ENGINE ASSY (14B)

1416T–01

REPLACEMENT

1. **DISCONNECT BATTERY NEGATIVE TERMINAL**
2. **DRAIN ENGINE COOLANT**
3. **DISCONNECT RADIATOR RESERVE TANK HOSE OR PIPE**
4. **REMOVE FRONT SEAT ASSEMBLY (DRIVER SEAT) (W/O TILT CAB CAB TYPE) (See page 72–2)**
5. **REMOVE PARKING BRAKE HOLE COVER (W/O TILT CAB CAB TYPE) (See page 14–23)**
6. **REMOVE PARKING BRAKE LEVER ASSY (W/O TILT CAB CAB TYPE) (See page 14–23)**
7. **REMOVE FLOOR SHIFT SHIFT LEVER KNOB SUB–ASSY (W/O TILT CAB CAB TYPE)**
8. **REMOVE SHIFTING HOLE COVER SUB–ASSY AND SHIFT LEVER BOOT COVER (W/O TILT CAB CAB TYPE) (See page 14–23)**
9. **REMOVE SHIFT AND SELECT TRANSMISSION CONTROL CABLE ASSY (W/O TILT CAB CAB TYPE) (See page 14–23)**
10. **REMOVE FLOOR SHIFT ASSY (W/O TILT CAB CAB TYPE)**
11. **REMOVE ENGINE SERVICE HOLE SUB COVER SUB–ASSY (W/O TILT CAB CAB TYPE) (See page 14–23)**
12. **DISCONNECT RADIATOR HOSE INLET**
13. **DISCONNECT RADIATOR HOSE OUTLET**
14. **REMOVE FAN SHROUD (See page 16–11)**
15. **REMOVE RADIATOR ASSY (See page 16–11)**
16. **DISCONNECT ENGINE WIRE**
17. **REMOVE AIR HOSE NO.1**
18. **DISCONNECT ACCEL CONTROL W/ THROTTLE CABLE ASSY**
19. **DISCONNECT FUEL MAIN HOSE**
20. **DISCONNECT FUEL RETURN HOSE**
21. **DISCONNECT TIE ROD END SUB–ASSY RH (See pages 30–50 and 30–55)**
22. **DISCONNECT TIE ROD END SUB–ASSY LH (See pages 30–50 and 30–55)**
23. **REMOVE PROPELLER SHAFT ASSY (See pages 30–4 and 30–14)**
24. **DISCONNECT CLUTCH RELEASE CYLINDER ASSY**

HINT:

Disconnect the clutch release cylinder assembly with the hose connected, and then it should be hung with rope.

25. **REMOVE EXHAUST PIPE ASSY FRONT (See page 15–8)**
26. **DISCONNECT FLOOR SHIFT CABLE TRANSMISSION CONTROL SHIFT**

(a) Remove the clip and nut, and then disconnect the shift cable from the transmission.

27. **DISCONNECT FLOOR SHIFT CABLE TRANSMISSION CONTROL SELECT**

(a) Remove the clip and nut, and then disconnect the select cable from the transmission.

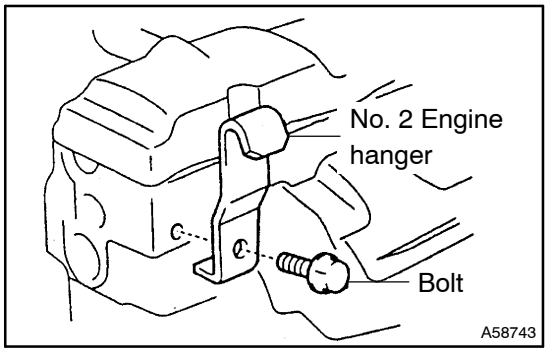
28. **REMOVE FRONT AXLE I–BEAM**

(a) Remove the steering knucles (See pages 30–50 and 30–55).
(b) Remove the front spring (See pages 26–5 and 26–13).
(c) Remove the front axle I–beam.

29. **REMOVE ENGINE W/ TRANSMISSION ASSEMBLY**

(a) Using an engine lifter to hold the engine, separate the mount of the transmission.
(b) Disconnect the parking brake cable No. 3 (for vehicles with center brake).

(c) First remove the engine front mounting bracket RH and LH, and then remove the engine assembly together with the transmission.



(d) Install the No. 2 engine hanger in the correct direction.
Part No.:

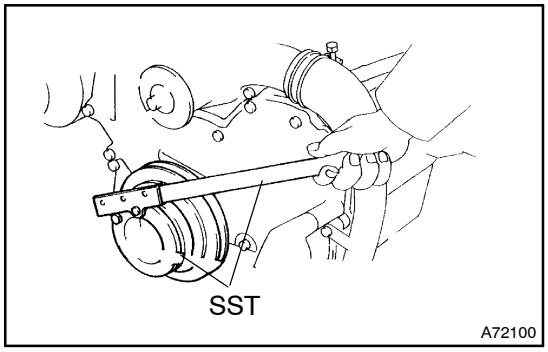
No. 2 engine hanger	12282–54060
Bolt	91612–61022

Torque: 37 N·m (380 kgf·cm, 27 ft·lbf)

(e) Using a chain block and engine sling device, hang up the engine assembly so as not tilt it.

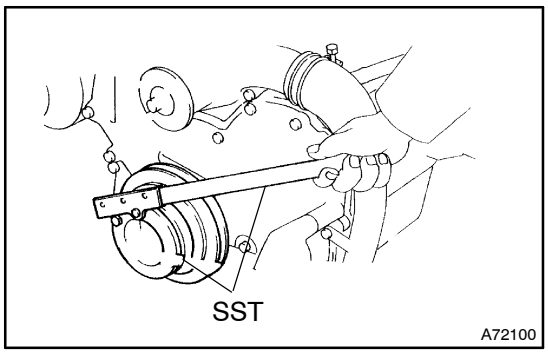
CAUTION:
Do not attempt to hang the engine by hooking the chain to any other part.

