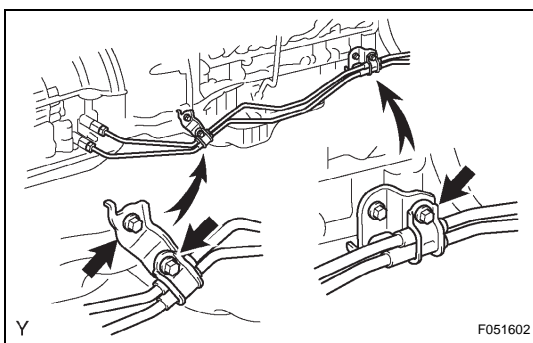
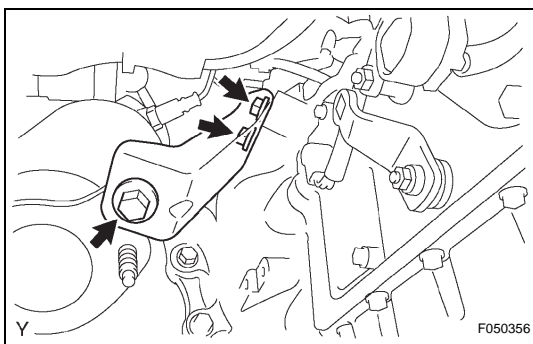
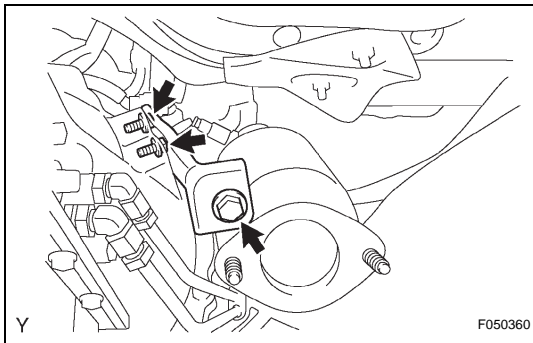
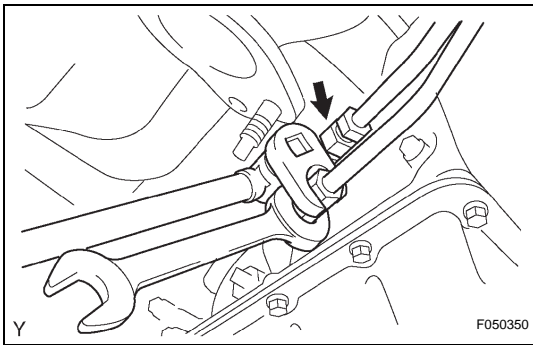


## REMOVAL

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL
2. REMOVE NO.1 ENGINE UNDER COVER SUB-ASSEMBLY
3. REMOVE NO. 2 ENGINE UNDER COVER (w/ No. 2 Engine Under Cover)
4. DISCONNECT OXYGEN SENSOR
5. REMOVE EXHAUST PIPE  
(See page [EX-3](#))
6. REMOVE PROPELLER SHAFT ASSEMBLY FRONT  
(See page [PR-16](#))
7. REMOVE PROPELLER WITH CENTER BEARING SHAFT ASSEMBLY (See page [PR-8](#))
8. DRAIN AUTOMATIC TRANSMISSION FLUID
  - (a) Remove the drain plug and gasket, and drain ATF.
  - (b) Install a new gasket and drain plug.  
Torque: 28 N\*m (285 kgf\*cm, 21 ft.\*lbf)
9. REMOVE MANIFOLD STAY
  - (a) Remove the 3 bolts and manifold stay.



10. REMOVE NO.2 MANIFOLD STAY
  - (a) Remove the 3 bolts and manifold stay No. 2.
11. DISCONNECT NO.1 OIL COOLER INLET TUBE
  - (a) Remove the 3 bolts and 2 clamps.



