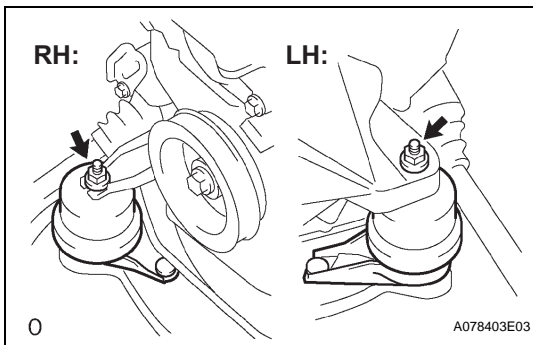


## INSTALLATION

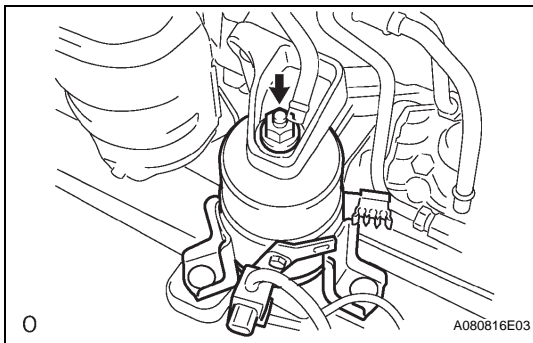
1. **INSTALL KNOCK SENSOR**
  - (a) Install the knock sensor (See page [ES-382](#)).
2. **INSTALL ENGINE OIL PRESSURE SWITCH ASSEMBLY**
  - (a) Apply adhesive to 2 or 3 threads of the oil pressure switch.  
**Adhesive:**  
**Part No.08833-00080 THREE BOND 1344, LOCTITE 242 or equivalent.**
  - (b) Using a deep socket wrench 24 mm, install the oil pressure switch.  
**Torque: 15 N\*m (153 kgf\*cm, 11 ft.\*lbf)**
3. **INSTALL THERMOSTAT**
  - (a) Install the thermostat (See page [CO-19](#)).
4. **INSTALL WATER INLET**
  - (a) Install the water inlet (TMC made) (See page [CO-19](#)).
5. **INSTALL WATER INLET PIPE**
  - (a) Install the water inlet pipe (TMC made) (See page [CO-19](#)).
6. **INSTALL WATER INLET**
  - (a) Install the water inlet (TMMWV made) (See page [CO-19](#)).
7. **INSTALL COMPRESSOR MOUNTING BRACKET NO.1**
  - (a) Install the compressor mounting bracket No.1 (See page [LU-20](#)).
8. **INSTALL GENERATOR BRACKET NO.1**  
**Torque: 58 N\*m (591 kgf\*cm, 43 ft.\*lbf)**
9. **INSTALL PUMP BRACKET**  
**Torque: 32 N\*m (326 kgf\*cm, 24 ft.\*lbf)**
10. **INSTALL ENGINE MOUNTING BRACKET RH**  
**Torque: 54 N\*m (551 kgf\*cm, 40 ft.\*lbf)**
11. **INSTALL EXHAUST MANIFOLD CONVERTER SUB-ASSEMBLY NO.2**
  - (a) Install the exhaust manifold converter sub-assembly No.2 (See page [EM-84](#)).
12. **INSTALL MANIFOLD STAY NO.2**  
**Torque: 49 N\*m (500 kgf\*cm, 36 ft.\*lbf)**
13. **INSTALL EXHAUST MANIFOLD HEAT INSULATOR NO.2**
  - (a) Install the exhaust manifold heat insulator No.2 (See page [EM-84](#)).
14. **INSTALL MANIFOLD CONVERTER INSULATOR NO.3**
  - (a) Install the manifold converter insulator No.3 (See page [EM-84](#)).

