TO: ALL HOLDERS OF COWL PANEL ASSEMBLY, LH OVERHAUL MANUAL, 71-13-11

REVISION NO. 3, DATED NOV 1/04

HIGHLIGHTS

DESCRIPTION OF CHANGE	TOPICS AFFECTED												
	D&O	D/Assy	Cleaning	Insp/Chk	Repair	Assy	F/C	Test	T/Shooting	S/Tools	Storage	IPL	L/Overhaul
Updated the List of Effective Pages to reflect actual page dates	X												

COWL PANEL ASSEMBLY, LH

71-13-11

BOEING P/N 65-73773-1, -75, -91

AIRLINE P/N

THE FOLLOWING DIRECTIVES APPLY TO THIS SUBJECT:

BOEING SERVICE BULLETIN	BOEING TEMPORARY REVISION	OTHER DIRECTIVES	DATE DIRECTIVE INCORPORATED INTO TEXT
71-1005		MC 3460-1K	Nov 10/69
71-1002		PRR 30825	Nov 10/69
71-1004		PRR 30878-1	Nov 10/69
		PRR 31030-24	Nov 10/69
		PRR 31136	Nov 10/69
		PRR 31306	Nov 10/69
71-1014		PRR 31437	Nov 10/69
71-1012		RC 10945	Nov 10/69
		PRR 31920	Jun 10/70

LIST OF EFFECTIVE PAGES

* Indicates pages revised, added or deleted in latest revision
F Indicates foldout pages - print one side only

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COWL PANEL ASSEMBLY, LH

DESCRIPTION AND OPERATION

1. Description

   A. The cowl panel assembly consists of a guide bar, cowl support rod assembly, wear strip, shear pins, hinges, seals, pressure relief and access doors, duct, drain, and louver installations and associated hardware.

   B. The engine cowl panel encloses the left side and underneath area of the engine from aft of the nose cowl to the aft cowl assembly. The cowl panel assembly provides protection for engine accessories and the framework allows mounting of hinges, access and pressure relief doors, and duct drain and louver installations.

2. Leading Particulars (Approx.)

   Length -- 122.0 inches
   Width -- 53.0 inches
   Height -- 15.0 inches
   Weight -- 70.0 pounds

DISASSEMBLY

1. General

   A. Disassemble only as necessary for cleaning, inspection, repair, and replacement of components. Disassembly is generally limited to items which can be expected to wear during operation or which must be removed to gain access to parts that require removal for inspection, repair, refinishing, or replacement. Integral parts of the cowl assembly such as frames, doublers, channels, angles, etc., normally should not be removed.

      CAUTION: PLACE COWL PANEL ASSEMBLY ON A NONMARRING SURFACE OR INSTALL IN A SUITABLE HOLDING FIXTURE TO PREVENT COWL FROM BEING SCRATCHED OR DAMAGED.

2. Disassembly (See figure 1101.)

   A. Remove nuts (1), washers (2), bolts (3), and guide bar (4).

   B. Remove nuts (5), washers (6), U-bolts (7), and wedges (8, 9, and 10). Remove checknuts (11) from U-bolts (7).

   C. Remove nuts (12), shear pins (13), and washers (14).

      NOTE: Do not remove rivet (15) securing bumper washer (16) unless replacement is necessary.

   D. Remove rivets (17) securing wear strip (18) to cowl assembly only if replacement is necessary.

   E. Remove nuts (19), washers (20), bolts (21 and 22), and hinges (23, 24, and 25).

   F. Remove nuts (26), washers (27), bolts (28 and 29), washers (30), lever (31), bushing (32), spacer (33), and hinge (34).

   G. Remove nut (35), washers (36), and shear pin (37).

   H. Remove pin (38), cable assembly (39), and link (40) only if repair or replacement is necessary.

   J. Remove nuts (41), washers (42), bolts (43), washers (44 and 45), lever (46), bushing (47), spacer (48), and hinge (49).

   K. Remove nut (50), washer (51), and shear pin (52).

L. Remove nuts (54), washers (55), bolts (56), and rod assembly (57).

M. Remove nut (58), washer (59), plate assembly (60), spring washer (63), cotter pin (64), nut (65), washers (66), bolt (67), eye bolt (68), and spring washer (69) from rod end (72).

NOTE: Do not remove bushing (61) from plate (62) unless repair or replacement is necessary.

N. Remove items (70 through 73) from tube (79) only if repair or replacement is necessary.

NOTE: Do not remove items (74 through 77) from rod end (78) unless repair or replacement is necessary.

P. Remove nut (80), washer (81), bolt (82), and clip (83).

Q. Unfasten stud assemblies (86 and 87) securing engine oil access door assembly (85) to cowl structure.

NOTE: Do not remove items (86 through 93) unless repair or replacement is necessary.

R. Remove nuts (94), washers (95), bolts (96), and access door assembly (85).

NOTE: Do not remove items (97 through 105) unless repair or replacement of parts is necessary.

S. Unfasten stud assemblies (108) securing constant speed drive access door assembly (107) to cowl structure.

NOTE: Do not remove items (108 through 113) unless repair or replacement of parts is necessary.

T. Remove nuts (114), washers (115), bolts (116), and access door assembly (107).

NOTE: Do not remove items (117 through 125) unless repair or replacement is necessary.

U. Remove items (127 through 140) only if repair or replacement of parts is required.

V. Remove items (141 through 150 or 152 through 162), as applicable, only if repair or replacement of parts is necessary.

W. Remove tube assembly (164).

NOTE: Do not remove items (165 through 168) unless repair or replacement of parts is necessary.

X. Remove nuts (169), washers (170), bolts (171), and drain fitting (172).

Y. Remove plug (173) and O-ring (174).

Z. Remove items (175 through 190) only if repair or replacement of parts is necessary.

AA. Remove springs (192), nut (193), washer (194), spacer (195), filler (196), washer (197), and bolt (198).

AB. Remove nuts (199), washers (200), bolts (201), and remove door assemblies (228 and 229).

NOTE: Do not remove items (202 through 215) unless repair or replacement of parts is necessary.

AC. Remove rivets (216) and rub strip (217) only if repair or replacement is necessary.

AD. Remove nuts (218), washers (219), spring washer (220), bolts (221), shims (222), gimbals (223), and magnet assembly (224).

CAUTION: PROVIDE STEEL KEEPER PLATES FOR MAGNET ASSEMBLY (224) AND ATTACH TO RETAIN MAGNETISM DURING STORAGE.

NOTE: Plate (225) is bonded to magnet (226). Do not separate unless replacement makes it necessary.

AE. Remove magnet caps (230) only if repair or replacement is necessary.

AF. Remove nut (233), washer (234), bolt (235), and indicator (236).

NOTE: Do not remove bushing (237) from indicator (236) unless repair or replacement is required.

Do not remove rivets (240), shim (231), spring (238), and bracket (239) unless repair or replacement is necessary.

AG. Disconnect cable assemblies (241) by slipping swaged ball through hole in clip (250).

AH. Remove nut (245), washers (246), bolt (247), and bushing (244).

NOTE: Do not remove rivets (255), shims (248), and catch (243) unless repair or replacement is necessary.

AJ. Remove applicable items (249 through 255) and rivets (260) only if latch supports (261 and 262) or latch housing (279) requires repair or replacement.

AK. Remove cotter pins (257 and 263), washers (258 and 264), pins (259 and 265), and latch (266).

AL. Remove cotter pin (267), washers (268), spring washer (269), spring core (270), washers (271), and spring (272).

AM. Remove nuts (273), washers (274 and 275), bolts (276), and spring holder (278).

NOTE: Do not remove bushings (277) unless repair or replacement is necessary.

AN. Remove cotter pins (280), pins (281) and cable assembly (241).

AP. Remove items (283 through 293 and 295 through 297) only if repair or replacement of parts is necessary.

AQ. Remove items (299 through 304 and 306 through 315), if applicable, only when repair or replacement of parts is necessary.

AR. If applicable, remove screws (317 and 318), doubler (336), retainer ring (320), seal (321), retainer assembly (322), and compression spring (325).

NOTE: Do not remove items (318A, 319, 327 through 335, 337 and 338) unless repair or replacement of parts is necessary).

AS. If applicable, remove screws (340 and 341), doubler (342), retainer ring (343), seal (344), retainer assembly (345), and compression spring (348).

NOTE: Do not remove items (349 through 355A) unless repair or replacement of parts is necessary.

AT. If applicable, remove items (357 through 370) only if repair or replacement of parts is required.

AU. Remove nuts (372), washers (373), bolts (374), and wear clip (375).

NOTE: Do not remove Metal-Cal (371) unless replacement is necesary.

AV. Remove rivets (376), and identification plate (377) only if replacement is required.

AW. Remove decals (378) only if replacement is required.

CLEANING

1. General

   A. Wash and rinse all metal parts in solvent, Specification P-D-680 or equivalent.

   B. Clean all holes, threads, passages, and chambers. Remove stubborn accumulation of dirt using a stiff bristle brush. Do not use a metal brush.

   C. Drain and dry all parts thoroughly with clean lint-free cloth or clean, dry compressed air.

   D. Wash seals and seal plugs in a mild soap and water solution. Rinse with clean water and dry with lint-free cloth or clean, dry compressed air.

   E. For additional information, refer to "General Cleaning Procedures," SOPM 20-30-03.

INSPECTION/CHECK

1. Visual Checks (See Fig. 1101.)

   A. Examine all metal parts for pits, scratches, cracks, corrosion, burrs, and damage using a strong light and a minimum of 10-power magnification.

   B. Examine entire assembly structure for damage, loose fasteners, corrosion, and general condition of paint and finish. Check parts not removed during disassembly for security of attachment.

   C. Check all threaded parts for cross-threading and stripping.

   D. Examine all bushings and bolt holes for excessive or eccentric wear.

   E. Examine all ducts, drains, vents, and louvers for damage and obstructions.

   F. Examine hinges (23, 24, 25, 34, and 49) for cracks, gouging, or excessive indentations due to contact and engaging action.

   G. Examine grommets (89 and 110) for deterioration and check receptacles (93 and 113) for security of attachment.

   H. Examine precooler exhaust duct assembly (133) for cracks, weld separation, obstructions, and security of attachment. (Refer to OHM 36-10-03.) Ensure outlet louvers are not bent or damaged.

   J. Examine seals (141, 144, and 147; 152 and 155), or seal (160) as applicable, and seal plugs (145 and 146) for cracking and deterioration. Check that seals are firmly seated in their respective retainers and that hole in forward wall of bulb seal is not clogged.

   K. Check seal retainers (143 and 150 , 154 and 159), or retainer (162), as applicable, for security of attachment.

   L. Check tube assembly (164), fluid drain flange (168), drain fitting (172), tank assembly (175), drain mast fitting (189), and drain plug hole for obstructions.

   M. Deleted.

   N. Check hinges (212 through 215) for damage. Ensure hinge pins (211) are crimped.

   P. Examine rub strip (217) for wear, damage and security of attachment.

   Q. Check that plate (225) is securely bonded to magnet (226).

   R. Check that indicator (236) is not damaged.

S. Examine cable assembly (39, 77 and 241) for frayed wires and security of ball.

T. Examine catch assembly (242) and latch (266) for wear and security of attachment.

U. Examine weld areas of duct (refer to OHM 36-10-03) and drain assemblies (283, 300, 308, and 330) for cracks. Check duct, louver, and drain installations (282, 294, 298, and 305), and drain assembly (330) for security of attachment and ensure that ducting is clear of obstructions.

V. Examine rubber seal (321 or 344) for deterioration.

W. Check duct weld assembly (326 or 355) for cracks and security of attachment. (Refer to OHM 36-10-03.) Check that duct is clear of obstructions.

X. Check identification plate (377) and decals (378) for legibility.

Y. Examine spring clip (83) spring assemblies (102 and 122) and stud assemblies (86, 87, and 108) for general condition and reliability.

2. Special Checks (See Fig. 1101.)

A. Check compression springs (272, 325, and 348) per figure 301.

NOTE: No permanent set should result from test loads.

B. Check tension spring (192). Maximum tension load shall be 5.90 pounds at extended length between inside diameter of hooks of 3.269 to 3.551 inches.

Item No. Figure 1101	Approximate Free Length (Inches)	Test Length (Inches)	Allowable Load Limits (Pounds)
272 325,348	4.72 3.25	2.58 2.15 1.15	18.9 to 24.9 4.2 to 5.2 8.0 to 10.0

Spring Checks
Figure 301

C. Check magnet (226) holding force to be 28 to 32 pounds.

CAUTION: PROVIDE STEEL KEEPER PLATES FOR MAGNETS AND ATTACH TO RETAIN MAGNETISM DURING STORAGE.

D. If visual examination discloses evidence of defects in any of the listed parts, perform the following checks:

(1) Penetrant Check -- Drain fitting (172) and weld areas of duct and drain assemblies (133, 283, 300, and 308).

NOTE: Deleted.

(2) Magnetic Particle Check -- U-bolts (7); hinges (23, 24, 25, 34, and 49); rod ends (72 and 78).

NOTE: Deleted.

E. Check parts for wear in accordance with limits and requirements specified in figure 601.

REPAIR

1. Repair

NOTE: Repair of parts should be limited to those items that can be restored to serviceable condition using simple tools and procedures.

A. Remove minor scratches, nicks, and corrosion by polishing lightly with 220-grit or finer abrasive cloth. Refinish as required for protection against corrosion.

B. Clean up minor defects in threaded areas with thread chaser or small triangular file.

C. Refer to OHM 36-10-03 for repair of duct assemblies (133, 283 and 355).

D. Hinges (23, 24, 25, 34 or 49) repair (reference "A" or "C," Fig. 601).

(1) Part Number 65-47970-11, -12 or -14

NOTE: Material is steel 17-4PH per AMS 5355 heat-treated 180 to 220 ksi.

(a) Grind per SOPM 20-10-02 as required to remove surface defects. Do not exceed maximum inside diameter of 0.420 inch or minimum outer radius of 0.815 inch.

(b) Restore wear surface by appropriate welding, flame spray coating using stainless steel BMS 10-67, Type 8 per SOPM 20-10-05 or chrome plate per SOPM 20-42-03.

(c) Grind to finish dimensions shown in figure 601 with 125 microinch finish.

(2) Part number 65-77472-1, -2 or -4

NOTE: Material is titanium per BMS 7-181, composition 1, condition A.

(a) Grind to remove surface defects as stated in step (1)(a).

(b) Restore wear surface using appropriate welding procedure.

E. Levers (31 or 46) repair (reference D, E or F, Fig. 601).

NOTE: Material is steel AISI 301, composition 301 per MIL-S-5059, condition 2D.

(1) Grind per 20-10-02 as required to remove surface defects. Do not exceed pivot maximum inside diameter of 0.458 inch or hook maximum inside radius of 0.235 inch. Do not exceed lever minimum thickness between detention holes of 0.065 inch.

(2) Restore wear surface by flame spray coating using stainless steel BMS 10-67, type 8 per 20-10-05.

(3) Grind to finish dimensions shown in Fig. 601 with 125-microinch finish.

2. Refinish (Fig. 1101)

NOTE: Refer to 20-30-02 for stripping of protective finishes and to 20-41-01 for explanation of F and SRF finish codes.

A. If plated or coated surfaces are worn or chipped, refinish the following parts as indicated:

(1) Bar (4) -- Primer (SRF-12.206) all over.

(2) U-Bolt (7) -- Cadmium plate (F-1.20) all over. Straight section of U-bolt opposite open end should be round within 0.010 inch TIR and within 0.30 to 0.31 inch in diameter. Material: 8630 steel rod, heat treated 150-170 ksi.

(3) Wedges (8, 9, and 10) -- Alodize (SRF-2.30) all over.

(4) Pins (13, 37, and 52) -- Chrome plate (F-1.842) to head only. Cadmium plate (F-1.202) to shank, threads, and underneath surface of head (Fig. 401). Material is 4340 steel bar, heat treated 180 to 200 ksi.

(5) Strip (18) -- After bonding, apply primer (SRF-6.21) followed by color per SRF-14.9624 to wear surface.

(6) Hinges (23, 24, 25, 34, and 49, part number 65-47970-11, -12 and -14) -- Passivate (F-8.07) all over followed by primer (SRF-12.206) to area shown in Fig. 401. Material is 17-4PH CRES per AMS 5355 heat treated 180 to 220 ksi.

(7) Levers (31 and 46) -- Passivate (F-8.07) all over.

(8) Rod end (72) -- Cadmium plate (F-1.20) all over. Material: 17-4PH CRES, heat treated 140-160 ksi.

(9) Plate (62) -- Alodize (SRF-2.30) all over.

(10) Rod end (78) -- Cadmium plate (F-1.30) all over. Material: 17-4PH CRES, heat treated 180-220 ksi.

(11) Tube (79) -- Alodize (SRF-2.901) all over followed by color per SRF-14.9624 (optional SRF-14.9623) to thickness of 0.008 to 0.012 inch on area shown in Fig. 401.

(12) Clip (83) -- Chrome plate (F-1.20) all over followed by primer (SRF-12.205). Material: 1095 spring steel, heat treated to spring steel temper, Rockwell C40-C45.

(13) Hinge halves (100, 101, 120, and 121) -- Apply primer (F-20.02) on faying surfaces only. Apply F-12.63 finish on externally exposed portion of hinges.

(14) Fillers (92, 99, and 119) and hinges (104 and 124) -- Alodize (SRF-2.30) all over.

(15) Spring (105 and 125) -- Cadmium plate (SRF-1.285) all over. Material: MIL-S-7947, heat treated 180-220 ksi.

(16) Retainers (143, 150, 154, 159, and 162) -- Alodize (SRF-2.30) all over.

(17) Mast fitting (189) -- Apply primer (SRF-12.205) followed by color (SRF-12.63) all over.

(18) Extensions (208, 209, and 210) -- Alodize SRF-2.30 followed by primer (SRF-12.205) all over.

(19) Shims (222) -- Apply primer (SRF-12.206) all over.

(20) Indicator (236) and spring (238) -- Apply primer (SRF-12.206) all over.

(21) Bracket (239) -- Alodize (SRF-2.30) followed by primer (SRF-12.205) all over.

(22) Catch (243) and filler (251) -- Alodize SRF-2.30 all over.

(23) Holder (278) and housing (279) -- Alodize SRF-2.30 all over.

