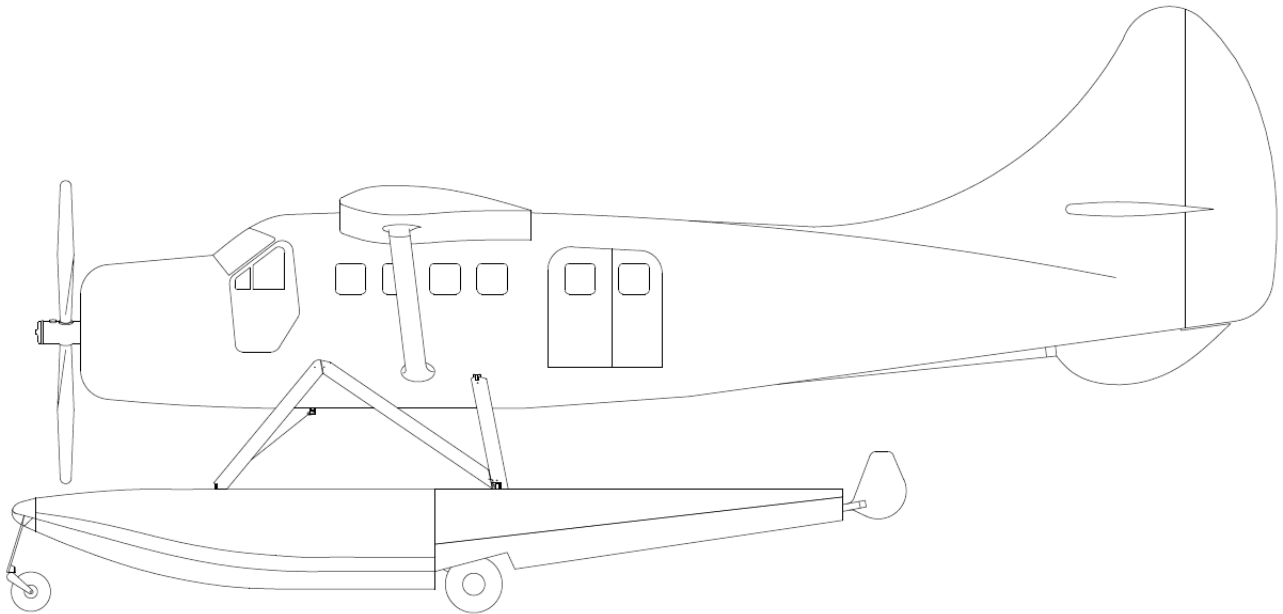




WIPLINE FLOATS | MODIFICATIONS | AIRCRAFT SALES  
AVIONICS | INTERIORS | MAINTENANCE | PAINT



# **PARTS MANUAL FOR WIPLINE MODEL 8000 FLOATS ON DEHAVILLAND DHC-3 SINGLE OTTER**

**Revision F**

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### LOG OF REVISIONS

| Revision | Pages Affected         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Date       |
|----------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| A        | All                    | Initial Release                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6/19/2020  |
| B        | All                    | Added note about nose and main gear tire/tube. Changed O-Ring MS28775-220 to MS28775-314 in Assy, Flange-Cylinder End. Added Nose Wheel Without Tire Assembly 1003233 image and parts. Added sections for Pre/Post Service Letter 215 for hydraulics and electrical. Updated Hydraulic Schematic image and part numbers. Added Pump Mount Bracket Assembly 1011402 image and parts list. Added Hydraulic Pump 1011404 images and parts list. Changed hydraulic pump 8A09000-031 to 6A09000-029 and added bracket 9A09000-176. Added note about Wipaire drawing 1011032 for alternate part numbers on Hydraulic Pump Overview. Updated Brake System Schematic. Updated Electrical Schematic. Changed Gear Control Valve Assembly 8A09000-102 to 6A09000-157. Changed R-5 to MS25036-103. Changed R-7 to MS25036-104. Changed Y-4 to MS25036-112. Changed Y-6 to MS25036-113. | 5/26/2021  |
| C        | 41, 58-59              | Added 1011004 Assembly, Cup, Pumpout, Duckbill, 1011808 Retainer, Valve, Duckbill, Pumpout Plug, and 1011870 Valve, Duckbill. Updated image and parts list for Main Gear Axle Assembly Without Wheels.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5/26/2022  |
| D        | 14, 57-58, 74-76, 102  | Changed Cover, Bulkhead Station #14 8A01008-0 to 8A01008-060. Updated parts list in Cleveland/Parker Main Gear Wheel Assembly section. Added image and parts for (Obsolete) McCauley Nose Gear Lower End Assembly (Discontinued) section, as it was removed from previous revisions. Changed P52-0035-1 from Starter to Solenoid.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1/26/2023  |
| E        | 64, 88                 | Added items 23 and 24 to Oleo Shock Strut Assembly (T-Seals Installed) section. Replaced bolt, washer, and nut with Cotter Pin MS24665-355 in 9A08454-005 Bushing Water Rudder Pivot, and 9A08000-108 Assembly Shaft Rudder Pivot in Steering & Retract System section.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 8/4/2023   |
| F        | 28-29, 67, 70, 121-122 | Updated Bottom and Side Skins image. Removed obsoleted parts 1002114, 3A01503-001, 6A01156-058, and 6A01156-059. Changed Cap - Fitting, Aft, Slide Tube 8A05159-001 to 8A05195-001 in Main Gear Slide Tube Assembly sections. Added Section 13 Canoe Paddle image and parts list.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12/14/2023 |

View most current version of parts manual at [www.wipaire.com](http://www.wipaire.com).

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## FLOAT PART SALES DEPARTMENT OPERATIONS

### Parts Sales:

Wipaire, Inc.

1700 Henry Avenue – Fleming Field

South St. Paul, MN 55075

Telephone: (651) 306-0459

Fax: (651)-306-0666

Website: [www.wipaire.com](http://www.wipaire.com)

Email: [customerservice@wipaire.com](mailto:customerservice@wipaire.com)

**Note:** Any information not found in this manual for strut package parts and other installation items refer to the installation drawing package provided with the STC at the time of float installation. Additional drawing copies are available for purchase through the Wipaire Customer Service Department.

### Parts Ordering

Purchase orders should include:

1. Purchase order number
2. Name of person placing order
3. Invoicing information:
  - a. Customer name - company or individual
  - b. Address
  - c. Phone and fax number
4. Shipping information:
  - a. Address (if different from invoice address)
  - b. Method of shipment/preferred carrier
5. Aircraft model, float model, and serial numbers
6. Wipaire part number; name; type, e.g. left or right; quantity
7. Payment method: VISA, MasterCard, C.O.D. (Collect on Delivery) (U.S. customers only), pre-payment by check or wire transfer, open account (see Credit Policy)

## INTRODUCTION

All references in this manual to LEFT and RIGHT are from the perspective of the pilot's seat with the floats fully installed and ready for floatplane operation.

