

Projekt-Planung (Stand 2017)

1. Phase England
 - a. Geografische Lage
 - b. Topografische Lage
 - c. Materielle Lage
 - d. Rechtliche Lage
 - e. Finanzelle Lage
 - f. Transporttechnische Lage
2. Phase Transport
 - a. Transportmittel
 - b. Zugang/Zufahrt
 - c. Transport von über nach
 - d. Zoll
 - e. Sperren
3. Phase Österreich
 - a. Ankunftsort
 - b. Topografische Lage
 - c. Rechtliche Lage
 - d. Finanzelle Lage
 - e. Zutrittsberechtigung
 - f. Restaurierung
 - g. Ausstellung

Inspection of Westland WS-55 Whirlwind	2017
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at the International Helicopter Museum

address: Locking Moor Road, Weston-super-Mare BS24 8PP, United Kingdom

duty-chef:

date:

type. Westland WS-55 Whirlwind

series: HAS 7

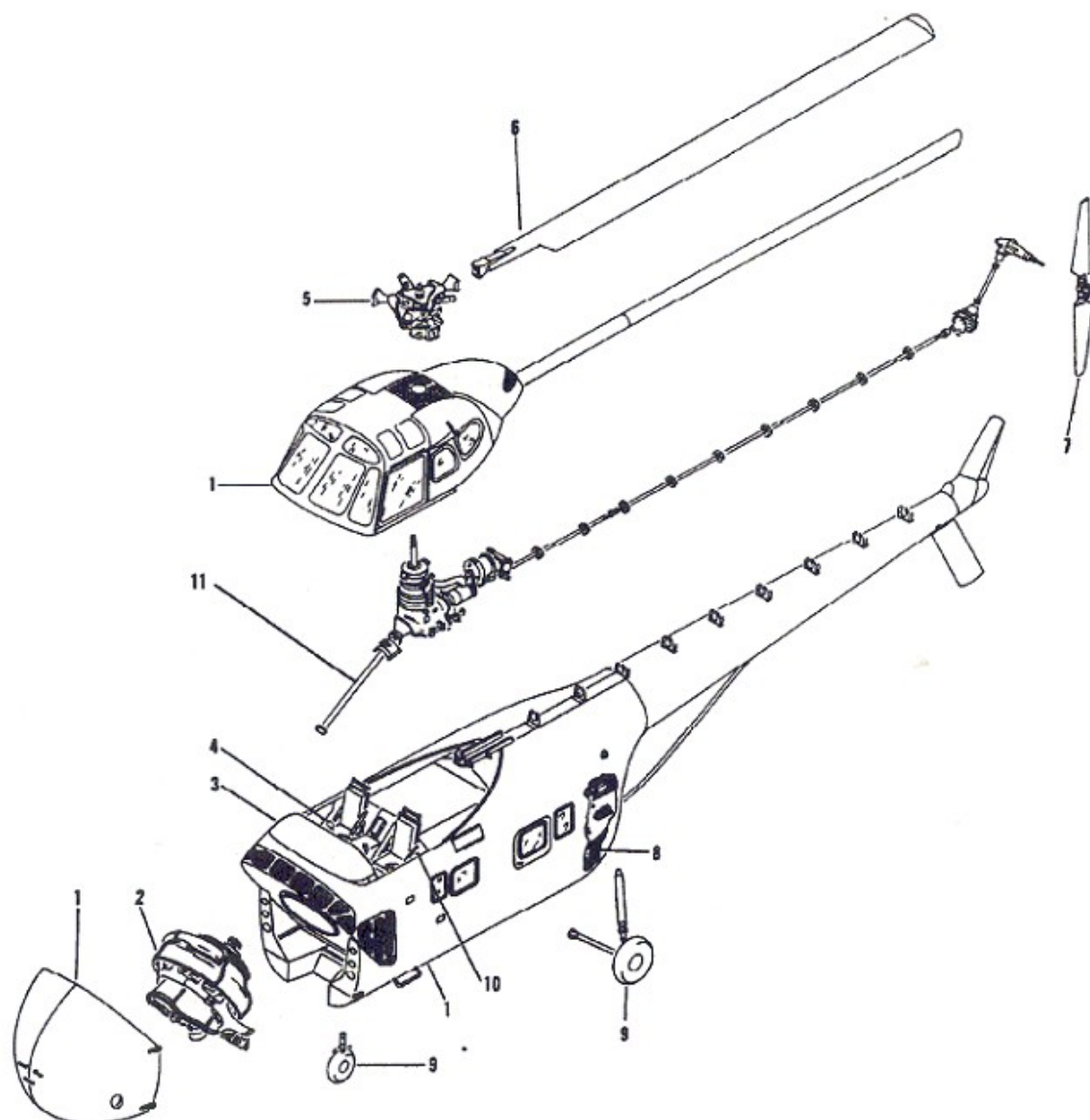
Serial-Nr: XG596

Remarks:

Inspection Personnel:

- Roland KOBENZ, capt. Mag.(FH) Ing.
- Huberst STRIMITZER
- 2 technican
-

Additional notes:



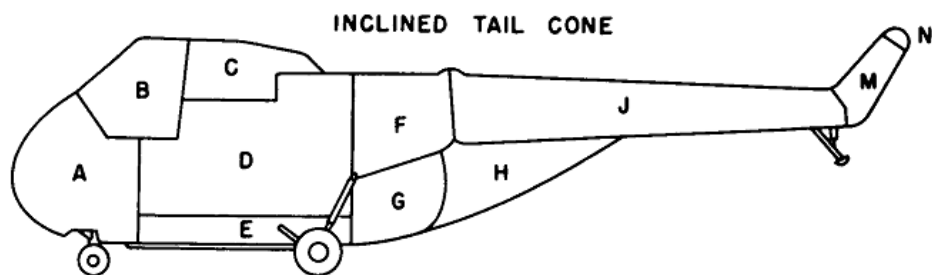
INDEX NO.	DESCRIPTION	FIGURE NO.	INDEX NO.	DESCRIPTION	FIGURE NO.
1	Fuselage	12	7	Tail Rotor Blade and Hub	10
2	Power Plant	38	8	Electrical	118 & 119
3	Instrument	106	9	Landing Gear	23
4	Flight Controls	85	10	Furnishing	109
5	Main Rotor	2	11	Transmission	62 & 63
6	Main Blade	9			

Completion of Index:

1: complete j/n	2: complete j/n	3: complete j/n	4: complete j/n
5: complete j/n	6: complete j/n	7: complete j/n	8: complete j/n
9: complete j/n	10: complete j/n	11: complete j/n	-

Notes:

Condition - Fuselage:



LEGEND

CABIN SECTION

A ENGINE COMPARTMENT
 B COCKPIT
 C TRANSMISSION COMPARTMENT
 D CABIN
 E FUEL TANK COMPARTMENT
 F BAGGAGE COMPARTMENT
 G ELECTRICAL AND RADIO COMPARTMENT

TAIL CONE SECTION

H FIN
 J TAIL CONE
 K TAIL CONE HOUSING
 L AFT END FAIRING
 M PYLON
 N CAP

General condition:	LH -side	RH -side	Remarks
Section A	_____	_____	
Section B	_____	_____	
Section C	_____	_____	
Section D	_____	_____	
Section E	_____	_____	
Section F	_____	_____	
Section G	_____	_____	
Section H	_____	_____	
Section J	_____	_____	
Section K	_____	_____	
Section L	_____	_____	
Section M	_____	_____	
Section N	_____	_____	

Additional notes:

Condition - Fuselage:

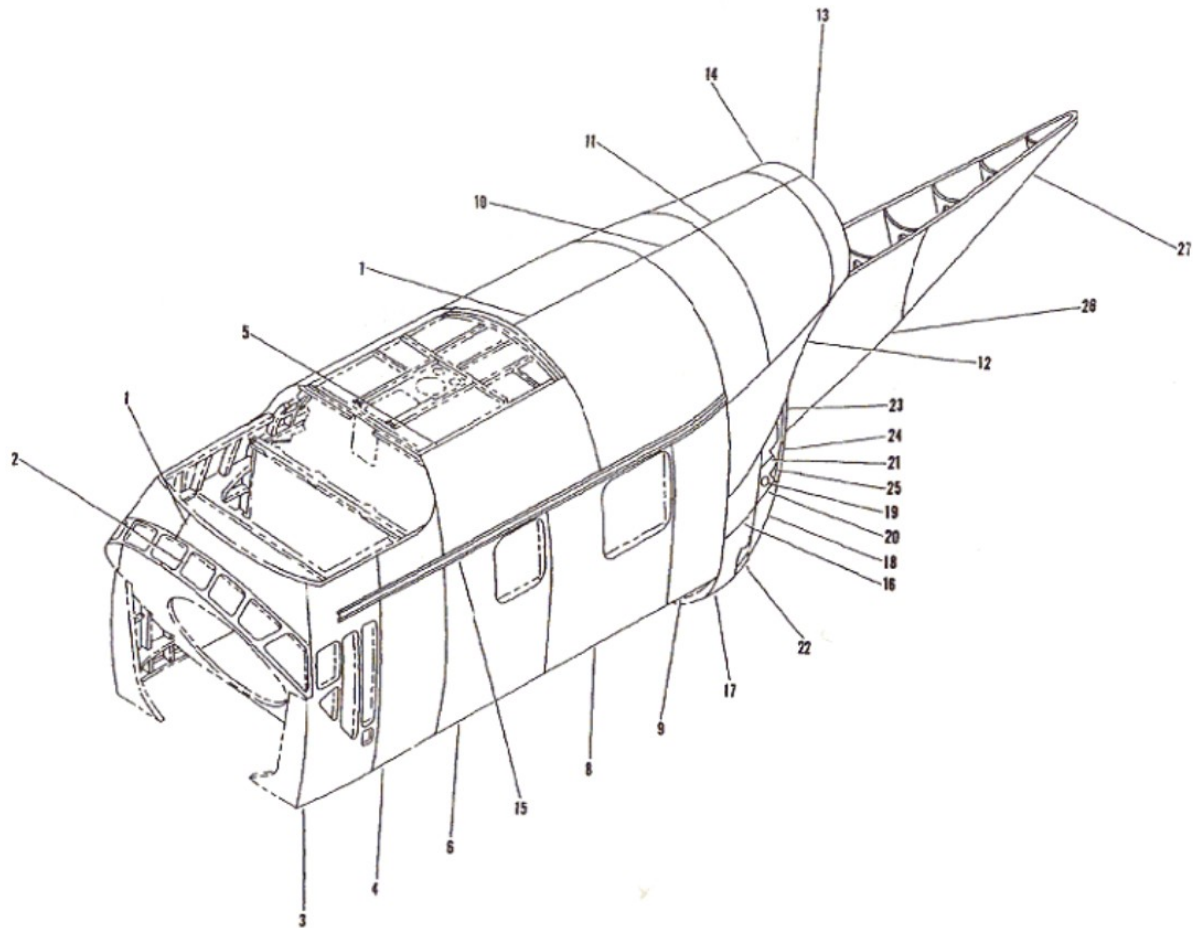


Figure 118. Fuselage and Fin Skin Installation

Additional Information:



Plate is needed for Series 2. Helicopter!

? a 2nd Helicopter?

Notes:

Condition - Fuselage:

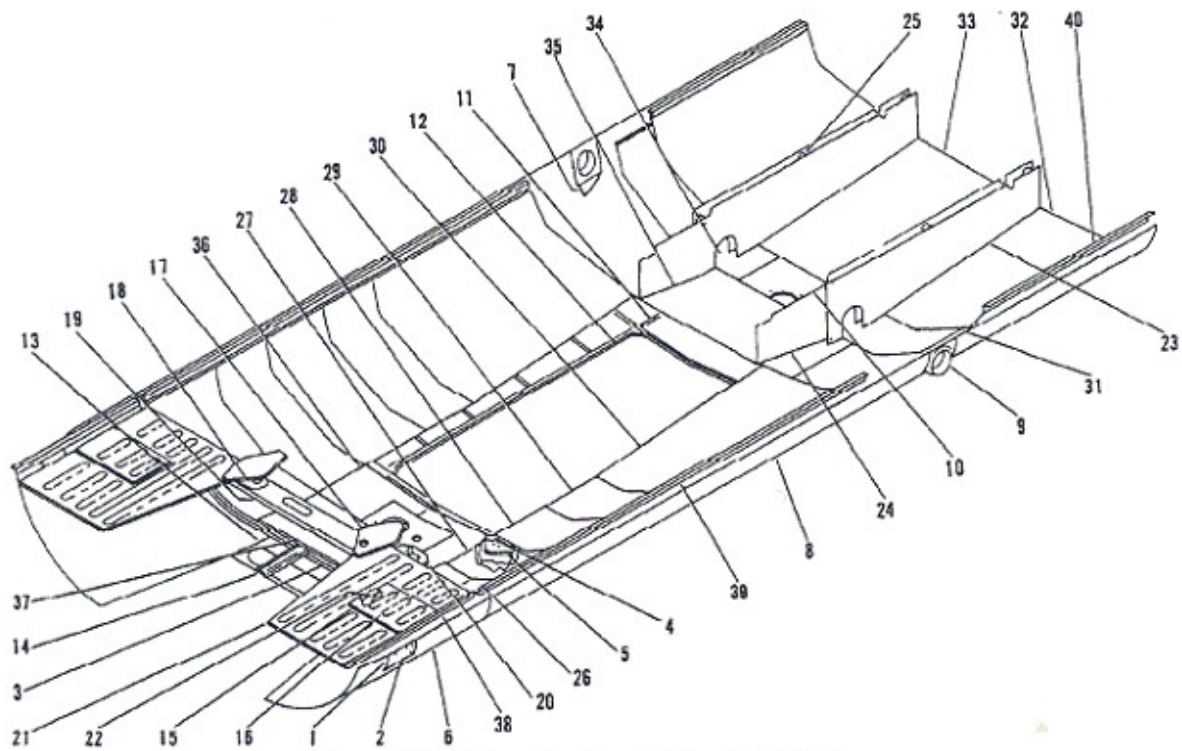


Figure 11D. Bottom Structure Plating Installation

Additional Information:

Check the panels and structure from the bottom - outside.