- 15. INSTALL IGNITION COIL ASSEMBLY**
  - (a) Install the ignition coil assembly (See page [EM-8](#)).
- 16. INSTALL WATER OUTLET**
  - (a) Install the water outlet (See page [EM-84](#)).
- 17. INSTALL INTAKE MANIFOLD**
  - (a) Install the intake manifold (See page [EM-84](#)).
- 18. INSTALL INTAKE AIR SURGE TANK**
  - (a) Install the intake air surge tank (See page [EM-8](#)).
- 19. INSTALL EMISSION CONTROL VALVE SET**
  - (a) Install the emission control valve set (See page [EM-8](#)).
- 20. INSTALL DRIVE PLATE & RING GEAR SUB-ASSEMBLY**  
**SST 09213-54015 (91651-60855), 09330-00021**
  - (a) Install the drive plate and ring gear sub-assembly (See page [EM-102](#)).
- 21. INSTALL ENGINE MOUNTING BRACKET RR**  
**Torque: 64 N\*m (653 kgf\*cm, 47 in.\*lbf)**
- 22. INSTALL AUTOMATIC TRANSMISSION W/ TRANSFER (for 4WD)**
  - (a) Install the automatic transmission w/ transfer (See page [TF-15](#)).
- 23. INSTALL TRANSFER STIFFENER PLATE RH (for 4WD)**
  - (a) Install the transfer stiffener plate RH (See page [TF-15](#)).
- 24. INSTALL AUTOMATIC TRANSAXLE ASSEMBLY (for 2WD)**
  - (a) Install the automatic transaxle assembly (See page [AX-172](#)).
- 25. INSTALL ENGINE MOUNTING BRACKET FR**
  - (a) Install the engine mounting bracket FR (See page [AX-172](#)).
- 26. INSTALL STARTER ASSEMBLY**
  - (a) Install the starter assembly (See page [ST-12](#)).
- 27. INSTALL FRONT DRIVE SHAFT ASSEMBLY LH**
  - (a) Install the front drive shaft assembly LH (See page [DS-15](#)).
- 28. INSTALL FRONT DRIVE SHAFT ASSEMBLY RH (for 2WD)**
  - (a) Install the front drive shaft assembly RH (See page [DS-15](#)).
- 29. INSTALL FRONT DRIVE SHAFT ASSEMBLY RH (for 4WD)**
  - (a) Install the front drive shaft assembly RH (See page [DS-15](#)).

**30. INSTALL FRONT FRAME ASSEMBLY**

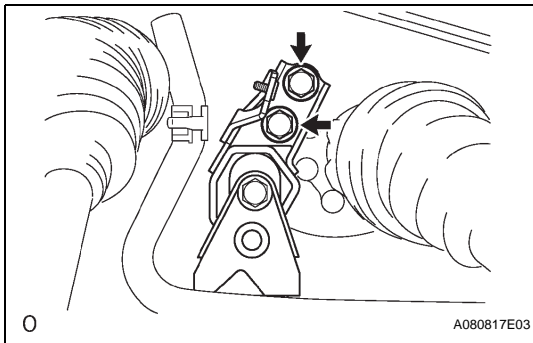
- (a) Install the engine mounting insulator RH and LH with the 2 nuts.

**Torque: 95 N\*m (969 kgf\*cm, 70 ft.\*lbf)**



- (b) Install the engine mounting insulator FR with the nut.

**Torque: 87 N\*m (887 kgf\*cm, 64 ft.\*lbf)**



- (c) Install the engine mounting insulator RR with the 2 bolts.

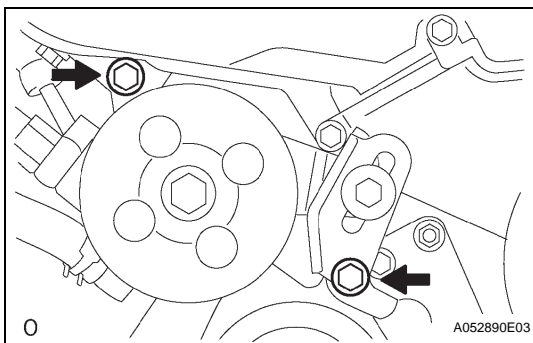
**Torque: 75 N\*m (765 kgf\*cm, 55 ft.\*lbf)**