The following is a list of abbreviations that may appear in the description nomenclature fields of this manual:

|         |             |        |               |
|---------|-------------|--------|---------------|
| AB      | Afterbody   | Inbd.  | Inboard       |
| Amphib. | Amphibious  | Lg.    | Large         |
| AR      | As Required | Lt.    | Left          |
| Assy.   | Assembly    | Lwr.   | Lower         |
| Brkt.   | Bracket     | Opt.   | Optional      |
| Btm.    | Bottom      | Otbd.  | Outboard      |
| Bulk.   | Bulkhead    | Reinf. | Reinforcement |
| Ctr.    | Center      | Rr.    | Rear          |
| Cyl.    | Cylinder    | Rt.    | Right         |
| Ft.     | Front       | Sm.    | Small         |
| Ftg.    | Fitting     | SN     | Serial Number |
| Fus.    | Fuselage    | Spr.   | Spreader      |
| Fwd     | Forward     | Upr.   | Upper         |
| Horiz.  | Horizontal  | Vert.  | Vertical      |
| Hyd.    | Hydraulic   | W.W.   | Wheel Well    |

USING THIS PARTS MANUAL

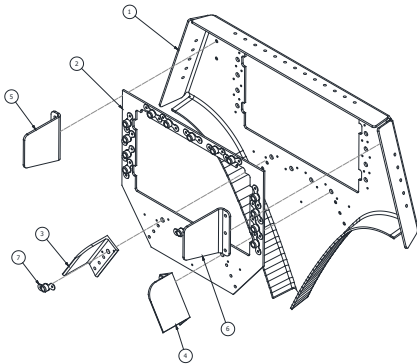
COVERAGE

Parts information is provided in this manual for the hulls and all "deck down" parts. For information on strut package parts and other aircraft installation items, refer to the installation drawing package provided with the STC at the time of float installation. Additional drawing copies are available for purchase through Wipaire Customer Service Department.

Name of main part in the section. Example: This part is showing the components made up in Bulkhead #1.

BULKHEAD #1

Main part image. If the image has numbers associated with it, then those numbers are item numbers shown in the table below.



Items with a (-) instead of a number represent the main part as an assembly. Other parts represent the parts included in the assembly.

| ITEM | QTY | PART NO.     | PART DESCRIPTION                      |
|------|-----|--------------|---------------------------------------|
| -    | 1   | 1008815      | ASSEMBLY BULKHEAD #1, 10000           |
| 1    | 1   | 1008797      | PANEL, BULKHEAD #1                    |
| 2    | 1   | 13A01156-085 | DOUBLER #1 BULKHEAD                   |
| 3    | 1   | 13A01357-049 | CLEAT, SISTER KEEL ATTACH #1 BULKHEAD |
| 4    | 1   | 13A01357-050 | CLEAT, SISTER KEEL ATTACH #1 BULKHEAD |
| 5    | 1   | 6A01156-054  | ANGLE – TOP RAIL                      |
| 6    | 1   | 6A01156-055  | ANGLE – TOP RAIL                      |
| 7    | 17  | MS21047L4    | NUT PLATE, SELF LOCKING               |

To order an individual part, order the part number associated with item number.



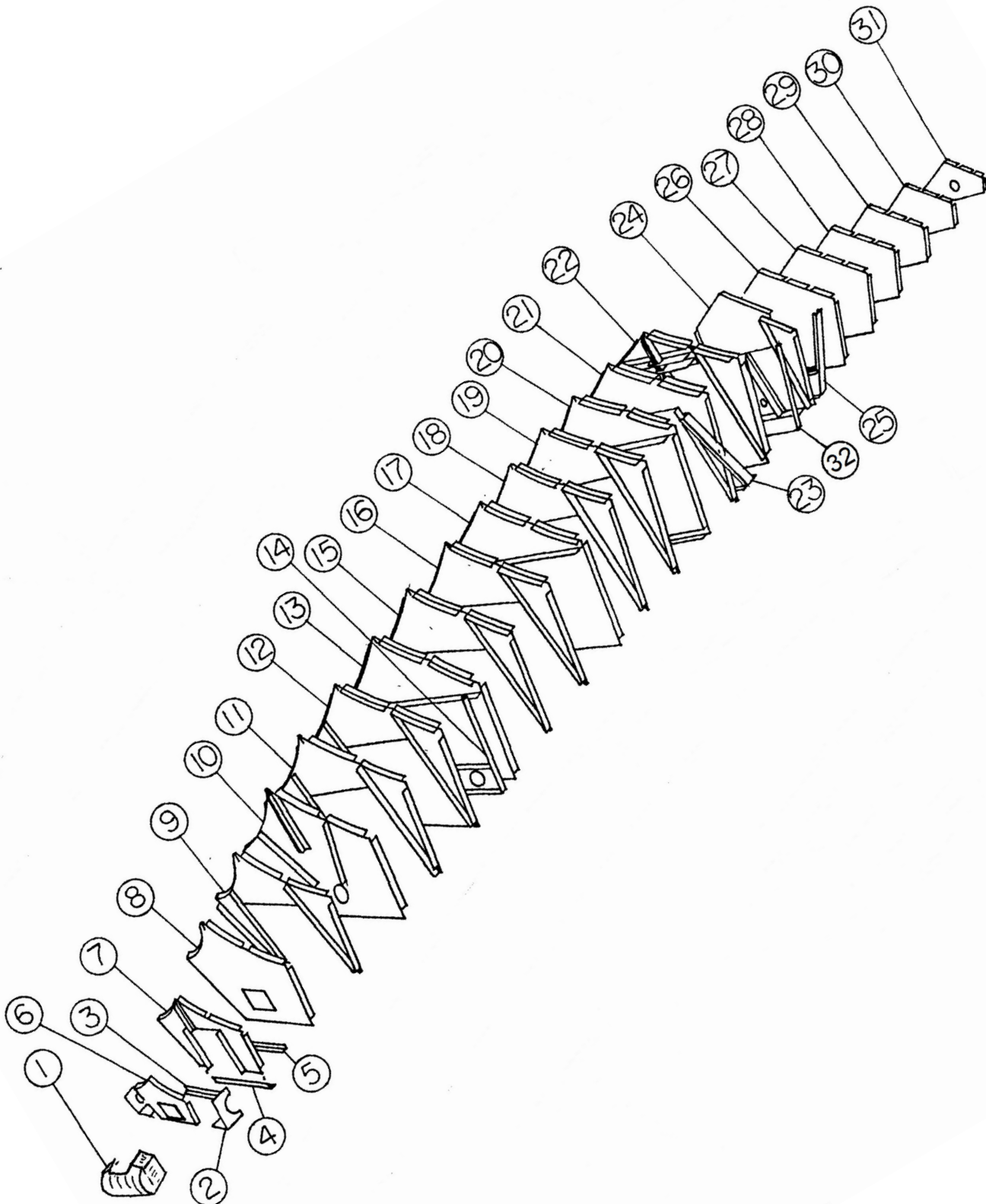
## **SECTION 1**

# **HULL BULKHEAD ASSEMBLIES**

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## HULL ASSEMBLY - AMPHIBIAN