Condition - Fuselage:

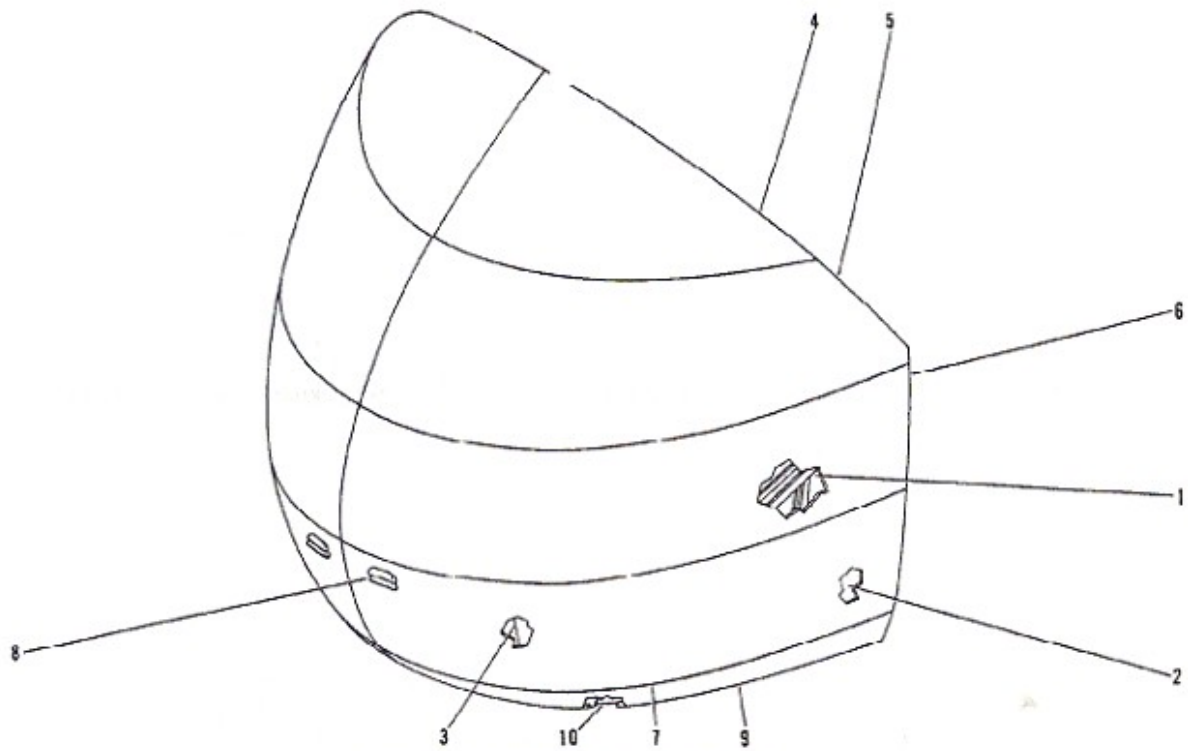


Figure 11F. Nose Door Skin Installation

Additional information:



check front bulb, in the bottom end of the nose door skin

Condition - Fuselage:

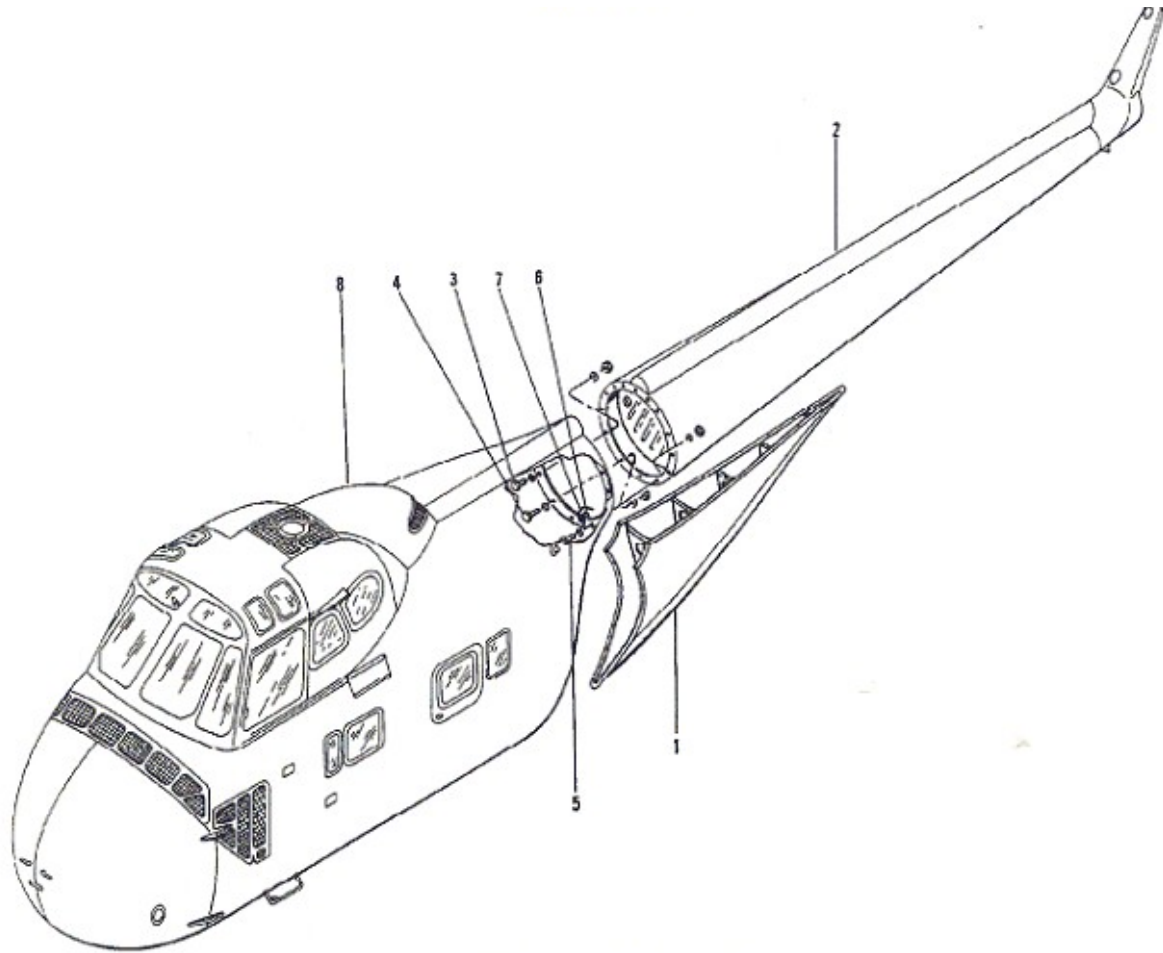


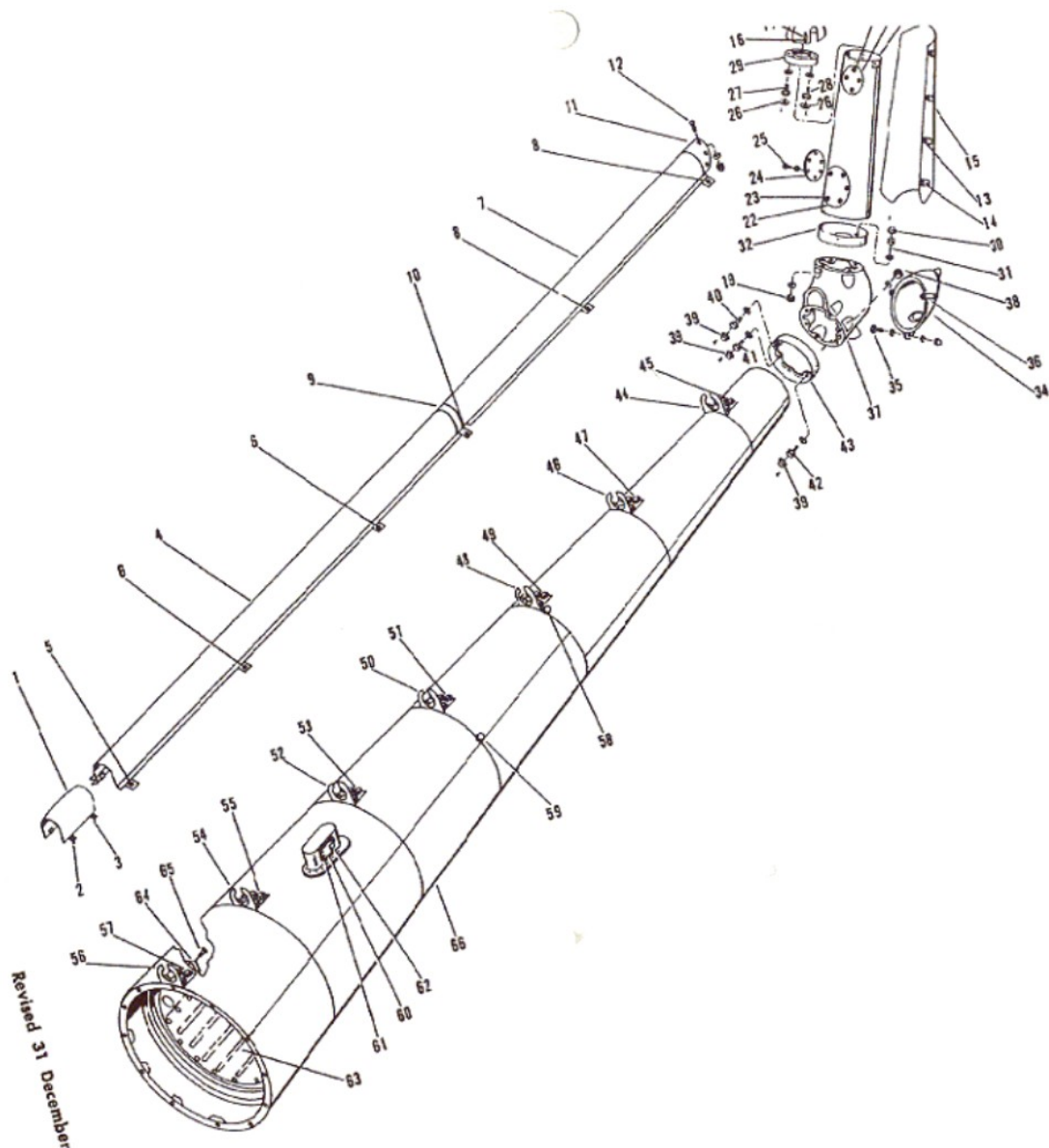
Figure 12. General Fuselage Assembly

Additional Information:

Check if the correct bottom fuselage and correct fin is installed



Condition - Fuselage:



Additional information:

- Check Tail Cone Section
 - Tail Rotor
 - Pylon
 - Fairing

Condition - Fuselage:

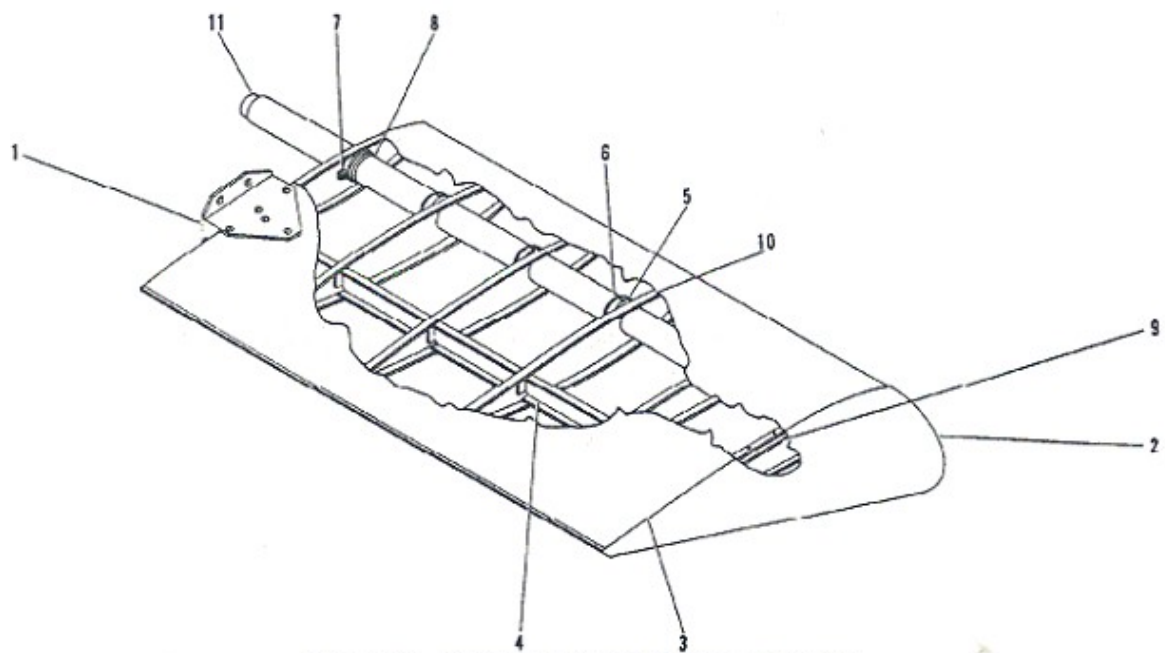


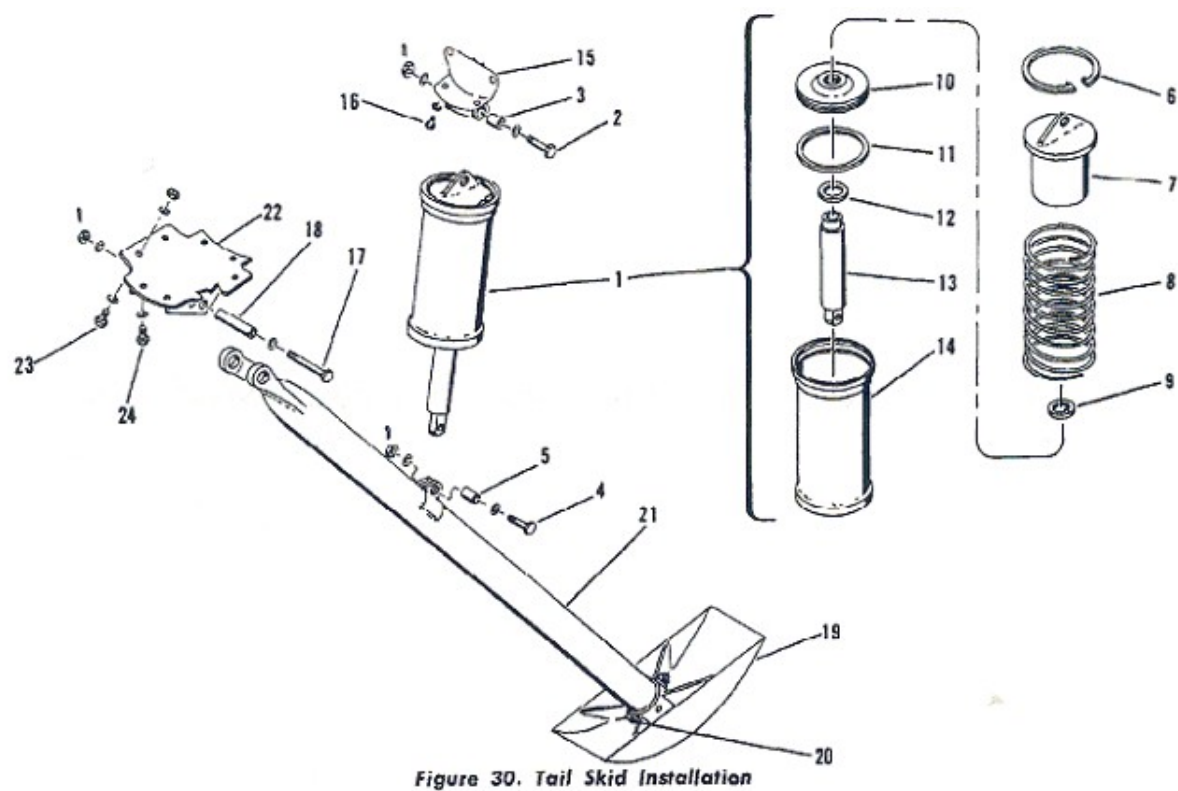
Figure 11J. Stabilizer Skin and Skeleton Assembly

