

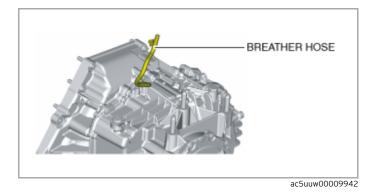
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2013 Mazda CX-9 Service and Repair Manual

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- 29. Connect the front stabilizer control links to the front stabilizer. (See FRONT STABILIZER REMOVAL/INSTALLATION.)
- 30.Connect the front lower arms to the steering knuckles. (See FRONT LOWER ARM REMOVAL/INSTALLATION)
- 31.Connect the tie-rod ends to the steering knuckles. (See STEERING GEAR AND LINKAGE REMOVAL/INSTALLATION.)
- 32.Connect the clips securing the brake hose to the front shock absorbers. (See FRONT BRAKE HOSE REMOVAL/INSTALLATION [WITH 2-PISTON FLOATING CALIPER].)
- 33.Connect the front ABS wheel-speed sensors to the steering knuckles. (See FRONT ABS WHEEL-SPEED SENSOR REMOVAL/INSTALLATION.)
- 34.Connect the water hose to the oil cooler. (Automatic Transaxle Replacement) (See OIL COOLER REMOVAL/INSTALLATION [GW6A-EL, GW6AX-EL (SKYACTIV-G 2.5T)].)
- 35.Connect the oil cooler to the transaxle with the hose connected. (Except Automatic Transaxle Replacement) (See OIL COOLER REMOVAL/INSTALLATION [GW6A-EL, GW6AX-EL (SKYACTIV-G 2.5T)].)
- 36.Install the front under cover No.1. (See FRONT UNDER COVER No.1 REMOVAL/INSTALLATION.)
- 37.Install the front under cover No.2. (See FRONT UNDER COVER No.2 REMOVAL/INSTALLATION.)
- 38.Install the front tires. (See WHEEL AND TIRE REMOVAL/INSTALLATION.)
- 39. Connect the intermediate shaft to the steering gear and linkage. (See STEERING WHEEL AND COLUMN REMOVAL/INSTALLATION.
- 40.Install the joint cover. (See STEERING WHEEL AND COLUMN REMOVAL/INSTALLATION.)
- 41. Connect the breather hose to the transaxle.



- · Air cleaner cover
- · Air cleaner element
- Fresh-air duct
- · Air cleaner case
- · Air hose

53. Connect the negative battery terminal. (See NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.)

54.Refill the engine coolant. (See ENGINE COOLANT REPLACEMENT [SKYACTIV-G 2.5T].)

55.Add the ATF. (See AUTOMATIC TRANSAXLE FLUID (ATF) REPLACEMENT [GW6A-EL, GW6AX-EL].)

56.Install the plug hole plate. (See PLUG HOLE PLATE REMOVAL/INSTALLATION [SKYACTIV-G 2.5T].)

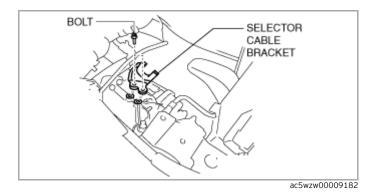
57.Perform the "TCM configuration" (automatic transaxle replacement). (See TCM CONFIGURATION [GW6A-EL, GW6AX-EL].)

58.Perform the "Initial Learning" (automatic transaxle replacement). (See INITIAL LEARNING [GW6A-EL, GW6AX-EL].)

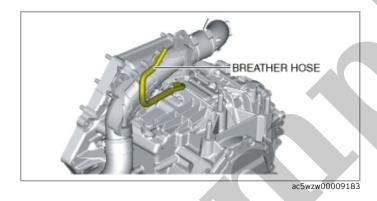
59.Perform the "Mechanical System Test". (See MECHANICAL SYSTEM TEST [GW6A-EL, GW6AX-EL].)