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| ITEM | QTY | PART NO.    | PART DESCRIPTION                    |
|------|-----|-------------|-------------------------------------|
| 1    | 1   | 8A01730-001 | NOSE BUMPER                         |
|      | 1   | 8A01359-114 | ANGLE-BUMPER ATTACH RT              |
|      | 1   | 8A01359-115 | ANGLE- BUMPER ATTACH LT             |
| 2    | 2   | 8A01156-027 | GUSSET-NOSE BULKHEAD SIDE           |
|      | 2   | 8A01156-028 | GUSSET-NOSE BULKHEAD TOP            |
| 3    | 1   | 8A01339-037 | ANGLE-TOP SKIN REINFORCEMENT-FWD    |
| 4    | 1   | 8A01361-013 | ANGLE-TOP SKIN REINFORCEMENT-CENTER |
| 5    | 1   | 8A01339-038 | ANGLE-TOP SKIN REINFORCEMENT-AFT    |
|      | 1   | 8A01156-104 | SPACER, TOP DECK                    |
| 6    | 1   | 8A01000-076 | ASSEMBLY-NOSE BULKHEAD STATION #1   |
|      | 1   | 8A01156-025 | BULKHEAD                            |
|      | 2   | 6A01359-004 | ANGLE                               |
|      | 12  | MS21047L4   | NUTPLATE                            |
| 7    | 1   | 8A01000-077 | ASSEMBLY-BULKHEAD STATION #2        |
|      | 1   | 6A01158-006 | BULKHEAD BOTTOM                     |
|      | 1   | 6A01359-007 | ANGLE MAIN KEEL, LT                 |
|      | 1   | 6A01359-008 | ANGLE MAIN KEEL, RT                 |
|      | 2   | 6A01359-009 | ANGLE SISTER KEEL                   |
|      | 1   | 8A01005-092 | BULKHEAD SIDE, RT                   |
|      | 1   | 8A01005-093 | BULKHEAD SIDE, LT                   |
| 8    | 1   | 8A01000-078 | ASSEMBLY-BULKHEAD STATION #3        |
|      | 1   | 6A01158-007 | BULKHEAD BOTTOM                     |
|      | 1   | 8A01005-094 | BULKHEAD TOP                        |
|      | 1   | 8A01359-056 | ANGLE NOSE BOX, RT                  |
|      | 1   | 8A01359-057 | ANGLE NOSE BOX, LT                  |
|      | 1   | 6A01359-010 | ANGLE MAIN KEEL, RT                 |
|      | 1   | 6A01359-011 | ANGLE MAIN KEEL, LT                 |
|      | 1   | 6A01359-012 | ANGLE SISTER KEEL                   |
|      | 1   | 6A01359-013 | ANGLE SISTER KEEL                   |
| 9    | 1   | 8A01000-079 | ASSEMBLY-BULKHEAD STATION #4        |
|      | 1   | 6A01158-008 | BULKHEAD BOTTOM                     |
|      | 1   | 8A01005-095 | BULKHEAD SIDE, LT                   |
|      | 1   | 8A01005-096 | BULKHEAD SIDE, RT                   |
|      | 1   | 6A01359-035 | ANGLE MAIN KEEL, LT                 |
|      | 1   | 6A01359-036 | ANGLE MAIN KEEL, RT                 |
|      | 2   | 6A01359-001 | ANGLE SISTER KEEL                   |
| 10   | 1   | 8A01000-080 | ASSEMBLY-BULKHEAD STATION #5        |
|      | 1   | 6A01158-009 | BULKHEAD BOTTOM                     |
|      | 1   | 8A01005-097 | BULKHEAD TOP                        |
|      | 1   | 6A01359-018 | ANGLE MAIN KEEL, RT                 |
|      | 1   | 6A01359-019 | ANGLE MAIN KEEL, LT                 |

| ITEM | QTY | PART NO.    | PART DESCRIPTION                    |
|------|-----|-------------|-------------------------------------|
|      | 1   | 6A01359-020 | ANGLE SISTER KEEL                   |
|      | 1   | 6A01359-021 | ANGLE SISTER KEEL                   |
| 11   | 1   | 8A01000-081 | ASSEMBLY-BULKHEAD STATION #6        |
|      | 1   | 6A01158-010 | BULKHEAD BOTTOM                     |
|      | 1   | 8A01005-098 | BULKHEAD SIDE                       |
|      | 1   | 8A01005-099 | BULKHEAD SIDE                       |
|      | 1   | 6A01359-002 | ANGLE MAIN KEEL                     |
|      | 1   | 6A01359-003 | ANGLE MAIN KEEL                     |
|      | 2   | 6A01359-001 | ANGLE SISTER KEEL                   |
| 12   | 1   | 8A01000-082 | ASSEMBLY-BULKHEAD STATION #7        |
|      | 1   | 6A01158-011 | BULKHEAD BOTTOM #7, FWD             |
|      | 1   | 6A01158-012 | BULKHEAD BOTTOM #7, AFT             |
|      | 1   | 8A01005-100 | BULKHEAD SIDE, RT                   |
|      | 1   | 8A01005-101 | BULKHEAD SIDE, LT                   |
|      | 1   | 6A01359-002 | ANGLE MAIN KEEL                     |
|      | 1   | 6A01359-003 | ANGLE MAIN KEEL                     |
|      | 2   | 6A01359-001 | ANGLE SISTER KEEL                   |
| 13   | 1   | 8A01000-083 | ASSEMBLY-BULKHEAD STATION #8 LT.    |
|      | 1   | 8A01000-180 | ASSEMBLY-BULKHEAD STATION #8 RT.    |
|      | 1   | 6A01158-014 | BULKHEAD BOTTOM #8, AFT             |
|      | 1   | 6A01158-013 | BULKHEAD BOTTOM #8-1, FWD           |
|      | 1   | 8A01005-102 | BULKHEAD TOP                        |
|      | 1   | 8A01359-060 | ANGLE SISTER KEEL                   |
|      | 1   | 8A01359-061 | ANGLE SISTER KEEL                   |
|      | 1   | 8A01359-058 | ANGLE MAIN KEEL, RT                 |
|      | 1   | 8A01359-059 | ANGLE MAIN KEEL, LT                 |
|      | 1   | 8A01357-009 | ANGLE PANEL, LT                     |
|      | 1   | 8A01357-010 | ANGLE PANEL, RT                     |
|      | 2   | 8A01352-012 | ANGLE BAGGAGE FLOOR                 |
|      | 1   | 8A01012-001 | PANEL LEFT                          |
|      | 1   | 8A01012-002 | PANEL RIGHT                         |
| 14   | 1   | 8A01000-084 | ASSEMBLY-FT. SPREADER BAR PANEL-RT. |
|      | 1   | 8A01012-004 | PANEL                               |
|      | 1   | 8A01357-011 | PANEL ARM                           |
|      | 1   | 8A01357-012 | PANEL ARM                           |
|      | 1   | 8A01000-085 | ASSEMBLY-FT. SPREADER BAR PANEL-LT. |
|      | 1   | 8A01012-003 | PANEL                               |
|      | 1   | 8A01357-012 | PANEL ARM                           |
|      | 1   | 8A01357-011 | PANEL ARM                           |
| 15   | 1   | 8A01000-086 | ASSEMBLY-BULKHEAD STATION #9        |
|      | 1   | 8A01158-131 | BULKHEAD BOTTOM #9                  |

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| ITEM | QTY | PART NO.    | PART DESCRIPTION              |
|------|-----|-------------|-------------------------------|
|      | 1   | 8A01158-130 | BULKHEAD BOTTOM #9-1          |
|      | 1   | 8A01005-103 | BULKHEAD SIDE                 |
|      | 1   | 8A01005-104 | BULKHEAD SIDE                 |
|      | 1   | 6A01359-002 | ANGLE MAIN KEEL               |
|      | 1   | 6A01359-003 | ANGLE MAIN KEEL               |
|      | 2   | 6A01359-001 | ANGLE SISTER KEEL             |
| 16   | 1   | 8A01000-087 | ASSEMBLY-BULKHEAD STATION #10 |
|      | 2   | 6A01158-017 | BULKHEAD BOTTOM               |
|      | 1   | 8A01005-105 | BULKHEAD SIDE, LT             |
|      | 1   | 8A01005-106 | BULKHEAD SIDE, RT             |
|      | 1   | 6A01359-002 | ANGLE MAIN KEEL               |
|      | 1   | 6A01359-003 | ANGLE MAIN KEEL               |
|      | 2   | 6A01359-001 | ANGLE SISTER KEEL             |
| 17   | 1   | 8A01000-088 | ASSEMBLY-BULKHEAD STATION #11 |
|      | 2   | 8A01158-128 | BULKHEAD BOTTOM               |
|      | 1   | 8A01005-107 | BULKHEAD TOP                  |
|      | 2   | 6A01359-004 | ANGLE TOP RAIL                |
|      | 2   | 8A01352-013 | ANGLE BAGGAGE FLOOR           |
|      | 1   | 6A01359-024 | ANGLE MAIN KEEL, RT           |
|      | 1   | 6A01359-025 | ANGLE MAIN KEEL, LT           |
|      | 1   | 8A01359-062 | ANGLE SISTER KEEL             |
|      | 1   | 8A01359-063 | ANGLE SISTER KEEL             |
| 18   | 1   | 8A01000-089 | ASSEMBLY-BULKHEAD STATION #12 |
|      | 2   | 8A01158-128 | BULKHEAD BOTTOM               |
|      | 1   | 8A01005-108 | BULKHEAD SIDE, RT             |
|      | 1   | 8A01005-109 | BULKHEAD SIDE, LT             |
|      | 1   | 8A01359-064 | ANGLE MAIN KEEL               |
|      | 1   | 8A01359-065 | ANGLE MAIN KEEL               |
|      | 2   | 6A01359-001 | ANGLE SISTER KEEL             |
| 19   | 1   | 8A01000-089 | ASSEMBLY-BULKHEAD STATION #13 |
|      | 2   | 8A01158-128 | BULKHEAD BOTTOM               |
|      | 1   | 8A01005-108 | BULKHEAD SIDE, RT             |
|      | 1   | 8A01005-109 | BULKHEAD SIDE, LT             |
|      | 1   | 8A01359-064 | ANGLE MAIN KEEL               |
|      | 1   | 8A01359-065 | ANGLE MAIN KEEL               |
|      | 2   | 6A01359-001 | ANGLE SISTER KEEL             |
| 20   | 1   | 8A01000-090 | ASSEMBLY-BULKHEAD STATION #14 |
|      | 2   | 8A01158-128 | BULKHEAD BOTTOM               |
|      | 1   | 8A01005-241 | BULKHEAD TOP                  |
|      | 1   | 6A01359-024 | ANGLE MAIN KEEL, RT           |
|      | 1   | 6A01359-025 | ANGLE MAIN KEEL, LT           |