(24) Shim (291) -- Alodize SRF-2.30 all over.

(25) Rings (320 or 343 and 327 or 352) and doubler (336 or 342) -- Apply primer (SRF-12.206) all over.

(26) Deleted.

(27) Door assemblies (228 and 229) -- Apply abrasion resistant coating (SRF-14.9624) or optional SRF-14.9623, 0.008- to 0.012-inch thickness around outer periphery of door outer skin.

3. Replacement (Fig. 1101)

A. Replace O-ring packing (174) and all parts found unserviceable or damaged beyond simple or prescribed repair.

B. If wear strip (18) requires replacement, remove rivets (17) and separate strip from cowl structure. Use worn wear strip as a template and match drill rivet holes. Bond new wear strip in place with BMS 5-42 adhesive per SOPM 20-50-12 and install rivets.

C. If necessary to replace bushing (61), install in plate (62) using Standard Staking Tool ST922C-5.

NOTE: Ream bushing (61) 0.312 to 0.316 inch after staking.

D. If necessary to replace rod ends (72 or 78) or tube (79) on rod assembly (57), size ends of tube and drill and assemble parts per dimensions shown in figure 402.

NOTE: Apply one coat of BMS 10-11, Type 1 primer to faying surfaces of tube (79) and rod ends (72 and 78).

E. If necessary to replace terminals (74 and 75), pin (76), and cable (77), assemble on rod end (78) per dimensions shown in figure 402. Install terminals (74 and 75) on cable (77) using portable swaging machine, Model AT520C or equivalent.

F. If stud assemblies (86, 87, or 108), retaining rings (88 or 109), or grommets (89 or 110) require replacement, proceed as follows:

(1) Remove retaining ring around grommet and remove stud assembly. Loosen grommet and remove from door.

(2) Apply unthinned BMS 10-11, Type 1 primer around raw edge of hole in door and on new grommet before installation.

(3) Install grommet in existing hole and install stud assembly by placing stud assembly in pliers ST-2598 (or equivalent) with flange of spring cup supported by semicircular slotted lower jaw.

(4) Press spring cup against lower side of stud head. Tilt stud assembly while inserting through grommet and hook it through grommet. Install retaining ring in groove around grommet.

G. If hinge spring assembly (102 or 122) requires replacement, lubricate pins (103 and 123) per SOPM 20-50-07, Type 2. Install rivets (98 or 118) flush to 0.007 inch above flush.

H. If precooler exhaust duct support bracket (131) requires replacement, install bolts (129) with wet BMS 10-11, Type 1 primer.

J. If replacement of seals (141, 144, and 147) is necessary, clean area to be sealed per SOPM 20-30-03. Bond new seal in place with Type 60 adhesive per SOPM 20-50-12. Apply sealant, BMS 5-33, Type B, to area shown in figure 402.

K. If seals (152 and 155) or seal (160) require replacement, clean area to be sealed per SOPM 20-30-03 before installing new seals.

L. If seal retainers (143, 150, 154, 159, or 162) require replacement, match drill rivet holes in new retainer.

CAUTION: WHEN REPLACING SEAL RETAINERS, USE CARE IN REMOVING RIVETS TO AVOID ENLARGING HOLES IN STRUCTURE.

M. Replacement of tank assembly (175).

(1) If tank assembly (175) requires replacement, apply fillet seal to periphery inside of tank and around drain mast using sealant BMS 5-19 for tank installation 65-51179-1 or Proseal 890 per BMS 5-26, class B-1/2 for tank installation 65-51179-11.

(2) If door (186) requires replacement, apply fillet seal between door and tank (180) using sealant BMS 5-19 for tank installation 65-51179-1 or Proseal 890 per BMS 5-26, class B-1/2 for tank installation 65-51179-11. Use same sealant when installing door fasteners. Sealant on outside of manufactured head permissible.

(3) If steps (1) or (2) are performed, fill tank with water and let stand for 15 minutes. There should be no leakage. If leakage occurs, reseal per steps (1) and (2) and repeat test.

N. If hinges (100, 120 and 212 through 215) require replacement, crimp ends of hinge pins (97, 117 and 211) after replacing hinge.

O. If plate (225) or magnet (226) requires replacement, bond plate to magnet as follows:

(1) Remove oils and grease using cleaning solvent or by vapor degreasing.

(2) Etch by immersing for 15 minutes in 37 percent hydrochloric acid at room temperature.

(3) Rinse parts in distilled water and dry using clean hot air.

(4) Bond plate (225) to magnet (226) using Minnesota Mining and Mfg. Company AF-30 adhesive per manufacturer's instructions within 8 hours after cleaning.

P. If magnetic caps (230) require replacement, use defective cap as rivet hole template and install rivets (229A) with primer, BMS 10-11, Type 1 on all areas of countersink and hole.

Q. If bushing (237 or 277) requires replacement, install new bushing per SOPM 20-50-03.

R. If spring (238) and bracket (239) require replacement, install new parts using rivets (240). Shim as required to maintain indicator (236) flush to 0.020 inch below flush with skin.

4. Materials

A. Adhesive - BMS 5-42

B. Primer - BMS 10-11, Type 1

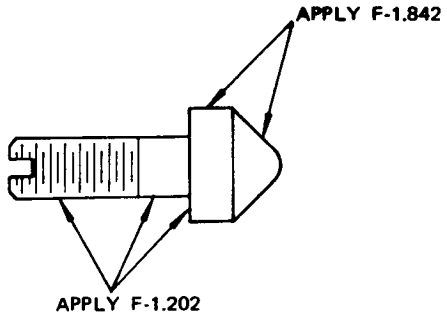
C. Sealant - BMS 5-33, Type B

D. Sealant - Proseal 890 per BMS 5-26, class B-1/2

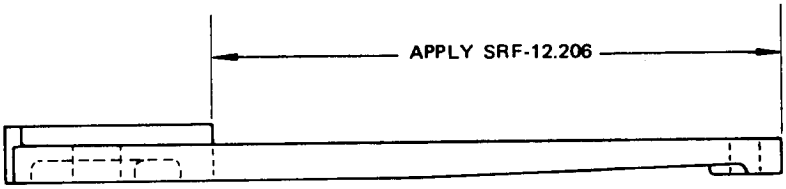
E. Sealant - BMS 5-19

F. Adhesive - AF-30, Minnesota Mining and Manufacturing Company, 3M Center St. Paul, Minnesota 55101

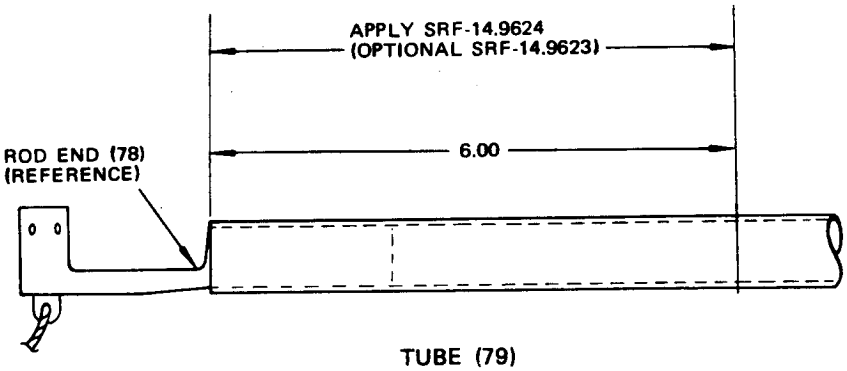
G. Sealant type 60 per SOPM 20-50-12 - 30-121, Dow Corning Corporation, South Saginaw Road, Midland, Michigan 48641



PINS (13, 37, AND 52)

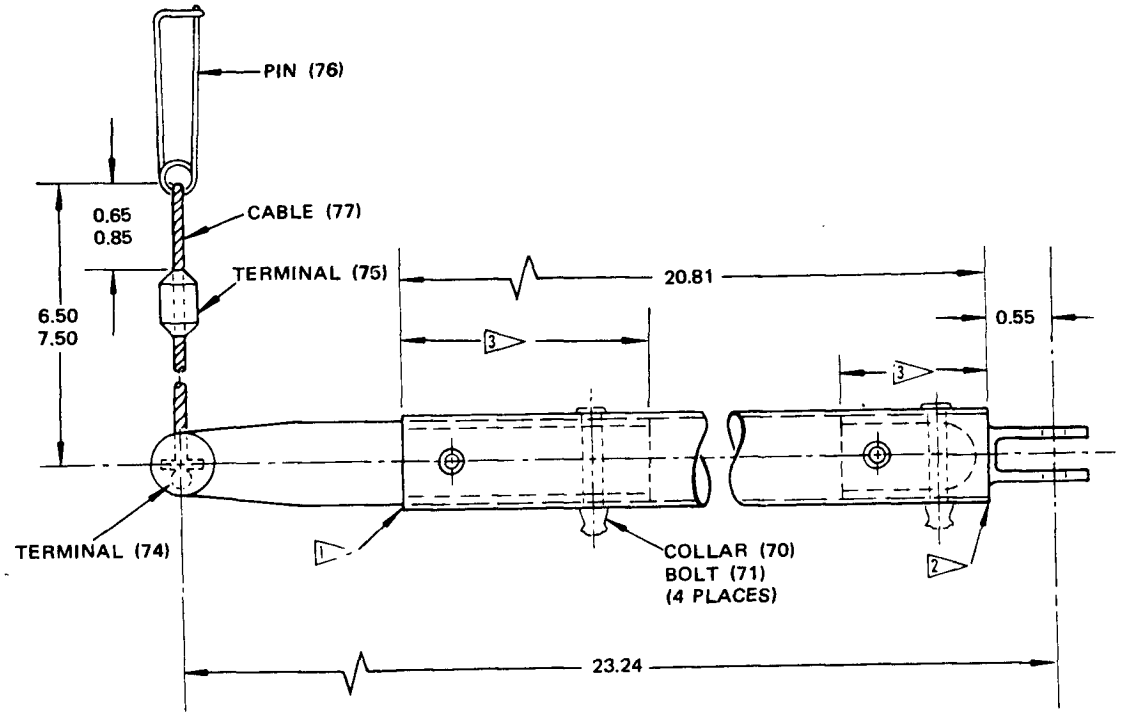


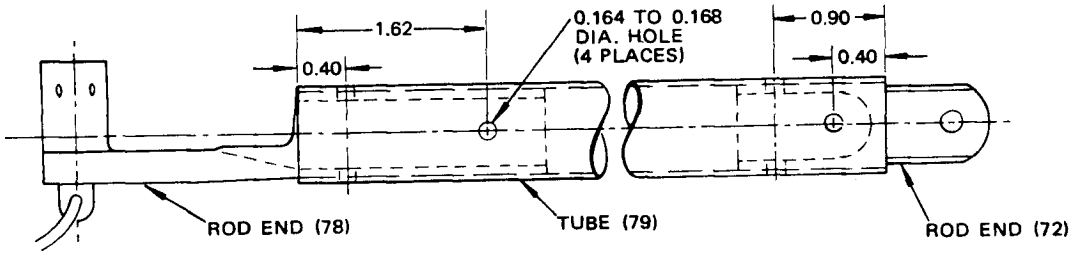
HINGES (23, 24, 25, 34, AND 49)



TUBE (79)

Refinish Diagram
Figure 401





ROD ASSEMBLY (57)

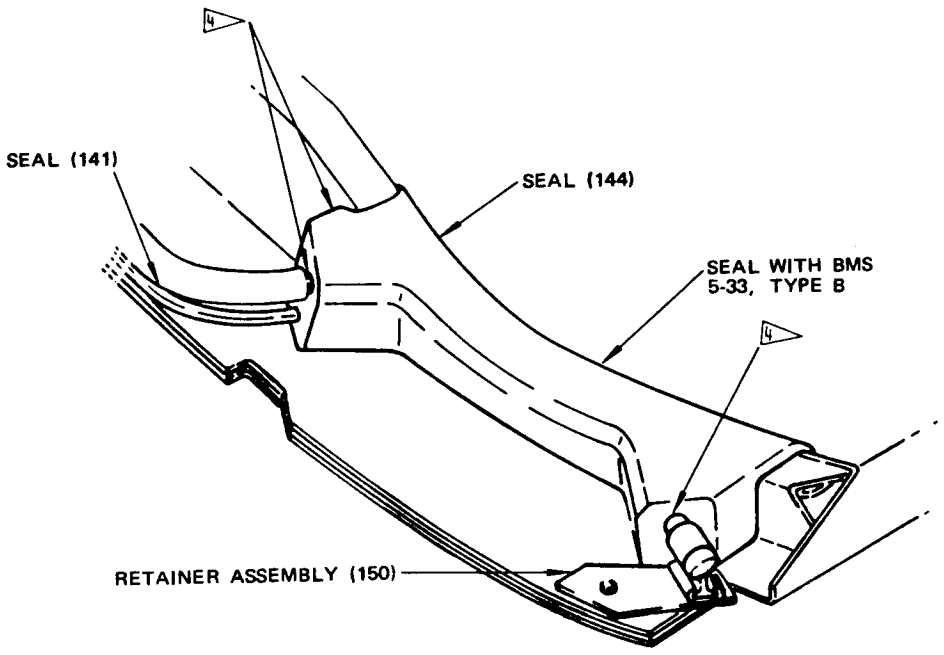
NOTE: ALL DIMENSIONS IN INCHES

1 SIZE END OF TUBE .0656 TO 0.666 I.D. X 2.28 TO 2.52 INCHES

2 SIZE END OF TUBE 0.656 TO 0.666 I.D. X 1.38 TO 1.62 INCHES

3 APPLY BMS 10-11, TYPE 1 PRIMER TO FAYING SURFACES OF TUBE (79) AND ROD ENDS (72 AND 78)

Replacement Details
Figure 402 (Sheet 1)


4
SEAL (141)
SEAL (144)
SEAL WITH BMS 5-33, TYPE B
4
RETAINER ASSEMBLY (150)
4 TYPE 60 ADHESIVE

ASSEMBLY

1. General

NOTE: Install all nuts and bolts per SOPM 20-50-01.

2. Detailed Assembly (See Fig. 1101.)

A. Install guide bar (4) using nuts (1), washers (2), and bolts (3).

NOTE: Install washers on both sides of guide bar.

B. Install nuts (11) and wedges (8, 9, and 10) on U-bolts (7). Position U-bolts (7) on cowl assembly and secure using nuts (5) and washers (6).

C. Install washers (14) on shear pins (13) and secure with nuts (12).

D. Install hinges (23, 24, and 25) using nuts (19), washers (20), and bolts (21 and 22).

E. Install hinges (34 and 49), spacers (33 and 48), bushings (32 and 47), levers (31 and 46), washers (30, 44 and 45), bolts (28, 29 and 43), washers (27 and 42), and nuts (26 and 41).

F. Install shear pins (37 and 52) using washers (36 or 51) and nut (35 or 50) as applicable. Adjust lock levers (31 and 46) by adding AN960PD416L washers under base of shear pins (37 or 52) until a force between 6 and 12 pounds is required to activate lever.

G. Install cable assemblies (39) with pin (38) and chain link (40) by securing chain link (40) in structure.

NOTE: Temporarily insert pin (38) through hinge and lever during storage prior to cowl installation.

H. Assemble rod assembly (57) as follows:

(1) Install eye bolt (68), spring washer (69), bolt (67), washers (66), nut (65), and cotter pin (64) on rod end (72).

(2) Install spring washer (63), plate assembly (60), washer (59), and nut (58) on eye bolt (68).

NOTE: Install plate assembly (60) with manufactured head of bushing (61) under washer (59).

J. Install rod assembly (57) with bolts (56), washers (55), and nuts (54).

K. Install clip (83) using nut (80), washers (81), and bolts (82).

L. Install door assembly (85) by securing hinge half (101) to cowl structure using nuts (94), washers (95), and bolts (96). Close door and fasten stud assemblies (86 and 87). Ensure door skin is flush with surface of cowl skin.

M. Install door assembly (107) by securing hinge half (121) to cowl structure using nuts (114), washers (115), and bolts (116). Close door and fasten stud assemblies (108). Ensure door skin is flush with surface of cowl skin.

N. Install drain fitting (172) using nuts (169), washers (170), and bolts (171).

P. Install tube assembly (164) and secure with nuts (165).

Q. Install O-ring packing (174) and plug (173).

R. Install indicator (236) with nut (233), washer (234), and bolt (235). Use shim (231), if necessary, to maintain indicator flush to 0.020 inch below flush with skin.

S. Install magnet assembly (224) using nut (218), washer (219), spring washer (220), bolt (221), shim (222), and gimbal (223).

NOTE: Install bolt (221) with wet BMS 10-11, type 1 primer. Tighten sufficiently to reduce spring washer to approximately 0.04-inch height. Magnet should swivel on gimbal. Holding force of magnet assembly (224) should be 28 to 32 pounds.

T. Install spring holders (278) with nuts (273), washers (274 and 275), and bolts (276). Spring holder must be free to swivel after installation.

U. Position one washer (271), springs (272), and washers (271) on spring cores (270). Push spring cores (270) through hole in spring holders (278) and secure with washers (268 and 269) and cotter pin (267).

V. Install latches (266) on latch supports (261 and 262) using pins (259), washers (258), and cotter pins (257). Secure other end of latches (266) to spring cores (270) with pins (265), washers (264), and cotter pins (263).

W. Position bushings (244) on catches (243) and secure using nuts (245), washers (246), and bolts (247).

X. Install door assemblies (228 and 229) using nuts (199), washers (200), and bolts (201).

Y. Position spacer (195) and filler (196) in place and install nuts (193), washers (194 and 197), and bolts (198).

Z. Install springs (192).

AA. Insert swaged ball of cable assemblies (241) through hole in clip (250). Attach opposite end of cable assemblies (241) to door structure using pins (281) and cotter pins (280).

AB. Deleted.

AC. If applicable, install compression spring (325), retainer assembly (322), seal (321), retainer ring (320), and doubler (336) and secure using screws (317 and 318). Depress spring retainer assembly to check for freedom of movement.

