

1973-77 C337G Door Lift Assist Servicing Guide

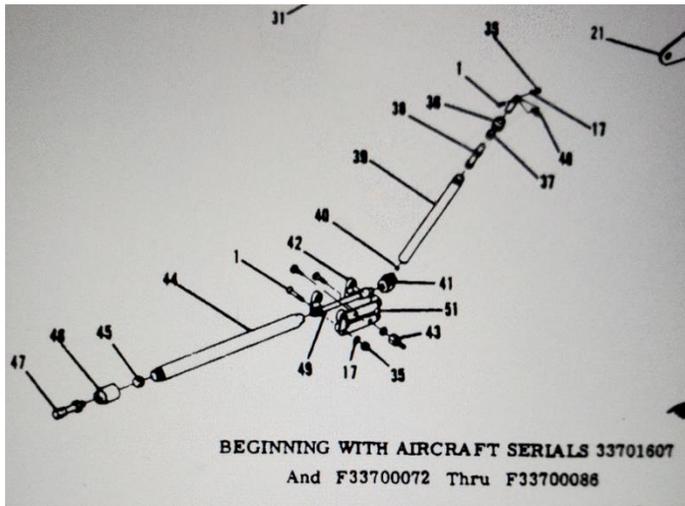


Figure 3-6. Cabin Door Latch (Sheet 2 of 2)

Change 6

THRU AIRCRAFT SERIALS 33701606 AND F33700071

1. Screw	15. Plate (Support)	28. Shaft	41. Pivot Assy
2. Latch Assembly	16. Shaft	29. Turnbuckle	42. Bearing Half
3. Torque Tube	17. Washer	30. Rod End	43. Nut Bolt
4. Bracket	18. Cam	31. Door Handle Outside	44. Cylinder Housing
5. Pivot Assembly	19. Gear	32. Shaft Assembly	45. Floating Piston
6. Pin	20. Roll Pin	33. Bushing	46. Cylinder End
7. Rod	21. Shim	34. Cotter Pin	47. Valve Assy
8. Push Rod	22. Bearing	35. Nut	48. Eye Bolt
9. Spacer	23. Bearing Support	36. Cylinder Cap	49. Shaft Assy
10. Knob	24. Pivot Pin	37. Sleeve	50. Grommet
11. Spring	25. Lock Link	38. Piston	51. Support Assy
12. Plate	26. Actuating Link	39. Cylinder Housing	52. Spacer Assy
13. Gear Support	27. Bracket Assembly	40. Ball	53. Cable Assy
14. Handle			54. Clip

Figure 3-6. Cabin Door Latch (Sheet 1 of 2)

Change 3 3-9

3-24B. UPPER CABIN DOOR LIFT ASSIST (Refer to figure 3-6).

3-24C. DESCRIPTION. The upper cabin door lift assist is a two part accumulator. The lower portion is charged with air or nitrogen while the upper portion is filled with hydraulic fluid (MIL-H-5606).

3-24D. REMOVAL AND INSTALLATION (Refer to figure 3-6).

- Remove upholstery panels to gain access to door lift mounting.
- Support upper cabin door assembly and remove screw (1) and nut (35) attaching piston rod (38) to upper cabin door eyebolt (48).
- Remove four screws (1) attaching bearing half (42) to support assembly (51).
- Remove door lift assist assembly.

e. Reverse preceding steps for installation.

3-24E. SERVICING (Refer to figure 3-6).

- Remove door lift assist assembly in accordance with paragraph 3-24D.
- Remove cap (36) and piston rod (38), and pour excess hydraulic fluid into suitable container. Retain ball (40).
- Clamp door lift assist assembly in a vise with lift cylinder (39) in upright position at a 45° angle.
- Remove cap and air valve from valve (47).
- Slowly apply shop air pressure to valve (47) to move accumulator piston (45) to the end of its stroke.

NOTE

Excess hydraulic fluid may overflow from end of lift cylinder (39).

- Fill lift cylinder with clean hydraulic fluid (MIL-H-5606) to within approximately 2 inches of top.
- Insert piston rod (38) into lift cylinder and force it down to the end of its stroke.
- Remove piston rod and reapply shop air pressure to valve (47).
- Replace ball (40) and finish filling lift cylinder (39) to the top with hydraulic fluid.
- Install cap (36) and sleeve (37) on piston rod (38) and carefully insert piston rod into cylinder. Cap (36) acts as a friction adjustment for the piston rod but should not be tightened to the point of restricting piston rod motion.
- Reinstall door lift assist in accordance with paragraph 3-24D and charge accumulator.

