

REPLACEMENT

1. DRAIN BRAKE FLUID

NOTICE:

Wash brake fluid off immediately if it adheres to on any painted surface.

2. REMOVE FRONT WIPER ARM HEAD CAP

3. REMOVE FR WIPER ARM LH (See Pub. No. RM864E, page 66-9)

4. REMOVE FR WIPER ARM RH (See Pub. No. RM864E, page 66-9)

5. REMOVE COWL TOP VENTILATOR LOUVER SUB-ASSY (See Pub. No. RM864E, page 66-9)

6. REMOVE WIPER LINK ASSY (See Pub. No. RM864E, page 66-9)

7. REMOVE COWL TOP PANEL SUB-ASSY OUTER (See Pub. No. RM864E, page 14-20)

8. REMOVE BRAKE MASTER CYLINDER SUB-ASSY (SEE PAGE 32-5)

SST 09023-00100

9. REMOVE CLUTCH MASTER CYLINDER ASSY (M/T TRANSAXLE)

(See Pub. No. RM864E, page 42-13)

10. REMOVE CLUTCH RESERVOIR TUBE (M/T TRANSAXLE)

(a) Remove the 2 clips and clutch reservoir tube.

11. REMOVE RESERVOIR TUBE NO.2

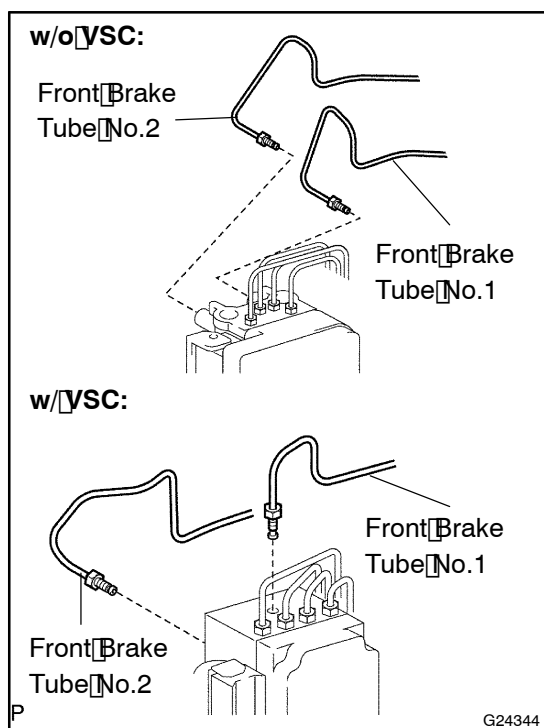
(a) Remove the clip and reservoir tube No.2.

12. REMOVE RESERVOIR TUBE NO.1

(a) Remove the clip and reservoir tube No.1.

13. REMOVE BRAKE MASTER CYLINDER RESERVOIR SUB-ASSY

(a) Remove the 2 bolts and reservoir sub-assy.



14. REMOVE FRONT BRAKE TUBE NO.2

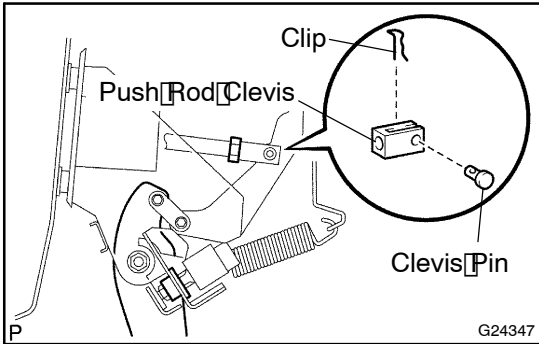
(a) Using SST, remove the brake tube No.2 from the brake actuator assy.

SST 09023-00100

15. REMOVE FRONT BRAKE TUBE NO.1

(a) Using SST, remove the brake tube No.1 from the brake actuator assy.

SST 09023-00100



16. SEPARATE BRAKE MASTER CYLINDER PUSH ROD CLEVIS

- Remove the clip and push rod clevis pin, and separate the push rod clevis from the brake pedal.