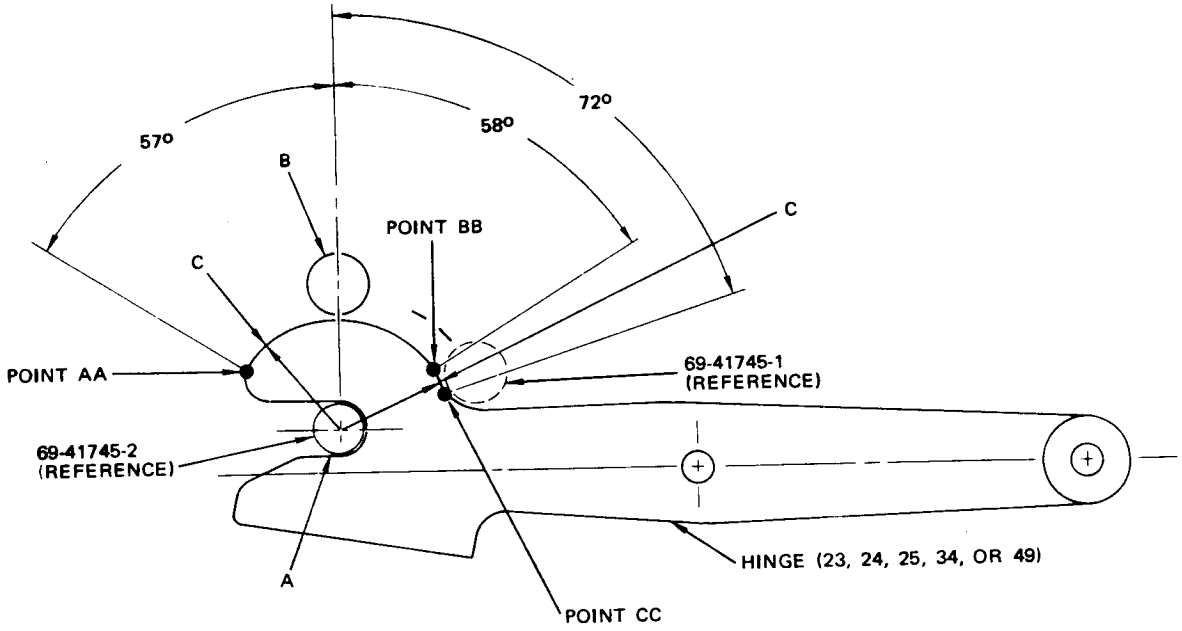
AD. If applicable, install compression spring (348), retainer assembly (345), seal (344), retainer ring (343), doubler (342), and secure using screws (340 and 341). Depress spring retainer assembly to check for freedom of movement. Install spring (348) end under three tabs of retainer assembly (345). Retainer assembly must be installed with flat edge facing forward.

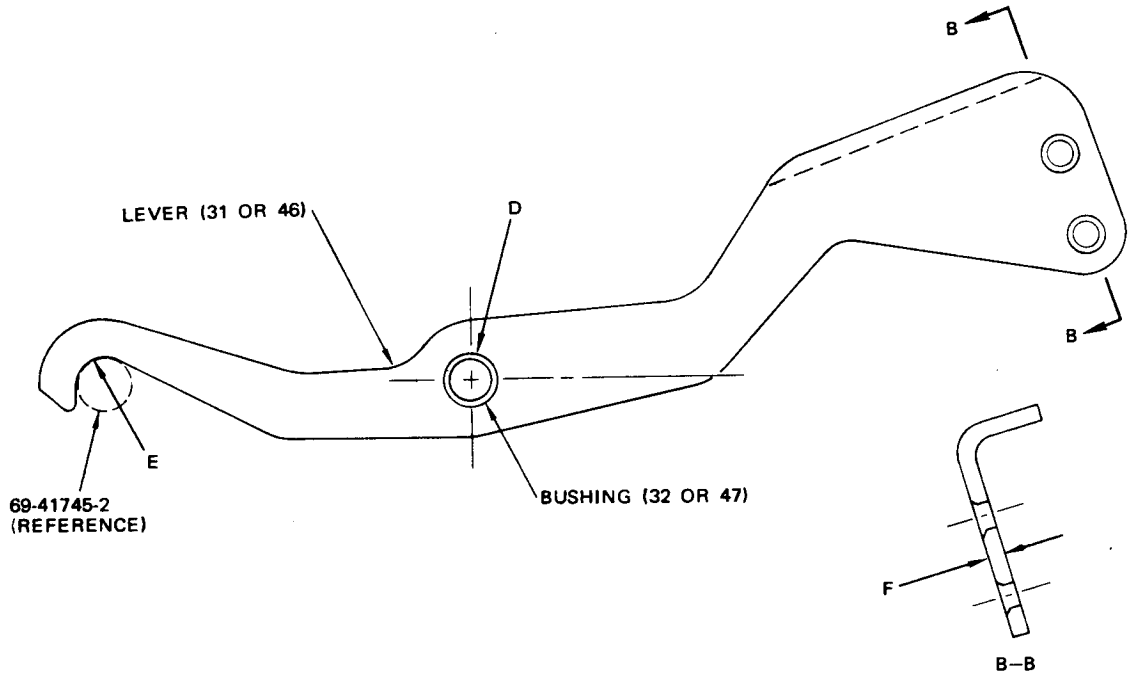
AE. Install wear clip (375) with nuts (372), washers (373), and bolts (374).

FITS AND CLEARANCES

1. The fits and clearances table lists design dimensions and service wear limits for close tolerance parts of the assembly that are subject to wear or corrosion. Unless otherwise specified, parts should be returned to the design dimensions whenever rework is accomplished.

2. Clearances are given to aid assembly of the components. The values given in the Maximum Allowable Clearance column are the maximum permitted to ensure proper functioning of the unit. If assembled parts fail to meet this requirement, one or more of the parts must be rejected. Parts that are rejected should be reworked if within the rework limits given in the Repair procedure; if not within rework limits, the parts should be scrapped. It is recommended that the design clearances be used as the guiding assembly criteria when newly reworked parts are assembled.





Fits and Clearances
Figure 601 (Sheet 1)

Ref Letter Fig. 601	Mating Item No. Fig. 1101	Design Dimensions				Service Wear Limits		
		Dimensions (inches)		Assembly Clearance (inch)		Dimension Limits (inch)		Maximum Allowable Clearance (inch)
		Min	Max	Min	Max	Min	Max	
A	ID 23,24, 25,34,49	0.4080	0.4100	0.0002	0.0025		0.4178	0.010
	OD *[1]	0.4075	0.4078			0.3980		
B	OD *[2]	0.5014	0.5017			0.4980		
C	OD 23,24, 25,34,49	*[3]	*[3]			*[4]		
D	ID 31,46	0.4370	0.4380	0.0007	0.0031		0.4413	0.005
	OD 32,47	0.4349	0.4363			0.4320		
E	ID 31,46	*[5]	*[5]				*[6]	
	OD *[1]	0.4075	0.4078			0.4050		
F	31,46	*[7]	*[7]			*[8]		

*[1] Reference OHM 71-13-14, part number 69-41745-2

*[2] Reference OHM 71-13-14, part number 69-41745-1

*[3] Radius between points AA and BB is 0.845 to 0.860 inch
Radius between points BB and CC is 0.850 to 0.860 inch

*[4] Minimum radius between points AA and BB is 0.815 inch
Minimum radius between points BB and CC is 0.840 inch

*[5] Lever radius 0.21 to 0.22 inch

*[6] Maximum radius not to exceed 0.23 inch

*[7] Lever thickness 0.09 to 0.15 inch

*[8] Minimum thickness between detention holes 0.07 inch

Fits and Clearances
Figure 601 (Sheet 2)

STORAGE INSTRUCTIONS

1. Plug or cap ducting and drains to prevent contamination during storage.

2. Place protective covers over U-bolts, hinges, doors, seals, and duct and drain installations.

3. Wrap entire assembly in vapor barrier paper. Tag or mark assembly with assembly name, number, cure date of rubber or rubber-like parts, and overhaul date.

4. Provide a suitable surrounding structure and pad sufficiently to protect cowl panel assembly from damage during handling or storage. Mark outside of structure with name, assembly number, and overhaul date.

5. For further information, refer to "Temporary Protective Coatings," SOPM 20-44-02, and "Protection, Storage, and Handling of Airplane Components," SOPM 20-70-01.

SPECIAL TOOLS, FIXTURES, AND EQUIPMENT

1. ST922C5 -- Standard Staking Tool

2. ST-2598 -- Stud Assembly Pliers

NOTE: Tools listed above are Boeing tools. Equivalent tools may be used.

3. Model AT520C -- Portable Cable Terminal Swaging Machine (Aircraft Tools, Inc., 9030 Bellanca Avenue, Los Angeles, California)

ILLUSTRATED PARTS LIST

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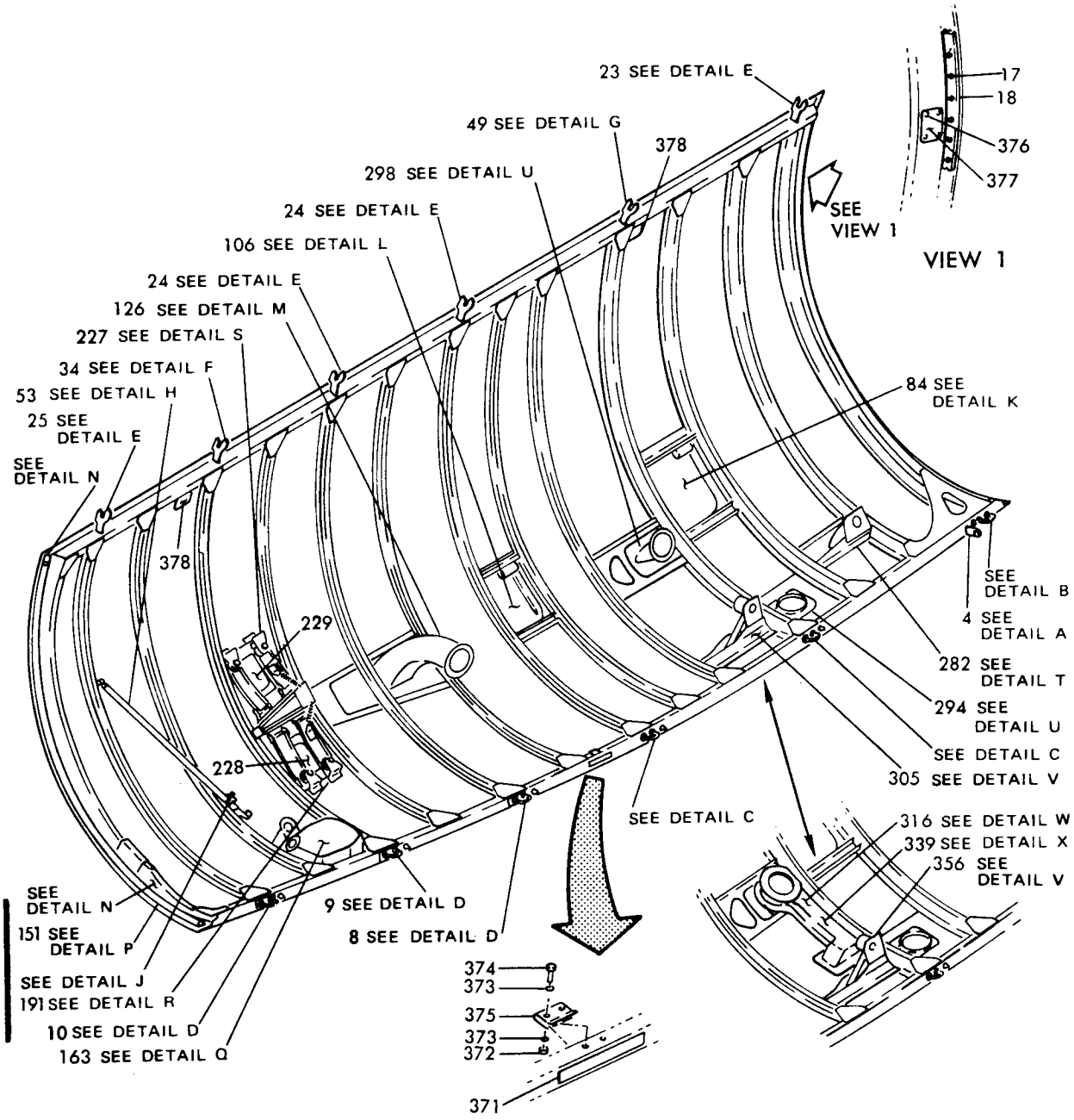
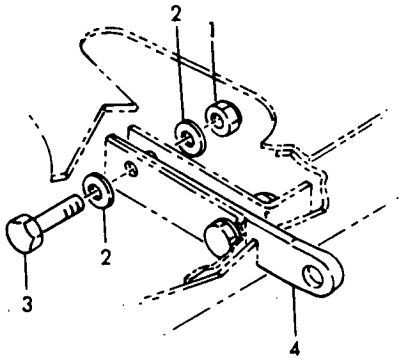
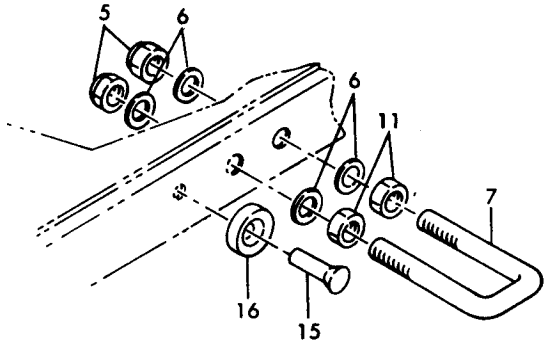
1. Exploded View



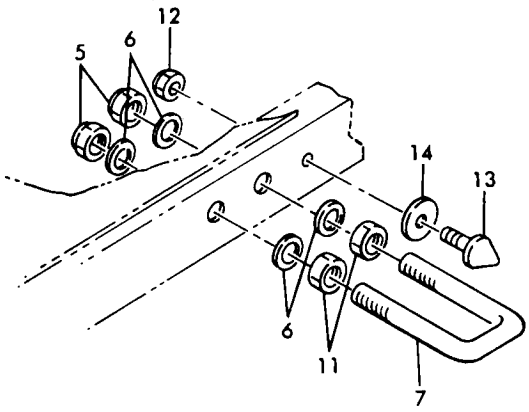
Cowl Panel Assembly, LH
Figure 1101 (Sheet 1)



DETAIL A



DETAIL B



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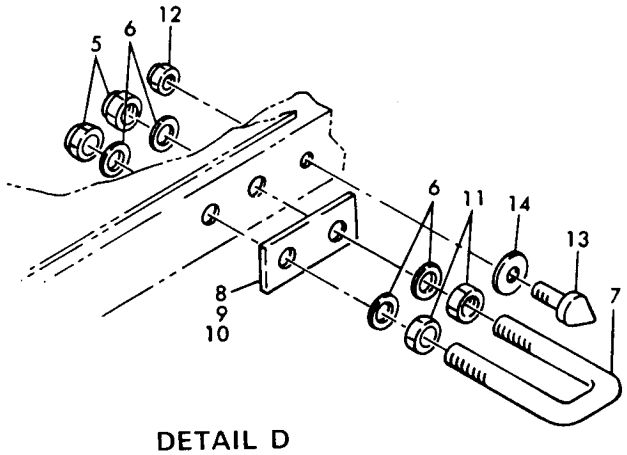

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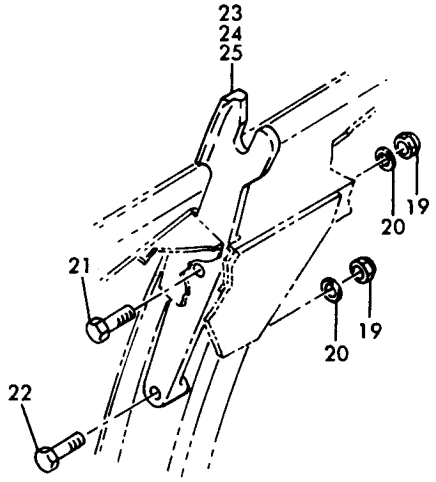
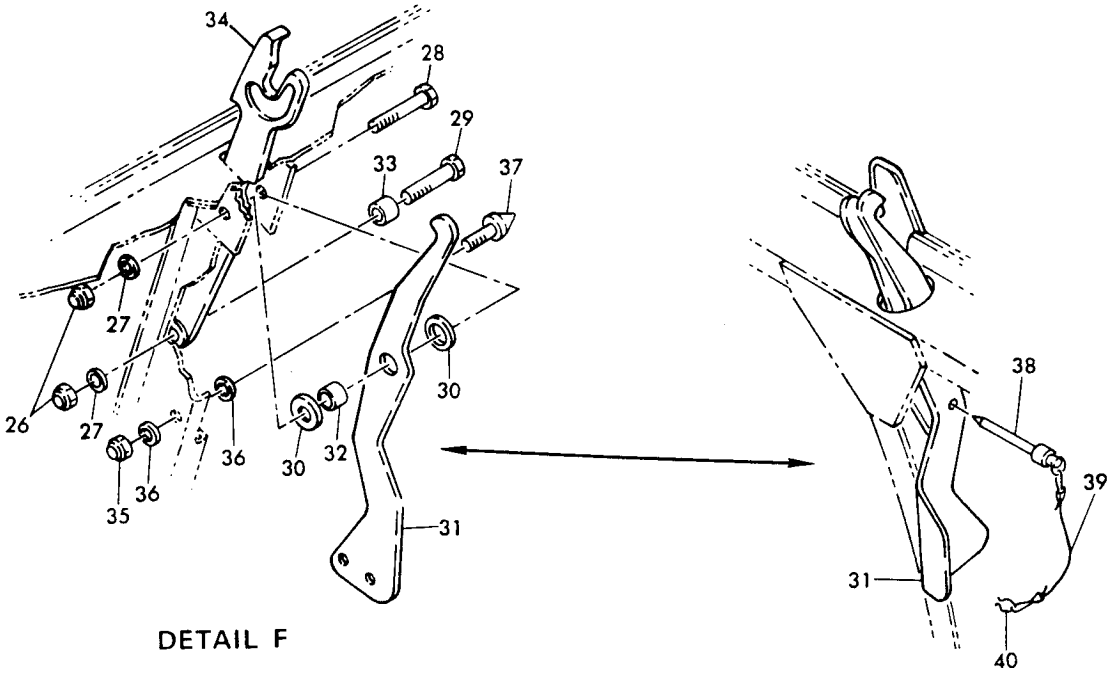