Additional information:

Check:

- Stabilizer: movement and angle

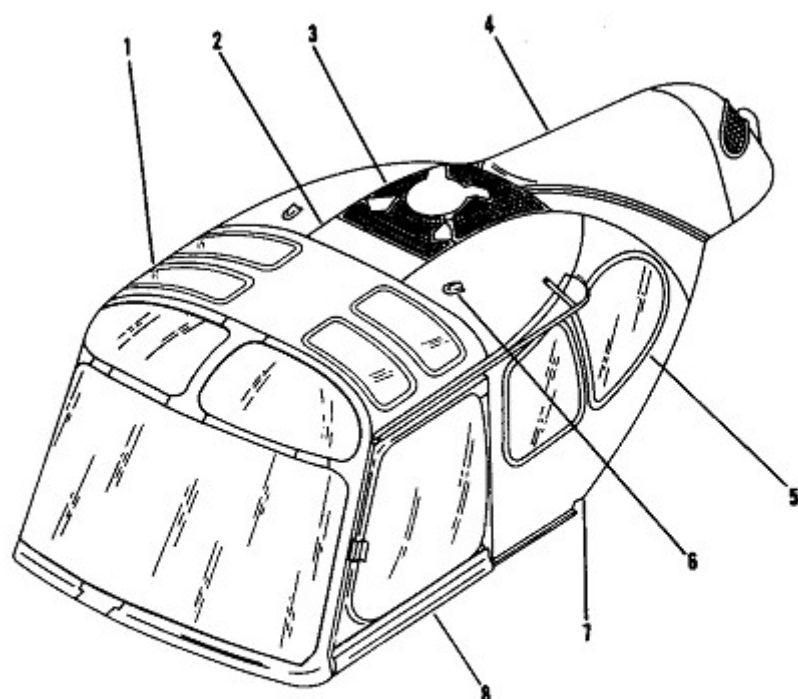
Condition -Fuselage:



Additional notes:

Check completion

Condition - Fuselage:



- 1. Windshield Section
- 2. Plate
- 3. Screened Panels
- 4. Rear Panel Section

- 5. Fixed Window
- 6. Cockpit Ventilator
- 7. Insulated Side Panel
- 8. Sliding Window

Completion of Index:			
1: complete j/n	2: complete j/n	3: complete j/n	4: complete j/n
5: complete j/n	6: complete j/n	7: complete j/n	8: complete j/n

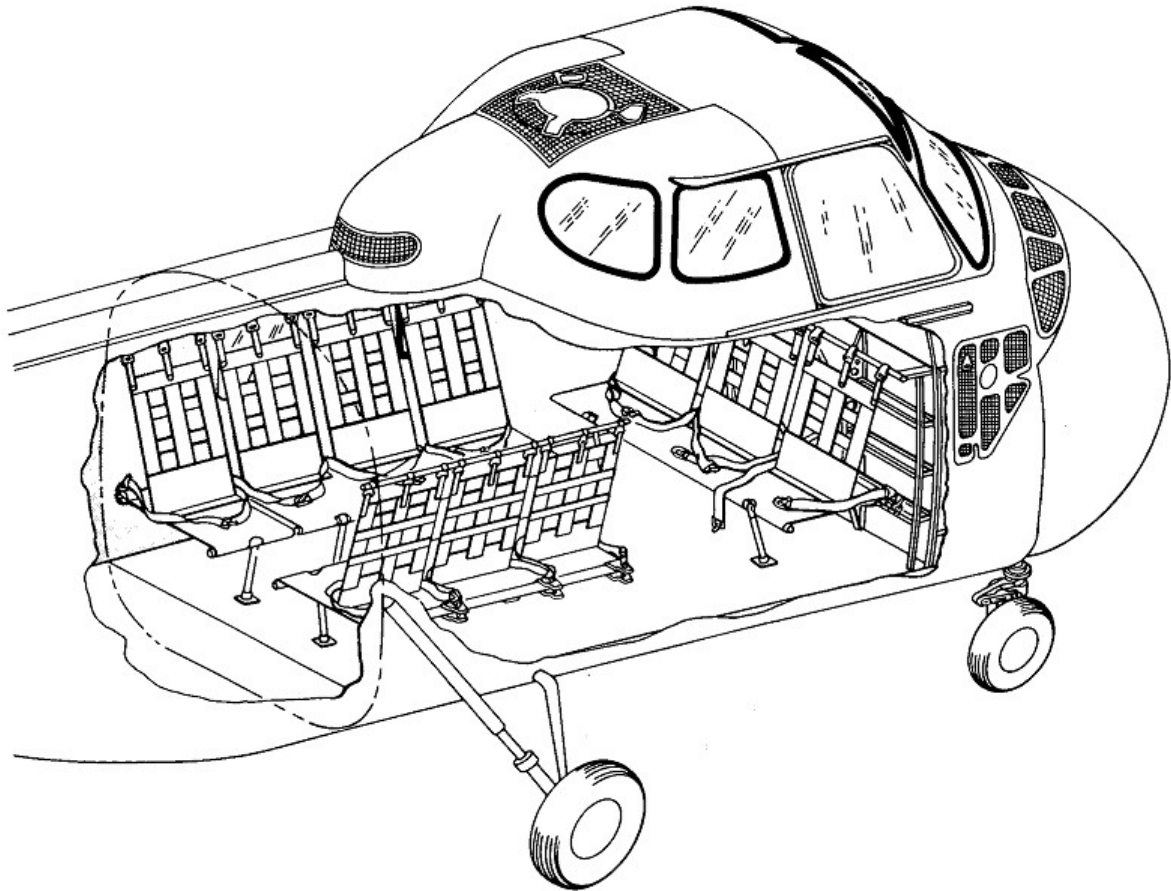
Outside check:

- Cockpit Windows
 - Release handles
 - Wipers
- Cockpit Gear Box Panels
 - 4 off (2 inner and 2 outer)

Inside check:

- Cockpit Seats
 - Safety Seat belts
 - Cushions
 - Shoulder harnesses

Condition - Cabin:



- Cabin
 - Cargo Door
 - Safety Straps
 - Cabin Windows
 - Cabin Emergency Hatches
 - Cabin Bottom Fairing
 - Cabin Flooring
 - Troop Seats

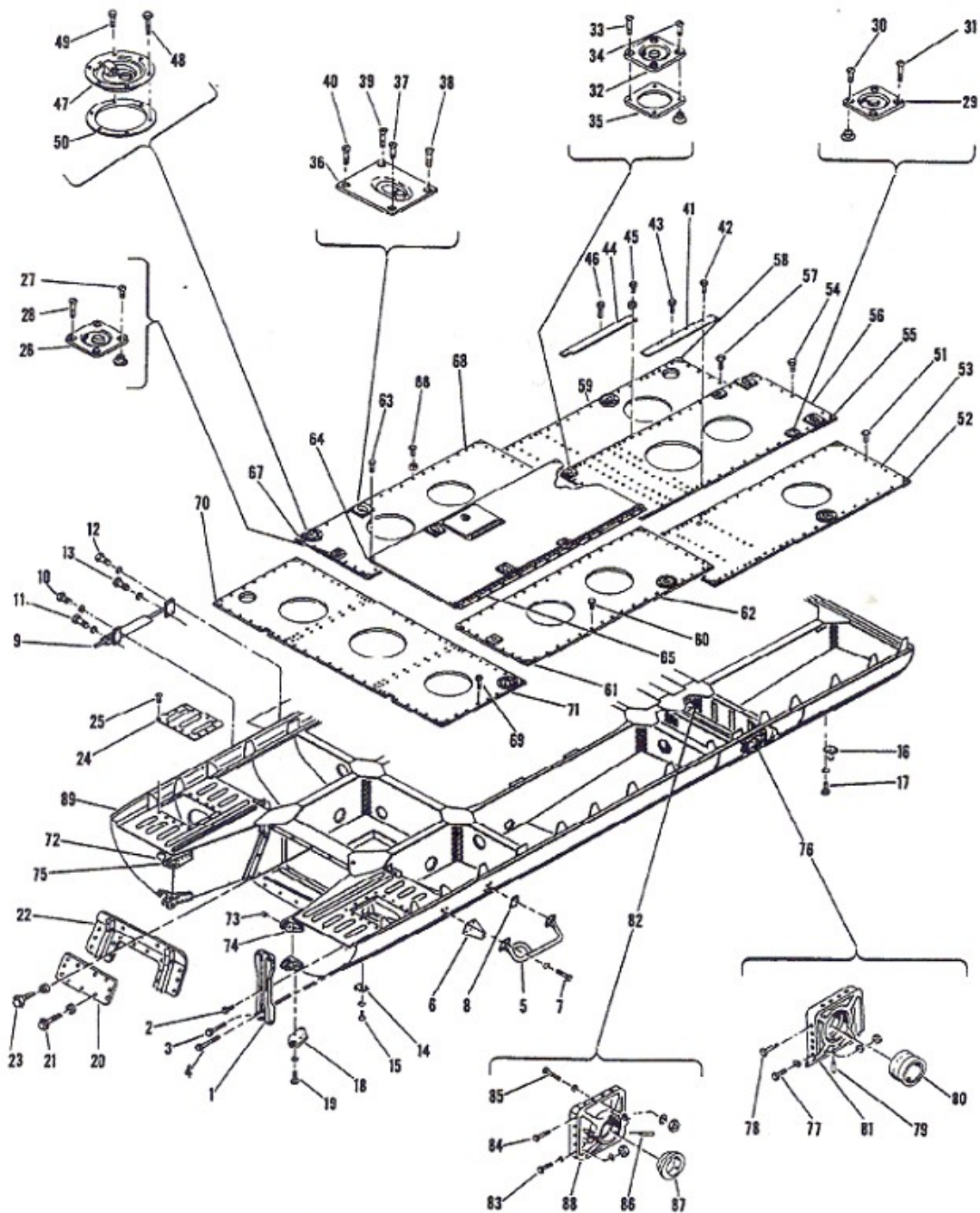
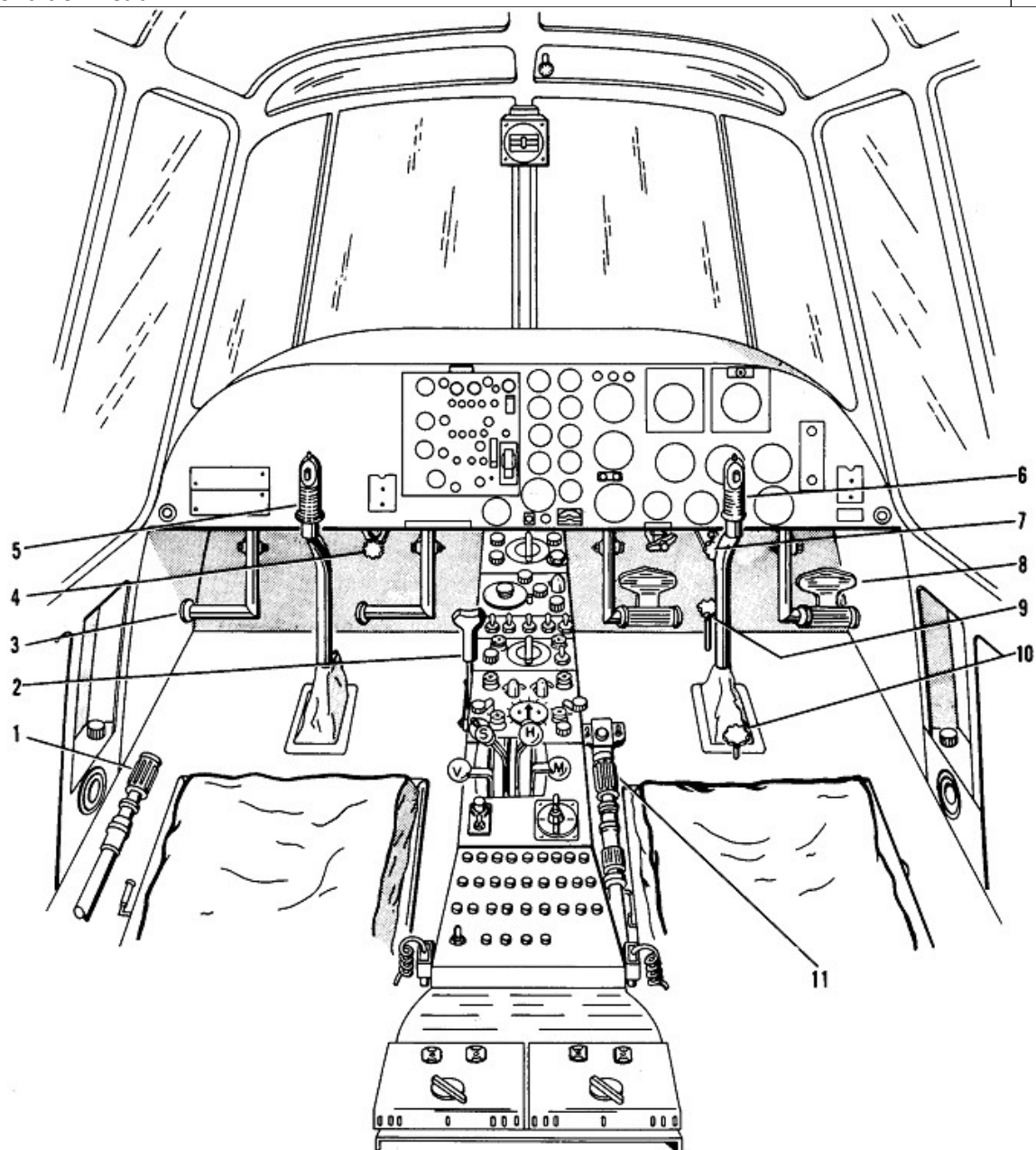
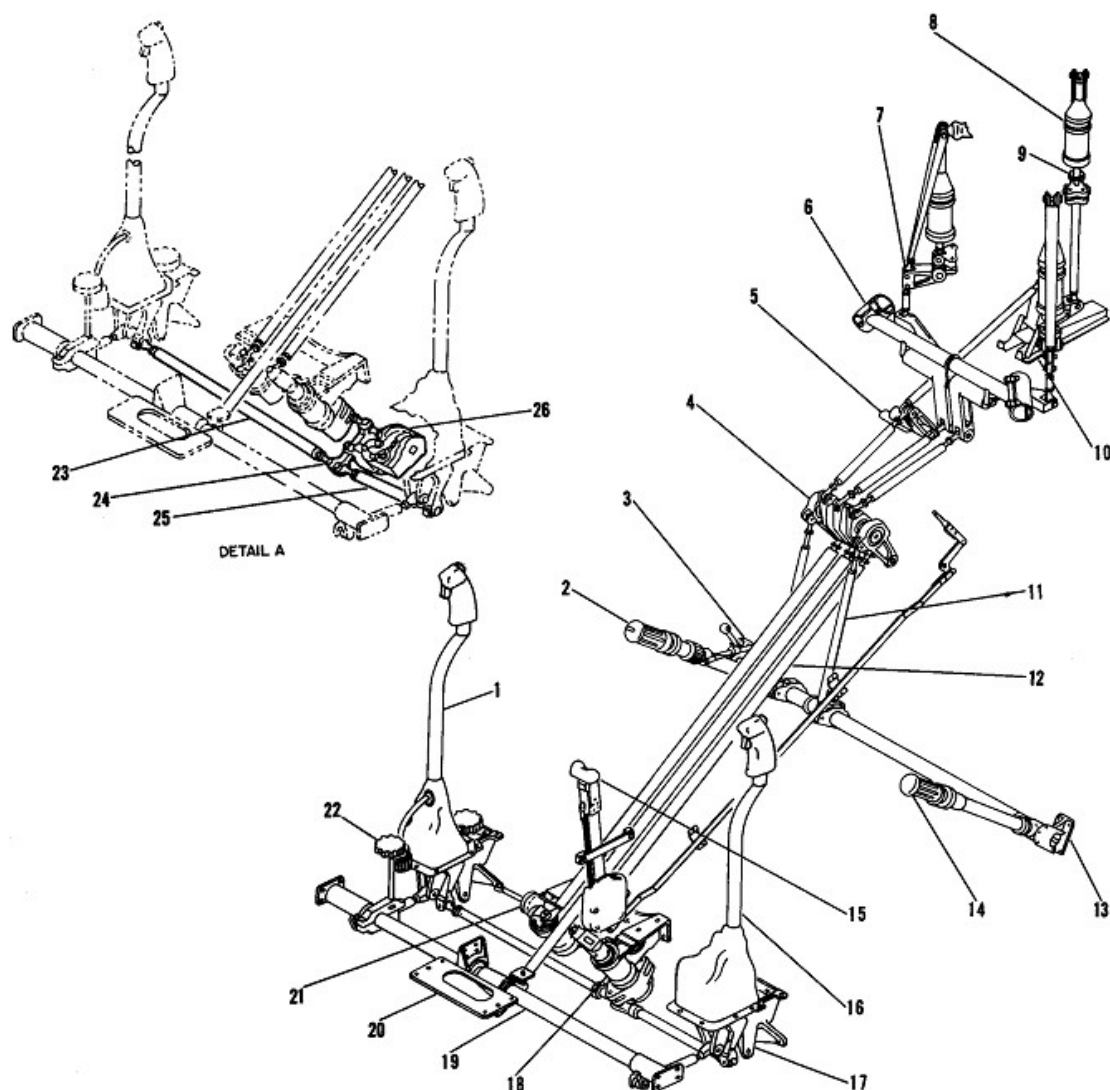