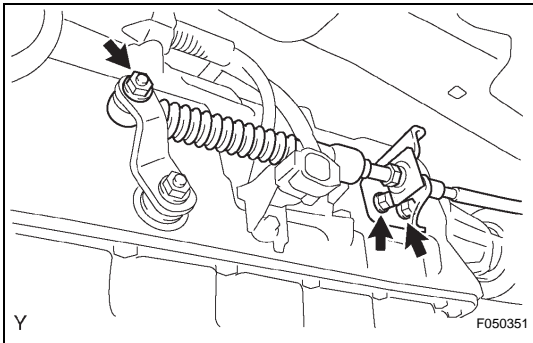
- (b) Using SST, disconnect the oil cooler inlet tube No. 1.

**SST 09023-12701**

## 12. DISCONNECT NO.1 OIL COOLER OUTLET TUBE

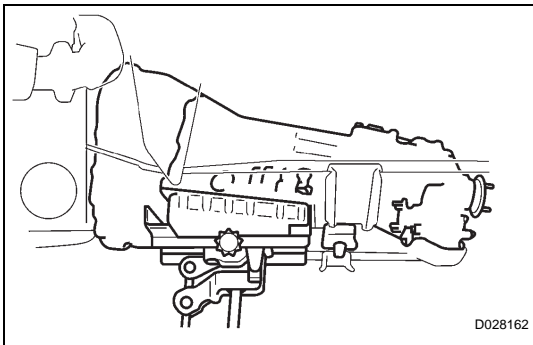
- (a) Using SST, disconnect the oil cooler outlet tube No. 1.

**SST 09023-12701**



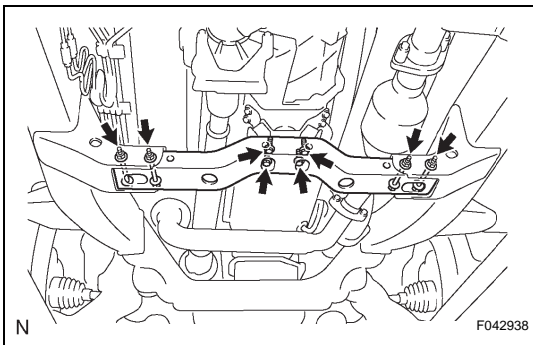
## 13. DISCONNECT TRANSMISSION CONTROL CABLE ASSEMBLY

- (a) Remove the nut and disconnect the transmission control cable.  
 (b) Remove the 2 bolts and disconnect the transmission control cable.



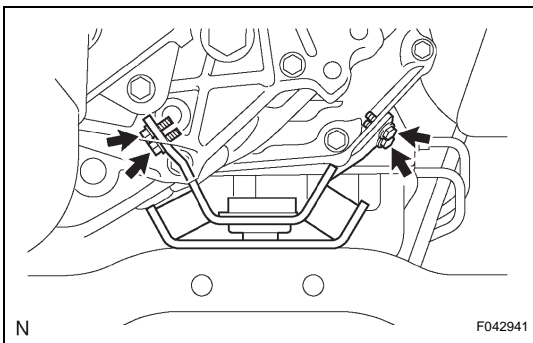
## 14. SUPPORT AUTOMATIC TRANSMISSION WITH TRANSFER

- (a) Support the automatic transmission assembly with a transmission jack.



## 15. REMOVE NO.3 FRAME CROSSMEMBER SUB-ASSEMBLY

- (a) Remove the 4 bolts on the frame crossmember sub-assembly No. 3.  
 (b) Remove the 4 nuts, 4 bolts and frame crossmember sub-assembly No. 3.



## 16. REMOVE REAR NO.1 ENGINE MOUNTING INSULATOR

- (a) Remove the 4 bolts and engine mounting insulator rear from the automatic transmission.