DETAIL E
(TYPICAL 4 PLACES)



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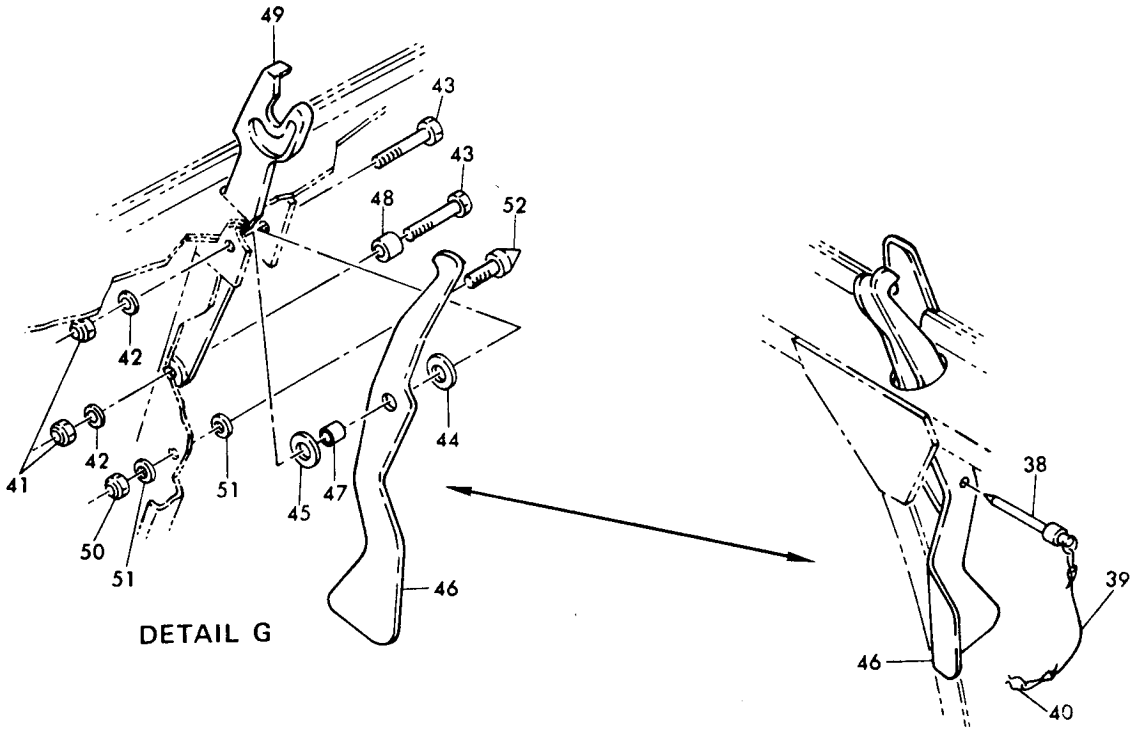
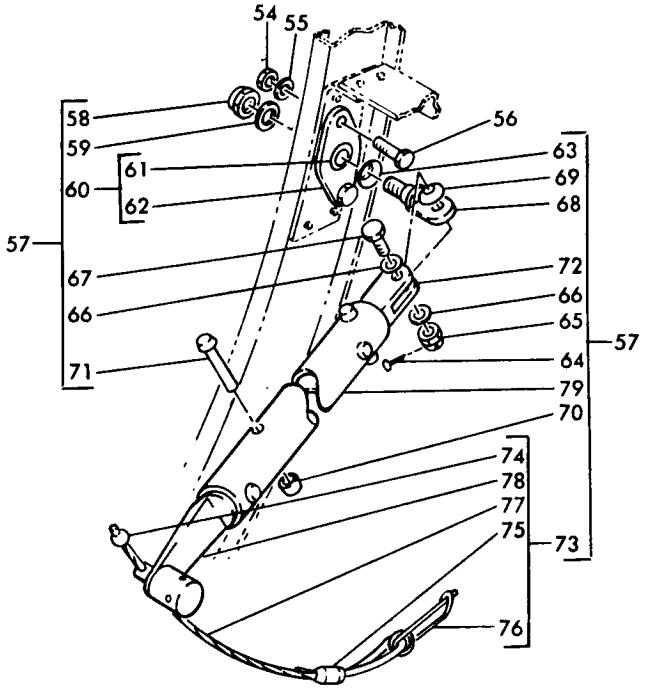
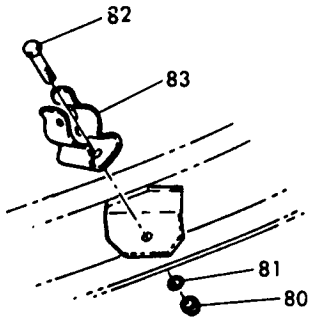


DETAIL G

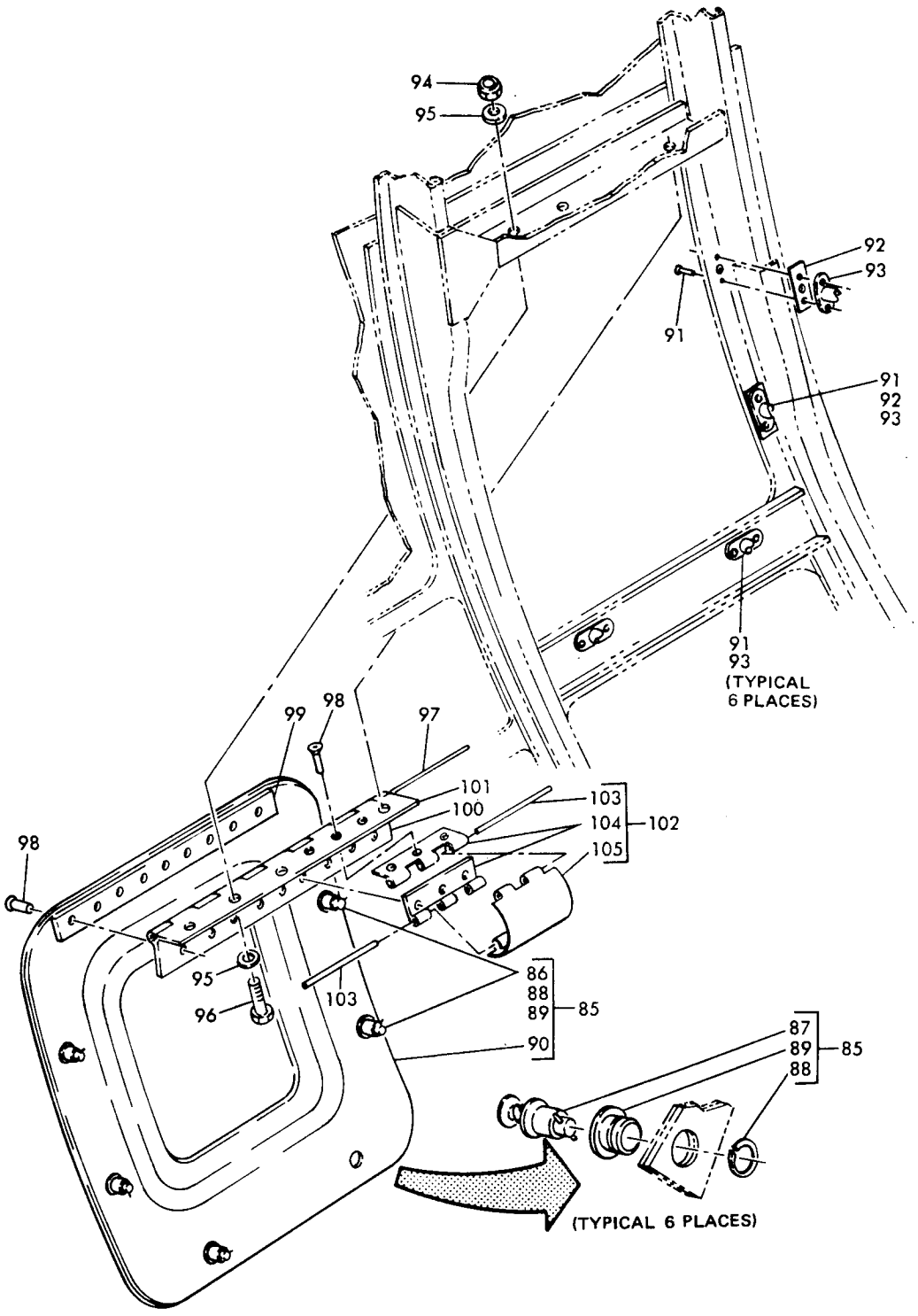
Cowl Panel Assembly, LH
Figure 1101 (Sheet 3)



DETAIL H



DETAIL J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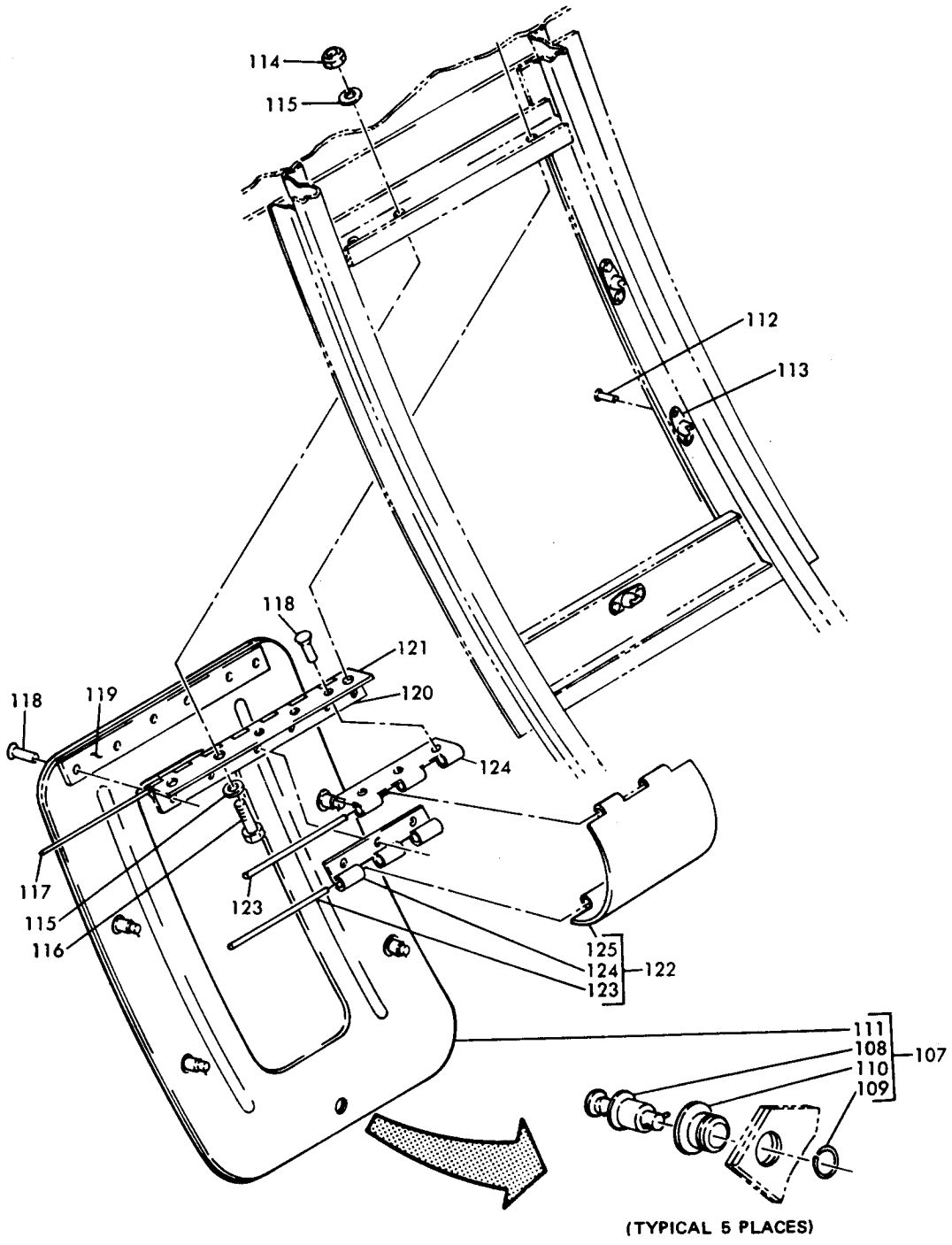
(TYPICAL 6 PLACES)

DETAIL K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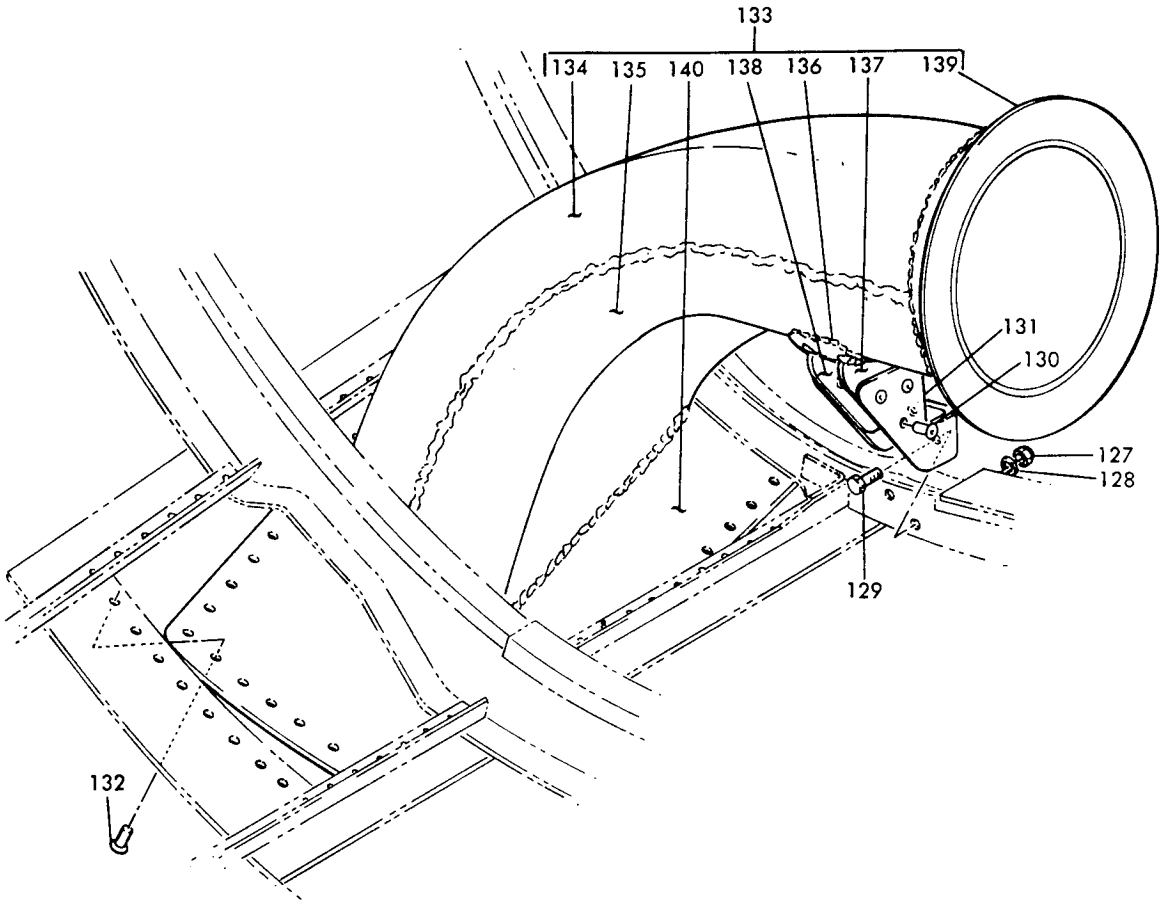
(TYPICAL 5 PLACES)

DETAIL L



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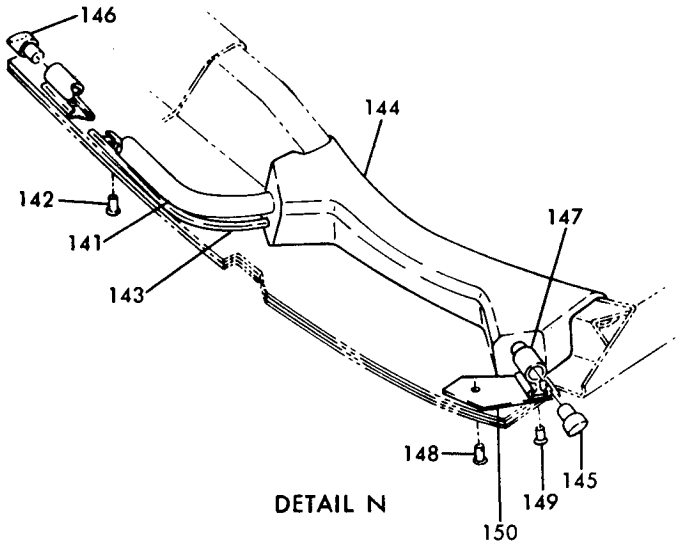