17. REMOVE CYLINDER HEAD COVER SUB-ASSY

18. REMOVE EXHAUST MANIFOLD CONVERTER SUB-ASSY (GASOLINE ENGINE TYPE)

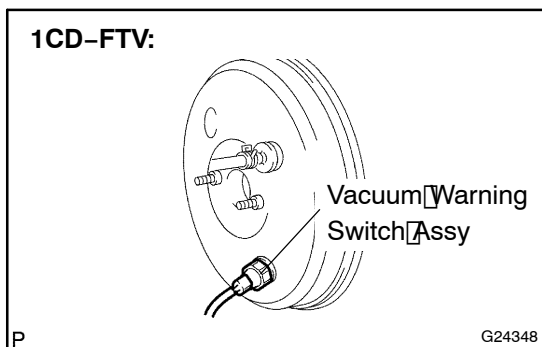
1AZ-FE: (See Pub. No. RM864E, page 14-20)

2AZ-FE: (SEE PAGE 14-22)

19. REMOVE TIMING BELT (1CD-FTV ENGINE TYPE) (See Pub. No. RM864E, page 14-114)

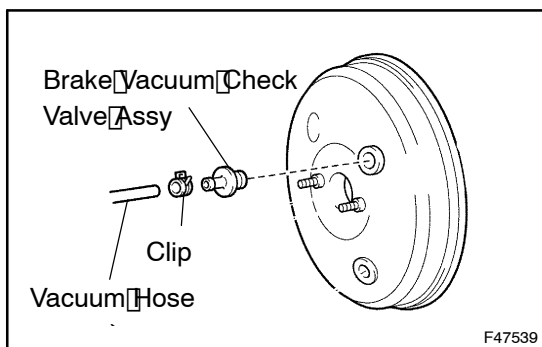
20. SEPARATE PRESSURE FEED TUBE ASSY (1CD-FTV ENGINE TYPE)

- Remove the union bolt and gasket, and separate the pressure feed tube assy.
- Remove the bolt and separate the pressure feed tube clamp.



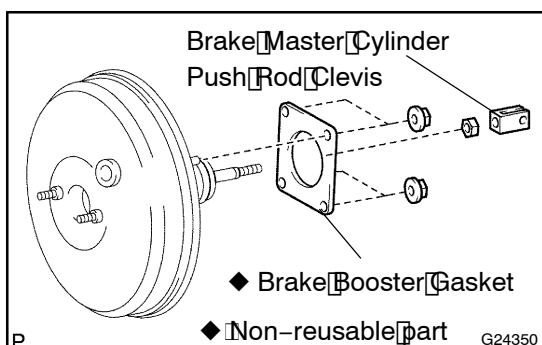
21. REMOVE VACUUM WARNING SWITCH ASSY (1CD-FTV ENGINE TYPE)

- Disconnect the vacuum warning switch connector.
- Remove the vacuum warning switch assy.



22. REMOVE BRAKE VACUUM CHECK VALVE ASSY

- Remove the clip and disconnect the vacuum hose.
- Remove the vacuum check valve assy.

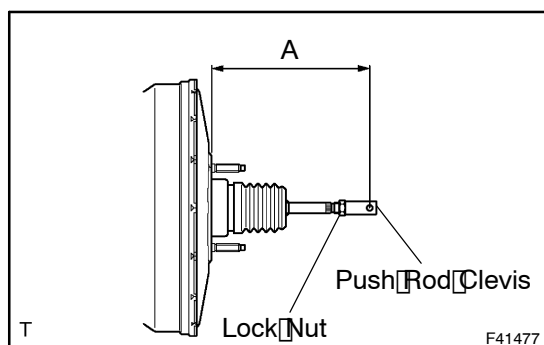


23. REMOVE BRAKE BOOSTER ASSY

- Remove the push rod clevis and lock nut from the brake booster assy.
- Remove the 4 nuts, brake booster assy and gasket.

24. INSTALL BRAKE BOOSTER ASSY

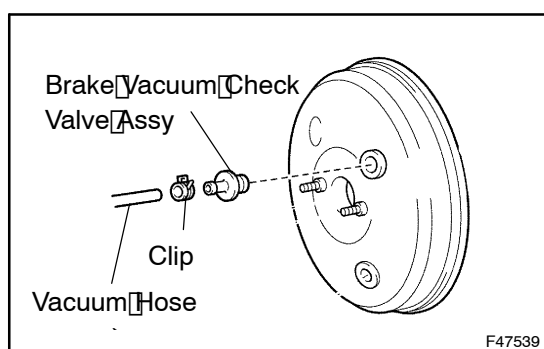
- (a) Install a new gasket and brake booster assy.
- (b) Install the clevis lock nut and push rod clevis to the brake booster assy.



