

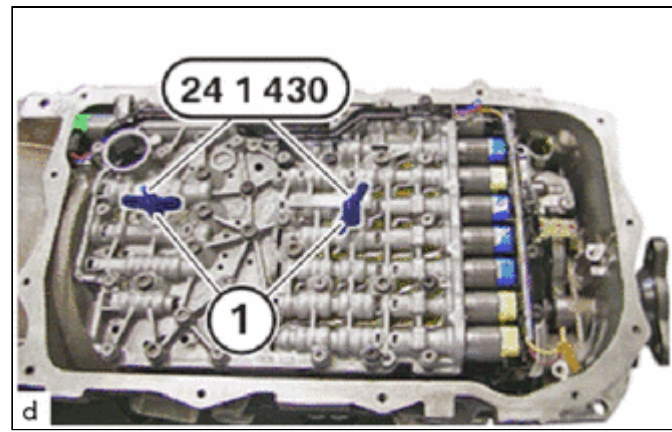
# Your Ultimate Source for OEM Repair Manuals

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.

## 2016 Toyota RAV4 Service and Repair Manual

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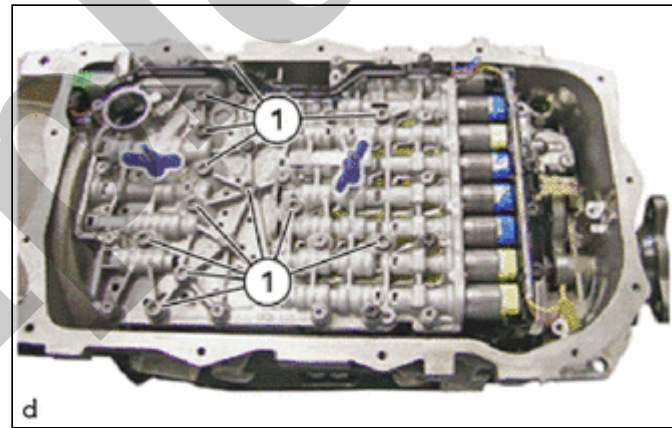
(f) Install mechatronics.



(g) Alternately tighten the wing nuts (1) of special tool 0 496 715 (24 1 430) until the mechatronics are in contact with the automatic transmission assembly.

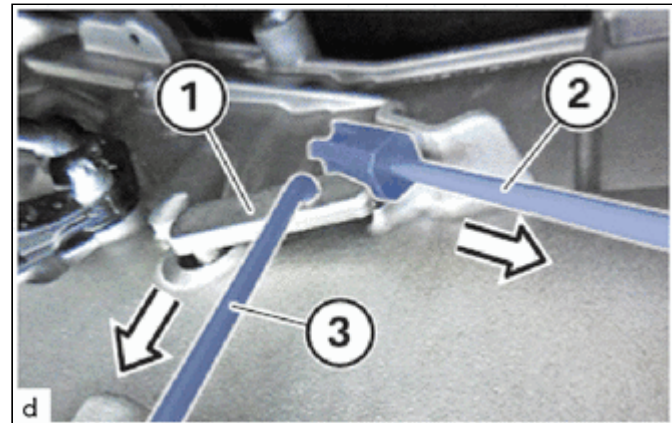
**SST: 09300-WA080**

(h) Insert the T40 bolts (1) and tighten lightly.



(i) Pull the selector shaft journal (1) downward with the special tool 2 355 850 (3) in the direction of the arrow.

**SST: 09700-WA050**

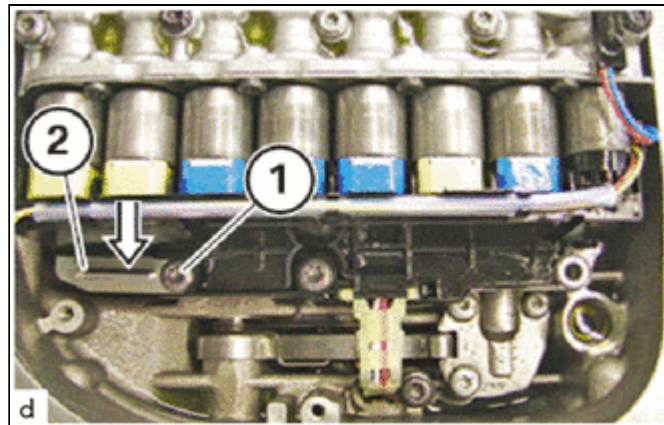


(j) Remove the special tool 2 355 850 (2) in the direction of the arrow.

**SST: 09700-WA050**

(k) Carefully position the output speed sensor (3) and push it in up to the limit position.

**SST: 09700-WA050**

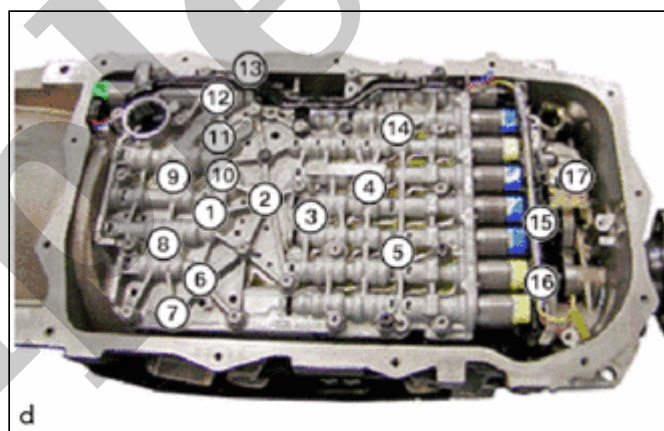


- (v) Replace the T40 bolt (1).
- (w) Screw in the T40 bolt (1).