Figure 21. Bottom Structure Assembly



1. Observer's Main Pitch Control
2. Main Rotor Brake
3. Observer's Tail Rotor Control Pedals
4. Pedal Adjustment Knob
5. Observer's Directional Control Stick
6. Pilot's Directional Control Stick
7. Pedal Adjustment Knob

8. Pilot's Tail Rotor Control Pedals
9. Directional Control Stick Friction Adjustment Knob (Fore-and-Aft)
10. Directional Control Stick Friction Adjustment Knob (Lateral)
11. Pilot's Main Pitch Control



- 1. Pilot's Directional Control Stick
- 2. Pilot's Main Pitch Control
- 3. Lock Assembly
- 4. Mixing Unit
- 5. Bell Crank
- 6. Clamps
- 7. Lever Assembly
- 8. Servo Unit
- 9. Lever Assembly

- 10. Bell Crank
- 11. Pitch Control Tubes
- 12. Tube Assembly
- 13. Support Assembly
- 14. Observer's Main Pitch Control
- 15. Rotor Brake Handle
- 16. Observer's Directional Control Stick
- 17. Housing and Yoke Assembly
- 18. Torque Shaft and Support

- 19. Torque Tube Assembly
- 20. Support and Stop
- 21. Auxiliary Servo (Part No. S14-40-1022)
- 22. Friction Block Installation
- 23. Tube Assembly
- 24. Link
- 25. Tube Assembly
- 26. Auxiliary Servo (Part No. SKP-935)