| ITEM   | QTY | PART NO.      | PART DESCRIPTION                 |
|--------|-----|---------------|----------------------------------|
|        | 1   | 8A01359-062   | ANGLE SISTER KEEL                |
|        | 1   | 8A01359-063   | ANGLE SISTER KEEL                |
|        | 1   | 8A01359-090   | ANGLE HORZ. UPPER                |
|        | 1   | 8A01359-091   | ANGLE HORZ. LOWER                |
|        | 1   | 8A01348-004   | ANGLE TUNNEL                     |
|        | 1   | 8A01008-060   | COVER ACCESS                     |
|        | 2   | 6A01359-004   | ANGLE TOP RAIL                   |
| 21     | 1   | 8A01000-091   | ASSEMBLY-BULKHEAD STATION #15    |
|        | 2   | 8A01158-128   | BULKHEAD BOTTOM                  |
|        | 1   | 8A01005-110   | BULKHEAD SIDE, RT                |
|        | 1   | 8A01005-111   | BULKHEAD SIDE, LT                |
|        | 1   | 8A01359-064   | ANGLE MAIN KEEL                  |
|        | 1   | 8A01359-065   | ANGLE MAIN KEEL                  |
|        | 1   | 8A01359-077   | ANGLE CARRY THRU INBD.           |
|        | 1   | 8A01359-078   | ANGLE CARRY THRU INBD.           |
|        | 1   | 8A01359-079   | ANGLE CARRY THRU OTBD.           |
|        | 1   | 8A01359-080   | ANGLE CARRY THRU OTBD.           |
|        | 1   | 8A01359-066   | ANGLE HORZ.                      |
| 22     | 1   | 8A01000-092   | ASSEMBLY-BULKHEAD STATION #16    |
|        | 2   | 8A01158-128   | BULKHEAD BOTTOM                  |
|        | 1   | 8A01005-112   | BULKHEAD TOP                     |
|        | 1   | 8A01357-014   | ANGLE SISTER KEEL                |
|        | 1   | 8A01357-015   | ANGLE SISTER KEEL                |
|        | 1   | 6A01359-024   | ANGLE MAIN KEEL                  |
|        | 1   | 6A01359-025   | ANGLE MAIN KEEL                  |
|        | 2   | 8A01357-013   | ANGLE TRUNION HORZ.              |
|        | 1   | 8A01359-067   | ANGLE HORZ. UPPER                |
|        | 1   | 8A01359-068   | ANGLE HORZ. LOWER                |
|        | 1   | 8A01008-096   | ANGLE AFTERBODY ATTACH           |
|        | 1   | 8A01008-097   | ANGLE AFTERBODY ATTACH           |
|        | 2   | 4A01008-107   | DOUBLER BRAKE LINE               |
|        | 2   | 8A04211-001   | TRUNION                          |
|        | 2   | 8A01214-002   | ANGLE BOTTOM FLANGE              |
|        | 8   | AN4-11A       | BOLT                             |
|        | 16  | NAS1149D0463J | WASHER                           |
|        | 8   | MS21045-4     | NUT                              |
| 23 LT. | 1   | 8A01000-105   | ASSEMBLY-MIDDLE STRUT PANEL-LEFT |
|        | 1   | 8A01012-007   | PANEL, STRUT, CENTER REAR, RT    |
|        | 1   | 8A01012-010   | PANEL, STRUT, REAR FRONT, RT     |
|        | 1   | 8A01012-011   | ARM PANEL, CENTER, LT            |
|        | 1   | 8A01012-012   | ARM PANEL                        |

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| ITEM   | QTY | PART NO.    | PART DESCRIPTION                    |
|--------|-----|-------------|-------------------------------------|
| 23 RT. | 1   | 8A01000-104 | ASSEMBLY-MIDDLE STRUT PANEL-RIGHT   |
|        | 1   | 8A01012-008 | PANEL, STRUT, CENTER FRONT, RT      |
|        | 1   | 8A01012-009 | PANEL, STRUT, REAR RT               |
|        | 1   | 8A01012-011 | ARM PANEL, CENTER LT                |
|        | 1   | 8A01012-012 | ARM PANEL                           |
| 24 LT. | 1   | 8A01000-093 | ASSEMBLY-BULKHEAD STATION #17 LEFT  |
|        | 1   | 8A01008-025 | BULKHEAD TOP LEFT                   |
|        | 1   | 8A01002-041 | PANEL LOWER                         |
|        | 1   | 8A01426-003 | ANGLE SLIDE TUBE, LT                |
|        | 1   | 8A01426-004 | ANGLE SLIDE TUBE, RT                |
|        | 1   | 8A01359-069 | ANGLE CARRY THRU STRAP              |
|        | 1   | 8A01359-070 | ANGLE CARRT THRU STRAP              |
|        | 1   | 8A01359-071 | ANGLE HORZ.                         |
|        | 1   | 8A01359-072 | ANGLE HORZ. WHEEL WELL, RT          |
|        | 1   | 8A01359-073 | ANGLE HORZ. WHEEL WELL, LT          |
|        | 1   | 8A01361-023 | ANGLE SISTER KEEL                   |
|        | 1   | 8A01361-024 | ANGLE SISTER KEEL                   |
| 24 RT. | 1   | 8A01000-228 | ASSEMBLY-BULKHEAD STATION #17 RIGHT |
|        | 1   | 8A01008-130 | BULKHEAD TOP RIGHT                  |
|        | 1   | 8A01002-041 | PANEL LOWER                         |
|        | 1   | 8A01426-003 | ANGLE SLIDE TUBE, LT                |
|        | 1   | 8A01426-004 | ANGLE SLIDE TUBE, RT                |
|        | 1   | 8A01359-069 | ANGLE CARRY THRU STRAP              |
|        | 1   | 8A01359-070 | ANGLE CARRT THRU STRAP              |
|        | 1   | 8A01359-071 | ANGLE HORZ.                         |
|        | 1   | 8A01359-072 | ANGLE HORZ. WHEEL WELL, RT          |
|        | 1   | 8A01359-073 | ANGLE HORZ. WHEEL WELL, LT          |
|        | 1   | 8A01361-023 | ANGLE SISTER KEEL                   |
|        | 1   | 8A01361-024 | ANGLE SISTER KEEL                   |
| 25 RT. | 1   | 8A01000-106 | ASSEMBLY-AFT.STRUT PANEL-RIGHT      |
|        | 1   | 8A01012-007 | PANEL                               |
|        | 1   | 8A01012-010 | PANEL                               |
|        | 1   | 8A01012-013 | ARM PANEL                           |
|        | 1   | 8A01012-014 | ARM PANEL                           |
| 25 LT. | 1   | 8A01000-107 | ASSEMBLY-AFT.STRUT PANEL-LEFT       |
|        | 1   | 8A01012-008 | PANEL                               |
|        | 1   | 8A01012-009 | PANEL                               |
|        | 1   | 8A01012-013 | ARM PANEL                           |
|        | 1   | 8A01012-014 | ARM PANEL                           |
| 26 RT. | 1   | 8A01000-094 | ASSEMBLY-BULKHEAD STATION #18 RIGHT |
|        | 1   | 8A01002-042 | BULKHEAD BODY RIGHT                 |