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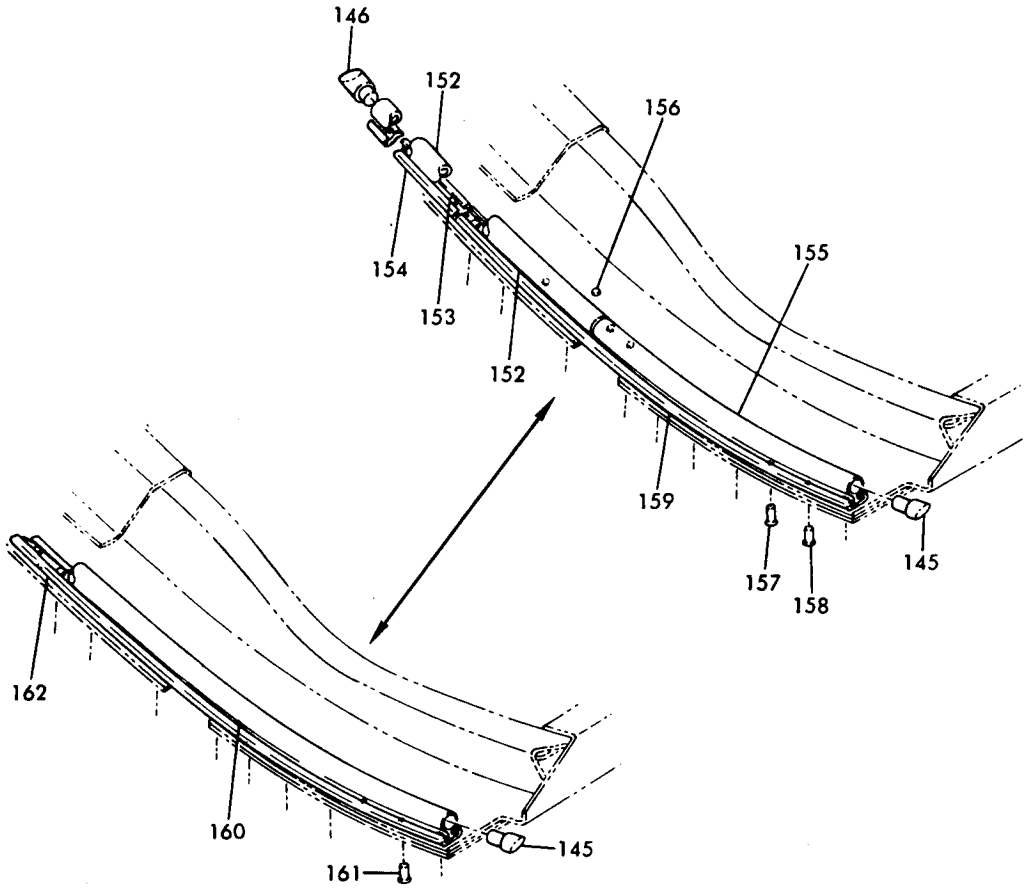

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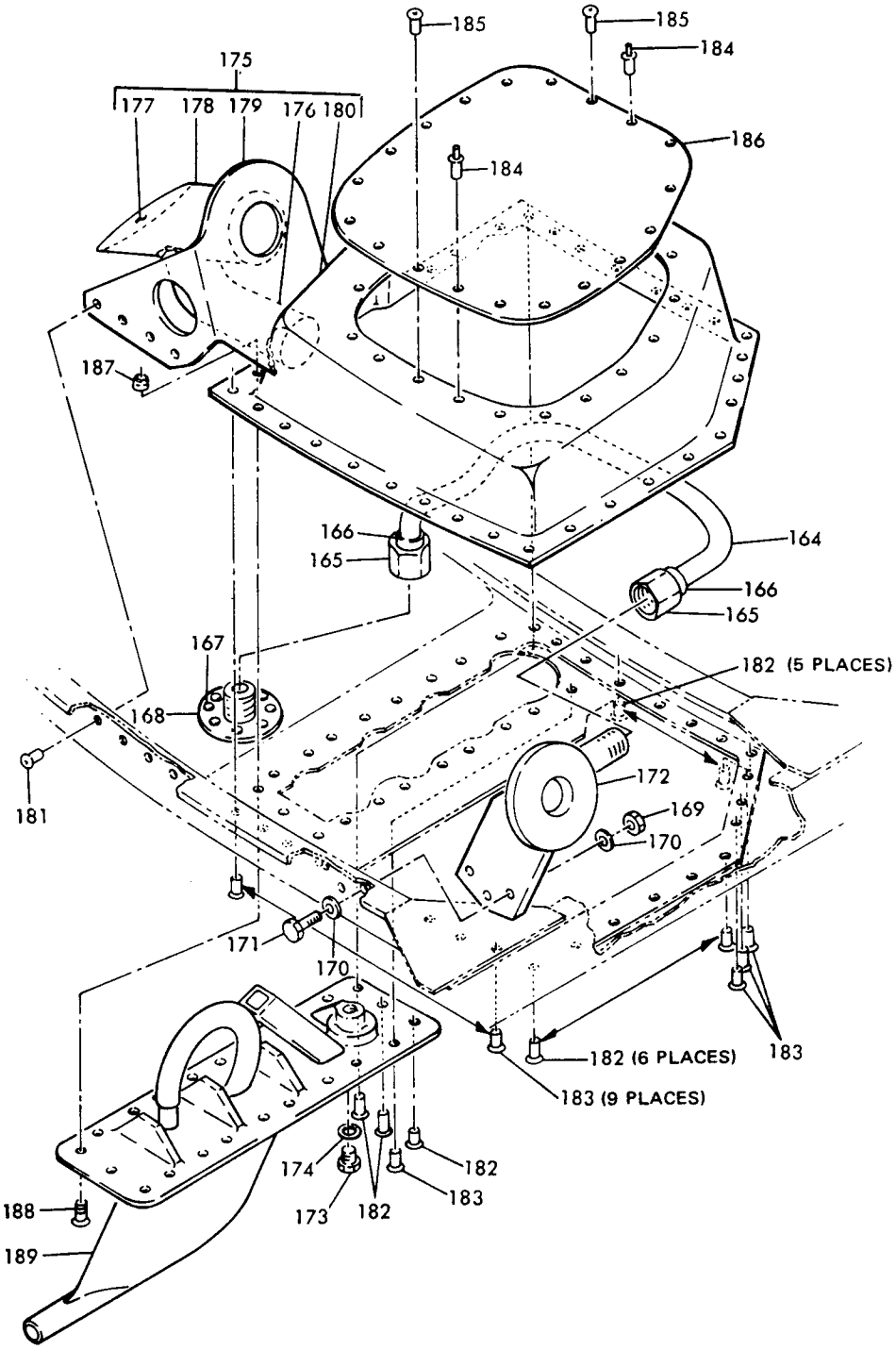
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183 (9 PLACES)
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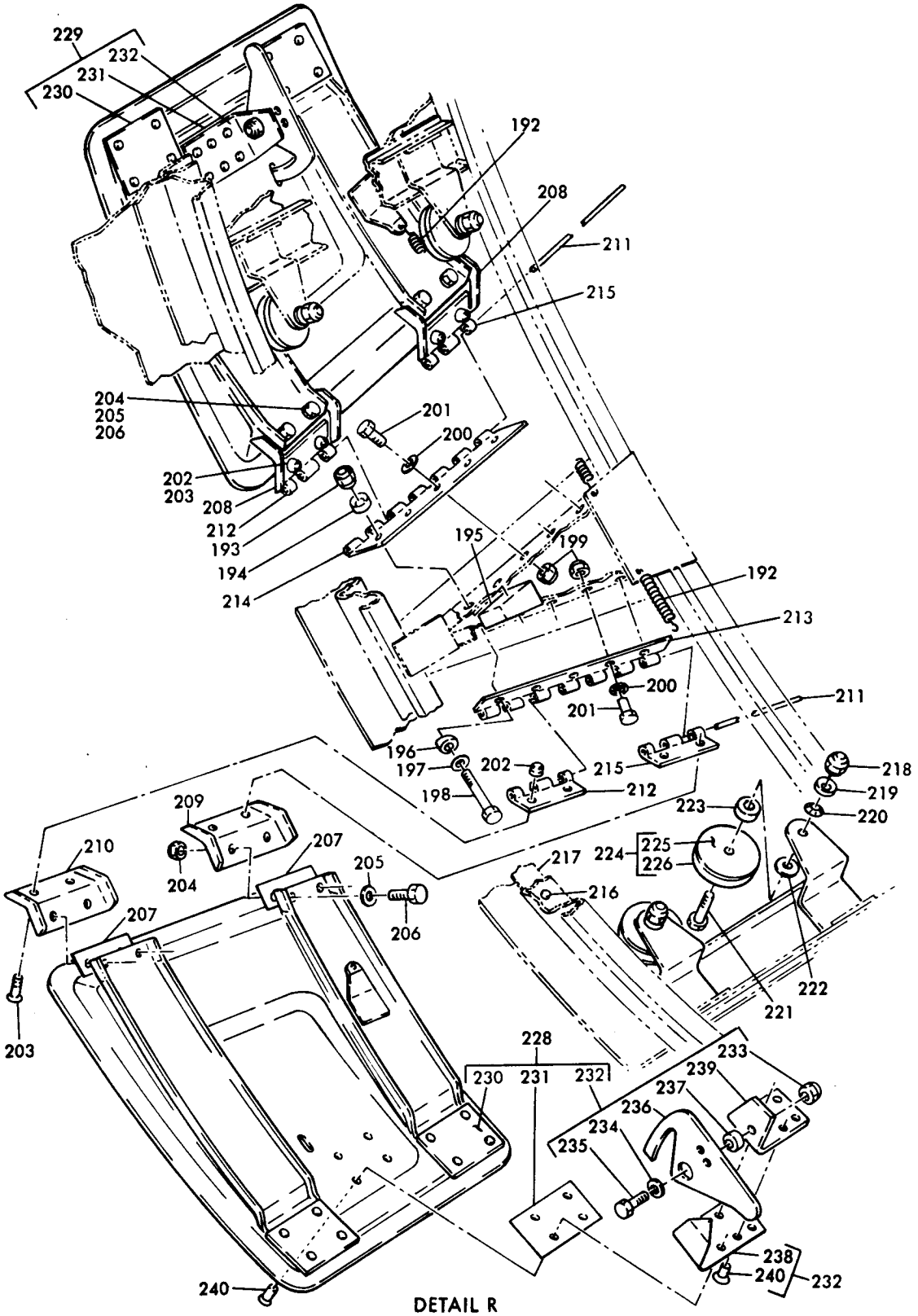
DETAIL Q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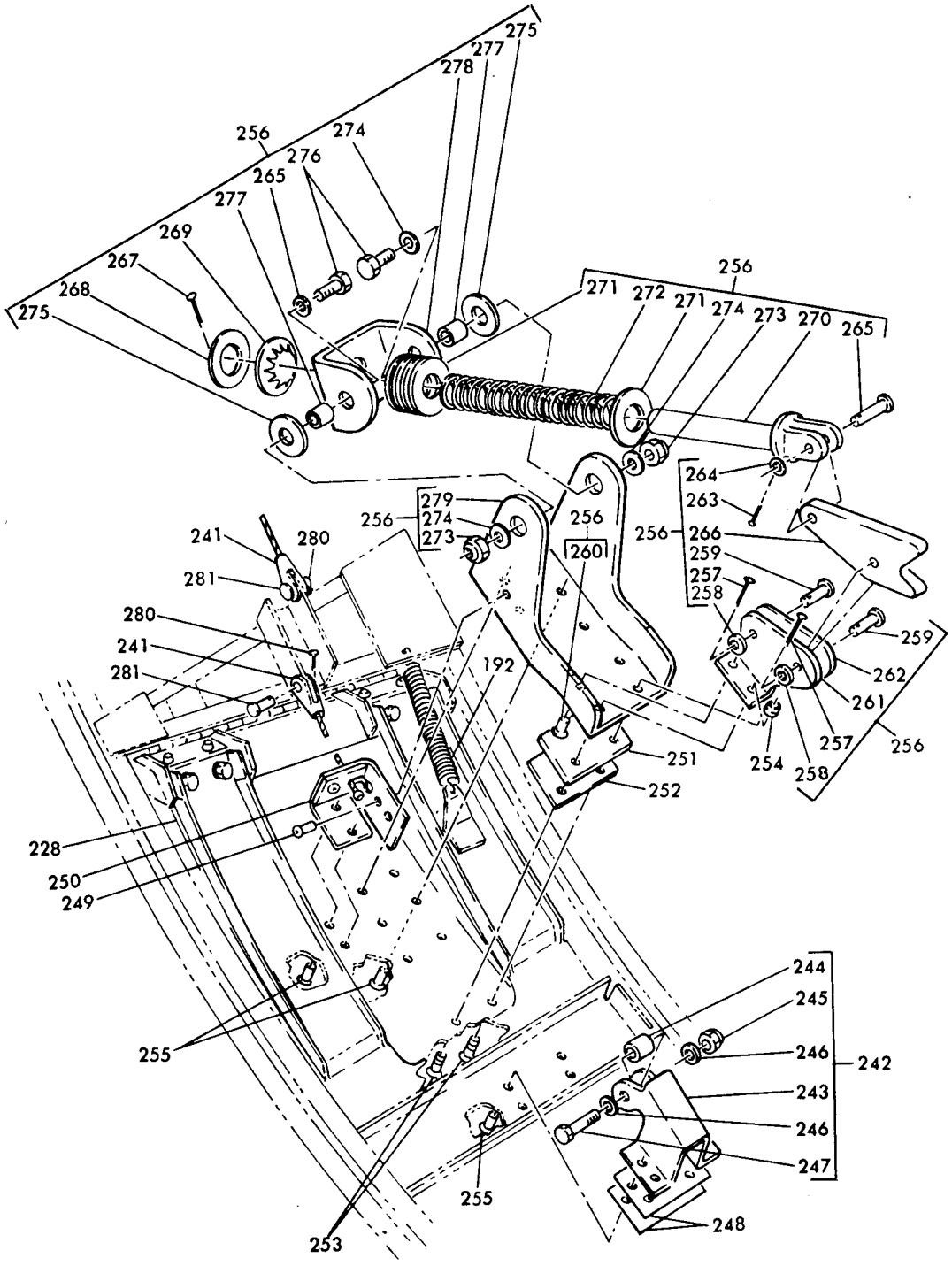
DETAIL R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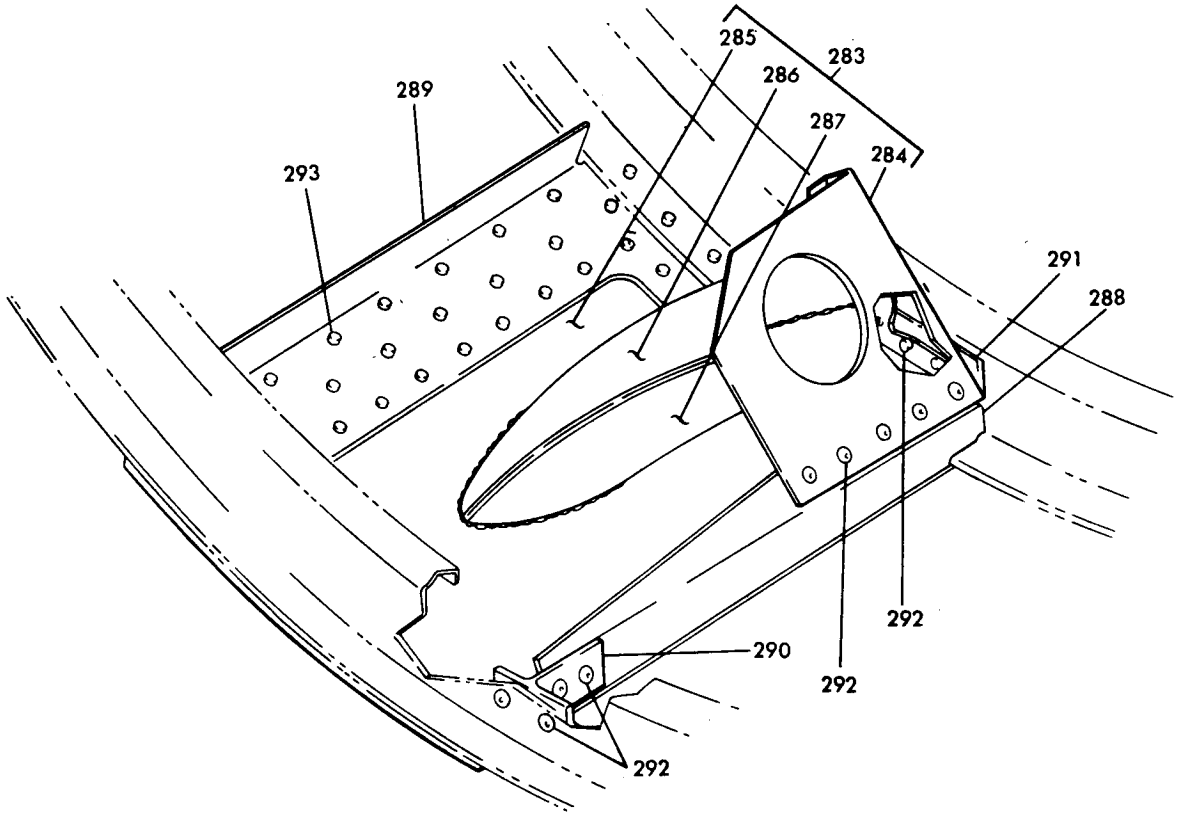
DETAIL S