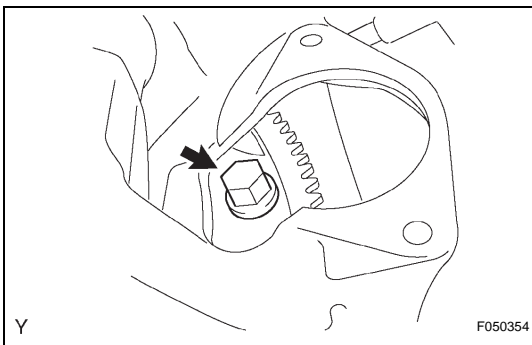
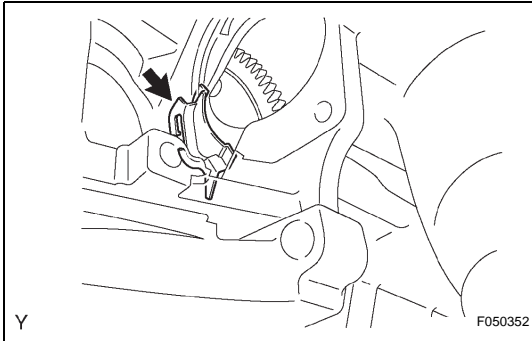
## 17. DISCONNECT CONNECTOR

- (a) Disconnect the park/neutral position switch connector.  
 (b) Disconnect the transmission wire connector.  
 (c) Disconnect the 2 speed sensor connectors.  
 (d) Disconnect the transfer shift actuator connector.

- (e) Disconnect the indicator switch No. 1 connector.
- (f) Disconnect the indicator switch No. 2 connector.

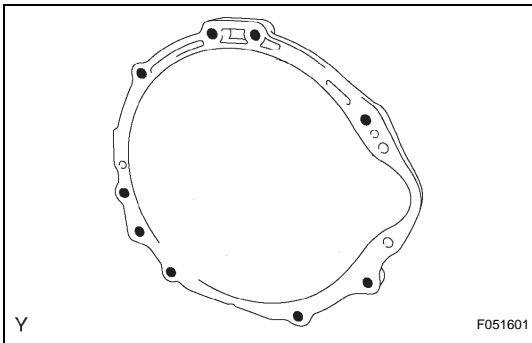
**18. DISCONNECT WIRE HARNESS****19. REMOVE STARTER ASSEMBLY (See page [ST-13](#))****20. REMOVE FLYWHEEL HOUSING SIDE COVER**

- (a) Remove the flywheel housing side cover from the cylinder block.

**AT****21. REMOVE AUTOMATIC TRANSMISSION WITH TRANSFER**

- (a) Turn the crankshaft to gain access to each bolt.
- (b) Hold the crankshaft pulley nut with a wrench and remove the 6 bolts.

- (c) Remove the 9 bolts.
- (d) Separate and remove the automatic transmission.

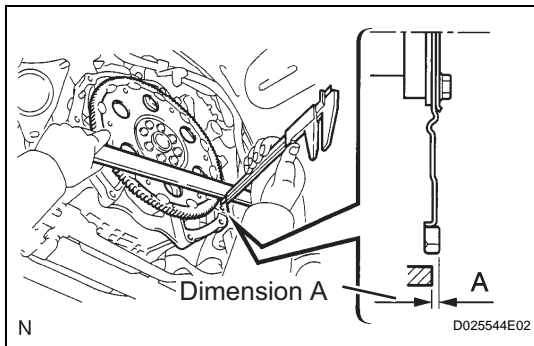
**22. REMOVE TORQUE CONVERTER CLUTCH ASSEMBLY****23. REMOVE TRANSFER ASSEMBLY (See page [TF-14](#))**

AT

## INSTALLATION

1. **INSTALL TRANSFER ASSEMBLY** (See page [TF-38](#))
2. **INSPECT TORQUE CONVERTER CLUTCH ASSEMBLY** (See page [AT-169](#))
3. **INSTALL TORQUE CONVERTER CLUTCH ASSEMBLY**