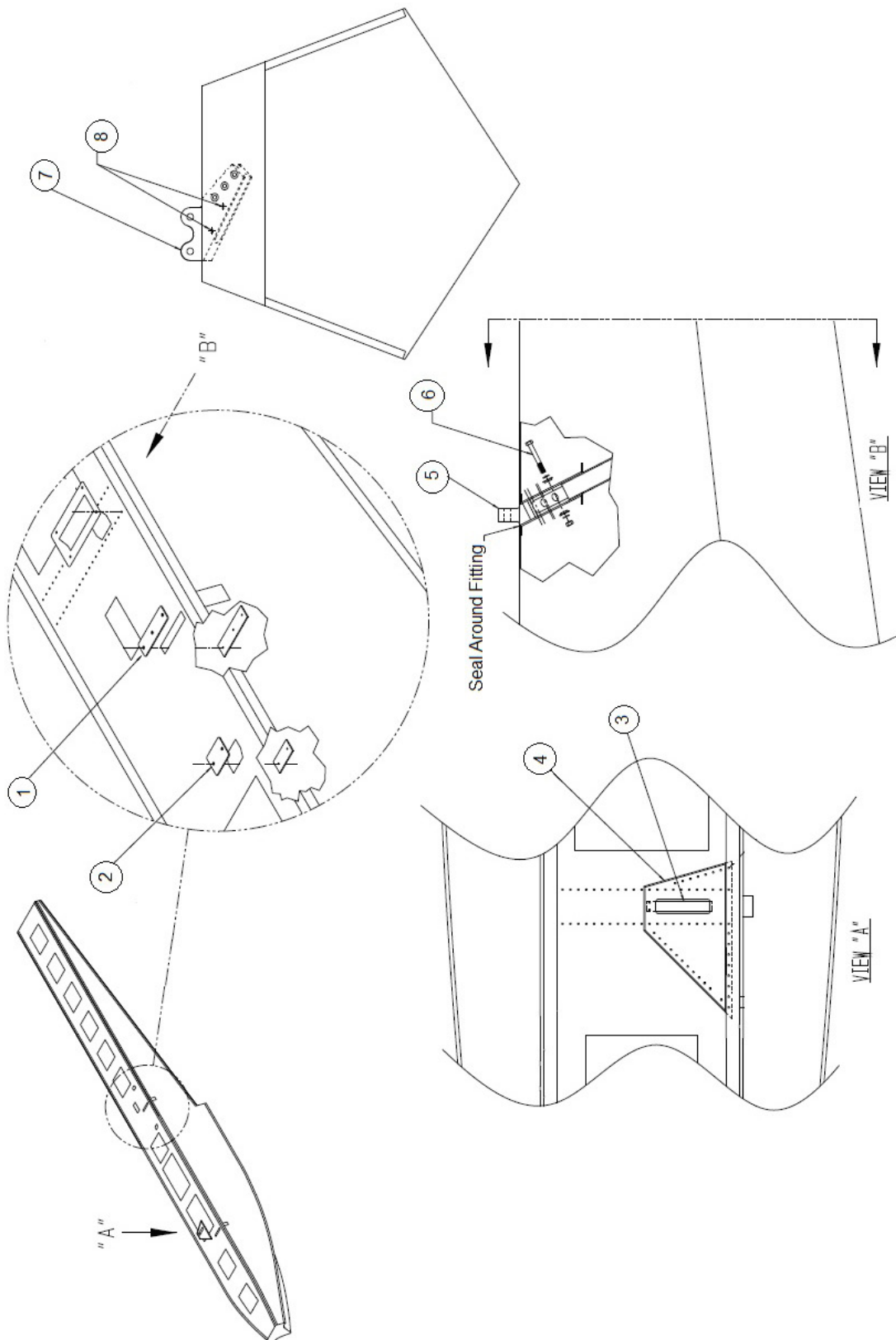
| ITEM   | QTY | PART NO.    | PART DESCRIPTION                    |
|--------|-----|-------------|-------------------------------------|
|        | 6   | 6A01359-004 | ANGLE ATTACH                        |
| 26 LT. | 1   | 8A01000-213 | ASSEMBLY-BULKHEAD STATION #18 LEFT  |
|        | 1   | 8A01002-107 | BULKHEAD BODY LEFT                  |
|        | 6   | 6A01359-004 | ANGLE ATTACH                        |
| 27 LT. | 1   | 8A01000-095 | ASSEMBLY-BULKHEAD STATION #19 LEFT  |
|        | 1   | 8A01002-043 | BULKHEAD BODY LEFT                  |
|        | 4   | 6A01359-004 | ANGLE ATTACH                        |
| 27 RT. | 1   | 8A01000-212 | ASSEMBLY-BULKHEAD STATION #19 RIGHT |
|        | 1   | 8A01002-104 | BULKHEAD BODY RIGHT                 |
|        | 4   | 6A01359-004 | ANGLE ATTACH                        |
| 28 RT. | 1   | 8A01000-096 | ASSEMBLY-BULKHEAD STATION #20 RIGHT |
|        | 1   | 8A01002-044 | BULKHEAD BODY RIGHT                 |
|        | 1   | 8A01156-074 | DOUBLER CABLE                       |
|        | 2   | 3A01151-010 | BRACKET PULLEY                      |
|        | 4   | 6A01359-004 | ANGLE ATTACH                        |
|        | 1   | MS24665-136 | COTTER PIN                          |
| 28 LT. | 1   | 8A01000-179 | ASSEMBLY-BULKHEAD STATION #20 LEFT  |
|        | 1   | 8A01002-103 | BULKHEAD BODY LEFT                  |
|        | 1   | 8A01156-074 | DOUBLER CABLE                       |
|        | 2   | 3A01151-010 | BRACKET PULLEY                      |
|        | 4   | 6A01359-004 | ANGLE ATTACH                        |
|        | 1   | MS24665-136 | COTTER PIN                          |
| 29 LT. | 1   | 8A01000-097 | ASSEMBLY-BULKHEAD STATION #21 LEFT  |
|        | 1   | 8A01002-045 | BULKHEAD BODY, LT                   |
|        | 4   | 6A01359-004 | ANGLE ATTACH                        |
| 29 RT. | 1   | 8A01000-214 | ASSEMBLY-BULKHEAD STATION 21 RIGHT  |
|        | 1   | 8A01002-106 | BULKHEAD BODY, RT                   |
|        | 4   | 6A01359-004 | ANGLE ATTACH                        |
| 30 RT. | 1   | 8A01000-098 | ASSEMBLY-BULKHEAD STATION #22 RIGHT |
|        | 1   | 8A01002-046 | BULKHEAD BODY RIGHT                 |
|        | 4   | 6A01359-004 | ANGLE ATTACH                        |
|        | 2   | 3A01151-010 | BRACKET PULLEY                      |
|        | 1   | 8A01003-032 | DOUBLER PULLEY BRACKET, RT          |
|        | 1   | MS24665-136 | COTTER PIN                          |
| 30 LT. | 1   | 8A01000-181 | ASSEMBLY-BULKHEAD STATION #22 LEFT  |
|        | 1   | 8A01002-105 | BULKHEAD BODY LEFT                  |
|        | 4   | 6A01359-004 | ANGLE ATTACH                        |
|        | 2   | 3A01151-010 | BRACKET PULLEY                      |
|        | 1   | 8A01003-031 | DOUBLER PULLEY BRACKET, LT          |
|        | 1   | MS24665-136 | COTTER PIN                          |
| 31     | 1   | 8A01000-099 | ASSEMBLY-BULKHEAD STATION #23       |