- (x) Replace T40 bolts.

**NOTICE:**

- When assembling, it is essential to observe screwing sequences and tightening torques.
- Non-compliance with the regulations can lead to damage.



- (y) Tighten the T40 bolts in the order (1) to (16).

**Torque:**

**8.0 N·m {82 kgf·cm, 71 in·lbf}**

- (z) Tighten the T40 bolt (17) of the output speed sensor.

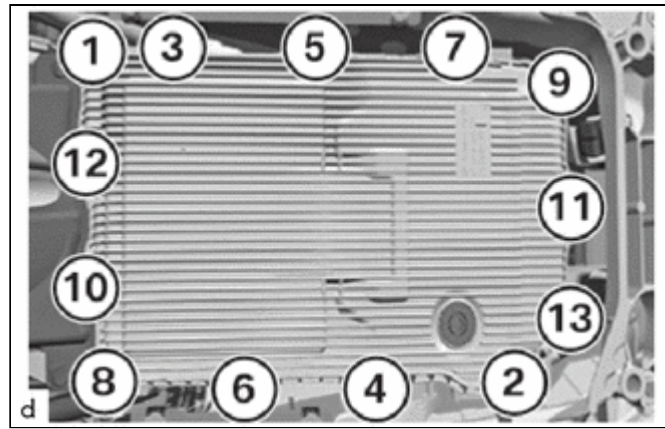
**Torque:**

**4.0 N·m {41 kgf·cm, 35 in·lbf}**

- (aa) Using SST, tighten the T40 bolt an additional 12°.

**SST: 09900-WA010**

**HINT:**



- (c) Position the transmission oil sump.
- (d) Insert T40 bolts until screw heads make contact.
- (e) Tighten T40 bolts in the order (1) to (13).

**Torque:**

**10 N·m {102 kgf·cm, 7 ft·lbf}**

- (f) If necessary, tighten the oil drain plug.

**Torque:**

**8.0 N·m {82 kgf·cm, 71 in·lbf}**

**4. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL**

Click here [INFO](#)

**5. ADJUST AUTOMATIC TRANSMISSION FLUID LEVEL**

Click here [INFO](#)

**6. INSPECT FOR AUTOMATIC TRANSMISSION FLUID LEAK**

**7. INSTALL FRONT FLOOR COVER**

Click here [INFO](#)

**8. ENCODE/PROGRAM CONTROL UNIT(S)**

**NOTICE:**

- Use the most recent software version to prevent faults during programming/encoding.
- The battery voltage must not drop below 13.0 V during programming.
- Use only recommended chargers for a low-voltage vehicle electrical system.
- Do not exceed the maximum charging voltage of 14.8 V when charging the battery.
- When there is communication abnormality in the middle of work, control unit might be damaged.
- It may be necessary to perform the Action Plan several times.

- (a) Connect the battery charger to the vehicle.
- (b) Connect the diagnosis system with the vehicle.
- (c) Determine the action plan.  
Service plan / Programming plan / Action plan / Calculate action plan
- (d) Accept and fully process the measures plan.  
Service plan / Programming plan / Action plan / Perform action plan
- (e) Wait until programming/encoding has been completed.

**NOTICE:**

When there is communication abnormality in the middle of work, control unit might be damaged.

<b>Last Modified:</b> 07-26-2024	6.11:8.1.0	<b>Doc ID:</b> RM100000001RAZU
<b>Model Year Start:</b> 2021	<b>Model:</b> Supra	<b>Prod Date Range:</b> [07/2020 - ]
<b>Title:</b> 8HP51 (AUTOMATIC TRANSMISSION / TRANSAXLE): TRANSMISSION VALVE BODY: INSTALLATION; 2021 - 2025 MY Supra [07/2020 - ]		

## INSTALLATION

### PROCEDURE

#### 1. INSTALL MECHATRONICS

##### NOTICE:

- Damage on the automatic transmission assembly after removing the mechatronics.

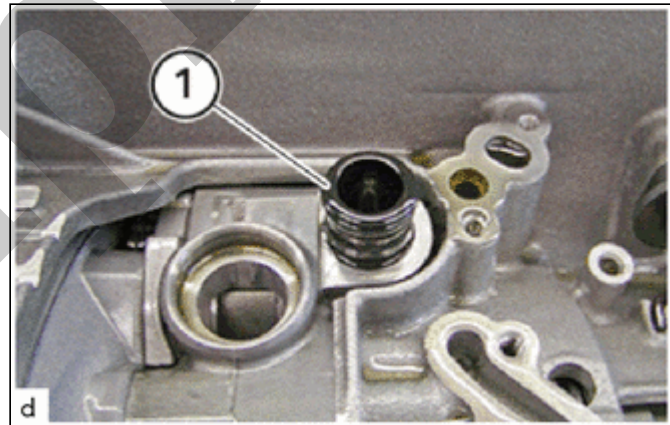
Non-observance of the following work may cause severe damage to the automatic transmission assembly.

- Load specific data status with the diagnosis system.

Vehicle information / Control unit list / EGS / Call up control unit functions / Diagnostic request / EGS sensor / Parking lock position

- Use only the approved Automatic Gearbox Oil ATF 3+.
- After completion of repair work, check the automatic transmission fluid level.

(a) Replace the pressure pipe (1).



(b) Coat the O-rings at the new pressure pipe using ATF.

(c) Install pressure pipe (1).

(d) Fit mechatronics unit.

(e) Feed shifting claw (1) into gearshift shaft (2).