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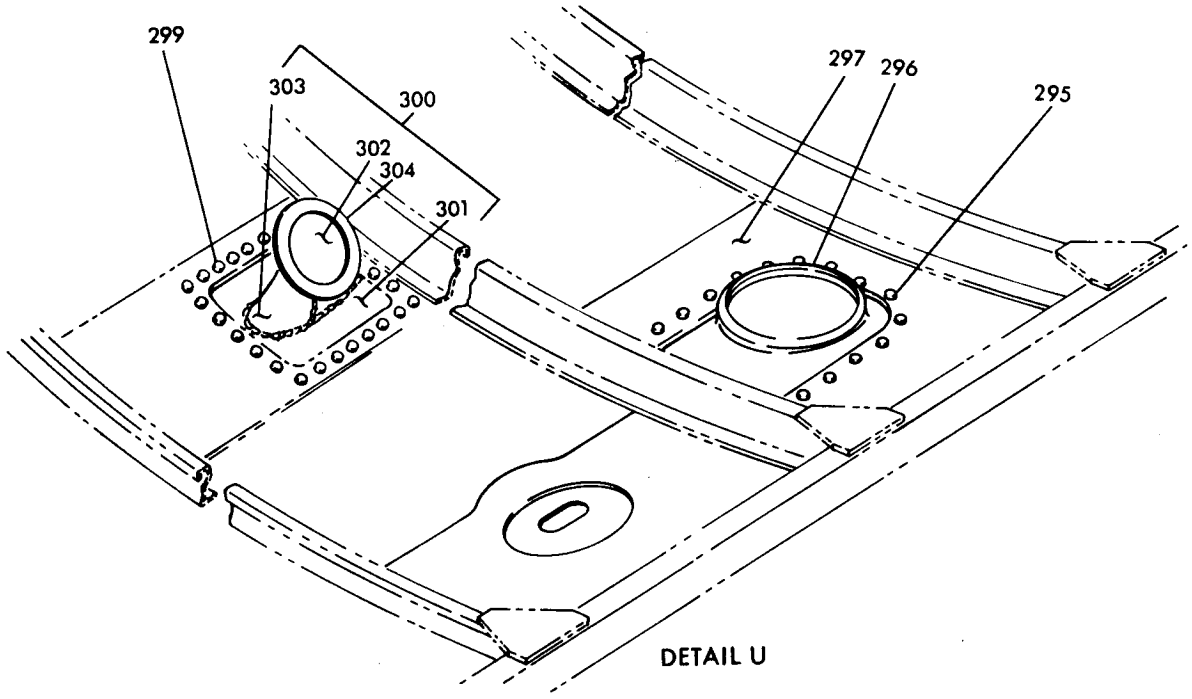
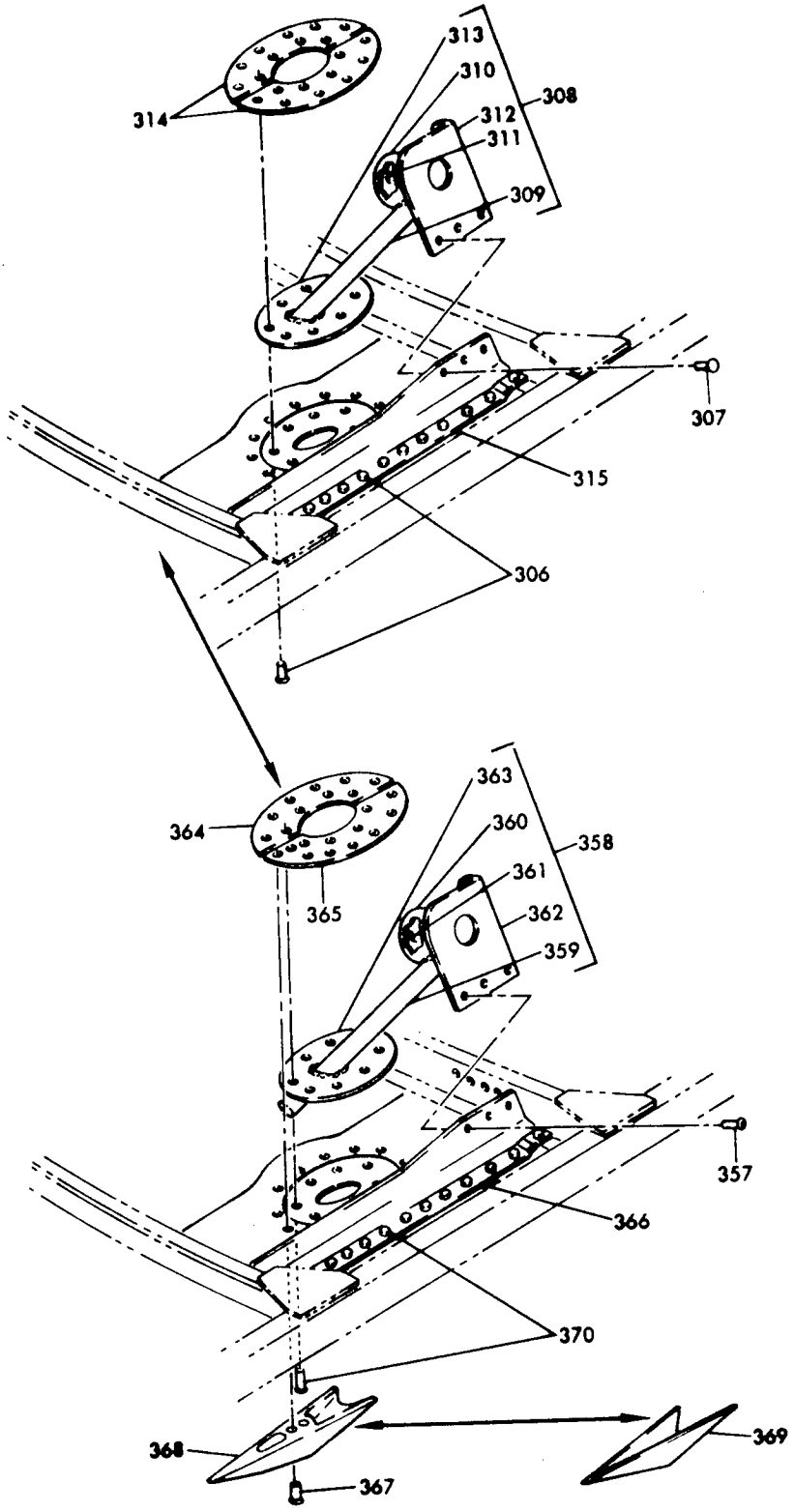


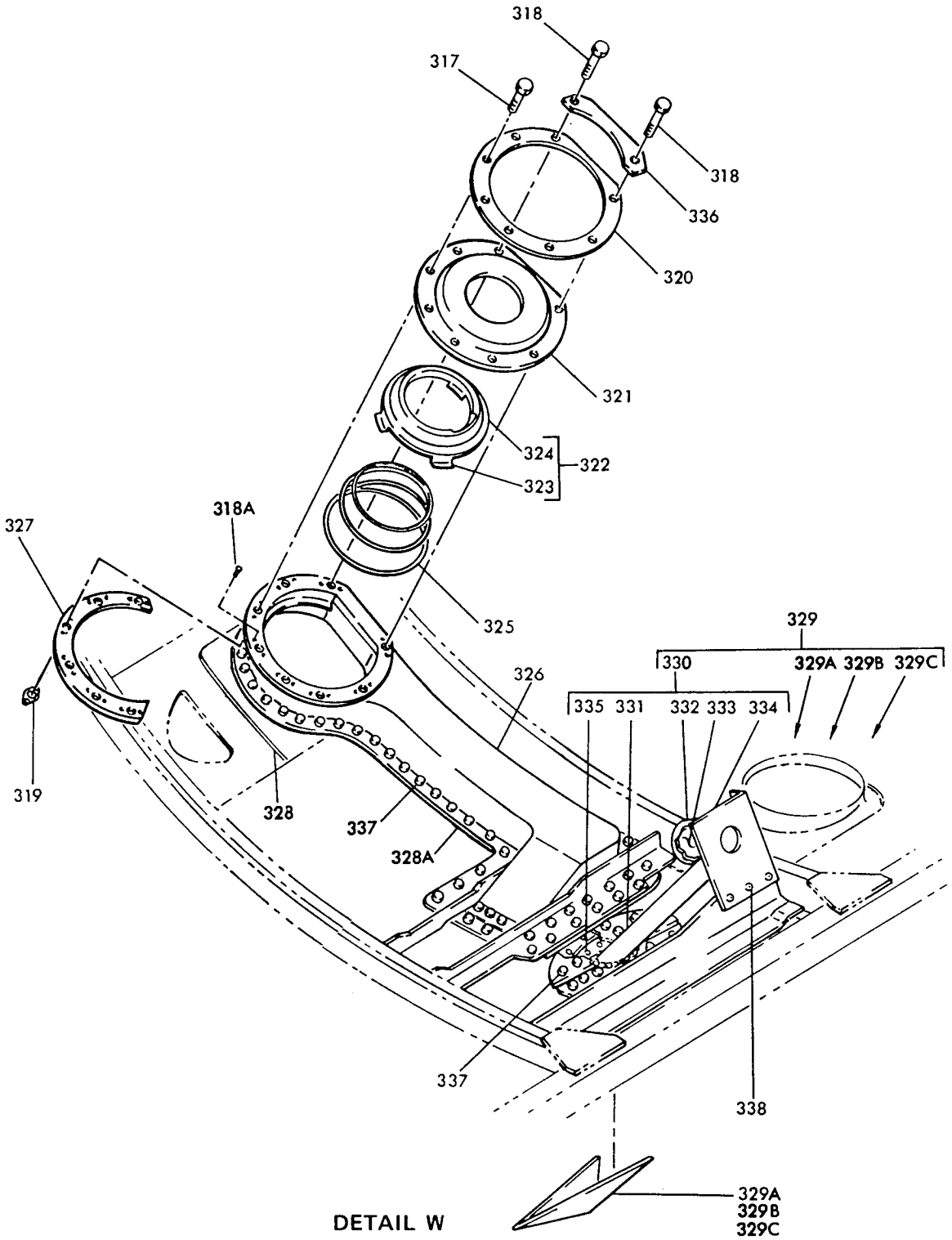
DETAIL U

Cowl Panel Assembly, LH
Figure 1101 (Sheet 12)



DETAIL V

Cowl Panel Assembly, LH
Figure 1101 (Sheet 13)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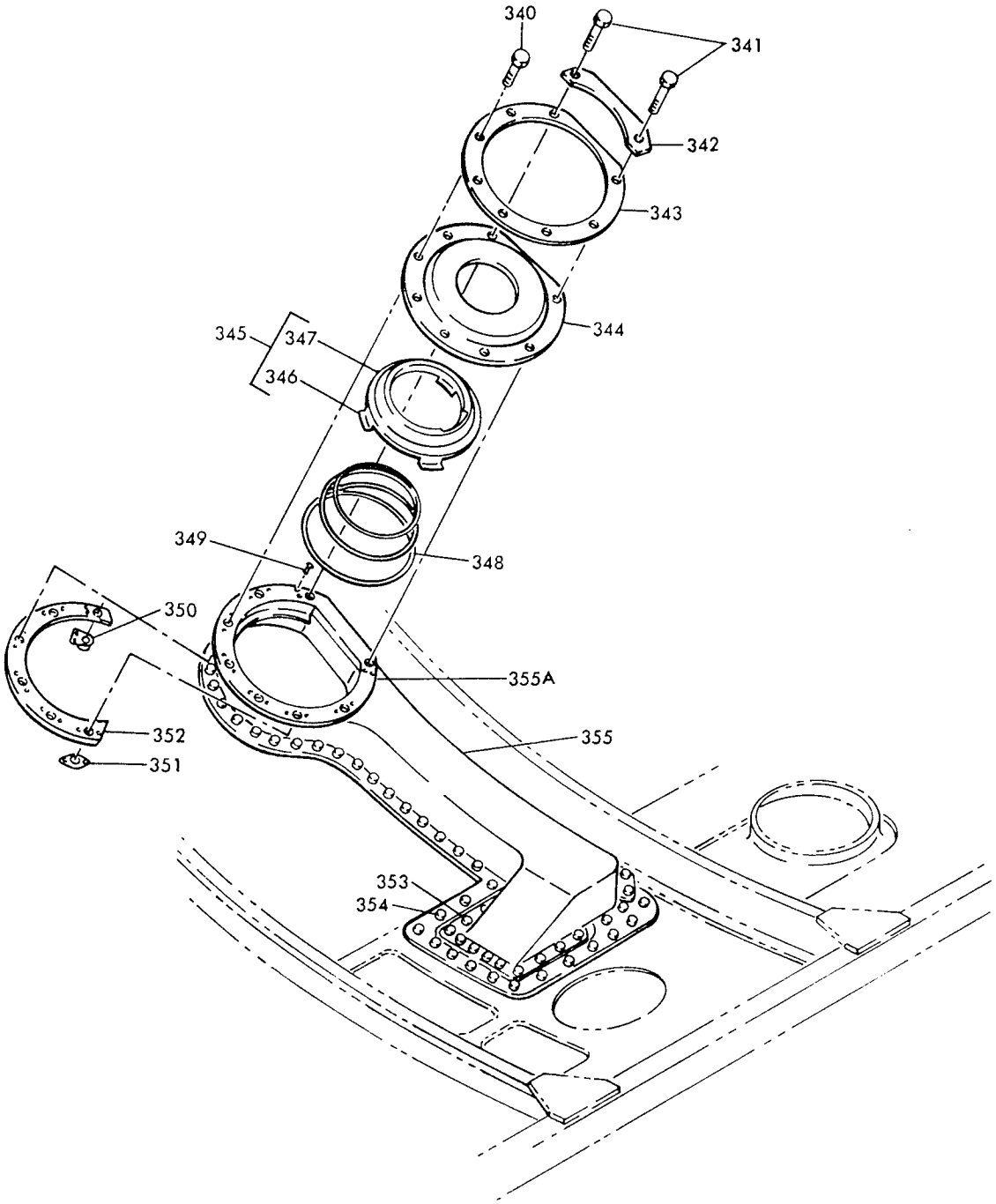
DETAIL W



DETAIL X

Cowl Panel Assembly, LH
Figure 1101 (Sheet 15)

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
1101					
	65-73773-1		COWL PANEL ASSY, LH		
	65-73773-5001		COWL PANEL ASSY, LH *[1]	A	
	65-73773-5002		COWL PANEL ASSY, LH *[1]	B	
	65-73773-5003		COWL PANEL ASSY, LH *[1]	C	
	65-73773-75		COWL PANEL ASSY, LH		
	65-73773-5004		COWL PANEL ASSY, LH *[2]	D	
	65-73773-5005		COWL PANEL ASSY, LH *[2]	E	
	65-73773-5006		COWL PANEL ASSY, LH *[2]	F	
	65-73773-91		COWL PANEL ASSY, LH	G	
1	BACN10JC4		. NUT (REPLS NAS679A4W)		2
2	AN960PD416		. WASHER		4
3	NAS1104-6		. BOLT		2
4	69-36663-1		. BAR, GUIDE		1
5	BACN10GW5		. NUT (REPLS BACN10BL5L)		12
6	AN960PD516L		. WASHER		24
7	9-66304-5		. U-BOLT		6
8	66-24481-1		. WEDGE, U-BOLT *[3]		1
9	66-24481-2		. WEDGE, U-BOLT *[3]		1
10	66-24481-3		. WEDGE, U-BOLT *[3]		1
11	AN316-5R		. NUT, CHECK		12
12	BACN10JC4		. NUT (REPLS NAS679A4W)		5
13	69-36659-1		. PIN, SHEAR		5
14	65-47966-1		. WASHER		5
15	BACR15BA5A		. RIVET (REPLS MS20426A5)		1
16	65-73773-51		. WASHER, BUMPER		1
17	BACR15CE5		. RIVET		AR
18	65-73773-33		. STRIP, WEAR		1
19	BACN10JC4		. NUT (REPLS NAS679A4W)		2
20	AN960PD416		. WASHER		2
21	NAS1104-9		. BOLT		1
22	NAS1104-7		. BOLT		1
23	65-47970-11		. HINGE		1
23	65-77472-1		DELETED		
24	65-47970-12		. HINGE		2
24	65-77472-2		DELETED		
25	65-47970-14		. HINGE		1
25	65-77472-4		DELETED		
26	BACN10JC4		. NUT (REPLS NAS679A4W)		2
27	AN960PD416		. WASHER		2
28	NAS1104-11		. BOLT		1
29	NAS1104-12		. BOLT		1
30	AN960PD416L		. WASHER		2
31	66-24175-2		. LEVER, LOCK	A-D	1
31	66-24175-3		. LEVER, LOCK (SB 71-1014)	EFG	1
31	66-24175-501		DELETED		

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
1101					
32	NAS73-4-003		. BUSHING		1
33	NAS43HT4-12		. SPACER		1
34	65-47970-11		. HINGE		1
34	65-77472-1		DELETED		
35	BACN10JC4		. NUT (REPLS NAS679A4W)		1
36	AN960PD416		. WASHER		2
37	69-36659-2		. PIN, SHEAR		1
38	BACP18AL3-08		. PIN, QUICK-RELEASE (SB 71-1014)	EFG	2
39	BACC13Y3-50		. CABLE ASSY (SB 71-1014)	EFG	2
40	BACC19B-2		. LINK, CHAIN (SB 71-1014)	EFG	2
41	BACN10JC4		. NUT (REPLS NAS679A4W)		2
42	AN960PD416		. WASHER		2
43	NAS1104-12		. BOLT		2
44	AN960PD716L		. WASHER		1
45	AN960C716L		. WASHER		1
46	66-24175-2		. LEVER, LOCK	A-D	1
46	66-24175-3		. LEVER, LOCK (SB 71-1014)	EFG	1
46	66-24175-501		DELETED		
47	NAS73-4-003		. BUSHING		1
48	NAS43HT4-12		. SPACER		1
49	65-47970-11		. HINGE		1
49	65-77472-1		DELETED		
50	BACN10JC4		. NUT (REPLS NAS679A4W)		1
51	AN960PD416		. WASHER		2
52	69-36659-2		. PIN, SHEAR		1
53	65-55748-1		. ROD INSTL, COWL SUPPORT		1
54	BACN10JC3		. . NUT (REPLS NAS679A3W)		2
55	AN960D10		. . WASHER		2
56	BACB30NE3-4		. . BOLT (REPLS NAS1303-4)		2
57	65-46695-9		. . ROD ASSY		1
58	BACN10JC4		. . . NUT (REPLS NAS679A4W)		1
59	AN960C416L		. . . WASHER		1
60	66-16151-2		. . . PLATE ASSY		1
61	BACB28B5-260		. . . . BUSHING		1
62	66-16151-3		. . . . PLATE		1
63	3502-18-04-4102		. . . WASHER, SPRING (V78189)		1
64	MS24665-151		. . . PIN, COTTER (REPLS AN381-2-8)		1
65	BACN10JD4		. . . NUT (REPLS AN310-4)		1
66	AN960-416L		. . . WASHER		2
67	BACB30NE4D7		. . . BOLT (REPLS NAS1104-7DW)		1
68	66-23351-3		. . . BOLT, EYE		1
69	5804-36-2		. . . WASHER, SPRING (V86928)		1