PARTS MANUAL  
8000 FLOATS ON DEHAVILLAND DHC-3 SINGLE OTTER

| ITEM | QTY | PART NO.    | PART DESCRIPTION               |
|------|-----|-------------|--------------------------------|
|      | 1   | 8A01002-047 | BULKHEAD BODY                  |
|      | 4   | 6A01359-004 | ANGLE ATTACH                   |
|      | 1   | 3A01437-001 | CASTING PIVOT                  |
|      | 1   | 8A01361-021 | ANGLE AFTERBODY, LT            |
|      | 1   | 8A01361-022 | ANGLE AFTERBODY, RT            |
|      | 1   | 6A01352-004 | ANGLE TOP REINFORCEMENT        |
|      | 1   | 8A01359-074 | ANGLE HORZ.                    |
| 32   | 1   | 8A01000-101 | PANEL ASSY, SPREADER BAR       |
|      | 1   | 8A01012-006 | PANEL, SPREADER BAR, REAR RT   |
|      | 1   | 8A01357-016 | ANGLE, SPREADER BAR PANEL, AFT |
|      | 1   | 8A01357-017 | ANGLE, SPREADER BAR PANEL, AFT |

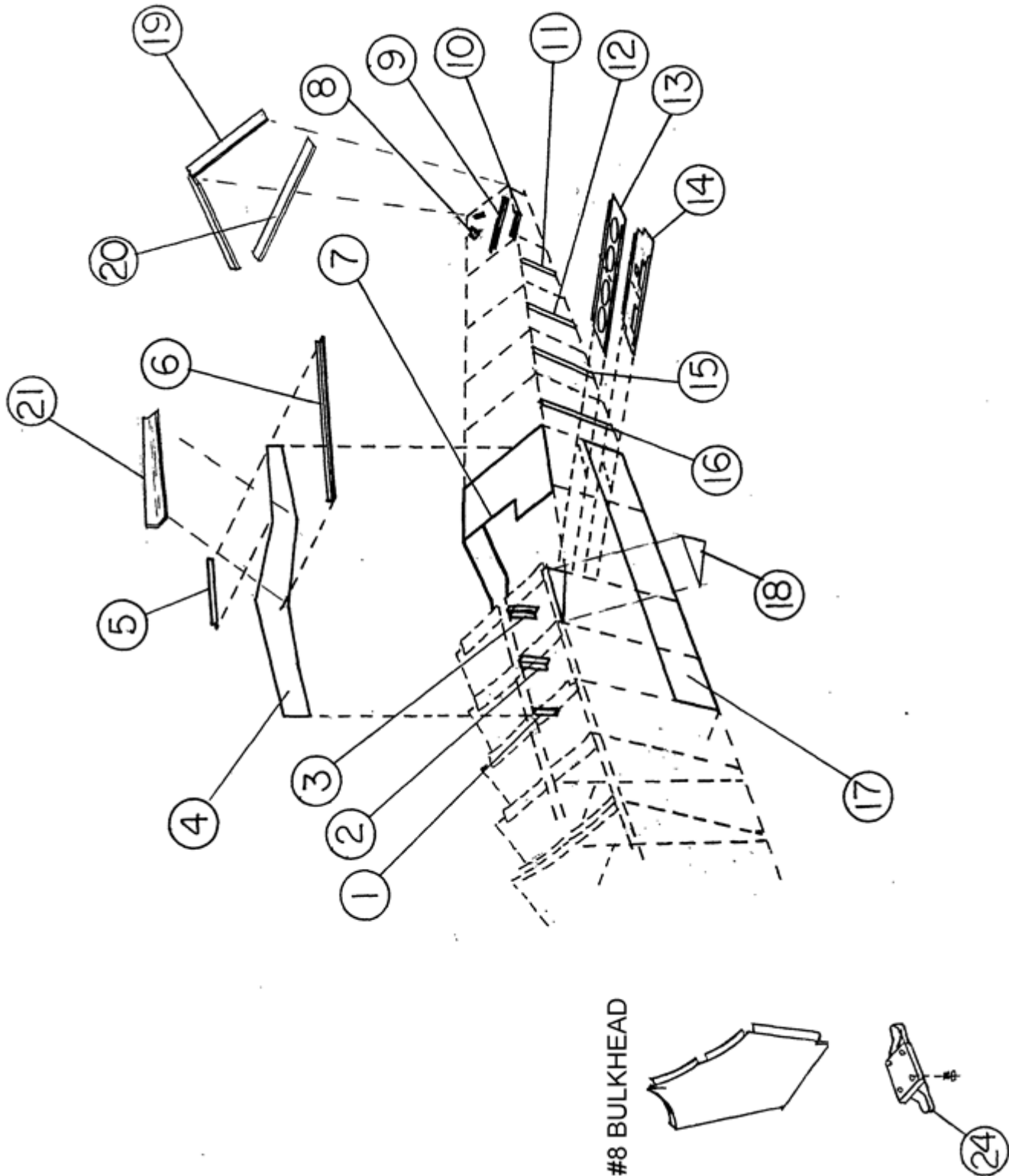
## CONVERSION HULL - SERVICE KIT #20



PARTS MANUAL  
8000 FLOATS ON DEHAVILLAND DHC-3 SINGLE OTTER

| ITEM | QTY | PART NO.      | PART DESCRIPTION                   |
|------|-----|---------------|------------------------------------|
| 1    | 1   | 9A03197-010   | COVER, SPREADER BAR AFT            |
|      | 1   | 9A03163-060   | SPACER COVER; SPREADER BAR AFT.    |
| 2    | 1   | 9A02218-001   | COVER, STRUT                       |
|      | 1   | 9A02163-059   | SPACER                             |
| 3    | 1   | 9A02111-001   | FITTING, STRUT FLOAT FWD.          |
| 4    | 1   | 9A01001-045   | SUPPORT, FRONT DECK FITTING, STRUT |
|      | 1   | 9A01001-046   | SUPPORT, FRONT DECK FITTING, STRUT |
| 5    | 1   | 9A02113-002   | FITTING, FLOAT, REAR STRUT, RH     |
| 6    | 3   | AN6-26A       | BOLT                               |
|      | 6   | 8A02095-001   | BUSHING, STRUT                     |
|      | 6   | NAS1149F0663P | WASHER                             |
|      | 3   | MS21044N6     | NUT                                |
| 7    | 1   | 9A02113-001   | FITTING, FLOAT, REAR STRUT, LH     |
|      | 1   | 9A02113-002   | FITTING, FLOAT, REAR STRUT, RH     |
| 8    | 2   | AN6-24A       | BOLT                               |
|      | 4   | NAS1149F0663P | WASHER                             |
|      | 2   | MS21044N6     | NUT                                |