**31. INSTALL POWER STEERING LINK ASSEMBLY (for 4WD)**

**Torque: 70 N\*m (714 kgf\*cm, 52 ft.\*lbf)**

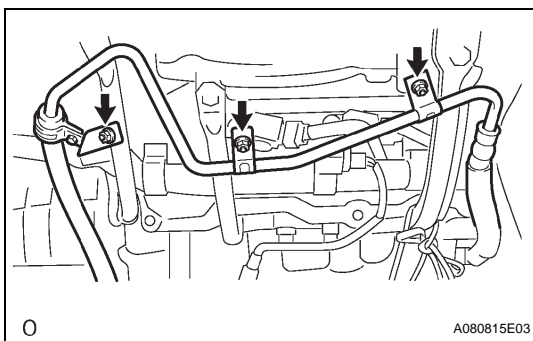
**32. INSTALL STABILIZER BAR FRONT (for 4WD)**

**Torque: 29 N\*m (296 kgf\*cm, 21 ft.\*lbf)**

**33. INSTALL VANE PUMP ASSEMBLY**

- (a) Temporarily tighten the bolt.  
 (b) Install the adjusting strut to the engine mounting bracket RH with the bolt.

**Torque: 43 N\*m (439 kgf\*cm, 32 ft.\*lbf)**



- (c) Connect the PS pressure tube with the 3 nuts.  
**Torque: 7.8 N\*m (80 kgf\*cm, 69 in.\*lbf)**

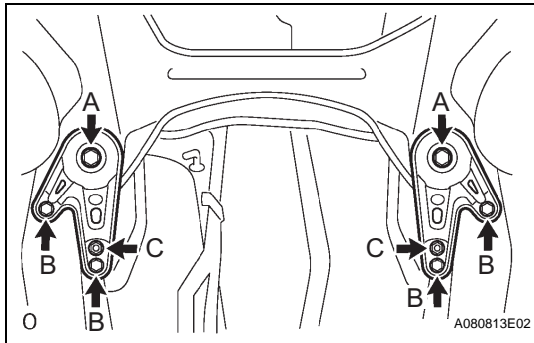
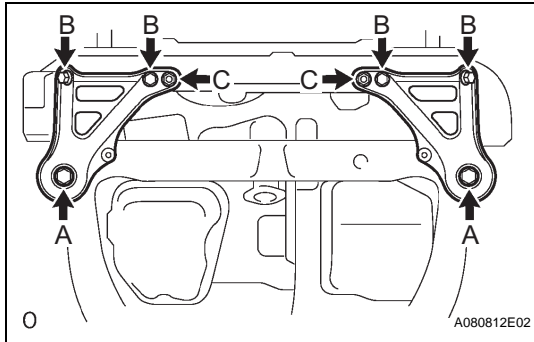
**34. INSTALL VANE PUMP V BELT**

- (a) Install the vane pump V belt (See page [EM-6](#)).

**35. INSTALL EXHAUST MANIFOLD CONVERTER SUB-ASSEMBLY**

- (a) Install the exhaust manifold converter sub-assembly (See page [EM-84](#)).

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**36. INSTALL MANIFOLD STAY**

- (a) Install the manifold stay (See page [EM-84](#)).

**37. INSTALL EXHAUST MANIFOLD HEAT INSULATOR NO.1**

- (a) Install the exhaust manifold heat insulator No.1 (See page [EM-84](#)).

**38. INSTALL ENGINE ASSEMBLY WITH TRANSAXLE**

- (a) Set the engine assembly with transaxle on the engine lifter.  
 (b) Install the engine assembly to the vehicle.  
 (c) Install the frame side rail plate RH and LH with the 6 bolts and 2 nuts.

**Torque: Bolt A**

**85 N\*m (867 kgf\*cm, 63 ft.\*lbf)**

**Bolt B**

**32 N\*m (326 kgf\*cm, 24 ft.\*lbf)**

**Nut C**

**32 N\*m (326 kgf\*cm, 24 ft.\*lbf)**

- (d) Install the front suspension member brace rear RH and LH with the 6 bolts and 2 nuts.