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
1101					
70	BACC30M5		. . . COLLAR, FASTENER ASSEMBLY		4
71	BACB30FM5-12		. . . BOLT, FASTENER ASSEMBLY		4
72	63-2892-2		. . . ROD END		1
73	65-46695-10		. . . ROD END ASSEMBLY		1
73	65-26230-18		. . . ROD END ASSEMBLY (OPT TO 65-46695-10)		1
74	BACT14B2		. . . . TERMINAL, BALL CABLE		1
75	28-1C		. . . . SLEEVE, CABLE (V76691)		1
75	BACT14A4		. . . . TERMINAL, CABLE (OPT TO 28-1C)		1
76	2		. . . . PIN, COWL (V00724)		1
77	BACC13G208-090CA		. . . . CABLE (USED ON 65-46695-10)		1
77	BACC13G208-065CA		. . . . CABLE (USED ON 65-26230-18)		1
78	66-55634		. . . . ROD END, COWL SUPPORT		1
79	65-46695-8		. . . TUBE		1
80	BACN10JC3		. NUT (REPLS NAS679A3W)		1
81	AN960D10		. WASHER		1
82	BACB30NE3-2		. BOLT (REPLS NAS1103-2)		1
83	66-8350		. CLIP, SPRING RETAINER		1
84	65-23581-18		. DOOR INSTALLATION, ENGINE OIL TANK ACCESS	A	1
84	65-23581-27		. DOOR INSTALLATION, ENGINE OIL TANK ACCESS	B-G	1
85	65-23581-10		. . DOOR ASSEMBLY		1
86	BACS21X8		. . . STUD ASSEMBLY		2
87	BACS21X5		. . . STUD ASSEMBLY		4
88	BACR12X1		. . . RING, RETAINING		6
89	BACG20X2		. . . GROMMET		6
90	65-23581-11		. . . SKIN		1
91	BACR15BA3D		. . RIVET (REPLS MS20426D3)		12
92	65-23581-17		. . FILLER		2
93	BACR11X3		. . RECEPTACLE		6
94	BACN10JC3		. . NUT (REPLS NAS679A3W)		4
95	AN960PD10L		. . WASHER		8
96	NAS1103-2W		. . BOLT		4
97	MS20253P2-714		. . PIN, HINGE		1
98	BACR15CE5D		. . RIVET		12
99	65-23581-15		. . FILLER		1
100	MS20001PY6-730		. . HINGE HALF		1
101	MS20001PX6-730		. . HINGE HALF		1

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
1101					
102	69-20854-1		. . SPRING ASSEMBLY, HINGE		1
103	MS20253P2 -215		. . . PIN		2
104	69-20854-2		. . . HINGE		2
105	69-20854-3		. . . SPRING		1
106	65-51176-1		. DOOR INSTALLATION, CONSTANT SPEED DRIVE ACCESS		1
107	65-51176-2		. . DOOR ASSEMBLY		1
108	BACS21X5		. . . STUD ASSEMBLY		5
109	BACR12X1		. . . RING, RETAINING		5
110	BACG20X2		. . . GROMMET		5
111	65-51176-3		. . . DOOR		1
112	BACR15BA3D		. . RIVET (REPLS MS20426D3)		10
113	BACR11X3		. . RECEPTACLE		5
114	BACN10JC3		. . NUT (REPLS NAS679A3W)		3
115	AN960PD10L		. . WASHER		6
116	NAS1103-2W		. . BOLT		3
117	MS20253P2 -534		. . PIN, HINGE		1
118	BACR15CE5D		. . RIVET		9
119	65-51176-7		. . FILLER		1
120	MS20001PY6 -550		. . HINGE HALF		1
121	MS20001PX6 -550		. . HINGE HALF		1
122	69-20854-1		. . SPRING ASSEMBLY, HINGE		1
123	MS20253P2 -215		. . . PIN		2
124	69-20854-2		. . . HINGE		2
125	69-20854-3		. . . SPRING		1
126	65-51177-3		. DUCT INSTALLATION, PRECOOLER EXHAUST	A	1
126	65-51177-4		. DUCT INSTALLATION, PRECOOLER EXHAUST	B-G	1
127	BACN10JC3		. . NUT (REPLS NAS679A3W)		2
128	AN960-10L		. . WASHER		2
129	BACB30NE3-1		. . BOLT (USED ON 65-51177-4) (REPLS NAS1303-1)		2
129	BACB30NE3-2		. . BOLT (USED ON 65-51177-3) (REPLS NAS1303-2)		2
130	MS20615-5M		. . RIVET		6

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
1101					
131	69-48797-1		. . BRACKET, SUPPORT		1
132	BACR15CE5D		. . RIVET		AR
133	65-60567-1		. . DUCT ASSEMBLY (USED ON 65-51177-3)		1
133	65-60567-5		. . DUCT ASSEMBLY (USED ON 65-51177-3)		1
134	65-60567-2		. . . DUCT HALF, UPPER		1
135	65-60567-10		. . . DUCT HALF, LOWER		1
136	65-60567-9		. . . DOUBLER		1
137	65-60567-7		. . . BRACKET, ATTACHMENT		1
138	65-60567-8		. . . BRACKET, ATTACHMENT		1
139	65-60567-3		. . . FLANGE		1
140	65-60567-4		. . . PANEL (USED ON 65-60567-1)		1
140	65-60567-6		. . . PANEL (USED ON 65-60567-5)		1
141	65-73773-52		. SEAL	ABC	1
142	BACR15CE4D		. RIVET	ABC	AR
143	65-73773-53		. RETAINER, SEAL	ABC	1
144	69-25145-1		DELETED		
144	69-25145-3		. SEAL	ABC	1
145	66-18265-1		. PLUG, SEAL		1
146	66-18265-2		. PLUG, SEAL	ABC	1
147	65-73773-58		. SEAL	ABC	1
148	BACR15CE5D		. RIVET	ABC	1
149	BACR15CE4D		. RIVET	ABC	1
150	65-47966-27		. RETAINER ASSEMBLY	ABC	1
151	69-60414-1		. SEAL INSTALLATION (OPT TO 65-73773-76 WITH -77)	D	1
152	65-73773-52		. . SEAL		1
153	BACR15CE4D		. . RIVET		AR
154	69-60414-4		. . RETAINER, SEAL		1
155	69-60414-3		. . SEAL		1
156	BACR15CE4D5		. . RIVET		4
157	BACR15CE4D6		. . RIVET		9
158	BACR15CE5D6		. . RIVET		1
159	69-60414-2		. . RETAINER, SEAL		1
160	65-73773-76		. SEAL	EFG	1
161	BACR15CE4D		. RIVET	FG	AR
162	65-73773-77		. RETAINER, SEAL	EFG	1
163	65-51179-11		. TANK INSTALLATION, ENGINE DRAIN SYSTEM	EF	1
163	65-51179-1		. TANK INSTALLATION, ENGINE DRAIN SYSTEM	A-E	1
163	65-85821-1		. DRAIN INSTALLATION, ENGINE	G	1
164	65-55475-2		. . TUBE ASSEMBLY		1
165	MS21921-6		. . . NUT		2
166	BACS13AP6		. . . SLEEVE		2

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
1101					
167	BACR15CE5D		. . RIVET		8
168	BACF22R6-2		. . FLANGE		1
169	BACN10JC3		. . NUT (REPLS NAS679A3W)		3
170	AN960D10		. . WASHER		6
171	NAS1103-3		. . BOLT		3
172	65-54431-1		. . FITTING		1
173	AN814-4D		. . PLUG (USED ON 65-51179-1,-11)		1
174	BACP11PB4		. . PACKING, O-RING (USED ON 65-51179-1,-11)		1
175	65-51179-2		. . TANK ASSEMBLY (USED ON 65-51179-1)		1
175	65-51179-12		. . TANK ASSEMBLY (USED ON 65-51179-11)		1
176	65-51179-3		. . . TUBE		1
177	65-51179-5		. . . CAP		1
178	65-51179-4		. . . TUBE		1
179	65-51179-6		. . . BRACKET		1
180	65-54497-800		. . . TANK		1
181	BACR15BB5D		. . RIVET (REPLS MS20470D5)(USED ON 65-51179-1,-11)		4
182	BACR15DJ5-4		. . RIVET (USED ON 65-51179-1,-11)		19
183	BACR15CE5D		. . RIVET (USED ON 65-51179-1,-11)		13
184	CR2539-6-2		. . RIVET (V11815)(USED ON 5-51179-1,-11)		9
184	NAS1398M		. . RIVET (OPT TO CR2539-6-2)(USED ON 65-51179-1,-11)		9
185	BACR15JP6-2		. . RIVET		10
186	65-54497-801		. . DOOR (USED ON 65-51179-1,-11)		1
187	BACC30M5		. . COLLAR (USED ON 65-51179-1,-11)		18
188	BACB30FN5-3		. . BOLT (USED ON 65-51179-1,-11)		18
189	65-53745-1		. . FITTING, DRAIN MAST		1
190	65-53745-800		DELETED		
191	65-47972-1		. STRUCTURE INSTALLATION, PRESSURE RELIEF DOOR	AB	1
191	65-47972-56		. STRUCTURE INSTALLATION, PRESSURE RELIEF DOOR	AC-G	1
192	MS24586-604		. . SPRING		2
193	BACN10FD35		. . NUT (USED ON 65-47972-1)		1
194	BACW10AN3		. . WASHER (USED ON 65-47972-1)		1
195	65-47972-40		. . SPACER		1
196	65-47972-800		. . FILLER		1
197	AN960-10L		. . WASHER		1
198	BACB30NE3-13		. . BOLT (REPLS NAS1303-13)		1
199	BACN10JC3		. . NUT (REPLS NAS679A3W)		8

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
1101					
200	AN960-10L		. . WASHER		8
201	BACB30NE3-2		. . BOLT (REPLS NAS1303-2)		8
202	BACC30M6		. . COLLAR		8
203	BACB30FN6-2		. . BOLT		8
204	BACN10JC3		. . NUT (REPLS NAS679A3W)		8
205	AN960-10L		. . WASHER		8
206	BACB30NE3-2		. . BOLT (REPLS NAS1303-2)		8
207	BACS40R9C20		. . SHIM		4
208	65-47972-39		. . EXTENSION		2
209	65-47972-38		. . EXTENSION		1
210	65-47972-803		. . EXTENSION		1
211	MS20253P4-760		. . PIN, HINGE		2
212	65-47972-34		. . HINGE		2
213	65-47972-35		. . HINGE		1
214	65-47972-36		. . HINGE		1
215	65-47972-37		. . HINGE		2
216	BACR15CE5D		. . RIVET		AR
217	65-47972-26		. . STRIP, RUB		1
218	BACN10FD45		. . NUT (USED ON 65-47972-1)		4
219	BACW10AN4		. . WASHER (USED ON 65-47972-1)		4
220	3539-14-02-4102		. . SPRING, WASHER (V78189)(USED ON 65-47972-1)		4
221	BACB30NE4-5		. . BOLT (REPLS NAS1304-5)(USED ON 65-47972-1)		4
222	BACS40R8C8		. . SHIM (USED ON 65-47972-1)		4
223	65-47972-27		. . GIMBAL (USED ON 65-47972-1) (SB 71-1002)		4
224	69-48211-1		. . MAGNET ASSEMBLY (USED ON 65-47972-1) (SB 71-1002)		4
225	69-48211-2		. . . PLATE		1
226	69-48211-3		. . . MAGNET		1
227	65-47972-54		. DOOR INSTALLATION	AB	1
227	65-47972-55		. DOOR INSTALLATION	B	1
227	65-47972-57		. DOOR INSTALLATION	AC-G	1
228	65-47972-2		. . DOOR ASSEMBLY (USED ON 65-47972-54) (SB 71-1005)		1
228	65-47972-52		. . DOOR ASSEMBLY (USED ON 65-47972-55)		1
228	65-47972-59		. . DOOR ASSEMBLY (USED ON 65-47972-57)		1
229	65-47972-3		. . DOOR ASSEMBLY (USED ON 65-47972-54) (SB 71-1005)		1
229	65-47972-53		. . DOOR ASSEMBLY (USED ON 65-47972-55)		1

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
1101					
229	65-47972-60		. . DOOR ASSEMBLY (USED ON 65-47972-57)		1
229A	BACR15BA5D		. . . RIVET (REPLS MS20426D5)		8
230	65-47972-12		. . . CAP, MAGNET (USED ON 65-47972-2,-3,-52, AND -53) (SB 71-1002)		2
231	BACS40A18-32		. . . SHIM (USED ON 65-47972-52 AND -53) (SB 71-1005)		1
232	65-53896-1		. . . INDICATOR ASSEMBLY (USED ON 65-47972-52 AND -53) (SB 71-1005 AND 71-1002)		1
233	BACN10JC3		. . . . NUT (REPLS NAS679A3W)		1
234	AN960-10L		. . . . WASHER		1
235	NAS1103-3		. . . . BOLT		1
236	69-53896-800		. . . . INDICATOR		1
237	NAS75-3-004		. . . . BUSHING		1
238	69-53896-4		. . . . SPRING		1
239	69-53896-2		. . . . BRACKET		1
240	BACR15BA5D		. . . . RIVET (REPLS MS20426D5) (SB 71-1005)		AR
241	BACC13AN3R50		. . . CABLE ASSEMBLY (USED ON 65-47972-59 AND -60) (SB 71-1002)		1
242	65-90029-7		. . CATCH ASSEMBLY (SB 71-1002)		2
242	65-69614-11		. . CATCH ASSEMBLY (USED ON 65-47972-56)		2
243	65-69614-12		. . . CATCH		1
244	NAS75-3-020		. . . BUSHING		1
245	BACN10JC4		. . . NUT (REPLS NAS679A4W)		1
246	AN960-10L		. . . WASHER		2
247	NAS1103-12		. . . BOLT		1
248	BACS40R7D13		. . SHIM (USED ON 65-47972-59 AND -60) (SB 71-1002)		2
249	BACR15BB5D		. . RIVET (REPLS MS20470D5)		2
250	65-90029-8		. . CLIP (SB 71-1002)		1
250	65-69614-13		. . CLIP (USED ON 65-47972-59 AND -60) (SB 71-1002)		1
251	65-47972-63		. . FILLER (USED ON 65-47972-59 AND -60) (SB 71-1002)		1
252	BACS40R12D16		. . SHIM (USED ON 65-47972-59 AND -60) (SB 71-1002)		1
253	BACB30FN5		. . BOLT		4
254	BACC30M		. . COLLAR		4
255	BACR15CE5D		. . RIVET		24

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
1101					
256	65-69614-1		. . LATCH ASSEMBLY (USED ON 65-47972-59) (SB 71-1002)		1
256	65-69614-2		. . LATCH ASSEMBLY (USED ON 65-47972-60) (SB 71-1002)		1
257	MS24665-134		. . . PIN, COTTER		2
258	AN960-10L		. . . WASHER		2
259	MS20392-2C13		. . . PIN		2
260	BACR15CE5D		. . . RIVET		2
261	65-69614-5		. . . SUPPORT, LATCH (USED ON 65-69614-1)		1
261	65-69614-7		. . . SUPPORT, LATCH (USED ON 65-69614-2)		1
262	65-69614-6		. . . SUPPORT, LATCH (USED ON 65-69614-1)		1
262	65-69614-8		. . . SUPPORT, LATCH (USED ON 65-69614-2)		1
263	MS24665-134		. . . PIN, COTTER		1
264	AN960PD4		. . . WASHER		1
265	MS20392-1C17		. . . PIN		1
266	65-69614-9		. . . LATCH		1
267	MS24665-287		. . . PIN, COTTER		1
268	AN960-916L		. . . WASHER		1
269	3502-26-01		. . . WASHER, SPRING (V78189)		1
270	69-55931-1		. . . CORE, SPRING		1
271	AN960-916L		. . . WASHER		5
272	69-50747-1		. . . SPRING, COMPRESSION		1
273	BACN10JC3		. . . NUT (REPLS NAS679A3W)		2
274	AN960-10L		. . . WASHER		4
275	AN960PD616L		. . . WASHER		2
276	BACB30NE3-3		. . . BOLT (REPLS NAS1103-3)		2
277	NAS73-3-002		. . . BUSHING		2
278	65-69614-10		. . . HOLDER, SPRING		1
279	65-69614-3		. . . HOUSING, LATCH (USED ON 65-69614-1)		1
279	65-69614-4		. . . HOUSING, LATCH (USED ON 65-69614-2)		1
280	MS24665-151		. . PIN, COTTER (USED ON 65-47972-56) (SB 71-1002)		2
281	MS20392-2C9		. . PIN (USED ON 65-47972-56) (SB 71-1002)		2
282	65-51175-1		. DUCT INSTALLATION, FUEL HEATER EXHAUST		1
283	65-51175-2		. . DUCT ASSEMBLY		1
284	65-51175-3		. . . BRACKET		1

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
1101					
285	65-51175-4		. . . PANEL		1
286	65-51175-5		. . . DUCT HALF		1
287	65-51175-6		. . . DUCT HALF		1
288	65-51175-7		. . CHANNEL		1
289	65-51175-8		. . DOUBLER		1
290	69-17242-1		. . TEE		1
291	BACS40L14-52		. . SHIM		1
292	BACR15BB5D		. . RIVET (REPLS MS20470D5)		AR
293	BACR15CE5D		. . RIVET		AR
294	65-27958-4		. LOUVER INSTALLATION, COWL VENT	A	1
294	65-27958-6		. LOUVER INSTALLATION, COWL VENT	B-G	1
295	BACR15CE5D		. . RIVET		AR
296	65-27958-3		. . LOUVER		1
297	65-27958-5		. . PLATE (USED ON 65-27958-4)		1
297	65-27958-7		. . PLATE (USED ON 65-27958-6)		1
298	65-47963-1		. DUCT INSTALLATION, GEARBOX BREATHER	A	1
299	BACR15CE5D		. . RIVET		AR
300	65-47963-2		. . DUCT ASSEMBLY		1
301	65-47963-3		. . . PLATE		1
302	65-47963-4		. . . DUCT HALF		1
303	65-47963-5		. . . DUCT HALF		1
304	65-47963-6		. . . PLATE		1
305	65-51178-1		. DRAIN INSTALLATION, ENGINE ACCESSORIES	A	1
306	BACR15CE5D		. . RIVET		AR
307	BACR15BB5D		. . RIVET (REPLS MS20470D5)		7
308	65-51178-2		. . DRAIN ASSEMBLY		1
309	65-51178-3		. . . TUBE		1
310	65-51178-4		. . . TUBE		1
311	65-51178-5		. . . CAP		1
312	65-51178-6		. . . BRACKET		1
313	65-51178-7		. . . PAD		1
314	65-51178-8		. . DOUBLER		2
315	65-51178-9		. . BRACKET		1
316	65-63370-1		. COWL PANEL ASSEMBLY	A	1
317	BACS12CB3-10		. . SCREW		6
318	BACS12CB3-13		. . SCREW		2
318A	BACR15BA3D		. . RIVET (REPLS MS20426D3)		16
319	BACN10JN3		. . NUTPLATE (REPLS NAS1068A3)		8
320	69-48994-1		. . RING, RETAINER		1
321	69-48993-1		. . SEAL, RUBBER.		1
322	69-49768-1		. . RETAINER ASSEMBLY, SPRING (SB 71-1004)		1