30. REMOVE ENGINE WIRE
31. REMOVE STARTER ASSY (See page 19–3)
32. REMOVE MANUAL TRANSMISSION ASSY (See page 41–3)
33. REMOVE CLUTCH COVER ASSY (See page 42–24)
34. REMOVE CLUTCH DISC ASSY (See page 42–24)

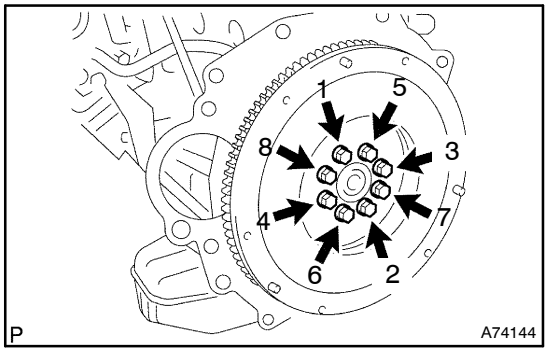


35. REMOVE FLYWHEEL SUB–ASSY
(a) Using SST to fix the crankshaft pulley, remove the flywheel.
SST 09213–58013 (91111–50845), 09330–00021

36. REMOVE REAR END PLATE
37. INSTALL REAR END PLATE



38. INSTALL FLYWHEEL SUB–ASSY
(a) Using SST, fix the crankshaft pulley.
SST 09213–58013 (91111–50845), 09330–00021
(b) Apply adhesive to 2 or 3 threads of the mounting bolt end.
Adhesive:
Part No. 08833–00080 THREE BOND 1344 or equivalent



(c) Install the bolts, as shown in the illustration.
Torque: 160 N·m (1,635 kgf·cm, 121 ft·lbf)

NOTICE:
Do not start the engine within 1 hour after the installation.

39. INSTALL CLUTCH DISC ASSY (See page 42–24)
40. INSTALL CLUTCH COVER ASSY (See page 42–24)
41. INSTALL MANUAL TRANSMISSION ASSY (See page 41–3)
42. INSTALL STARTER ASSY (See page 19–3)
43. INSTALL ENGINE WIRE
44. INSTALL FRONT AXLE I–BEAM
(a) Install the front axle I–beam.
(b) Install the front spring (See page 26–5 and 26–13).
(c) Install the steering knucles (See page 30–50 and 30–55).
45. INSTALL ENGINE W/ TRANSMISSION ASSEMBLY
(a) Using an engine lifter, install the engine assembly with the transmission.
Torque:
61 N·m (622 kgf·cm, 45 ft·lbf) for mounting bracket RH, LH to frame
42 N·m (430 kgf·cm, 31 ft·lbf) for mounting bracket RH, LH to mounting insulator FR
98 N·m (1000 kgf·cm, 72 ft·lbf) for mounting bracket RR to mounting bracket RR No. 2
(b) Remove the No. 2 engine hanger.
46. INSTALL FLOOR SHIFT CABLE TRANSMISSION CONTROL SELECT
(a) Install the control cable with the clip and nut.
Torque: 12 N·m (120 kgf·cm, 9 ft·lbf)
47. INSTALL FLOOR SHIFT CABLE TRANSMISSION CONTROL SHIFT
(a) Install the control cable with the clip and nut.
Torque: 12 N·m (120 kgf·cm, 9 ft·lbf)
48. INSTALL EXHAUST PIPE ASSY FRONT
49. INSTALL CLUTCH RELEASE CYLINDER ASSY (See page 42–21)
50. INSTALL PROPELLER SHAFT ASSY (See pages 30–4 and 30–14)
51. INSTALL TIE ROD END SUB–ASSY LH (See pages 30–50 and 30–55)
52. INSTALL TIE ROD END SUB–ASSY RH (See pages 30–50 and 30–55)
53. INSTALL FUEL RETURN HOSE
54. INSTALL FUEL MAIN HOSE
55. INSTALL ACCEL CONTROL W/ THROTTLE CABLE ASSY
56. INSTALL AIR HOSE NO.1
57. INSTALL ENGINE WIRE
58. INSTALL RADIATOR ASSY (See page 16–11)
59. INSTALL FAN SHROUD (See page 16–11)
60. INSTALL ENGINE SERVICE HOLE SUB COVER SUB–ASSY (W/O TILT CAB CAB TYPE) (See page 14–23)
61. INSTALL FLOOR SHIFT ASSY (W/O TILT CAB CAB TYPE) (See page 14–23)
62. INSTALL SHIFT AND SELECT TRANSMISSION CONTROL CABLE ASSY (W/O TILT CAB CAB TYPE) (See page 14–23)
63. INSTALL PARKING BRAKE LEVER ASSY (W/O TILT CAB CAB TYPE) (See page 14–23)

64. **INSTALL FRONT SEAT ASSEMBLY (DRIVER SEAT) (W/O TILT CAB CAB TYPE) (See page 72–2)**
65. **ADJUST PARKING BRAKE SHOE CLEARANCE (CENTER PARKING BRAKE) (See page 33–11)**
66. **INSPECT AND ADJUST PARKING BRAKE LEVER TRAVEL (See page 33–11)**
67. **REFILL ENGINE COOLANT**
68. **BLEED FUEL (See page 11–4)**
69. **CONNECT BATTERY NEGATIVE TERMINAL**
70. **CHECK FOR ENGINE COOLANT LEAKS**
71. **INSPECT FOR FUEL LEAKS**
72. **INSPECT AND ADJUST FRONT WHEEL ALIGNMENT (See page 26–2)**