

## INSTALLATION

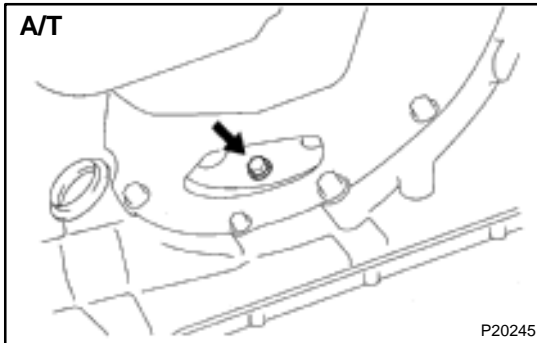
### 1. ASSEMBLE ENGINE AND TRANSAXLE

M/T: (See page [MX-3](#))

A/T: (See page [DI-126](#))

### 2. INSTALL STARTER

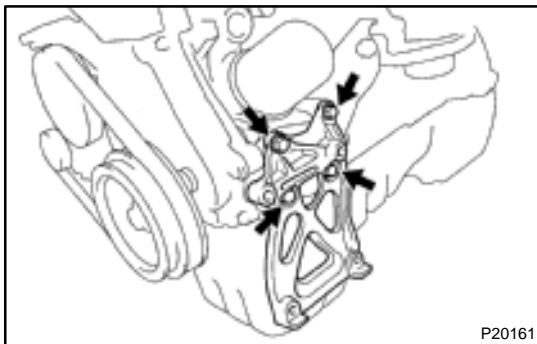
(See page [ST-15](#) or [ST-32](#))



### 3. A/T:

#### INSTALL TORQUE CONVERTER CLUTCH MOUNTING BOLTS

- (a) First, install the gray bolt and then 5 bolts.
  - (b) Tighten the bolts evenly.
- Torque: 27 N·m (280 kgf-cm, 20 ft-lbf)**
- (c) Install the engine rear end plate hole cover.

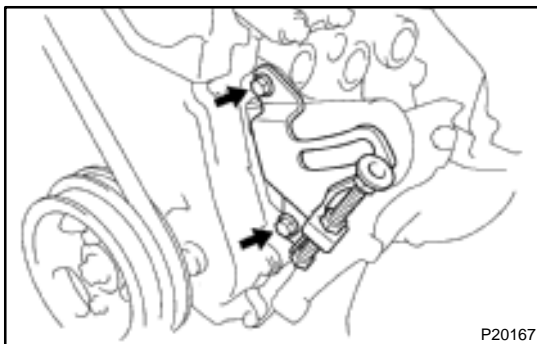


### 4. w/ A/C:

#### INSTALL A/C COMPRESSOR MOUNTING BRACKET

Install the compressor mounting bracket with the 4 bolts.

**Torque: 27 N·m (280 kgf-cm, 20 ft-lbf)**

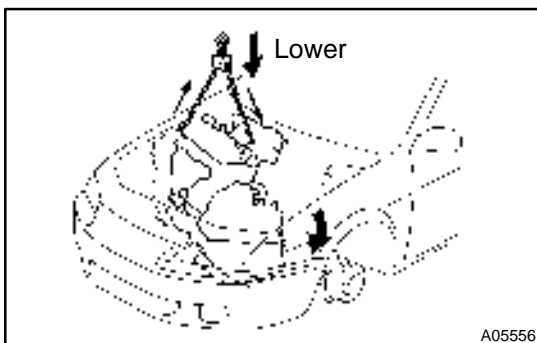


### 5. w/ PS:

#### INSTALL PS PUMP ADJUSTING STRUT

Install the PS pump adjusting strut with the 2 bolts.