**Torque: Bolt A**

**85 N\*m (867 kgf\*cm, 63 ft.\*lbf)**

**Bolt B**

**32 N\*m (326 kgf\*cm, 24 ft.\*lbf)**

**Nut C**

**32 N\*m (326 kgf\*cm, 24 ft.\*lbf)**

**39. INSTALL HEIGHT CONTROL SENSOR LINK SUB-ASSEMBLY FRONT**

**Torque: 5.4 N\*m (55 kgf\*cm, 48 in.\*lbf)**

- (a) w/ air suspension

**40. CONNECT STEERING INTERMEDIATE SHAFT SUB-ASSEMBLY**

- (a) Connect the steering intermediate shaft sub-assembly (See page [PS-34](#)).

**41. INSTALL FRONT AXLE ASSEMBLY LH**

- (a) Install the front axle assembly LH (See page [DS-15](#)).

**42. INSTALL FRONT AXLE ASSEMBLY RH****HINT:**

Perform the same procedure as above on the opposite side.

**43. INSTALL FRONT SUSPENSION ARM SUB-ASSEMBLY LOWER NO.1 LH**

- (a) Install the front suspension arm sub-assembly lower No.1 LH (See page [DS-15](#)).

**44. INSTALL FRONT SUSPENSION ARM SUB-ASSEMBLY LOWER NO.1 RH****HINT:**

Perform the same procedure as above on the opposite side.

- 45. CONNECT TIE ROD END SUB-ASSEMBLY LH**
  - (a) Connect the tie rod end sub-assembly LH (See page [DS-15](#)).
- 46. CONNECT TIE ROD END SUB-ASSEMBLY RH**

HINT:  
Perform the same procedure as above on the opposite side.
- 47. INSTALL SPEED SENSOR FRONT LH**
  - (a) Install the speed sensor front LH (See page [DS-15](#)).
- 48. INSTALL SPEED SENSOR FRONT RH**

HINT:  
Perform the same procedure as above on the opposite side.
- 49. INSTALL FRONT AXLE HUB LH NUT**
  - (a) Install the front axle hub LH nut (See page [DS-15](#)).
- 50. INSTALL FRONT AXLE HUB RH NUT**

HINT:  
Perform the same procedure as above on the opposite side.
- 51. INSTALL FRONT STABILIZER LINK ASSEMBLY LH**
  - (a) Install the front stabilizer link assembly LH (See page [DS-15](#)).
- 52. INSTALL FRONT STABILIZER LINK ASSEMBLY RH**

