INSTALLATION

1. INSTALL TRANSFER ASSEMBLY (See page TF-44)

2. INSPECT TORQUE CONVERTER CLUTCH ASSEMBLY (See page AT-186)

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.
   **Standard:**
   \[ A = 21.2 \text{ mm (0.835 in.)} \]

(c) Using calipers and a straight edge, measure dimension B shown in the illustration. Check that B is greater than A.
   **Standard:**
   \[ B = A + 1.0 \text{ mm (0.0394 in.) or more} \]

4. INSTALL AUTOMATIC TRANSMISSION WITH TRANSFER
   (a) Install the automatic transmission onto the engine with the 9 bolts.
   Torque: 71 N\(\cdot\)m (720 kgf\(\cdot\)cm, 53 ft.\(\cdot\)lbf) for bolt A
   37 N\(\cdot\)m (380 kgf\(\cdot\)cm, 27 ft.\(\cdot\)lbf) for bolt B

(b) Install the 6 torque converter clutch mounting bolts.
   Torque: 48 N\(\cdot\)m (489 kgf\(\cdot\)cm, 35 ft.\(\cdot\)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-15)

7. CONNECT WIRE HARNESS

8. CONNECT CONNECTOR
   (a) Connect the 3 indicator switch connectors.
   (b) Connect the 2 speed sensor connectors.
   (c) Connect the transmission wire connector.
   (d) Connect the park/neutral position switch connector.

9. INSTALL REAR NO.1 ENGINE MOUNTING INSULATOR
   (a) Install the engine mounting insulator rear onto the automatic transmission with the 4 bolts.
       Torque: 65 N*m (663 kgf*cm, 48 ft.*lbf)

10. INSTALL NO. 3 FRAME CROSSMEMBER SUB-ASSEMBLY
    (a) Install the No. 3 frame crossmember sub-assembly with the 4 bolts and 4 nuts.
        Torque: 72 N*m (734 kgf*cm, 53 ft.*lbf)
    (b) Install the No. 3 frame crossmember sub-assembly with the 4 bolts.
        Torque: 19 N*m (189 kgf*cm, 14 ft.*lbf)

11. INSTALL FRONT SUSPENSION MEMBER BRACKET LH
    (a) Install the front suspension member bracket LH with the 4 bolts.
        Torque: 33 N*m (336 kgf*cm, 24 ft.*lbf)
12. INSTALL FRONT SUSPENSION MEMBER BRACKET
(a) Install the front suspension member bracket RH with the 4 bolts.
Torque: 33 N*m (336 kgf*cm, 24 ft.*lbf)

13. INSTALL TRANSMISSION CONTROL CABLE ASSEMBLY
(a) Install the transmission control cable bracket with the 2 bolts.
Torque: 14 N*m (143 kgf*cm, 10 ft.*lbf)
(b) Connect the transmission control cable with the nut.
Torque: 14 N*m (143 kgf*cm, 10 ft.*lbf)

14. INSTALL OIL COOLER TUBE
(a) Provisionally install the No. 1 oil cooler outlet tube.
(b) Provisionally install the No. 1 oil cooler inlet tube.
(c) Install the 2 clamps and 2 bolts.
Torque: 14 N*m (138 kgf*cm, 10 ft.*lbf) for bolt A
5.5 N*m (56 kgf*cm, 49 in.*lbf) for bolt B
(d) Using SST, tighten the No. 1 oil cooler outlet tube.
SST 09023-12701
Torque: 34 N*m (350 kgf*cm, 25 ft.*lbf) for use without SST
30 N*m (306 kgf*cm, 22 ft.*lbf) for use with SST
HINT:
• Use a torque wrench with a fulcrum length of 300 mm (11.81 in.).
• This torque value is effective when SST is parallel to the torque wrench.
(e) Using SST, tighten the No. 1 oil cooler inlet tube.
SST 09023-12701
Torque: 34 N*m (350 kgf*cm, 25 ft.*lbf) for use without SST
30 N*m (306 kgf*cm, 22 ft.*lbf) for use with SST
HINT:
• Use a torque wrench with a fulcrum length of 300 mm (11.81 in.).
• This torque value is effective when SST is parallel to the torque wrench.
15. INSTALL NO. 2 MANIFOLD STAY  
(a) Install No. 2 manifold stay with the 3 bolts.  
Torque: 40 N*m (408 kgf*cm, 30 ft.*lbf)

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

17. INSTALL PROPELLER SHAFT ASSEMBLY (See page PR-14)

18. INSTALL FRONT PROPELLER SHAFT ASSEMBLY  
(See page PR-6)

19. INSTALL PROPELLER SHAFT HEAT INSULATOR  
(a) Install the propeller shaft heat insulator with the 2 bolts.  
Torque: 16 N*m (160 kgf*cm, 12 ft.*lbf)

20. INSTALL FRONT EXHAUST PIPE ASSEMBLY (See page EX-4)

21. INSTALL NO. 2 EXHAUST FRONT PIPE ASSEMBLY  
(See page EX-5)

22. CONNECT OXYGEN SENSOR

23. INSTALL TRANSFER HIGH AND LOW SHIFT LEVER ASSEMBLY  
(a) Install the transfer shift lever onto the shift lever retainer.  
(b) Using needle-nose pliers, install the snap ring.

24. INSTALL SHIFT LEVER BOOT ASSEMBLY  
(a) Install the shift lever boot with the 4 screws.

25. INSTALL SHIFT LEVER KNOB SUB-ASSEMBLY (for Transfer)

26. INSTALL SHIFT LEVER ASSEMBLY (for Automatic Transmission)  
(See page AT-173)
27. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL  
   Torque: 3.9 N*m (40 kgf*cm, 35 in.*lbf)

28. PERFORM INITIALIZATION  
   (See page AT-19)

29. ADJUST AUTOMATIC TRANSMISSION FLUID  
   (See page AT-147)

30. INSPECT SHIFT LEVER POSITION (See page AT-171)

31. ADJUST SHIFT LEVER POSITION (See page AT-172)

32. CHECK FOR EXHAUST GAS LEAKAGE

33. INSTALL REAR ENGINE UNDER COVER ASSEMBLY

34. INSTALL NO. 1 ENGINE UNDER COVER SUB-ASSEMBLY