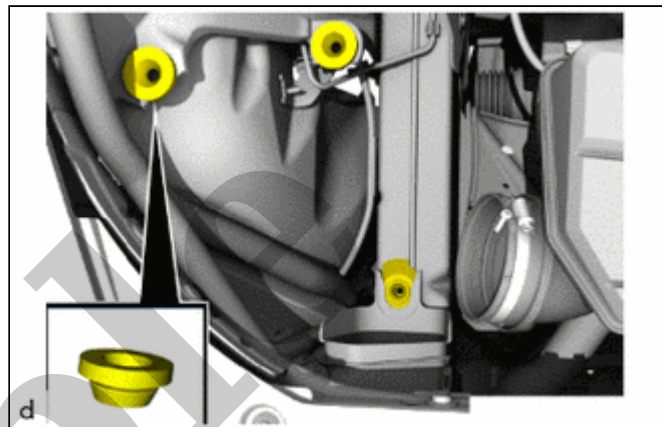
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## INSTALLATION

### PROCEDURE

#### 1. INSTALL AIR CLEANER ASSEMBLY

(a) Check the air cleaner support for correct fit.



(b) Feed the air cleaner assembly in and engage it in the air cleaner supports.

(c) Connect connectors and lock.

#### **HINT:**

- Note the installation position of the component. The component may be installed in various installation positions.
- The connector must engage audibly.

(d) Tighten clamp.

#### **Torque:**

**3.0 N·m {31 kgf·cm, 27 in·lbf}**



Sample