NOTE

When charging accumulator, pressurize only until door is held open and a 2 to 3 pound force measured with a pull scale is required to start door toward closed.

You'll need:

2 x MS28782-6 "Ring"

1 x MS28775-011 "Packing Seal"

1 x S1628-011 "Ring"

MIL-H-5606 Hydraulic Fluid

Strut Pump

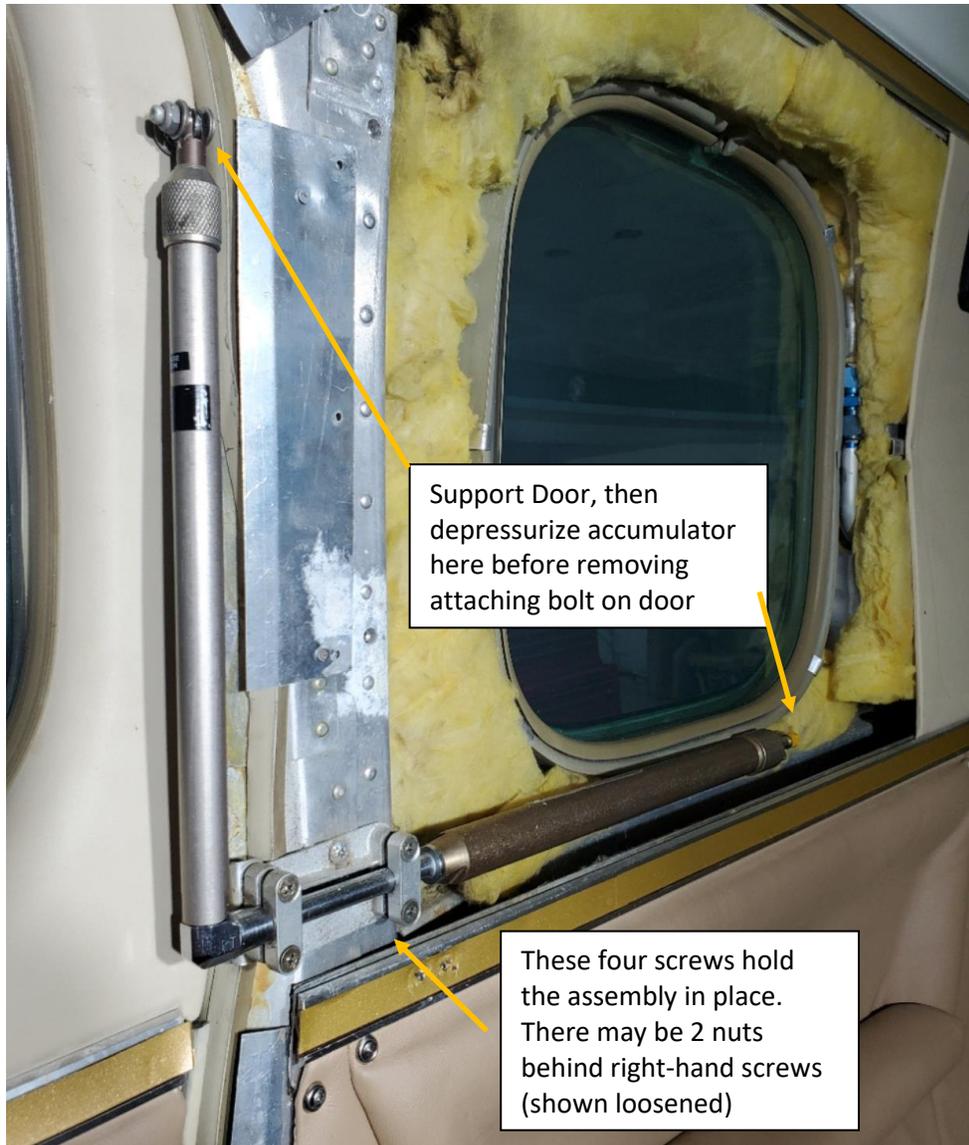
Nitrogen

Shop Air

Vice

Clean Rags

Airpowerinc.com had all replacement seals in stock as of 3/2023, for less than \$10





MS 28782-6 (2)

MS 28775-011

51628-011

1/4" DIA. STEEL