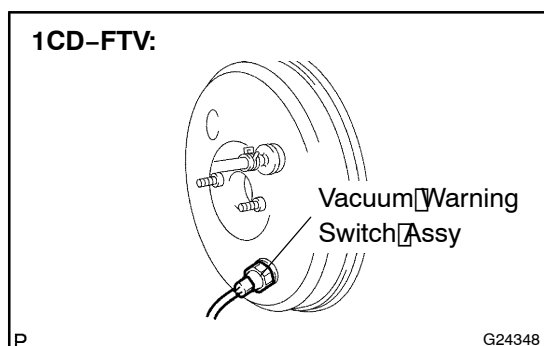
- (c) Turn the push rod clevis and adjust the length "A" in the illustration.

Length "A": 167.9 to 168.9 mm (6.610 to 6.650 in.)

- (d) Tighten the clevis lock nut.
Torque: 26 N·m (265 kgf·cm, 19 ft·lbf)
- (e) Install the 4 nuts to the brake booster assy.
Torque: 13 N·m (130 kgf·cm, 9 ft·lbf)

**25. INSTALL BRAKE VACUUM CHECK VALVE ASSY**

- (a) Install the vacuum check valve assy.
- (b) Connect the vacuum hose with the clip.

**26. INSTALL VACUUM WARNING SWITCH ASSY (1CD-FTV ENGINE TYPE)**

- (a) Install the vacuum warning switch assy.
Torque: 14 N·m (140 kgf·cm, 10 ft·lbf)
- (b) Connect the vacuum warning switch connector.

27. CONNECT PRESSURE FEED TUBE ASSY (1CD-FTV ENGINE TYPE)

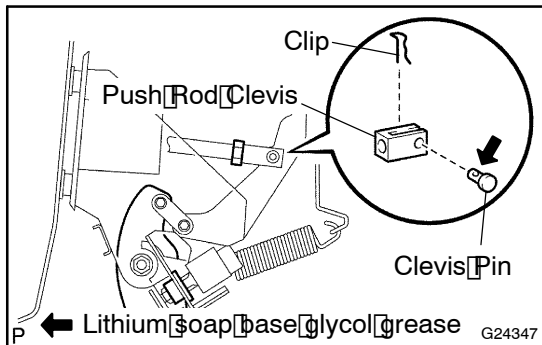
- (a) Connect the pressure feed tube clamp with the bolt.
Torque: 7.8 N·m (80 kgf·cm, 69 in·lbf)
- (b) Install the pressure feed tube and a new gasket with the union bolt.
Torque: 52 N·m (525 kgf·cm, 38 ft·lbf)

28. INSTALL TIMING BELT (1CD-FTV ENGINE TYPE) (See Pub. No. RM864E, page 14-11)**29. INSTALL EXHAUST MANIFOLD CONVERTER SUB-ASSY (GASOLINE ENGINE TYPE)**

1AZ-FE: (See Pub. No. RM864E, page 14-20)

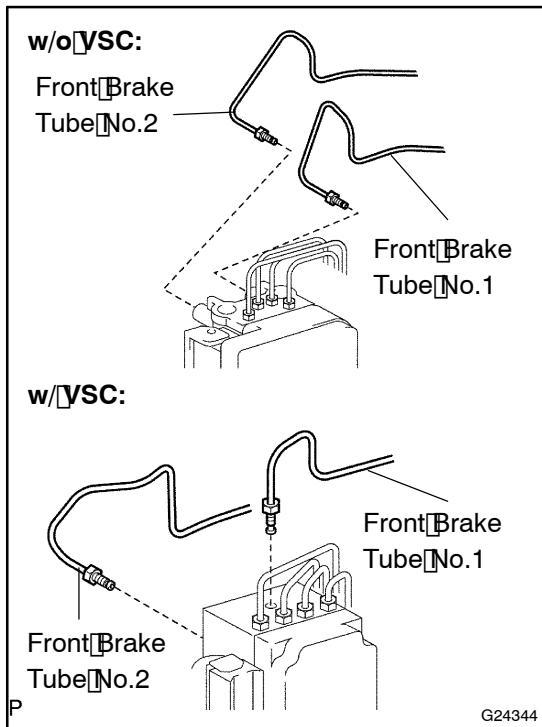
2AZ-FE: (SEE PAGE 14-22)