**Torque: 21 N·m (210 kgf-cm, 15 ft-lbf)**

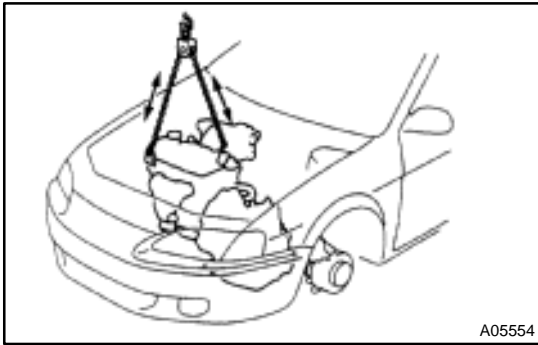


### 6. INSTALL ENGINE AND TRANSAXLE ASSEMBLY IN VEHICLE

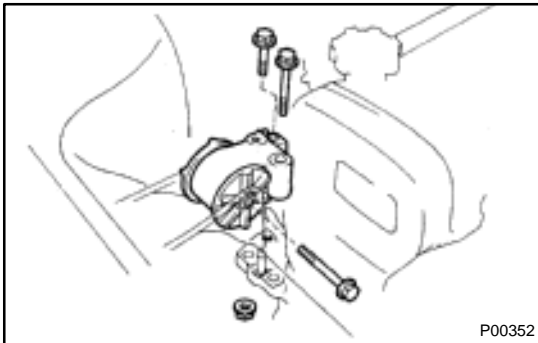
- (a) Attach the engine sling device to the engine hangers.
- (b) Lower the engine into the engine compartment.  
Tilt the transaxle downward, lower the engine and clear the LH engine mounting.

#### NOTICE:

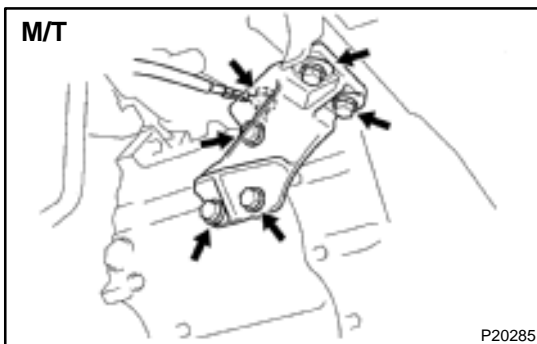
**Be careful not to hit the PS gear housing, park/neutral position switch and throttle position switch.**



- (c) Keep the engine level, and align RH and LH engine mountings with the body bracket.



- (d) Attach the RH engine mounting insulator to the mounting bracket and body, and temporarily install the through bolt, 2 bolts and nut.



- (e) Install the LH engine mounting bracket to the transaxle and mounting insulator with the 5 bolts. Torque the bolts.

**Torque:**

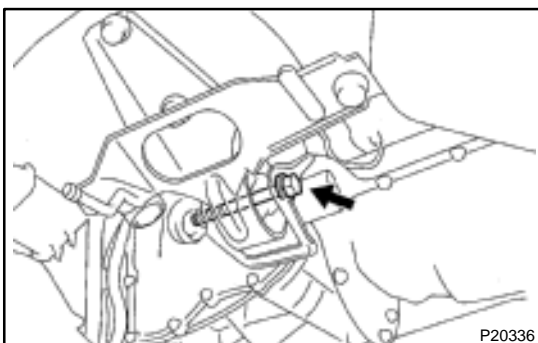
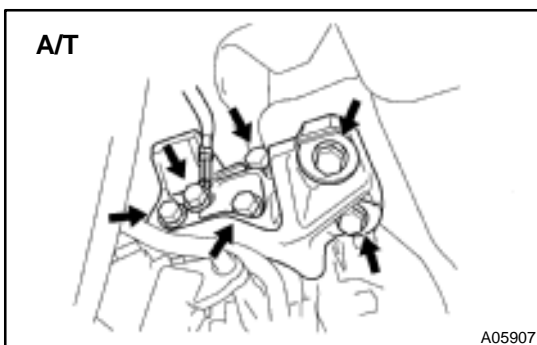
**Bracket to transaxle (bolt head: NT)**