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
1101					
323	69-49768-2		. . . CLIP		3
324	69-48992-2		. . . RETAINER, SPRING		1
325	69-48991-1		. . SPRING, COMPRESSION		1
326	65-61783-2		. . WELD ASSEMBLY, DUST		1
327	65-61783-11		. . RING, REINFORCING		1
328	65-63370-10		. . LINER		1
328A	65-61783-10		. . SHIM		1
329	65-63370-11		. . BRAZE ASSEMBLY, DRAIN		1
329A	65-63370-12		. . . FAIRING		1
329B	65-63370-13		. . . FAIRING		1
329C	65-63370-14		. . . BASE		1
330	65-51178-11		. . . DRAIN ASSEMBLY		1
331	65-51178-14		. . . . TUBE		1
332	65-51178-4		. . . . TUBE		1
333	65-51178-5		. . . . CAP		1
334	65-51178-6		. . . . BRACKET		1
335	65-51178-7		. . . . PAD		1
336	69-48994-2		. . DOUBLER		1
337	BACR15CE5D		. . RIVET		AR
338	BACR15BB5D		. . RIVET (REPLS MS20470D5)		7
339	65-61783-1		. DUCT INSTALLATION, GEARBOX BREATHER	B-G	1
339	65-61783-16		. DUCT INSTALLATION, GEARBOX BREATHER	B-G	1
340	BACS12CB3-10		. . SCREW		6
341	BACS12CB3-13		. . SCREW		2
342	69-48994-2		. . DOUBLER		1
343	69-48994-1		. . RING, RETAINER *[4] (USED ON 65-61783-16)		1
343	69-48994-3		. . RING, RETAINER *[4] (USED ON 65-61783-1)		1
344	69-48993-1		. . SEAL, RUBBER *[4] (USED ON 65-61783-16)		1
344	69-48993-2		. . SEAL, RUBBER *[4] (USED ON 65-61783-1)		1
345	69-49768-1		. . RETAINER ASSEMBLY, SPRING (USED ON 65-61783-1)(SB 71-1004)		1
345	65-61783-17		. . RETAINER, SPRING (USED ON 65-61783-16)(SB 71-1004)		1
346	69-49768-2		. . . CLIP		3
347	69-48992-2		. . . RETAINER, SPRING		1
348	69-48991-1		. . SPRING, COMPRESSION		1
349	BACR15BA3D		. . RIVET (REPLS MS20426D3)		16
350	BACN10PC3		. . NUTPLATE		2
351	BACN10JN3		. . NUTPLATE (REPLS NAS1068A3)		6

FIG. & ITEM NO.	PART NO.	AIRLINE PART NUMBER	NOMENCLATURE 1 2 3 4 5 6 7	USE CODE	QTY PER ASSY
1101					
352	65-61783-11		. . RING, REINFORCING (USED ON 65-61783-16)		1
352	65-61783-14		DELETED		
353	BACR15BA5D		. . RIVET (REPLS MS20426D5)		12
354	BACR15CE5D		. . RIVET		AR
355	65-61783-2		. . WELD ASSEMBLY, DUCT *[4] (USED ON 65-61783-16)		1
355	65-61783-12		. . WELD ASSEMBLY, DUCT *[4] (USED ON 65-61783-1)		1
355A	65-61783-14		. . . RING, SEAL (USED ON 65-61783-12)		1
356	65-51178-10		. DRAIN INSTALLATION, ENGINE ACCESSORIES	B-G	1
357	BACR15BB5D		. . RIVET (REPLS MS20470D5)		7
358	65-51178-11		. . DRAIN ASSEMBLY *[5]		1
359	65-51178-14		. . . TUBE		1
360	65-51178-4		. . . TUBE		1
361	65-51178-5		. . . CAP		1
362	65-51178-6		. . . BRACKET		1
363	65-51178-7		. . . PAD		1
364	65-51178-8		. . DOUBLER		1
365	65-51178-15		. . DOUBLER		1
366	65-51178-9		. . BRACKET		1
367	BACR15CE4D		. . RIVET		2
368	65-62526-1		. . FAIRING *[5]		1
369	65-63370-11		. . BRAZE ASSEMBLY *[5]		1
370	BACR15CE5D		. . RIVET		AR
371	BAC27DPP2		. METAL-CAL		1
372	BACN10JC3		. NUT (REPLS NAS679A3W)		2
373	AN960C10L		. WASHER		4
374	NAS1103-4		. BOLT		2
375	65-73773-71		. CLIP, WEAR		1
376	BACR15BB5		. RIVET (REPLS MS20470D5)		4
377	MS27253-1		. PLATE, IDENTIFICATION		1
378	BAC27DPP38		. DECAL (SB 71-1014)	EFG	2

*[1] For spares order 65-73773-1. 65-73773-5001, -5002, and -5003 are variable assemblies of 65-73773-1.

*[2] For spares order 65-73773-75. 65-73773-5004, 65-73773-5005 and 65-73773-5006 are variable assemblies of 65-73773-75.

*[3] 66-24481-1 wedge is on U-bolt below engine cowl precooler exhaust. 66-24481-2 wedge is on U-bolt aft of pressure relief doors. 66-24481-3 wedge is on aft U-bolt of cowl assembly.

*[4] Limited use.

*[5] 65-63370-11 is optional to the combination of 65-51178-11 and 65-62526-1.

VENDORS

V00724 Electronic Communications Inc., 1501 North 72nd Street, St. Petersburg, Florida 33733

V11815 Townsend Company, Cherry Rivet Division, 1224 E. Warner Avenue, Santa Ana, California 92707

V76691 National Telephone Supply Co. Inc., 5100 Superior Avenue, Cleveland, Ohio 44103

V78189 Shakeproof Div. of Illinois Tool Works Inc., St. Charles Road, Elgin, Illinois 60120

V86928 Seastrom Mfg. Co. Inc., 701 Sonora Avenue, Glendale, California 91201

3. Numerical Parts List Index

Part No.	Fig. and Index No.	Qty. per Assy.
AN310-4	1101-	AR
AN316-5R		AR
AN381-2-8		AR
AN814-4D		AR
AN960-10L		AR
AN960-416L		AR
AN960-916L		AR
AN960C10L		AR
AN960C416L		AR
AN960C716L		AR
AN960D10		AR
AN960P10		AR
AN960PD10L		AR
AN960PD4		AR
AN960PD416		AR
AN960PD416L		AR
AN960PD516L		AR
AN960PD616L		AR
AN960PD716L		AR
BAC27DPP2	371	1
BAC27DPP38	378	2
BACBFN6-2	203	8
BACB28B5-260	61	1
BACB30FM5-12	71	4
BACB30FN5	253	2
BACB30FN5-3	188	18
BACB30NE3-1	129	2
BACB30NE3-13	198	1
BACB30NE3-2	82	1
BACB30NE3-2	129	2
BACB30NE3-2	201	8
BACB30NE3-2	206	8
BACB30NE3-3	276	2
BACB30NE3-4	56	2
BACB30NE4-5	221	4
BACB30NE4D7	67	1
BACC13AN3R50	241	1
BACC13G208-065CA	77	1
BACC13G208-090CA	77	1
BACC13Y3-50	39	2
BACC19B-2	40	2
BACC30M	254	2

Part No.	Fig. and Index No.	Qty. per Assy.
BACC30M5	70	4
BACC30M5	187	18
BACC30M6	202	8
BACF22R6-2	168	1
BACG20X2	89	6
BACG20X2	110	5
BACN10BL5L	5	12
BACN10FD35	193	1
BACN10FD45	218	4
BACN10GW5	5	12
BACN10JC3	54	2
BACN10JC3	80	1
BACN10JC3	94	4
BACN10JC3	114	3
BACN10JC3	127	2
BACN10JC3	169	3
BACN10JC3	204	8
BACN10JC3	233	1
BACN10JC3	372	2
BACN10JC3	273	2
BACN10JC4	1	2
BACN10JC4	12	5
BACN10JC4	19	2
BACN10JC4	26	2
BACN10JC4	35	1
BACN10JC4	41	2
BACN10JC4	50	1
BACN10JC4	58	1
BACN10JC4	245	1
BACN10JD4	65	1
BACN10JN3	319	8
BACN10JN3	351	6
BACN10PC3	350	2
BACP11PB4	174	1
BACP18AL3-08	38	2
BACR11X3	93	6
BACR11X3	113	5
BACR12X1	88	6
BACR12X1	109	5
BACR15BA3D	91	12
BACR15BA3D	112	10
BACR15BA3D	318A	16
BACR15BA5A	15	1
BACR15BA5D	229A	1

Part No.	Fig. and Index No.	Qty. per Assy.
BACR15BA5D	1101-240	AR
BACR15BA5D	353	12
BACR15BB5D	181	4
BACR15BB5D	249	2
BACR15BB5D	292	AR
BACR15BB5D	307	7
BACR15BB5D	338	7
BACR15BB5D	357	7
BACR15CE4D	142	AR
BACR15CE4D	149	1
BACR15CE4D	153	AR
BACR15CE4D	161	AR
BACR15CE4D	367	2
BACR15CE4D5	156	4
BACR15CE4D6	157	9
BACR15CE5D	17	AR
BACR15CE5D	98	12
BACR15CE5D	132	AR
BACR15CE5D	118	9
BACR15CE5D	148	1
BACR15CE5D	167	8
BACR15CE5D	183	13
BACR15CE5D	216	AR
BACR15CE5D	255	12
BACR15CE5D	260	2
BACR15CE5D	293	AR
BACR15CE5D	295	AR
BACR15CE5D	354	AR
BACR15CE5D	370	AR
BACR15CE5D6	158	1
BACR15DJ-P6-2	185	10
BACR15DJ5-4	182	14
BACS12CB3-10	317	6
BACS12CB3-10	340	6
BACS12CB3-13	318	2
BACS12CB3-13	341	2
BACS13AP6	166	2
BACS21X5	87	4
BACS21X5	108	5
BACS21X8	86	2
BACS40R12D16	252	1
BACS40R7D13	248	2

Part No.	Fig. and Index No.	Qty. per Assy.
BACS40R8C8	222	4
BACS40R9C20	207	4
BACS40A18-32	231	1
BACS40L14-52	291	1
BACT14A4	75	1
BACT14B2	74	1
BACW10AN3	194	1
BACW10AN4	219	4
CR2539-6-2	184	9
MS20001PX6-550		AR
MS20001PX6-730		AR
MS20001PY6-550		AR
MS20001PY6-730	100	1
MS20253P2-215		AR
MS20253P2-534		AR
MS20253P2-714		AR
MS20253P4-760		AR
MS20392-1C17		AR
MS20392-2C13		AR
MS20392-2C9		AR
MS20426A5		AR
MS20426D		AR
MS20426D3		AR
MS20426D5		AR
MS20470D5		AR
MS20604B3		AR
MS20615-5M		AR
MS21921-6		AR
MS24586-604		AR
MS24665-134		AR
MS24665-151		AR
MS24665-287		AR
MS27253-1		AR
NAS1068A3		AR
NAS1103-12		AR
NAS1103-2W		AR
NAS1103-3		AR
NAS1103-4		AR
NAS1104-11		AR

Part No.	Fig. and Index No.	Qty. per Assy.
NAS1104-12	1101-	AR
NAS1104-6		AR
NAS1104-7		AR
NAS1104-7DW		AR
NAS1104-9		AR
NAS1303-1		AR
NAS1303-13		AR
NAS1303-2		AR
NAS1303-4		AR
NAS1304-5		AR
NAS1398M		AR
NAS43HT4-12		AR
NAS679A3W		AR
NAS679A4W		AR
NAS73-3-002		AR
NAS73-4-003		AR
NAS75-3-004		AR
NAS75-3-020		AR
2	76	1
28-1C	75	1
3502-18-04-4102	63	1
3502-26-01	269	1
3539-14-02-4102	220	4
5804-36-2	69	1
63-2892-2	72	1
65-23581-10	85	1
65-23581-11	90	1
65-23581-15	99	1
65-23581-17	92	2
65-23581-18	84	1
65-23581-27	84	1
65-26230-18	73	1
65-27958-3	296	1
65-27958-4	294	1
65-27958-5	297	1
65-27958-6	294	1
65-27958-7	297	1
65-46695-10	73	1

Part No.	Fig. and Index No.	Qty. per Assy.
65-46695-8	79	1
65-46695-9	57	1
65-47963-1	298	1
65-47963-2	300	1
65-47963-3	301	1
65-47963-4	302	1
65-47963-5	303	1
65-47963-6	304	1
65-47966-1	14	5
65-47966-27	150	1
65-47970-11	23	1
65-47970-11	34	1
65-47970-11	49	1
65-47970-12	24	2
65-47970-14	25	1
65-47972-1	191	1
65-47972-2	228	1
65-47972-3	229	1
65-47972-12	230	2
65-47972-26	217	1
65-47972-27	223	4
65-47972-34	212	2
65-47972-35	213	1
65-47972-36	214	1
65-47972-37	215	2
65-47972-38	209	1
65-47972-39	208	2
65-47972-40	195	1
65-47972-52	228	1
65-47972-53	229	1
65-47972-54	227	1
65-47972-55	227	1
65-47972-56	191	1
65-47972-57	227	1
65-47972-59	228	1
65-47972-60	229	1
65-47972-63	251	1
65-47972-800	196	1
65-47972-803	210	1
65-51175-1	282	1
65-51175-2	283	1
65-51175-3	284	1

Part No.	Fig. and Index No.	Qty. per Assy.
65-51175-4	1101-285	1
65-51175-5	286	1
65-51175-6	287	1
65-51175-7	288	1
65-51175-8	289	1
65-51176-1	106	1
65-51176-2	107	1
65-51176-3	111	1
65-51176-7	119	1
65-51177-3	126	1
65-51177-4	126	1
65-51178-1	305	1
65-51178-2	308	1
65-51178-3	309	1
65-51178-4	310	1
65-51178-4	332	1
65-51178-4	360	1
65-51178-5	311	1
65-51178-5	333	1
65-51178-5	361	1
65-51178-6	312	1
65-51178-6	334	1
65-51178-7	313	1
65-51178-7	335	1
65-51178-7	363	1
65-51178-8	314	2
65-51178-8	364	1
65-51178-9	315	1
65-51178-9	366	1
65-51178-10	356	1
65-51178-11	330	1
65-51178-11	358	1
65-51178-13	362	1
65-51178-14	331	1
65-51178-14	359	1
65-51178-15	365	1
65-51179-1	163	1
65-51179-11	163	1
65-51179-12	175	1
65-51179-2	175	1
65-51179-3	176	1
65-51179-4	178	1
65-51179-5	177	1
65-51179-6	179	1

Part No.	Fig. and Index No.	Qty. per Assy.
65-53745-1	189	1
65-53745-800	190	1
65-54431-1	172	1
65-55475-2	164	1
65-54497-800	180	1
65-54497-801	186	1
65-55748-1	53	1
65-60567-1	133	1
65-60567-2	134	1
65-60567-3	139	1
65-60567-4	140	1
65-60567-5	133	1
65-60567-6	140	1
65-60567-7	137	1
65-60567-8	138	1
65-60567-9	136	1
65-60567-10	135	1
65-61783-1	339	1
65-61783-2	326	1
65-61783-2	355	1
65-61783-10	328A	1
65-61783-11	327	1
65-61783-11	352	1
65-61783-12	355	1
65-61783-14	355A	1
65-61783-16	339	1
65-61783-17	345	1
65-62526-1	368	1
65-63370-1	316	1
65-63370-10	328	1
65-63370-11	329	1
65-63370-11	369	1
65-69614-1	256	1
65-69614-2	256	1
65-69614-3	279	1
65-69614-4	279	1
65-69614-5	261	1
65-69614-6	262	1
65-69614-7	261	1
65-69614-8	262	1
65-69614-9	266	1
65-69614-10	278	1
65-69614-11	242	2

Part No.	Fig. and Index No.	Qty. per Assy.
65-69614-12	1101-243	1
65-69614-13	250	1
65-73773-1	1101	
65-73773-33	18	1
65-73773-5001	1101	
65-73773-5002	1101	
65-73773-5003	1101	
65-73773-5004	1101	
65-73773-5005	1101	
65-73773-5006	1101	
65-73773-51	16	1
65-73773-52	141	1
65-73773-52	152	1
65-73773-53	143	1
65-73773-58	147	1
65-73773-71	375	1
65-73773-75	1101	
65-73773-76	160	1
65-73773-77	162	1
65-77472-1	23	1
65-77472-1	34	1
65-77472-1	49	1
65-77472-2	24	2
65-77472-4	25	1
66-16151-2	60	1
66-16151-3	62	1
66-18265-1	145	1
66-18265-2	146	1
66-23351-3	68	1
66-24175-2	31	1
66-24175-2	46	1
66-24175-3	31	1
66-24481-1	8	1
66-24481-2	9	1
66-24481-3	10	1
66-5563-4	78	1
66-8350	83	1
69-17242-1	290	1
69-20854-1	102	1
69-20854-1	122	1
69-20854-2	104	2
69-20854-2	124	2
69-20854-3	105	1
69-20854-3	125	1
69-25145-3	144	1
69-36659-1	13	5

Part No.	Fig. and Index No.	Qty. per Assy.
69-36659-2	37	1
69-36659-2	52	1
69-36663-1	4	1
69-48211-1	224	4
69-48211-2	225	1
69-48211-3	226	1
69-48797-1	131	1
69-48991-1	325	1
69-48991-1	348	1
69-48992-2	324	1
69-48992-2	347	1
69-48993-1	321	1
69-48993-1	344	1
69-48993-2	344	1
69-48994-1	320	1
69-48994-1	343	1
69-48994-2	336	1
69-48994-2	342	1
69-48994-3	343	1
69-49768-1	322	1
69-49768-1	345	1
69-49768-2	323	3
69-49768-2	346	3
69-50747-1	272	1
69-53896-1	232	1
69-53896-2	239	1
69-53896-4	238	1
69-53896-800	236	1
69-55931-1	270	1
69-60414-1	151	1
69-60414-2	159	1
69-60414-3	155	1
69-60414-4	154	1
9-66304-5	7	6