9. Disconnect the selector cable from the transaxle. (See SELECTOR CABLE REMOVAL/INSTALLATION.)

10. Remove the selector cable bracket.

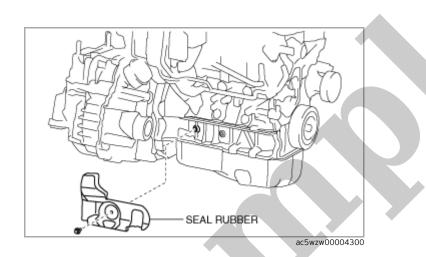


11. Disconnect the breather hose from the transaxle.



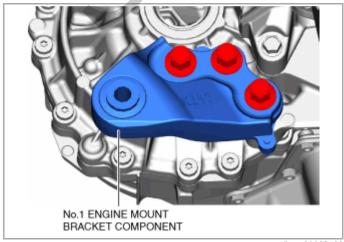
- 12. Remove the joint cover. (See STEERING WHEEL AND COLUMN REMOVAL/INSTALLATION.)
- 13.Disconnect the intermediate shaft from the steering gear and linkage. (See STEERING WHEEL AND COLUMN REMOVAL/INSTALLATION.)
- 14. Drain the engine coolant. (See ENGINE COOLANT REPLACEMENT [SKYACTIV-D 2.2].)
- 15. Remove the EGR cooler. (See EGR COOLER REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)
- 16.Disconnect the solenoid valve connectors and the wiring harness from the solenoid valve component. (See COMPRESSOR BYPASS SOLENOID VALVE REMOVAL/INSTALLATION [SKYACTIV-D 2.2].) (See REGULATING SOLENOID VALVE REMOVAL/INSTALLATION [SKYACTIV-D 2.2].)

- 31.Disconnect the front lower arms from the steering knuckles. (See FRONT LOWER ARM REMOVAL/INSTALLATION.)
- 32.Disconnect the front stabilizer control links from the front stabilizer. (See FRONT STABILIZER REMOVAL/INSTALLATION.)
- 33.Disconnect the front drive shaft (LH) from the transaxle. (See FRONT DRIVE SHAFT REMOVAL/INSTALLATION.)
- 34.Disconnect the front drive shaft (RH) from the transaxle. (See FRONT DRIVE SHAFT REMOVAL/INSTALLATION.)
- 35. Remove the seal rubber.



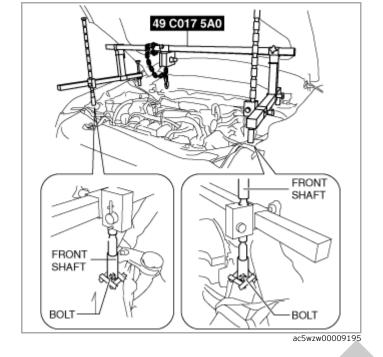
36.Remove the front crossmember component and No.1 engine mount rubber as a single unit. (See FRONT CROSSMEMBER REMOVAL/INSTALLATION.)

37.Remove the No.1 engine mounting bracket component.

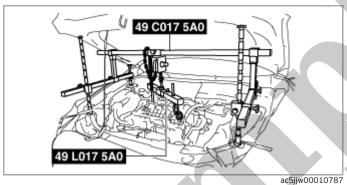


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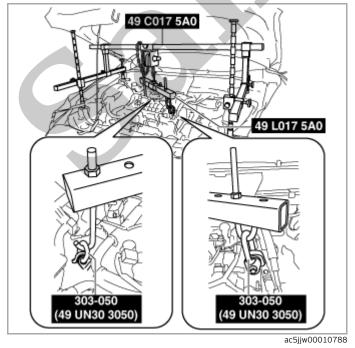
38.Install the SST using the following procedures.



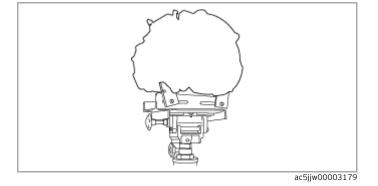
(8)Install the SST (49 L017 5A0) to the SST (49 C017 5A0) as shown in the figure.



 $(9) In stall\ the\ SST\ (49\ L017\ 5A0)\ to\ the\ SST\ (49\ UN30\ 3050)\ with\ the\ hook\ of\ the\ SST\ (49\ L017\ 5A0)\ facing\ outward.$



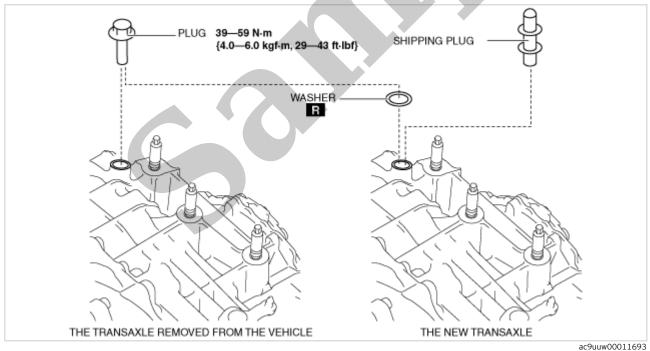
- (10)Adjust the height of the left and right side bars so that they are leveled, then tighten each part of the SST.
- (11)Apply tension to the chain to secure the engine.
- 39. Remove in the order shown in the figure.



- 3. Remove the transaxle mounting bolts (lower side).
- 4. Remove the transaxle.

Installation

- 1.If the transaxle is replaced with a new one, perform the following procedure.
 - (1)Remove the shipping plug from the new transaxle.
 - (2)Remove the plug from the transaxle removed from the vehicle.
 - (3)Install the plug and washer that were removed to the new transaxle.