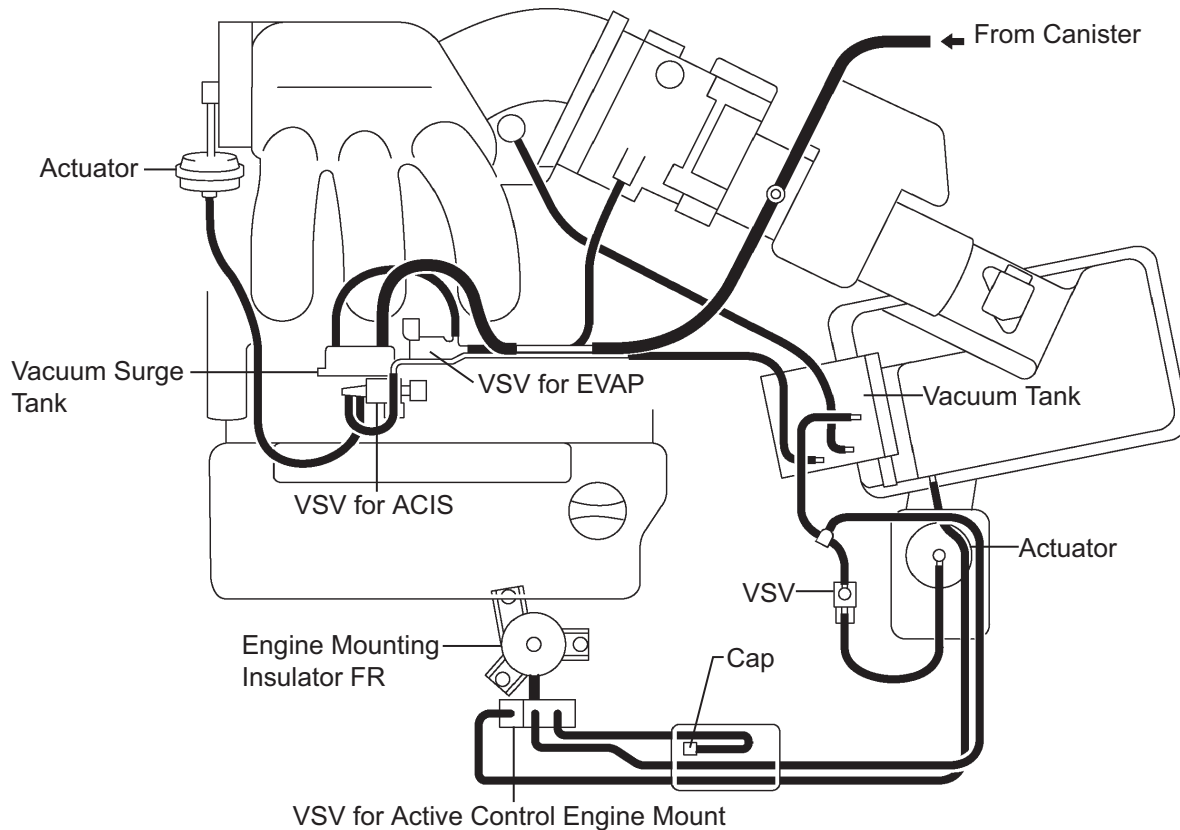
HINT:  
Perform the same procedure as above on the opposite side.
- 53. INSTALL EXHAUST PIPE SUPPORT BRACKET NO.1**

Torque: 21 N\*m (214 kgf\*cm, 15 ft.\*lbf)
- 54. INSTALL EXHAUST PIPE ASSEMBLY FRONT**
  - (a) Install the exhaust pipe assembly front (See page [EX-6](#)).
- 55. INSTALL EXHAUST PIPE SUB-ASSEMBLY FRONT NO.3**
  - (a) Install the exhaust pipe sub-assembly front No.3 (See page [EX-6](#)).
- 56. INSTALL PROPELLER SHAFT (for 4WD)**
  - (a) Install the propeller shaft (See page [PR-9](#)).
- 57. CONNECT FUEL PIPE SUB-ASSEMBLY NO.1**
  - (a) Connect the fuel pipe sub-assembly No.1 (See page [FU-1](#)).
- 58. INSTALL TRANSMISSION CONTROL CABLE ASSEMBLY**
  - (a) Install the transmission control cable assembly (See page [AX-163](#)).
- 59. INSTALL COMPRESSOR AND MAGNETIC CLUTCH**
  - (a) Install the compressor and magnetic clutch (See page [LU-20](#)).