**64 N·m (650 kgf·cm, 47 ft·lbf)**

**Bracket to insulator (bolt head: 7T)**

**49 N·m (490 kgf·cm, 35 ft·lbf)**

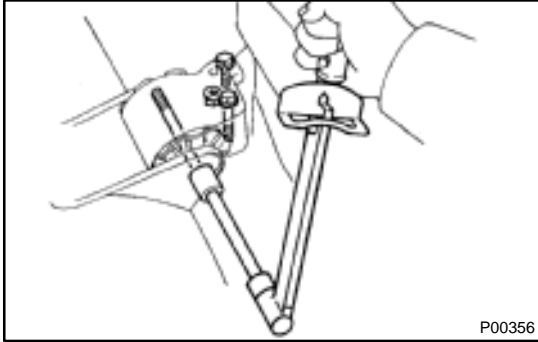
- (f) Connect the ground strap with the bolt.  
**Torque: 49 N·m (490 kgf·cm, 35 ft·lbf)**



- (g) Install and torque the rear engine mounting insulator through bolt.

**Torque: 64 N·m (650 kgf·cm, 47 ft·lbf)**

- (h) Remove the engine sling device from the engine.



- (i) Torque the 2 bolts, nut and through bolt of the RH mounting insulator.

**Torque:**

**Bolt and nut**

**64 N·m (650 kgf·cm, 47 ft·lbf)**

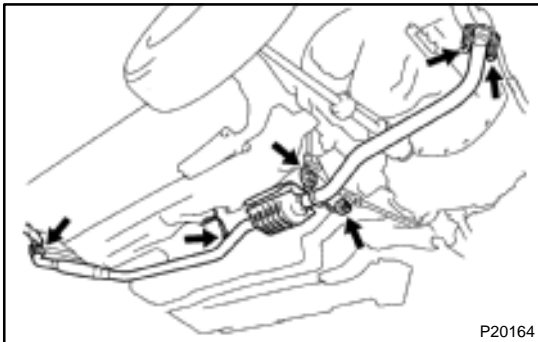
**Through bolt**

**73 N·m (740 kgf·cm, 54 ft·lbf)**

- (j) Connect the ground strap with the bolt.  
 (k) Install charcoal canister (See page [EM-18](#)).

**7. INSTALL DRIVE SHAFTS**

(See page [SA-18](#))

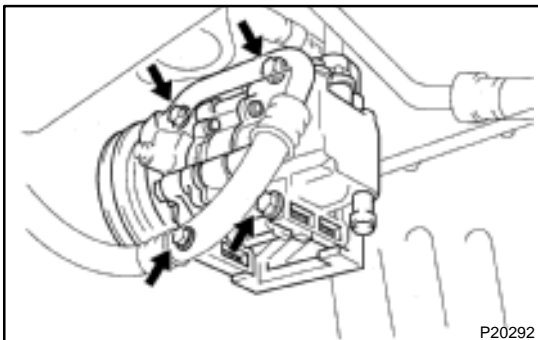


**8. INSTALL FRONT EXHAUST PIPE**

- (a) Connect the 2 rings to the front exhaust pipe.  
 (b) Place a new gasket on the exhaust pipe.  
 (c) Connect the exhaust pipe to the exhaust manifold with 2 compression springs and 2 bolts.  
**Torque: 62 N·m (630 kgf·cm, 46 ft·lbf)**  
 (d) Install the exhaust pipe to the tail pipe with the clamp.  
**Torque: 19 N·m (190 kgf·cm, 14 ft·lbf)**  
 (e) Install the heated oxygen sensor.  
**Torque: 44 N·m (450 kgf·cm, 33 ft·lbf)**