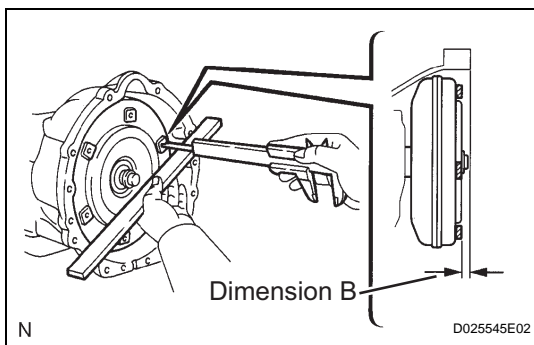
- (a) Install the torque converter clutch onto the automatic transmission.
- (b) Using calipers and a straight edge, measure dimension A, between the engine and the end surface of the drive plate, shown in the illustration.



- (c) Using calipers and a straight edge, measure dimension B shown in the illustration and check that B is greater than A measured in (b).

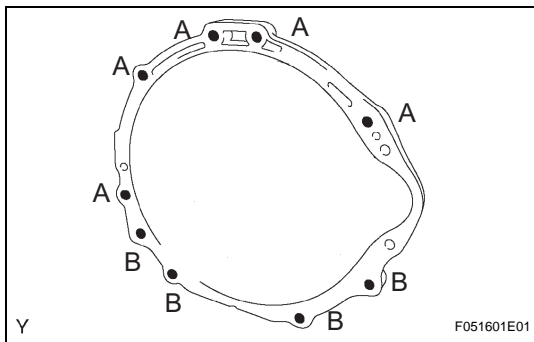
**Standard:**

**A+1 mm or more**

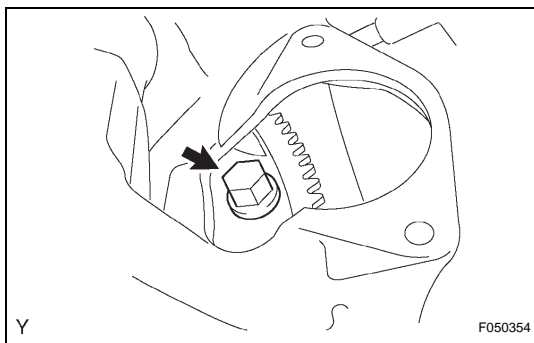


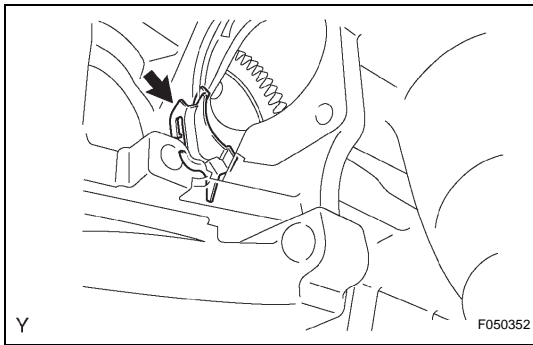
4. **INSTALL AUTOMATIC TRANSMISSION WITH TRANSFER**

- (a) Install the automatic transmission onto the engine with the 9 bolts.
  - Torque: 71 N\*m (720 kgf\*cm, 53 ft.\*lbf) for bolt A**
  - 37 N\*m (380 kgf\*cm, 27 ft.\*lbf) for bolt B**



- (b) Install the 6 torque converter clutch mounting bolts.
  - Torque: 48 N\*m (489 kgf\*cm, 35 ft.\*lbf)**
  - HINT:**  
First install the black bolt and then the other 5 bolts.