- 60. INSTALL GENERATOR BELT ADJUSTING BAR**
  - (a) Install the generator belt adjusting bar (See page [LU-20](#)).
- 61. INSTALL GENERATOR BRACKET NO.2**
  - (a) Install the generator bracket No.2 (See page [EM-26](#)).
- 62. INSTALL ENGINE MOUNTING STAY NO.2 RH**
  - (a) Install the engine mounting stay No.2 RH (See page [EM-26](#)).
- 63. INSTALL ENGINE MOVING CONTROL ROD**
  - (a) Install the engine moving control rod (See page [EM-26](#)).
- 64. INSTALL GENERATOR ASSEMBLY**
  - (a) Install the generator assembly (See page [CH-15](#)).
- 65. INSTALL V (COOLER COMPRESSOR TO CRANKSHAFT PULLEY) BELT NO.1**
  - (a) Install the V (cooler compressor to crankshaft pulley) belt No.1 (See page [EM-6](#)).
- 66. INSPECT DRIVE BELT DEFLECTION AND TENSION**
  - (a) Inspect the drive belt deflection and tension (reference) (See page [EM-1](#)).
- 67. INSTALL AIR CLEANER INLET NO.1**
  - (a) Install the air cleaner inlet No.1 (See page [ST-12](#)).
- 68. INSTALL AIR CLEANER BRACKET**
  - (a) Install the air cleaner bracket (See page [ST-12](#)).
- 69. INSTALL AIR CLEANER CASE**
  - (a) Install the air cleaner case (See page [ST-12](#)).
- 70. INSTALL AIR CLEANER INLET NO.2**
  - (a) Install the air cleaner inlet No.2 (See page [ST-12](#)).
- 71. INSTALL AIR CLEANER CAP SUB-ASSEMBLY**
  - (a) Install the air cleaner cap sub-assembly (See page [FU-14](#)).

## 72. CONNECT VACUUM HOSE

Vacuum Hose Routing Diagram



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## 73. INSTALL V-BANK COVER SUB-ASSEMBLY

- (a) Install the V-bank cover sub-assembly (See page [EM-8](#)).

## 74. INSTALL COWL TOP PANEL SUB-ASSEMBLY OUTER

- (a) Install the cowl top panel sub-assembly outer (See page [FU-14](#)).

## 75. INSTALL WINDSHIELD WIPER LINK ASSEMBLY

- (a) Install the windshield wiper link assembly (See page [WW-38](#)).

## 76. INSTALL COWL TOP VENTILATOR LOUVER SUB-ASSEMBLY

- (a) Install the cowl top ventilator louver sub-assembly (See page [WW-38](#)).

## 77. INSTALL FR WIPER ARM LH

- (a) Install the FR wiper arm LH (See page [WW-38](#)).

## 78. INSTALL FR WIPER ARM RH

- (a) Install the FR wiper arm RH (See page [WW-38](#)).

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- 79. INSTALL FRONT WHEELS**
  - (a) Install the front wheels (See page [EM-6](#)).
- 80. ADD TRANSFER OIL (for 4WD)**
  - (a) Add transfer oil (See page [TF-3](#)).
- 81. INSPECT TRANSFER OIL (for 4WD)**
  - (a) Inspect the transfer oil (See page [TF-3](#)).
- 82. ADD AUTOMATIC TRANSAXLE FLUID**
- 83. ADD ENGINE OIL**
  - (a) Add engine oil (See page [LU-5](#)).
- 84. ADD ENGINE COOLANT**
  - (a) Add engine coolant (See page [CO-7](#)).
- 85. ADD POWER STEERING FLUID**
- 86. BLEED POWER STEERING FLUID**
- 87. INSPECT AUTOMATIC TRANSAXLE FLUID**
  - (a) Inspect the automatic transaxle fluid (See page [AX-130](#)).
- 88. CHECK FOR ENGINE OIL LEAKS**
- 89. CHECK FOR ENGINE COOLANT LEAKAGE**
  - (a) Check the engine coolant leakage (See page [CO-1](#)).
- 90. CHECK POWER STEERING FLUID LEAKAGE**
- 91. INSPECT FUEL LEAKAGE**
- 92. CHECK FOR EXHAUST GAS LEAKAGE**
- 93. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT**
  - (a) Inspect and adjust front wheel alignment (See page [SP-2](#)).
- 94. INSPECT STEERING WHEEL CENTER POINT**
- 95. INSPECT IGNITION TIMING**

**SST 09843-18040**

  - (a) Inspect the ignition timing (See page [EM-1](#)).
- 96. INSPECT ENGINE IDLE SPEED**

**SST 09843-18040**

  - (a) Inspect the engine idle speed (See page [EM-1](#)).
- 97. INSPECT CO/HC**
  - (a) Inspect the CO/HC (See page [EM-1](#)).
- 98. CHECK ABS SPEED SENSOR SIGNAL**