**HINT:**

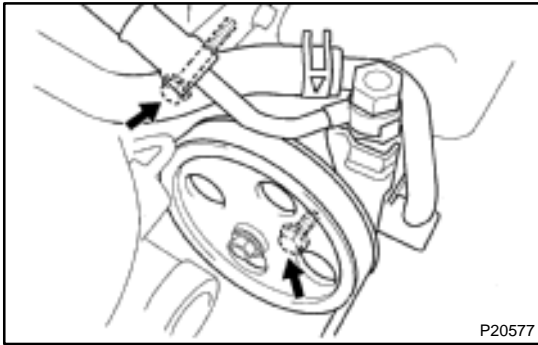
- Before installing the heated oxygen sensor, twist the sensor wire counterclockwise 3 and 1/2 turns.
- After installing the heated oxygen sensor, check that the sensor wire is not twisted. If it is twisted, remove the heated oxygen sensor and reinstall it.



**9. w/ A/C:**

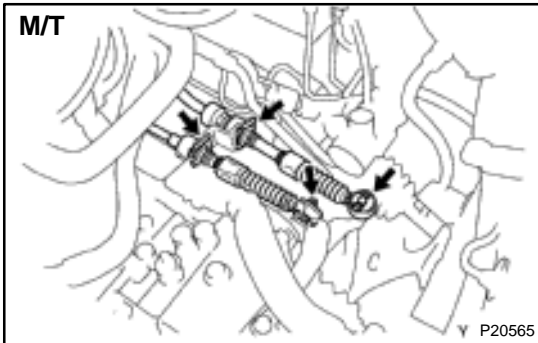
**INSTALL A/C COMPRESSOR**

- (a) Install the A/C compressor to the bracket with the 4 bolts.  
**Torque: 25 N·m (250 kgf·cm, 18 ft·lbf)**  
 (b) Connect A/C compressor connector.



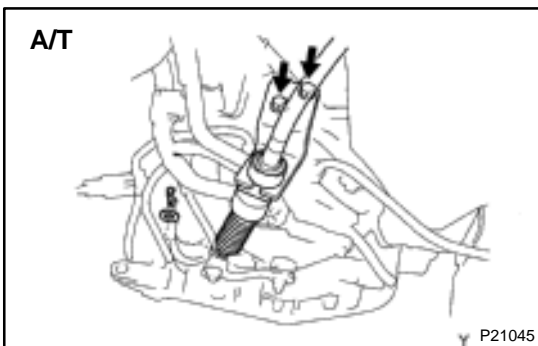
**10. w/ PS:  
INSTALL PS PUMP**

- (a) Install the PS pump and drive belt with the 2 bolts.
- (b) Adjust the drive belt tension (See page [SR-3](#)).



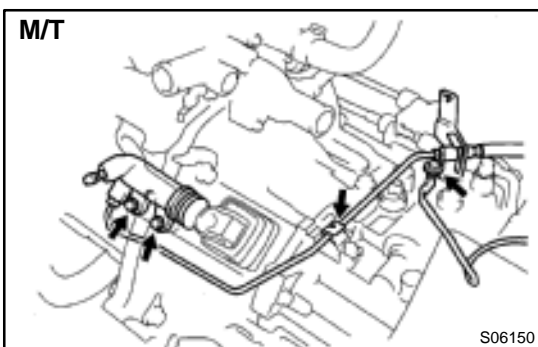
**11. M/T:  
CONNECT CONTROL CABLE(S) TO TRANSAXLE**

- (a) Install the cables with the retainers.
- (b) Connect the linkages with the plate washers and clips.



**12. A/T:  
CONNECT CONTROL CABLE(S) TO TRANSAXLE**

- (a) Install the support bracket to the LH engine mounting bracket with the 2 bolts.
- (b) Connect the linkage with the plate washer and clip.



**13. M/T:  
INSTALL CLUTCH RELEASE CYLINDER**

Install the release cylinder, tube and ground strap with the 3 bolts.