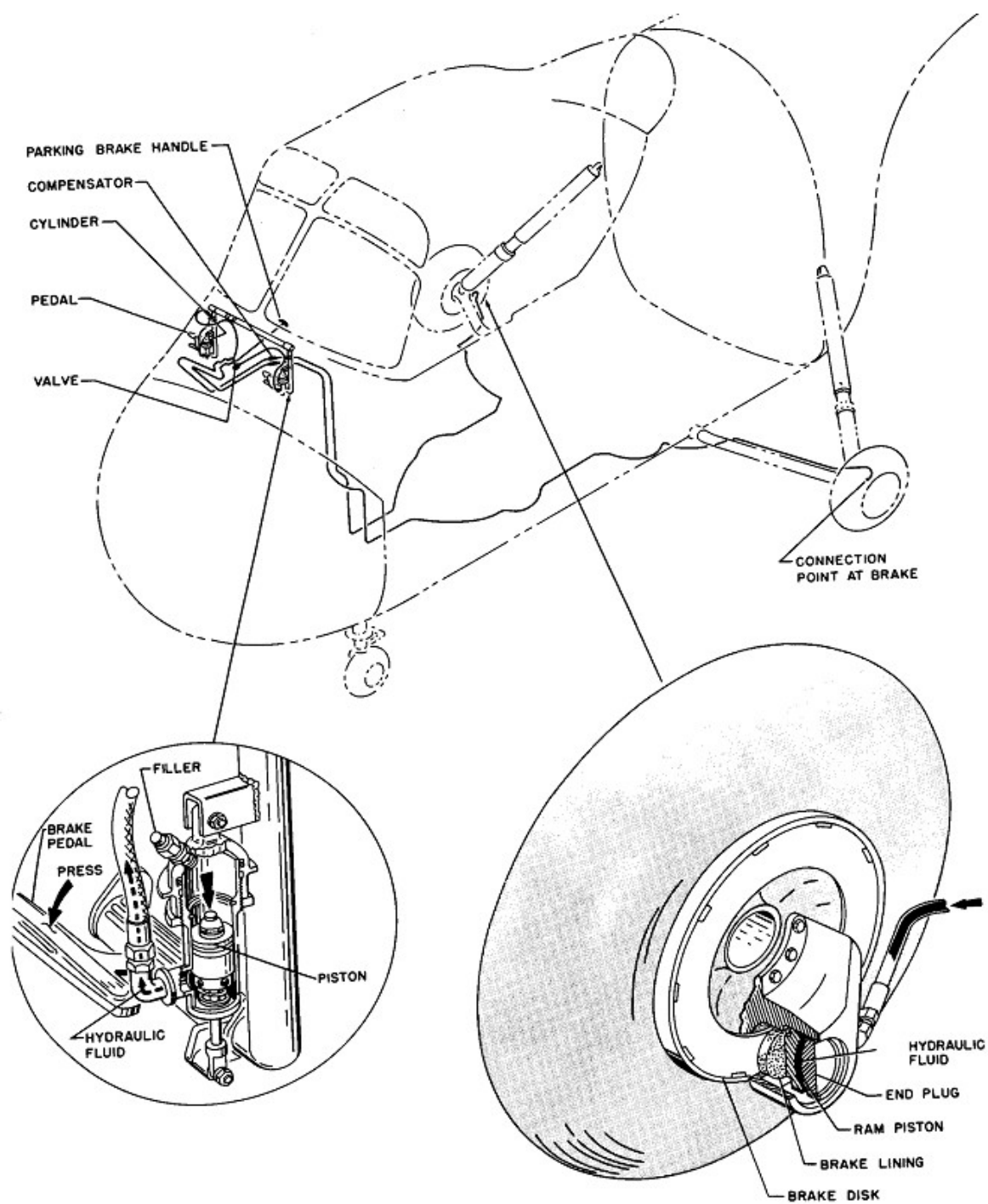


Figure 2-32. Wheel Brake System

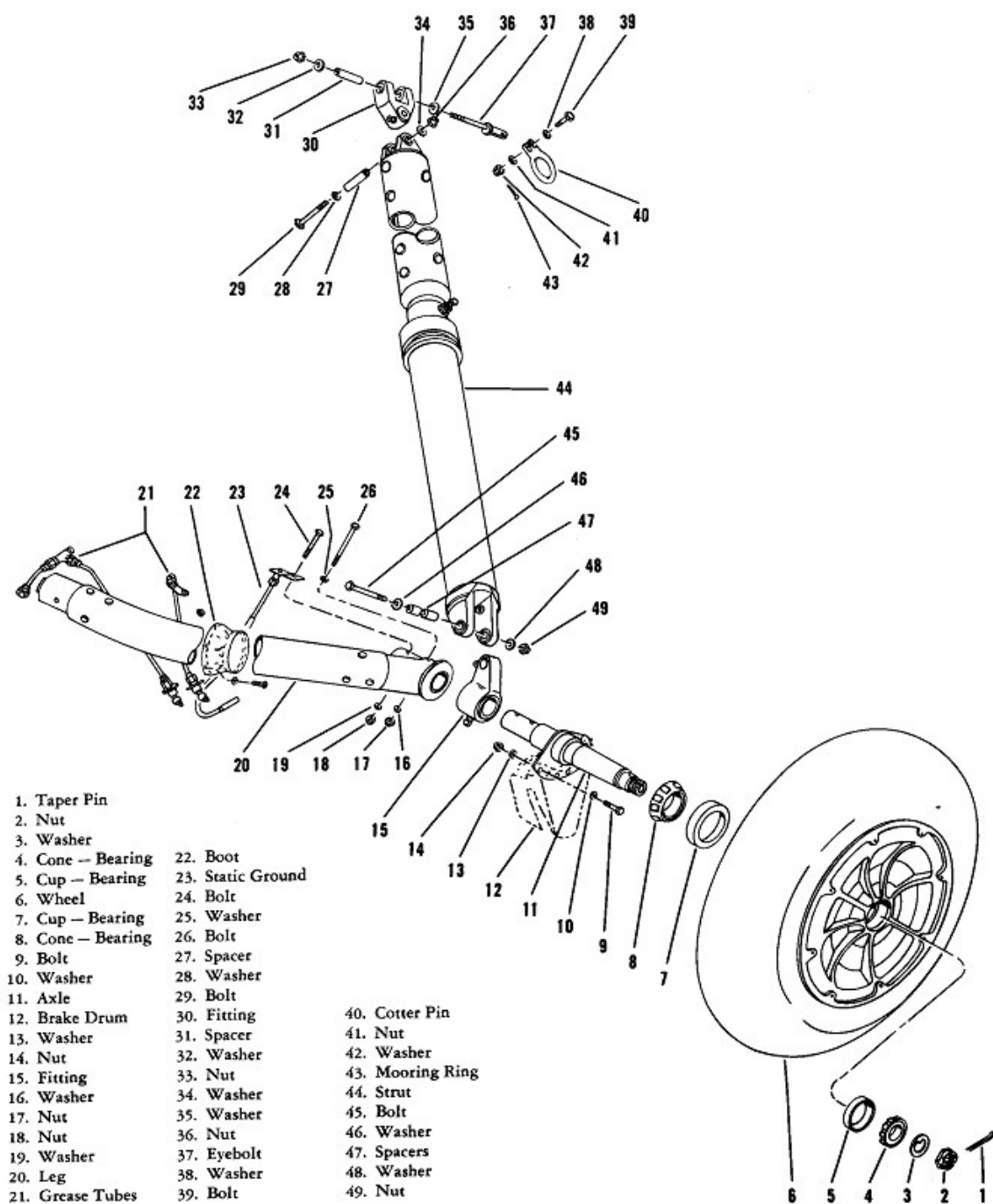


Figure 2—29. Main Landing Gear

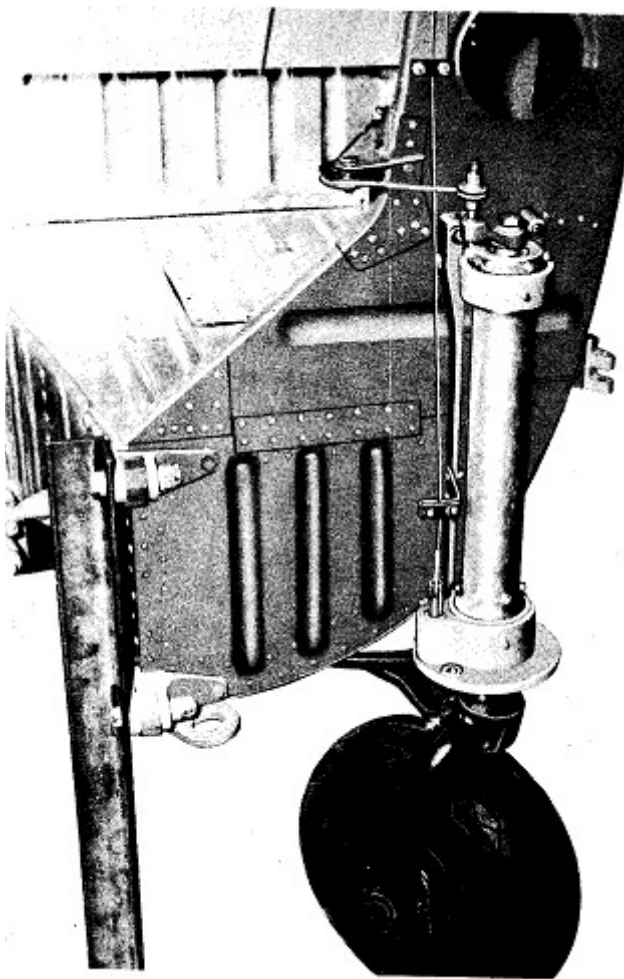
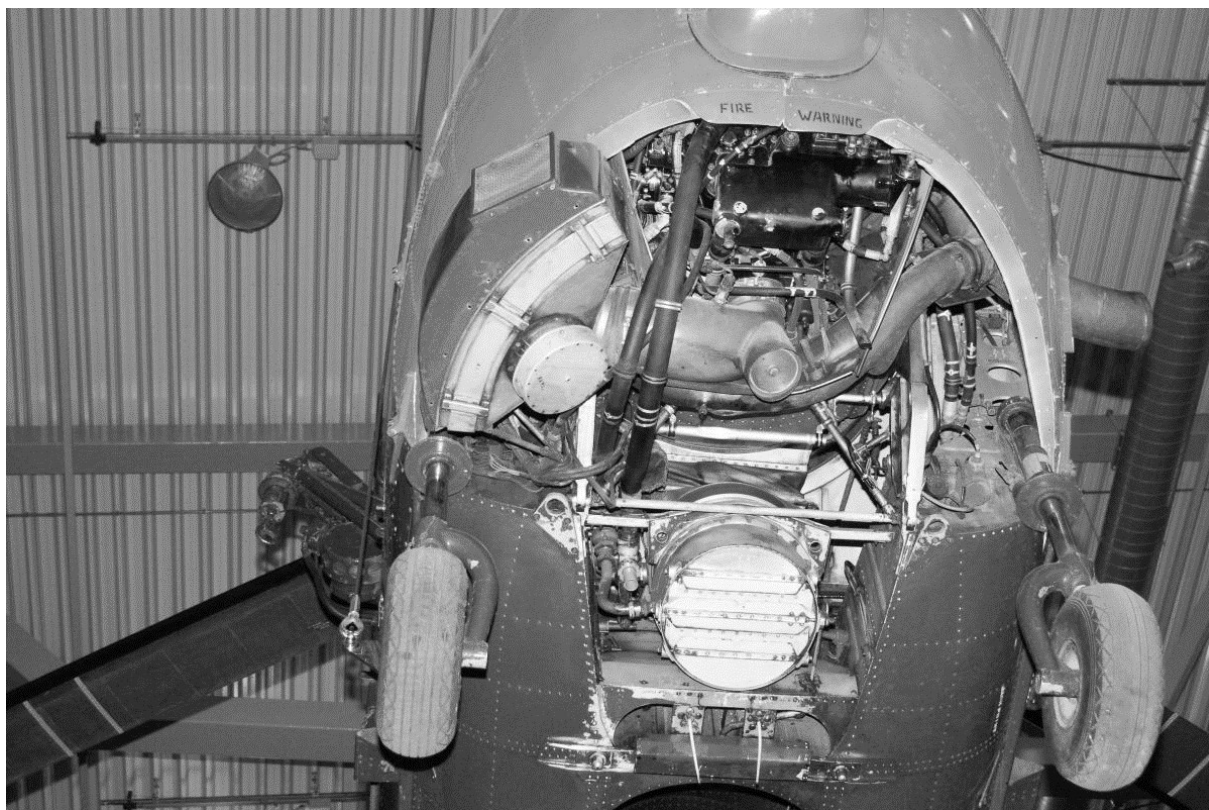


Figure 2-33. Nose Landing Gear Installed



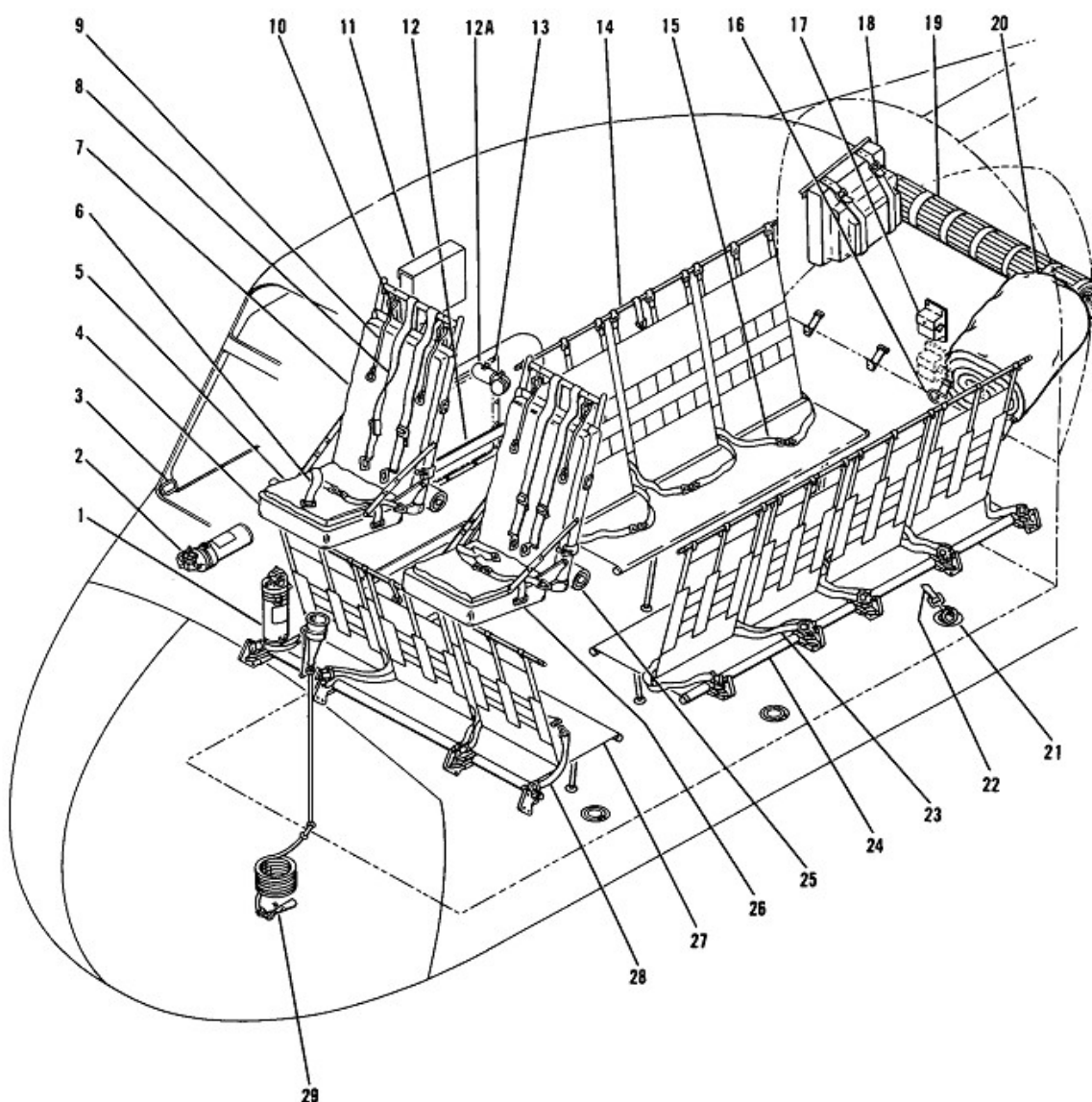
- Corrosion

Remarks:

- Fuselage Equipment
 - Seat and back cushions
 - Relief tube and horn
 - Map case and flight report holder
 - First aid kit
 - Protective covers
 - Flashlight
 - Blind flying panels
 - Anti-glare curtain
 - Black-out curtain
 - Ash tray
 - Cabin and cockpit fire extinguishers
 - Baggage net
 - Cargo tie down ring

See next side

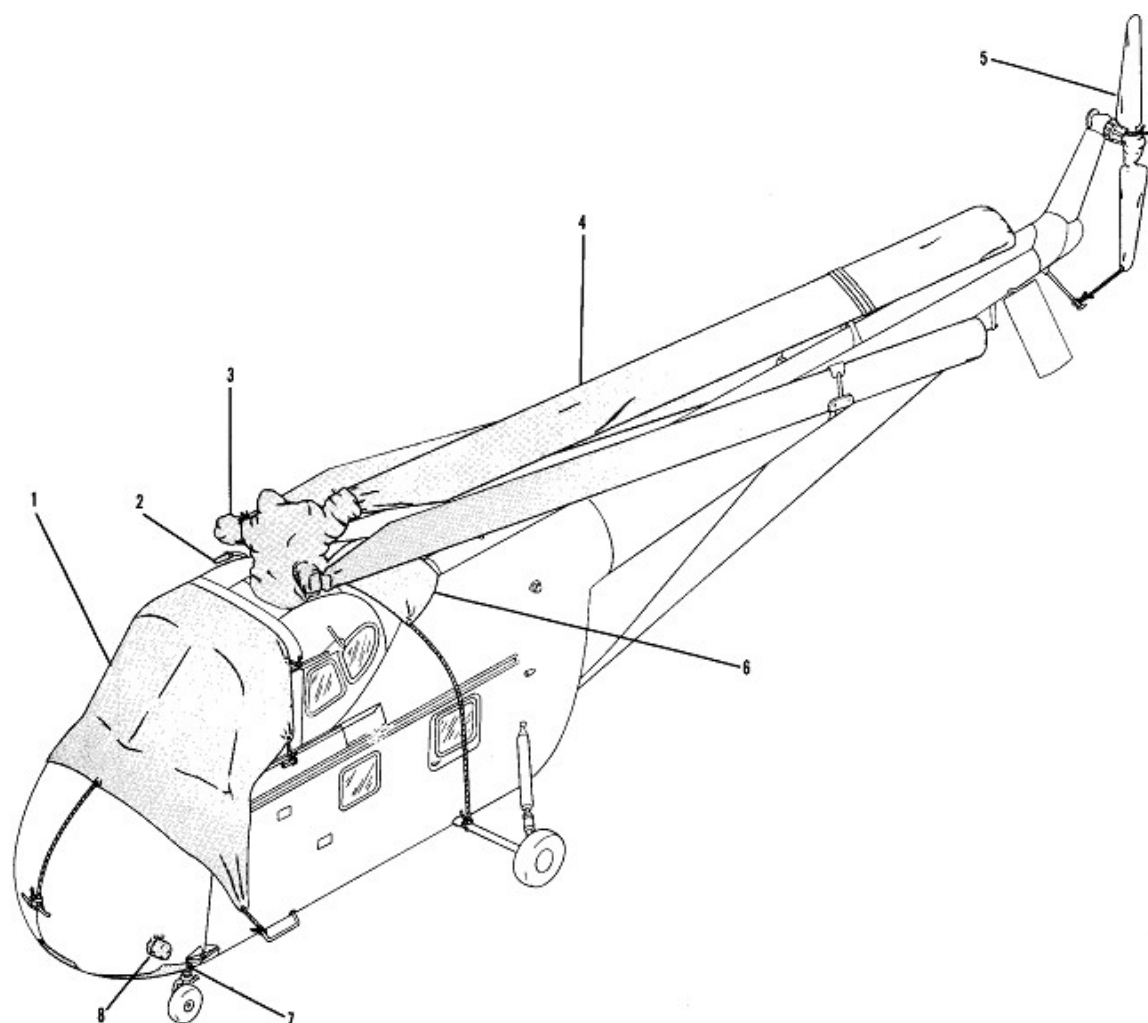
Condition - Equipment:



1. Fire Extinguisher (Cabin)
2. Fire Extinguisher (Cockpit)
3. Ash Tray
4. Pilot's Seat
5. Seat Bottom Cushion
6. Safety Belt
7. Back Cushion
8. Shoulder Harness
9. Shoulder Harness Stowage Straps
10. Seat Adjustment Cable
11. Map Case and Flight Report Holder

12. Attendant's Safety Straps
- 12A. Flashlight Installation
13. Black-Out Curtains
14. Troop Seat (R.H.)
15. Troop Seat Safety Belt
16. Ash Tray
17. First Aid Kit
18. Baggage Net
19. Protective Covers (Stowed in Baggage Compartment)

20. Blind Flying Panels (Stowed in Baggage Compartment)
21. Cargo Tie-Down Ring
22. Cargo Tie-Down Belt
23. Troop Seat Safety Belt
24. Troop Seat (L.H.)
25. Anti-Glare Curtain
26. Observers' Seat
27. Troop Seat (Forward)
28. Troop Seat Safety Belt
29. Relief Tube