Caution

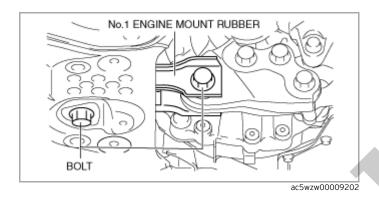
- Verify that the torque converter stud bolts are inserted into the drive plate bolt holes, and install the transaxle installation bolts. Otherwise, the drive plate could be damaged.
- 2. Verify that the torque converter stud bolts are inserted into the drive plate bolt holes from the starter installation hole.

Tightening torque

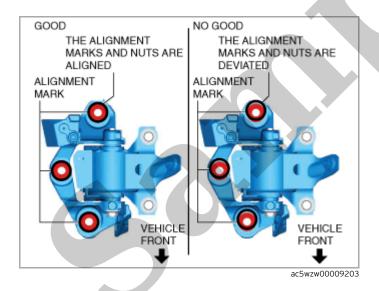
131-153 N·m {14-15 kgf·m, 97-112 ft·lbf}

8.Install the front crossmember component and No.1 engine mount rubber as a single unit. (See FRONT CROSSMEMBER REMOVAL/INSTALLATION.)

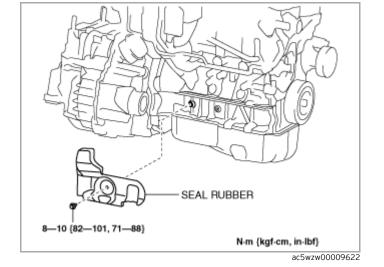
9.Temporarily tighten the No.1 engine mount rubber installation bolts.



10. Align the positions of the No.4 engine mount bracket installation nuts with the No.4 engine mount bracket.



11.Tighten the No.4 engine mount bracket installation nuts and bolt in the order shown in the figure.

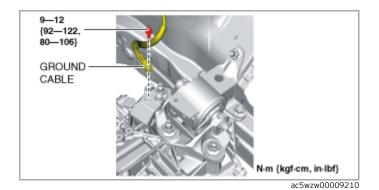


19.Connect the front drive shaft (RH) to the transaxle. (See FRONT DRIVE SHAFT REMOVAL/INSTALLATION.)

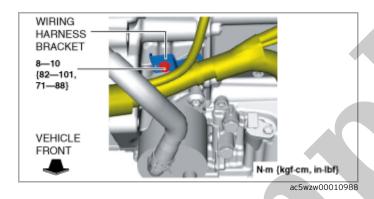
20. Connect the front drive shaft (LH) to the transaxle. (See FRONT DRIVE SHAFT REMOVAL/INSTALLATION.)

- 21.Connect the front stabilizer control links to the front stabilizer. (See FRONT STABILIZER REMOVAL/INSTALLATION.)
- 22.Connect the front lower arms to the steering knuckles. (See FRONT LOWER ARM REMOVAL/INSTALLATION.)
- 23. Connect the tie-rod ends to the steering knuckles. (See STEERING GEAR AND LINKAGE REMOVAL/INSTALLATION.)
- 24.Connect the clips securing the brake hose to the front shock absorbers. (See FRONT BRAKE HOSE REMOVAL/INSTALLATION [WITH 2-PISTON FLOATING CALIPER].)
- 25.Connect the front ABS wheel-speed sensors to the steering knuckles. (See FRONT ABS WHEEL-SPEED SENSOR REMOVAL/INSTALLATION.)
- 26.Connect the water hose to the oil cooler. (Automatic transaxle replacement) (See OIL COOLER REMOVAL/INSTALLATION [GW6A-EL, GW6AX-EL (SKYACTIV-D 2.2)].)
- 27.Connect the oil cooler to the transaxle with the hose connected. (Except automatic transaxle replacement) (See OIL COOLER REMOVAL/INSTALLATION [GW6A-EL, GW6AX-EL (SKYACTIV-D 2.2)].)
- 28.Install the front under cover No.1. (See FRONT UNDER COVER No.1 REMOVAL/INSTALLATION.)
- 29.Install the front under cover No.2. (See FRONT UNDER COVER No.2 REMOVAL/INSTALLATION.)
- 30.Install the front tires. (See WHEEL AND TIRE REMOVAL/INSTALLATION.)

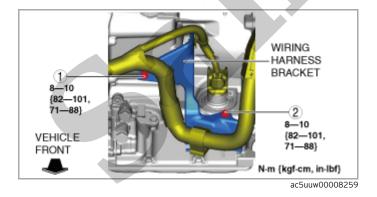
41. Connect the ground cable to the No.4 engine mount bracket.



42.Install the wiring harness bracket.



43. Tighten the wiring harness bracket installation bolts in the order shown in the figure.



44. Connect the control valve body connector.