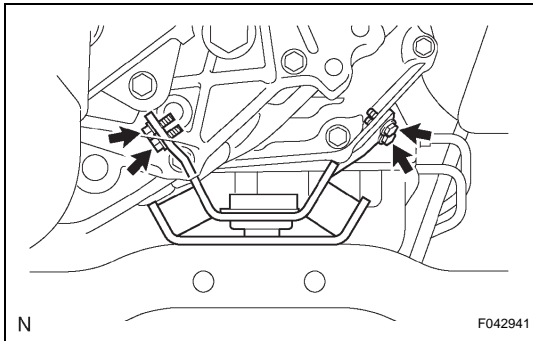




## 5. INSTALL FLYWHEEL HOUSING SIDE COVER

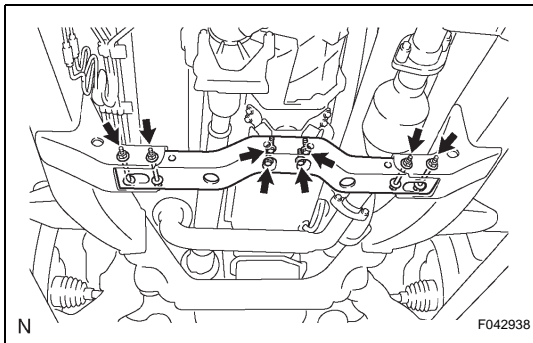
- (a) Install the flywheel housing side cover onto the cylinder block.

## 6. INSTALL STARTER ASSEMBLY (See page ST-19)



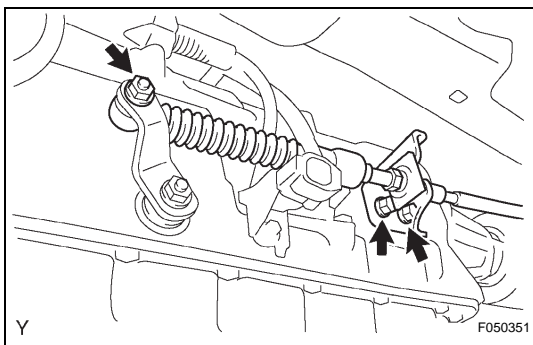
## 7. INSTALL REAR NO.1 ENGINE MOUNTING INSULATOR

- (a) Install the engine mounting insulator rear and 4 bolts onto the automatic transmission.  
**Torque: 65 N\*m (663 kgf\*cm, 48 ft.\*lbf)**



## 8. INSTALL NO.3 FRAME CROSSMEMBER SUB-ASSEMBLY

- (a) Install the frame crossmember sub-assembly No. 3 with the 4 bolts and 4 nuts.  
**Torque: 40 N\*m (408 kgf\*cm, 30 ft.\*lbf)**
- (b) Install the frame crossmember sub-assembly No. 3 with the 4 bolts.  
**Torque: 19 N\*m (189 kgf\*cm, 14 ft.\*lbf)**

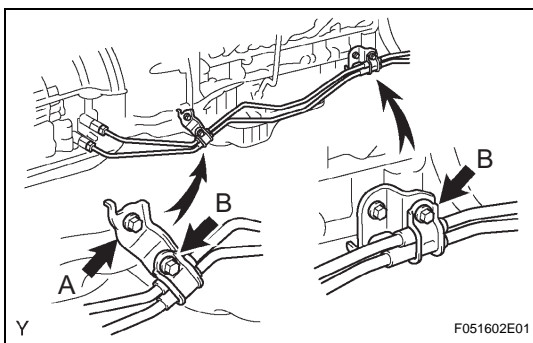


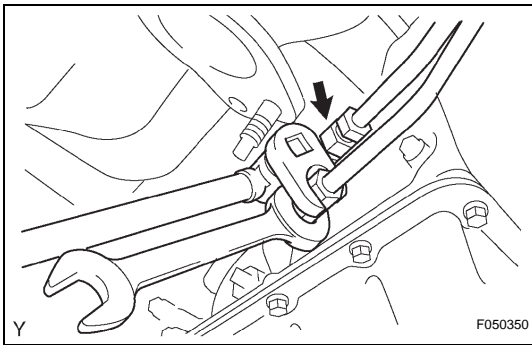
## 9. INSTALL TRANSMISSION CONTROL CABLE ASSEMBLY