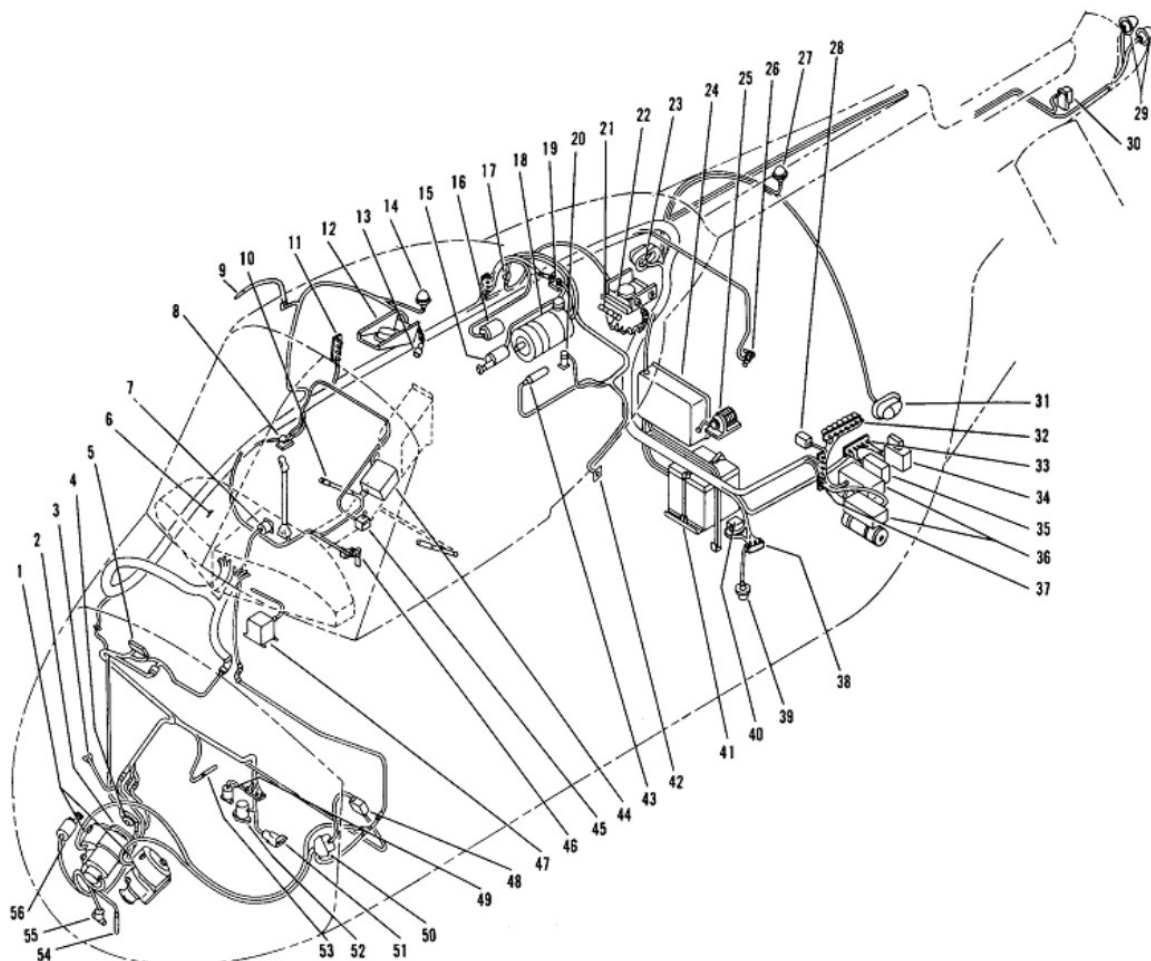


Figure 7-1. Electrical Equipment Location Diagram

- | | | |
|--|--|---|
| 1. Magneto | 20. Servo Shut-off Valve | 39. Fuselage Light |
| 2. Starter | 21. Cabin Dome Light | 40. Relays — Landing Lights |
| 3. Cylinder Temperature Thermocouple | 22. Green Position Light | 41. Battery |
| 4. Starter Relay | 23. Relay Junction Box | 42. Gear Box Light Switch |
| 5. Resistors | 24. Voltage Regulator | 43. Gear Box Filler Gage Light |
| 6. Instrument and Switch Panel | 25. Electrical Receptacle | 44. Circuit Breaker and Fuse Panel |
| 7. Ignition Switch | 26. Fuselage Light | 45. Stabilizer Actuator Switch (Disconnected) |
| 8. Power Cable Disconnect | 27. Relay-Inverter Changeover | 46. Electrical Receptacle |
| 9. Pitot Tube Heater | 28. Tail Position Light | 47. Position and Fuselage Light Flasher (Provision) |
| 10. Starter Switch | 29. Stabilizer Actuator (Disconnected) | 48. Relay Junction Box No. 1 |
| 11. Terminal Panel | 30. Red Position Light | 49. Oil Dilution Solenoid |
| 12. Cockpit Dome Light | 31. Fuse Extractor Panel | 50. Induction Vibrator |
| 13. Cockpit Spotlight | 32. Terminal Panel | 51. Fuel Shut-off Valve |
| 14. Fuselage Light | 33. Bridge Unit and Amplifier | 52. Fuel Booster Pump |
| 15. Rotor Tachometer-Generator | 34. Bridge Unit and Amplifier | 53. Oil Inlet Thermometer Bulb |
| 16. Transmission Oil Pressure Warning Unit | 35. Inverters | 54. Carburetor Mixture Thermometer Bulb |
| 17. Disconnect | 36. Terminal Panel | 55. Primer Solenoid |
| 18. Generator | 37. Terminal Panel | 56. Engine Tachometer-Generator |
| 19. Shunt | 38. Landing Lights | |

- Baggage Compartment
- Electrical and Radio Compartment

- Engine Compartment

Condition - Engine:	
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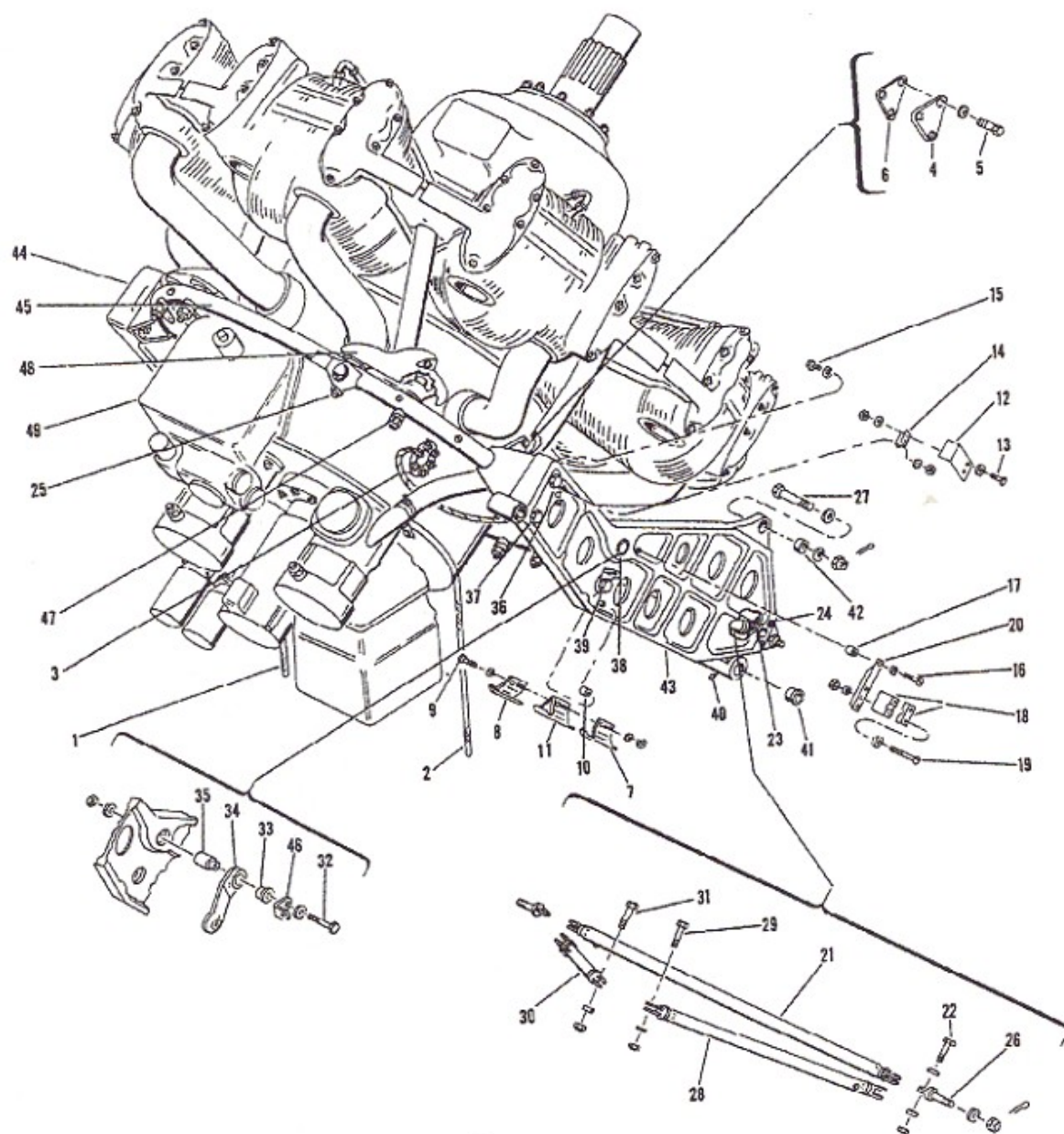


Figure 40. Engine Unit Installation

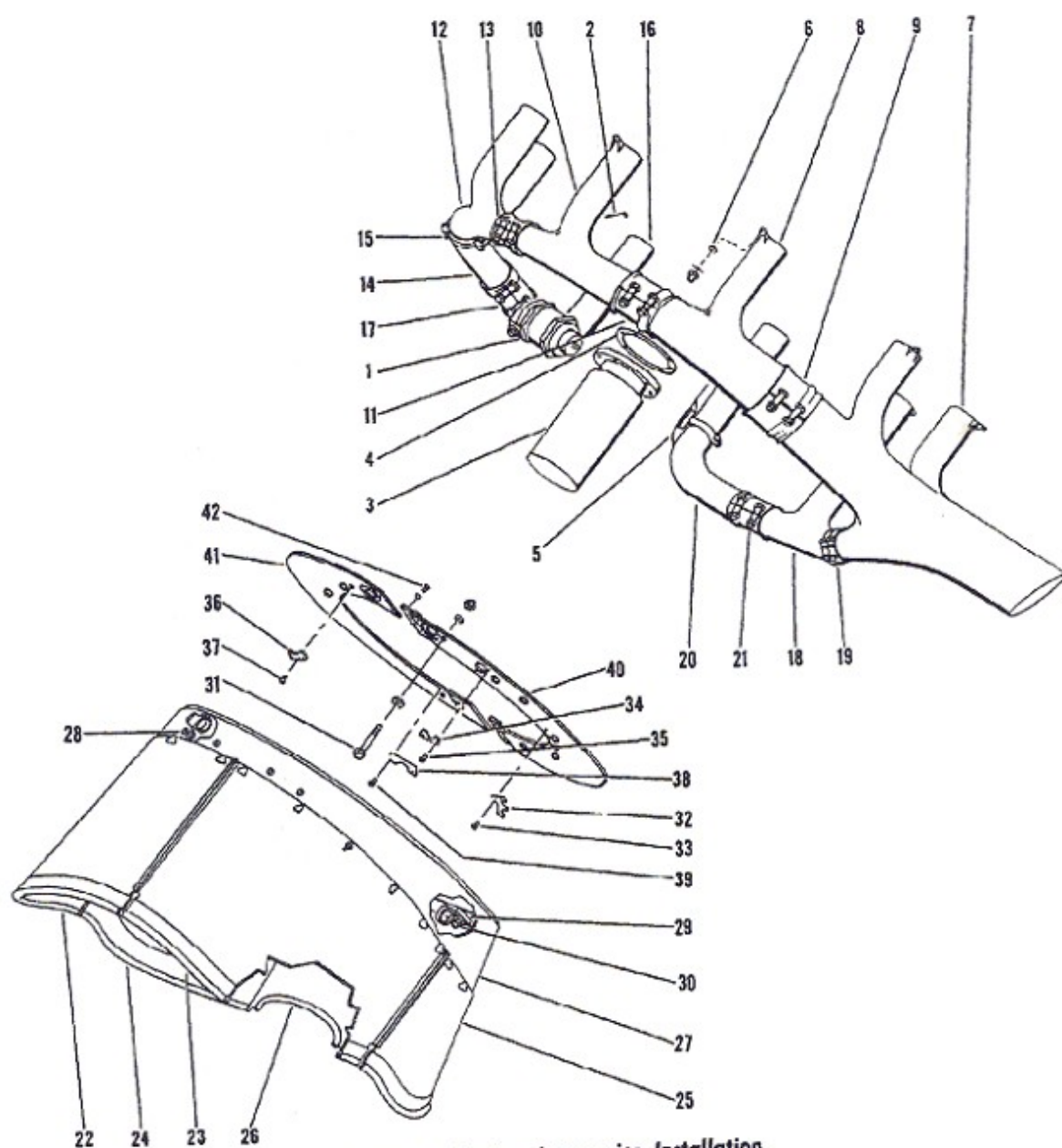
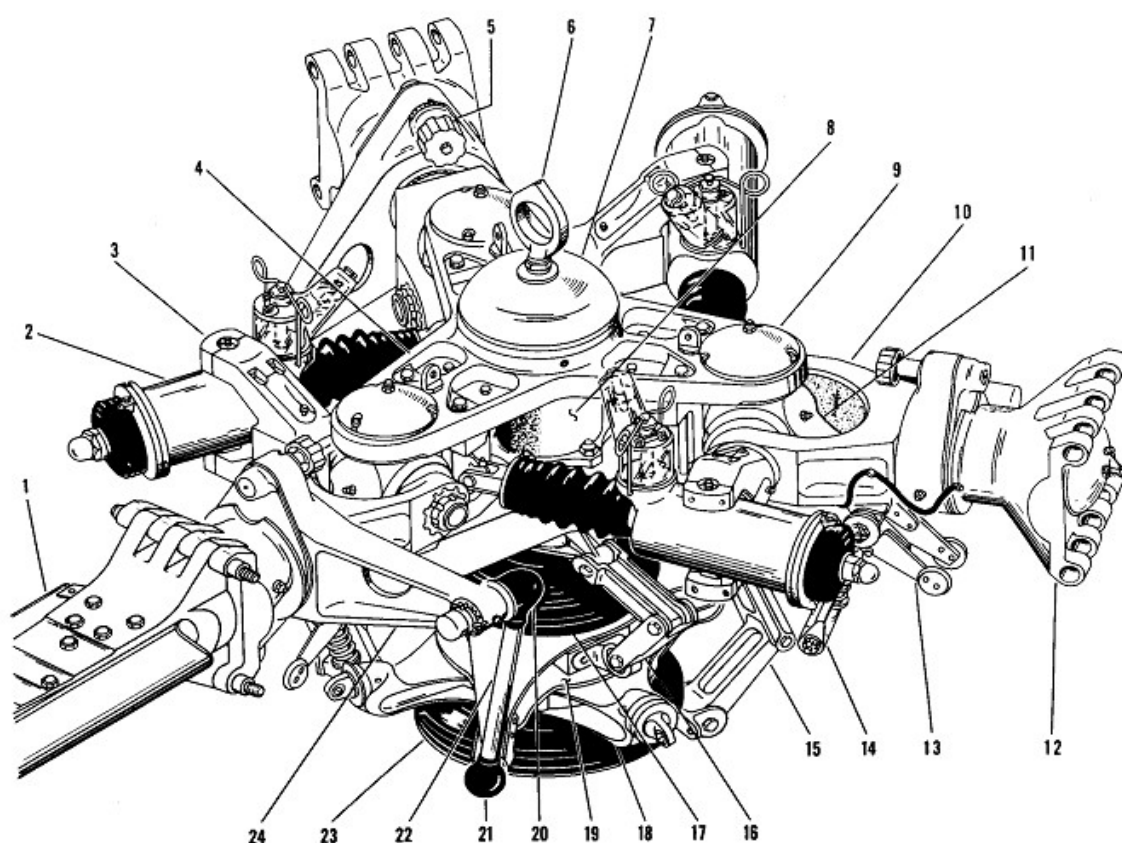
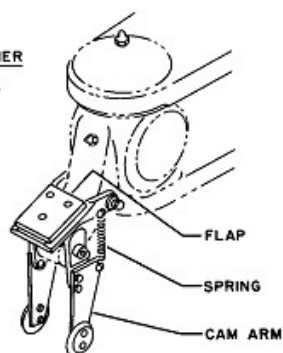