## SKIN DOUBLERS, STIFFENERS, STRUCTURAL SUPPORT



PARTS MANUAL  
8000 FLOATS ON DEHAVILLAND DHC-3 SINGLE OTTER

| ITEM | QTY | PART NO.     | PART DESCRIPTION                       |
|------|-----|--------------|----------------------------------------|
| 1    | 2   | 8A01156-034  | SPACER                                 |
| 2    | 1   | 8A01359-080  | ANGLE, CARRY THRU, OTBD, RT            |
|      | 1   | 8A01359-079  | ANGLE, CARRY THRU, OTBD, LT            |
|      | 1   | 8A01359-077  | ANGLE, CARRY THRU, INBD, LT            |
|      | 1   | 8A01359-078  | ANGLE, CARRY THRU, INBD, RT            |
| 3    | 1   | 8A01359-081  | ANGLE, CARRY THRU, LT                  |
|      | 1   | 8A01359-082  | ANGLE, CARRY THRU, RT                  |
| 4    | 2   | 8A01001-006  | CARRY THRU STRAP                       |
| 5    | 2   | 6A01008-070  | ANGLE, STRAP-ANGLE, CARRY THRU         |
| 6    | 1   | 8A01008-026  | ANGLE-CARRYTHRU TO SKIN OUTBOARD-RIGHT |
|      | 1   | 8A01008-027  | ANGLE-CARRYTHRU TO SKIN INBOARD-LEFT   |
| 7    | 1   | 8A01008-032  | DOUBLER, AFTERBODY SKIN                |
| 8    | 1   | 8A01002-049  | GUSSET, LT                             |
|      | 1   | 8A01002-050  | GUSSET, RT                             |
|      | 2   | 8A01163-025  | SPACER                                 |
| 9    | 1   | 8A01359-074  | ANGLE, HORIZONTAL, BULKHEAD #23        |
| 10   | 1   | 6A01352-004  | ANGLE, TOP SKIN REINFORCEMENT          |
| 11   | 2   | 8A01151-058  | STIFFENER, SIDE SKIN                   |
| 12   | 2   | 8A01151-057  | STIFFENER, SIDE SKIN                   |
| 13   | 1   | 8A01000-109  | ASSY, BRACE PANEL, LOWER               |
| 14   | 1   | 8A01000-108  | ASSY, BRACE PANEL, UPPER               |
| 15   | 2   | 8A01151-056  | STIFFENER, SIDE SKIN                   |
| 16   | 2   | 8A01151-055  | STIFFENER, SIDE SKIN                   |
| 17   | 1   | 8A01008-033  | DOUBLER, SIDE SKIN, OTBD, LT           |
|      | 1   | 8A01008-034  | DOUBLER, SIDE SKIN, OTBD, RT           |
|      | 1   | 8A01008-035  | DOUBLER, SIDE SKIN, INBD, LT           |
|      | 1   | 8A01008-036  | DOUBLER, SIDE SKIN, INBD, RT           |
| 18   | 2   | 8A01002-100  | DOUBLER, STEP SIDE                     |
| 19   | 2   | 8A01156-036  | SPACER, SKIN, AFT                      |
| 20   | 1   | 8A01156-035  | SPACER, SKIN, TOP                      |
| 21   | 1   | 8A01008-030  | ANGLE, CARRY THRU STRAP, RT            |
|      | 1   | 8A01008-031  | ANGLE, CARRY THRU STRAP, LT            |
| 22   | 1   | 8A01156-031  | REINFORCEMENT, REAR CLEAT              |
| 23   | 1   | 8A01156-033  | SPACER, CLEAT REINFORCEMENT, AFT       |
| 24   | 2   | 6A01213-003  | CLEAT, TIE DOWN                        |
|      | 4   | AN4-7A       | BOLT                                   |
|      | 8   | NAS1149F0416 | WASHER                                 |
|      | 4   | MS21044N4    | NUT                                    |
| 25   | 2   | 8A01008-136  | FLOOR, BAGGAGE COMP., AFT, RT          |
|      | 2   | 8A01008-137  | FLOOR, BAGGAGE COMP., FWD, LT          |

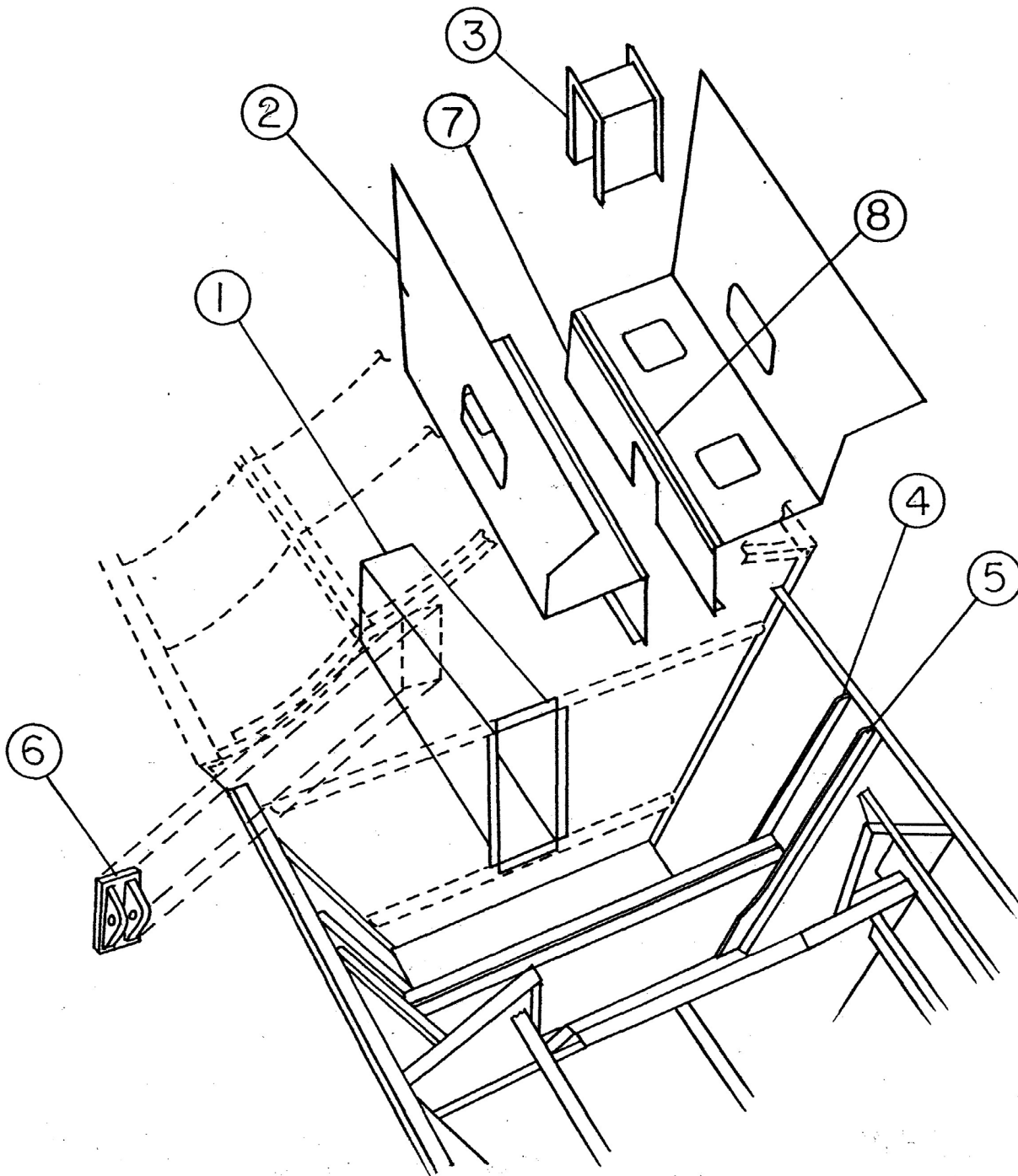
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**SECTION 2**  
**WHEEL WELL ASSEMBLY**