30. INSTALL CYLINDER HEAD COVER SUB-ASSY



31. CONNECT BRAKE MASTER CYLINDER PUSH ROD CLEVIS

- Apply lithium soap base glycol grease to the push rod clevis pin.
- Connect the push rod clevis and brake pedal with the push rod clevis pin and clip.



32. INSTALL FRONT BRAKE TUBE NO.1

- Using SST, install the brake tube No.1 to the brake actuator Assy.
SST 09023-00100
Torque: 15 N·m (153 kgf·cm, 11 ft·lbf)

33. INSTALL FRONT BRAKE TUBE NO.2

- Using SST, install the brake tube No.2 to the brake actuator Assy.
SST 09023-00100
Torque: 15 N·m (153 kgf·cm, 11 ft·lbf)

34. INSTALL BRAKE MASTER CYLINDER RESERVOIR SUB-ASSY

- Install the reservoir sub-assy with the 2 bolts.
Torque: 8.8 N·m (90 kgf·cm, 78 in·lbf)

35. INSTALL RESERVOIR TUBE NO.1

- Install the reservoir tube No.1 with the clips.

36. INSTALL RESERVOIR TUBE NO.2

- Install the reservoir tube No.2 with the clips.

37. INSTALL CLUTCH RESERVOIR TUBE (M/T TRANSAXLE)

- Install the clutch reservoir tube with the 2 clips.

38. INSTALL CLUTCH MASTER CYLINDER ASSY (M/T TRANSAXLE)

(See Pub. No. RM864E, page 42-13)

SST 09023-00100

39. INSTALL BRAKE MASTER CYLINDER SUB-ASSY (SEE PAGE 32-5)

SST 09023-00100

40. INSTALL COWL TOP PANEL SUB-ASSY OUTER (See Pub. No. RM864E, page 14-20)

41. INSTALL WIPER LINK ASSY (See Pub. No. RM864E, page 66-9)

42. INSTALL COWL TOP VENTILATOR LOUVER SUB-ASSY (See Pub. No. RM864E, page 66-9)

43. INSTALL FR WIPER ARM LH (See Pub. No. RM864E, page 66-9)

44. INSTALL FR WIPER ARM RH (See Pub. No. RM864E, page 66-9)

45. INSTALL FRONT WIPER ARM HEAD CAP

AVENSIS/VERSO/PICNIC Supplement (RM1032E)

46. FILL RESERVOIR WITH BRAKE FLUID (SEE PAGE 32-1)
47. BLEED MASTER CYLINDER (SEE PAGE 32-1)
SST 09023-00100
48. BLEED BRAKE LINE (SEE PAGE 32-1)
49. BLEED CLUTCH PIPE LINE (M/T TRANSAXLE) (See Pub. No. RM864E, page 42-13)
50. CHECK FLUID LEVEL IN RESERVOIR (SEE PAGE 32-1)
51. ADD POWER STEERING FLUID (1CD-FTV ENGINE TYPE)
(See Pub. No. RM864E, page 51-3)
52. BLEED POWER STEERING FLUID (1CD-FTV ENGINE TYPE)
(See Pub. No. RM864E, page 51-3)
53. CHECK BRAKE FLUID LEAKAGE
54. CHECK CLUTCH FLUID LEAKAGE (M/T TRANSAXLE)
55. CHECK POWER STEERING FLUID LEAKAGE (1CD-FTV ENGINE TYPE)
56. CHECK AND ADJUST BRAKE PEDAL HEIGHT (See Pub. No. RM864E, page 32-5)
57. CHECK PEDAL FREE PLAY (See Pub. No. RM864E, page 32-5)
58. CHECK PEDAL RESERVE DISTANCE (See Pub. No. RM864E, page 32-5)