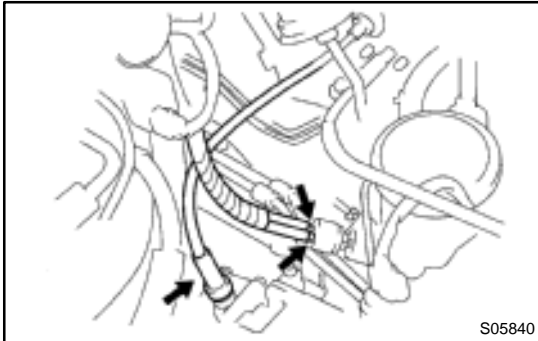
**Torque: 12 N·m (120 kgf·cm, 9 ft·lbf)**

**14. CONNECT ENGINE WIRE HARNESS**

Connect these connectors and wires:

- Oxygen sensor connector
- Oil pressure switch connector
- Engine coolant temperature sender gauge connector
- Engine coolant temperature sensor connector
- Camshaft position sensor connector
- Fan engine coolant temperature switch connector
- A/T only:  
Lock-up solenoid connector
- A/T only:  
Park/Neutral position switch connector

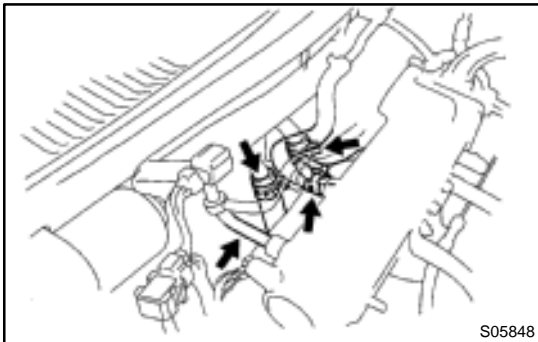
- M/T only:  
Backup light switch connector
- A/T only:  
No.2 vehicle speed sensor connector
- Ground strap
- Throttle position sensor connector
- IAC valve connector
- Injector connectors
- Crankshaft position sensor connector
- Knock sensor connector
- Starter connector and wire
- Generator connector and wire



**15. w/ PS:**

**CONNECT IDLE-UP AIR HOSES TO AIR CONTROL VALVE**

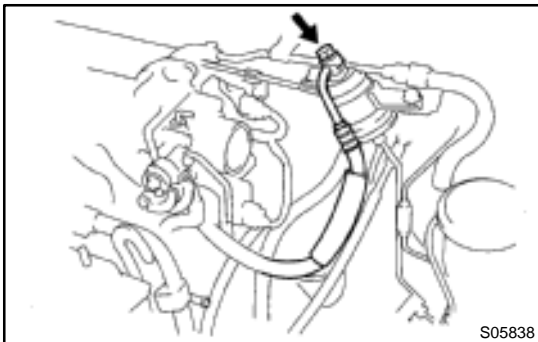
**16. CONNECT SPEEDOMETER CABLE**



**17. CONNECT HOSES**

Connect these hoses:

- (1) Brake booster vacuum hose
- (2) MAP sensor hose
- (3) Heater hoses



**18. CONNECT FUEL HOSE**

Connect the fuel inlet hose with the union bolt and 2 new gas-kets.

**Torque: 29.5 N·m (300 kgf·cm, 22 ft·lbf)**

- 19. CONNECT ACCELERATOR CABLE, AND ADJUST IT**
- 20. INSTALL RADIATOR (See page CO-21)**
- 21. INSTALL AIR CLEANER ASSEMBLY WITH AIR IN-TAKE CONNECTOR**
- 22. FILL WITH TRANSAXLE OIL (FLUID)**
- 23. FILL WITH ENGINE COOLANT**
- 24. INSTALL ENGINE UNDER COVERS**
- 25. INSTALL HOOD**
- 26. START ENGINE AND CHECK FOR LEAKS**
- 27. PERFORM ENGINE ADJUSTMENT**
- 28. PERFORM ROAD TEST**

Check for abnormal noise, shock, slippage, correct shift points and smooth operation.

**29. RECHECK ENGINE COOLANT AND ENGINE OIL LEVELS**