- (a) Install the transmission control cable bracket No. 1 with the 2 bolts.  
**Torque: 28 N\*m (286 kgf\*cm, 21 ft.\*lbf)**
- (b) Connect the transmission control cable with the nut.  
**Torque: 14 N\*m (143 kgf\*cm, 10 ft.\*lbf)**

## 10. INSTALL NO.1 OIL COOLER OUTLET TUBE

- (a) Provisionally install the oil cooler outlet tube No. 1.
- (b) Provisionally install the oil cooler inlet tube No. 1.
- (c) Install the 2 clamps and 2 bolts.  
**Torque: 12 N\*m (122 kgf\*cm, 9 ft.\*lbf) for bolt A**  
**5.0 N\*m (50 kgf\*cm, 43 in.\*lbf) for bolt B**

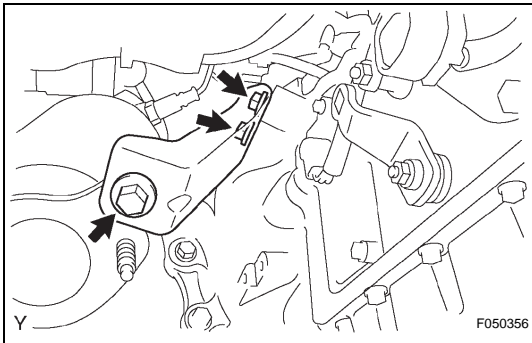




- (d) Using SST, tighten the oil cooler outlet tube No. 1.  
**SST 09023-12701**  
**Torque: 34 N\*m (350 kgf\*cm, 25 ft.\*lbf)**

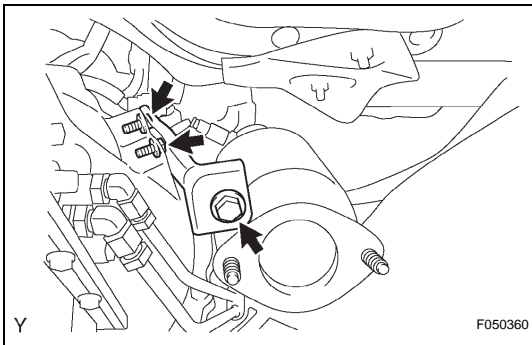
#### 11. INSTALL NO.1 OIL COOLER INLET TUBE

- (a) Using SST, tighten the oil cooler inlet tube No. 1.  
**SST 09023-12701**  
**Torque: 34 N\*m (350 kgf\*cm, 25 ft.\*lbf)**



#### 12. INSTALL NO.2 MANIFOLD STAY

- (a) Install manifold stay No. 2 with the 3 bolts.  
**Torque: 40 N\*m (408 kgf\*cm, 30 ft.\*lbf)**



#### 13. INSTALL MANIFOLD STAY

- (a) Install the manifold stay with the 3 bolts.  
**Torque: 40 N\*m (408 kgf\*cm, 30 ft.\*lbf)**

#### 14. INSTALL PROPELLER WITH CENTER BEARING SHAFT ASSEMBLY (See page [PR-8](#))

#### 15. INSTALL FRONT PROPELLER SHAFT ASSEMBLY (See page [PR-19](#))

#### 16. INSTALL EXHAUST PIPE (See page [EX-3](#))

#### 17. CONNECT OXYGEN SENSOR

#### 18. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

**Torque: 3.9 N\*m (40 kgf\*cm, 35 in.\*lbf)**

#### 19. PERFORM INITIALIZATION

(See page [AT-17](#))

#### 20. ADD AUTOMATIC TRANSMISSION FLUID

(See page [AT-139](#))

#### 21. INSPECT SHIFT LEVER POSITION (See page [AT-158](#))

#### 22. CHECK FOR EXHAUST GAS LEAKAGE

#### 23. INSTALL NO. 2 ENGINE UNDER COVER (w/ No. 2 Engine Under Cover)

#### 24. INSTALL NO. 1 ENGINE UNDER COVER SUB-ASSEMBLY