Figure 41. Engine Accessories Installation

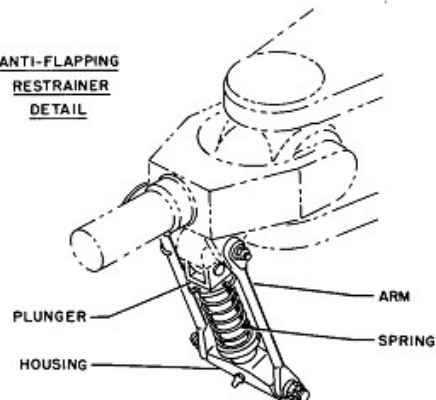
- Engine Access Doors
- Handles
- Hinges



**DROOP
RESTRAINER
DETAIL**



**ANTI-FLAPPING
RESTRAINER
DETAIL**



- | | | | | |
|---------------------|--------------------|-------------------------------|-----------------------|-------------------|
| 1. Main Rotor Blade | 6. Hoisting Eye | 11. Vertical Hinge Assemblies | 16. Rotating Scissors | 21. Boot |
| 2. Damper | 7. Cover | 12. Sleeve | 17. Boot | 22. Rod |
| 3. Damper Arm | 8. Hub | 13. Droop Restrainer | 18. Stationary Star | 23. Boot |
| 4. Hoisting Lug | 9. Upper Plate | 14. Anti-Flapping Restrainer | 19. Rotating Star | 24. Horn Assembly |
| 5. Lock | 10. Sleeve-Spindle | 15. Stationary Scissors | 20. Boot | |

Figure 3-4. Main Rotor Assembly

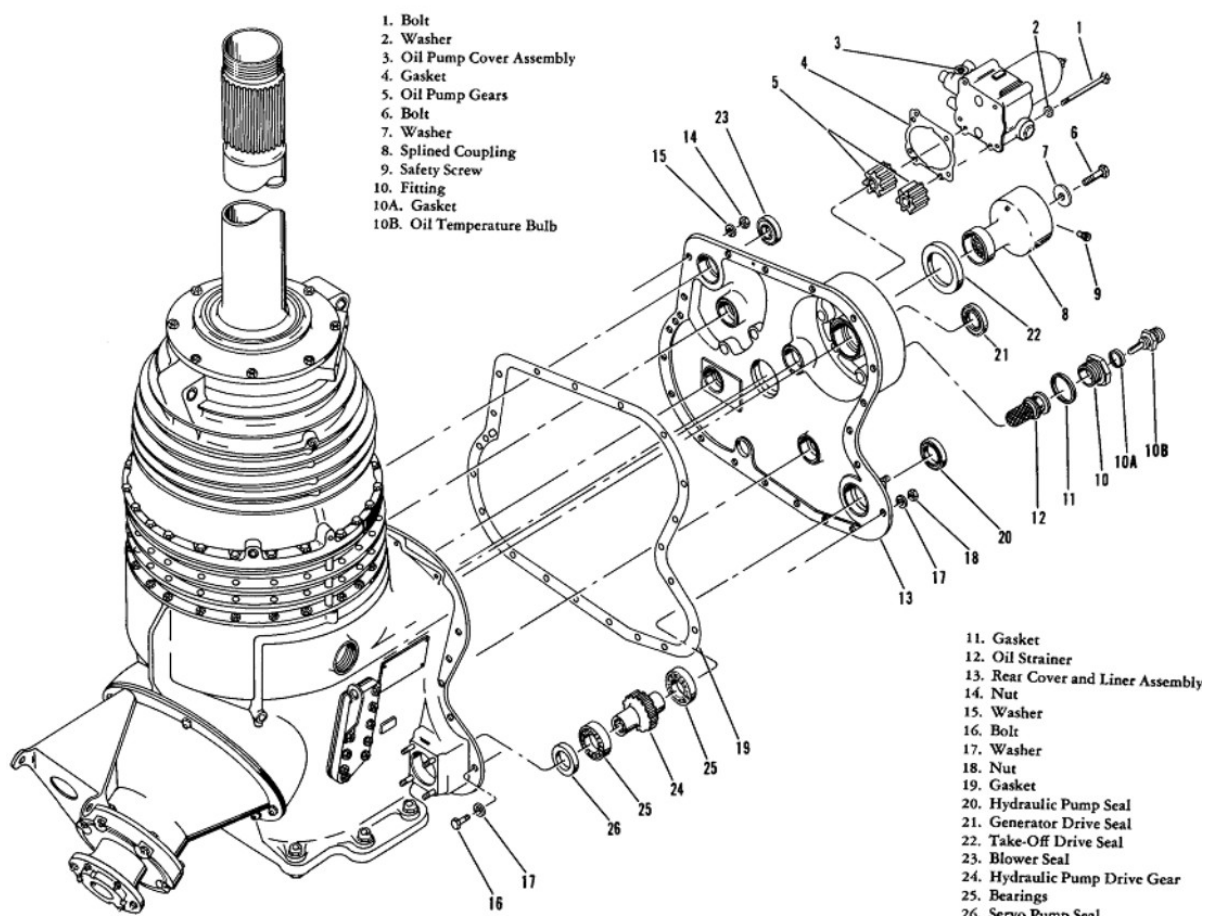


Figure 5-65. Rear Cover Disassembly

Condition – Rotor blades:

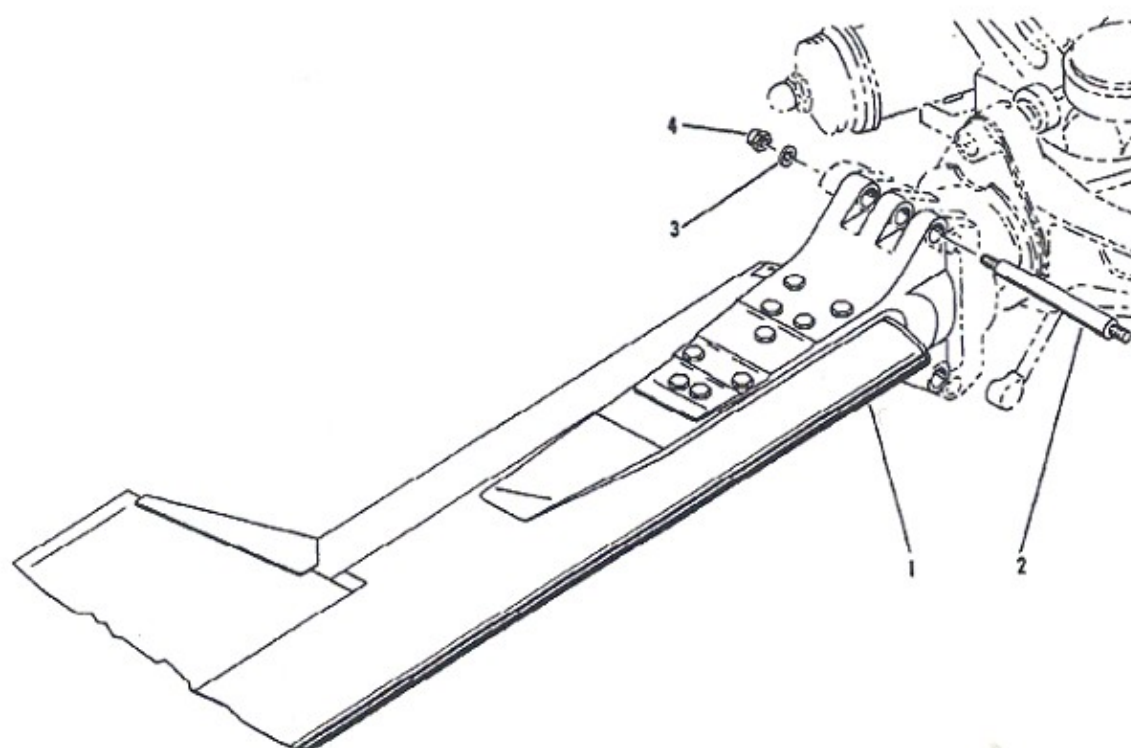


Figure 9. Main Rotor Blade Assembly

Condition – Rotor blades:

- Tail Rotor / Blades

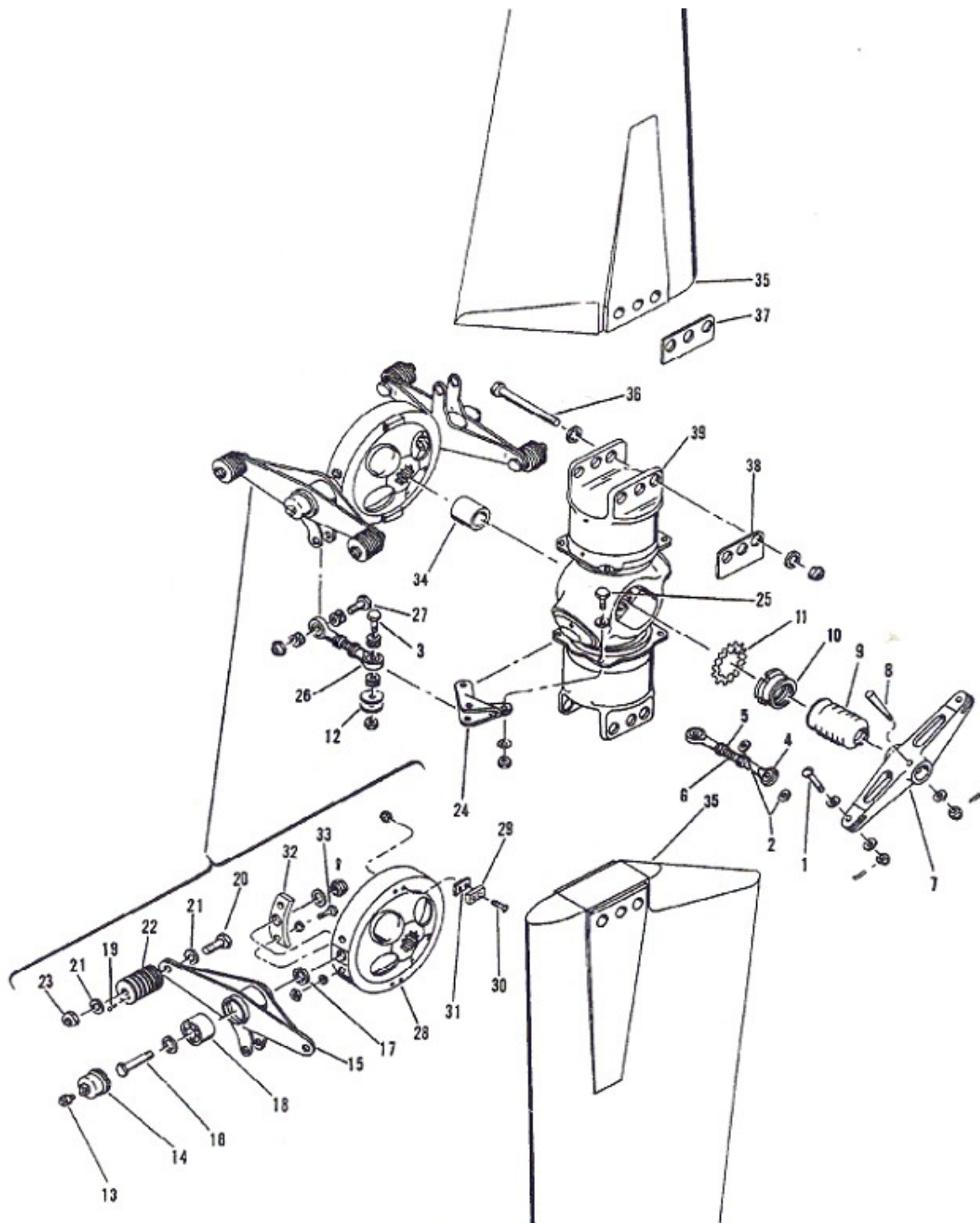


Figure 10. Tail Rotor Assembly

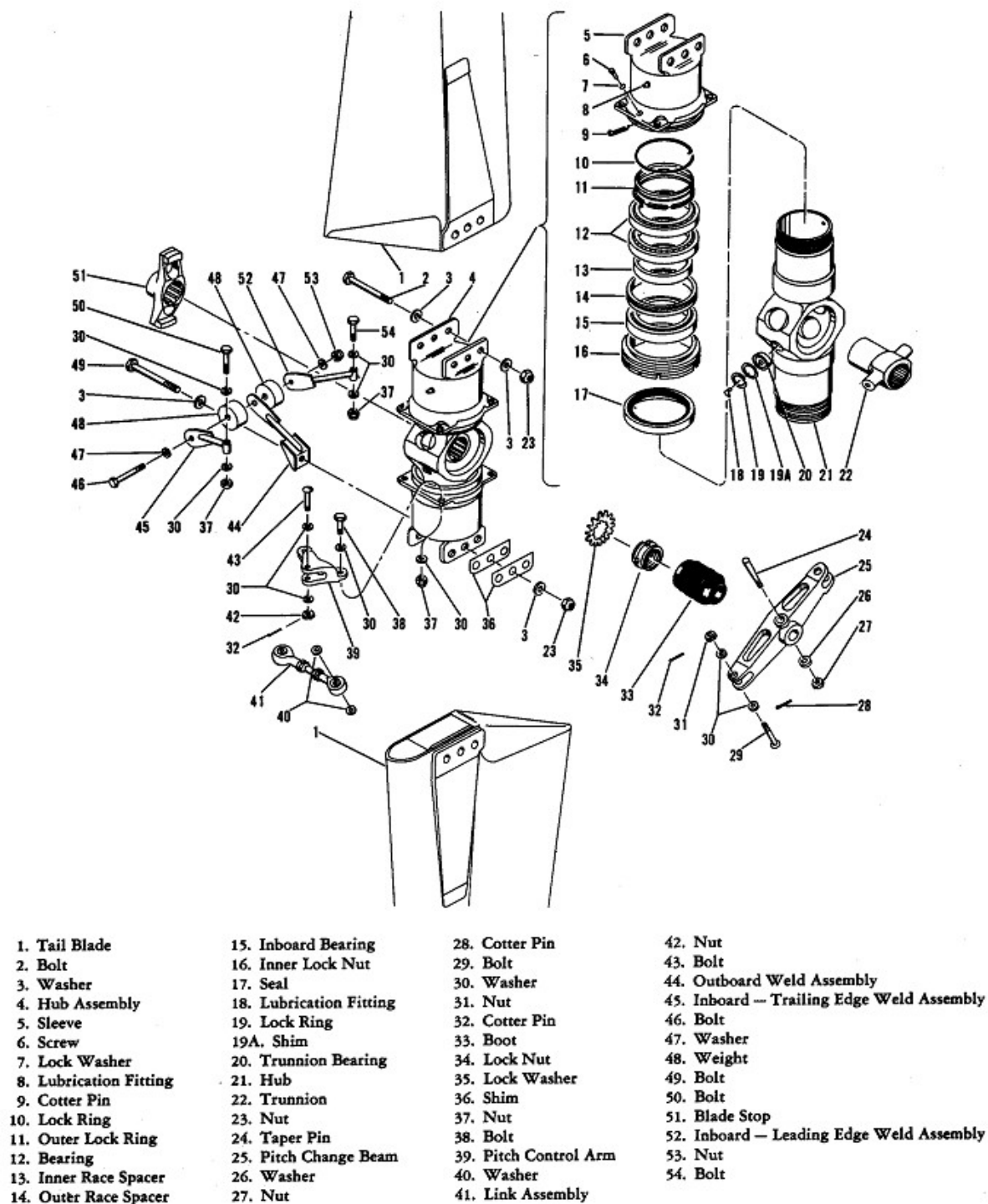
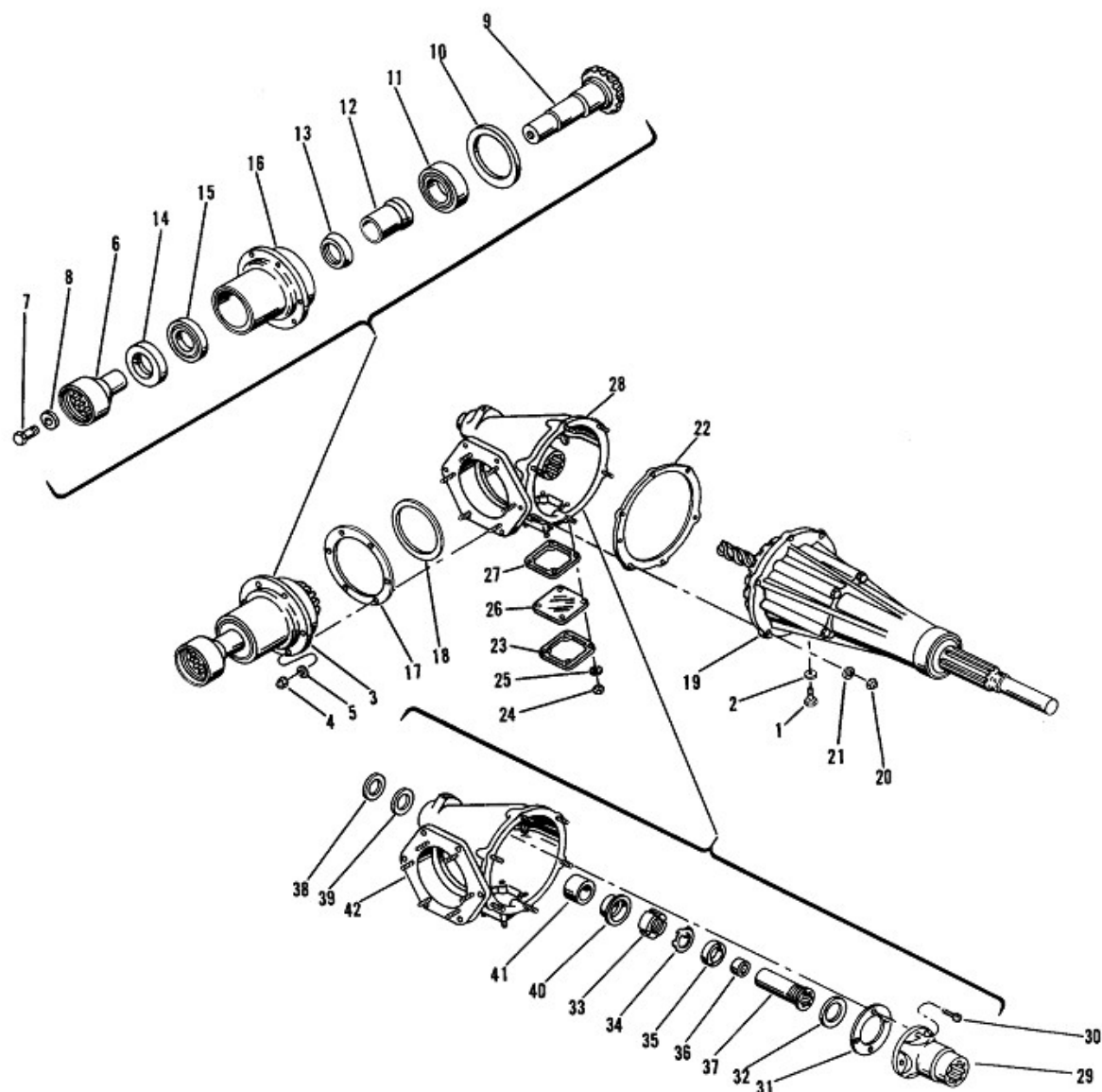


Figure 3-10. Tail Rotor Assembly Disassembled (104'')



- | | | | |
|---------------------------|-----------------------------|-----------------------------------|-----------------------|
| 1. Plug | 12. Spacer | 23. Frame | 33. Lock Nut |
| 2. Gasket | 13. Slinger | 24. Nut | 34. Lock Washer |
| 3. Input Housing Assembly | 14. Seal | 25. Washer | 35. Bearing |
| 4. Nut | 15. Bearing | 26. Window | 36. Air Vent Assembly |
| 5. Washer | 16. Housing Assembly | 27. Gasket | 37. Sleeve |
| 6. Coupling | 17. Shim | 28. Intermediate Housing Assembly | 38. Ring |
| 7. Bolt | 18. Shim | 29. Splined Guide | 39. Washer |
| 8. Washer | 19. Output Housing Assembly | 30. Screw | 40. Liner |
| 9. Pinion Gear | 20. Nut | 31. Shim | 41. Bushing |
| 10. Ring | 21. Washer | 32. Ring | 42. Housing |
| 11. Bearing | 22. Shim | | |

Figure 9-104. Tail Rotor Gear Box — Exploded View

Condition – Hoist:

- Hoist (Winch)

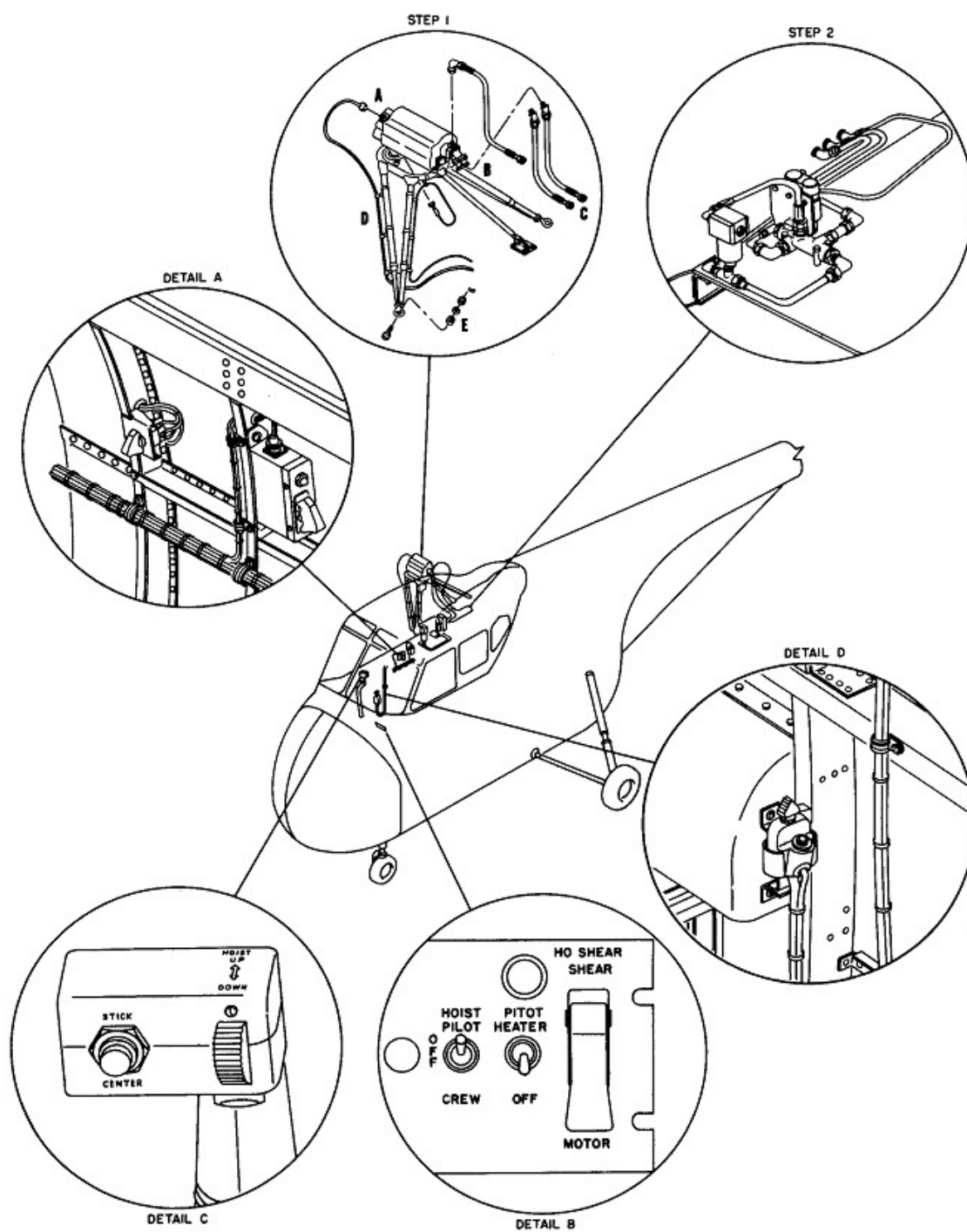


Figure 4-7B. Hoist System (600-Pound Hoist)

Condition – optical requirements and decals:	
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- Additional

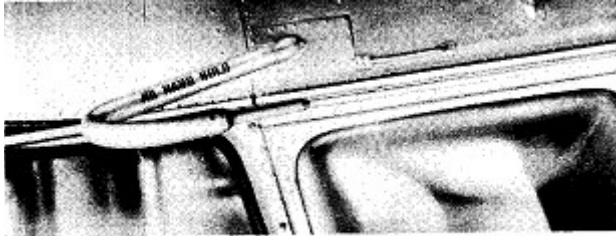


Figure 6-5. Pitot Tube Installed

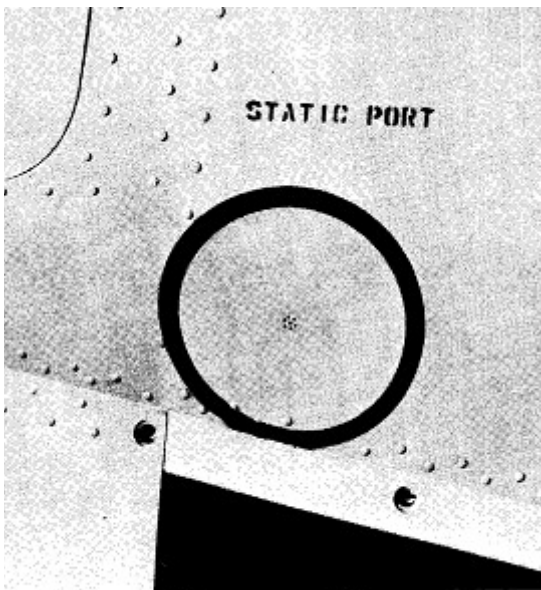


Figure 6-6. Static Port

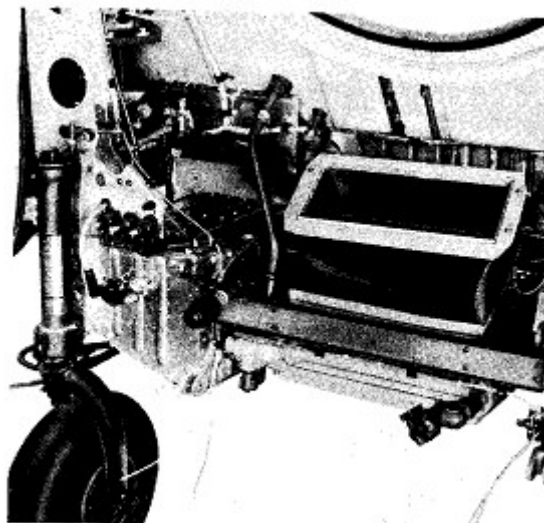


Figure 5-30. Engine Oil Cooler Installed —