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## WHEEL WELL AREA





PARTS MANUAL  
8000 FLOATS ON DEHAVILLAND DHC-3 SINGLE OTTER

| ITEM  | QTY | PART NO.      | PART DESCRIPTION                        |
|-------|-----|---------------|-----------------------------------------|
| 1     | 1   | 8A01000-110   | TUNNEL ASSY.                            |
|       | 1   | 6A01201-001   | FITTING, FWD, SLIDE TUBE                |
|       | 1   | 6A01005-054   | COVER, TUNNEL                           |
|       | A/R | AN526-632R4   | SCREW, COVER ATTACH                     |
| 2 LT. | 1   | 8A01000-111   | ASSY, WHEEL WELL HALF, LT (UPPER)       |
|       | 1   | 8A01005-115   | WHEEL WELL HALF, LT                     |
|       | 1   | 6A01156-014   | COVER-RING                              |
|       | 2   | 6A01156-013   | COVER-RING                              |
| 2 RT. | 1   | 8A01000-112   | ASSEMBLY-WHEEL WELL HALF-RIGHT (UPPER)  |
|       | 1   | 8A01005-116   | WHEEL WELL HALF, RT                     |
|       | 1   | 6A01156-014   | COVER-RING                              |
|       | 2   | 6A01156-013   | COVER-RING                              |
|       | 1   | 6A01158-151   | COVER-ACCESS (5"X 8")                   |
|       | A/R | AN526C632R4   | SCREW-COVER ATTACH                      |
|       | 2   | 6A01158-152   | COVER-ACCESS (5"X 5")                   |
| 3     | 1   | 8A01158-045   | COVER, SPREADER BAR PANEL               |
| 4     | 1   | 8A01000-101   | ASSY, SPREADER BAR PANEL, FWD, LT       |
|       | 1   | 8A01000-100   | ASSY, SPREADER BAR PANEL, FWD, RT       |
| 5     | 1   | 8A01000-103   | ASSY, SPREADER BAR PANEL, REAR, AFT, LT |
|       | 1   | 8A01000-102   | ASSY, SPREADER BAR PANEL, REAR, AFT, RT |
| 6     | 2   | 8A04211-001   | TRUNION-MAIN GEAR                       |
|       | 4   | AN4-11A       | BOLT-ATTACH                             |
|       | 8   | NAS1149D0463J | WASHER                                  |
|       | 4   | MS21044N4     | NUT                                     |
| 7     | 1   | 8A01000-127   | ASSY, WHEEL WELL HALF LT. LOWER         |
|       | 1   | 8A01000-128   | ASSY, WHEEL WELL HALF RT. LOWER         |
| 8     | 1   | 8A01340-026   | ANGLE WHELL WELL                        |
|       | 1   | 8A01340-027   | ANGLE WHEEL WELL                        |

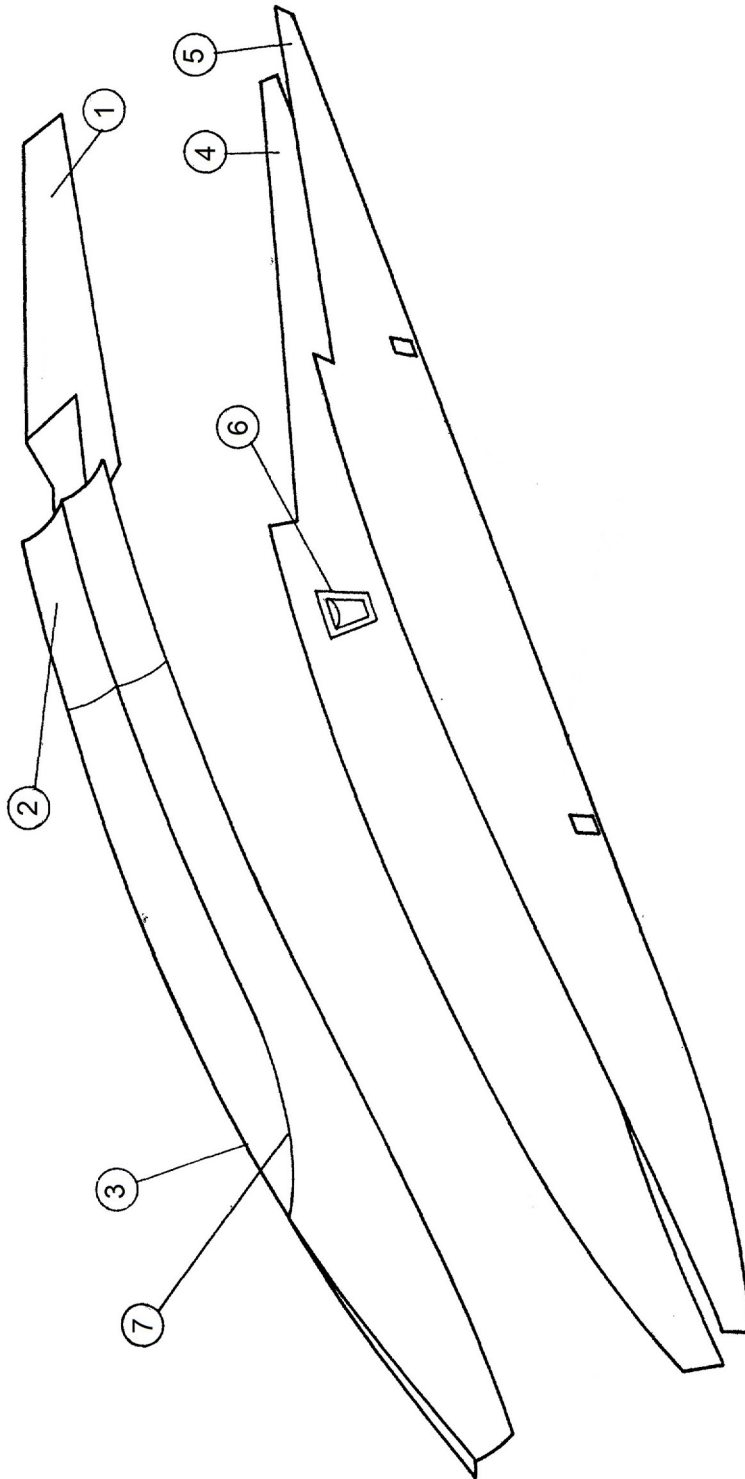
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**SECTION 3**  
**SKINS**

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## BOTTOM AND SIDE SKINS



PARTS MANUAL  
8000 FLOATS ON DEHAVILLAND DHC-3 SINGLE OTTER

| ITEM | QTY | PART NO.    | PART DESCRIPTION         |
|------|-----|-------------|--------------------------|
| 1    | 1   | 8A01158-138 | SKIN-AFT, RT             |
|      | 1   | 8A01158-139 | SKIN-AFT, LT             |
| 2    | 2   | 8A01002-048 | SPLICE – BOTTOM SKIN     |
| 3    | 1   | 8A01151-059 | BOTTOM SKIN, LT          |
|      | 1   | 8A01151-060 | BOTTOM SKIN, RT          |
| 4    | 1   | 8A01158-024 | SKIN, SIDE OUTBOARD, RT  |
|      | 1   | 8A01158-023 | SKIN, SIDE OUTBOARD, LT  |
| 5    | 1   | 8A01158-022 | SKIN, SIDE INBOARD, RT   |
|      | 1   | 8A01158-021 | SKIN, SIDE INBOARD, LT   |
| 6    | 2   | 3A01000-005 | STEP – BOARDING          |
| 7    | 1   | 8A01002-096 | DOUBLER, BOTTOM SKIN, RT |
|      | 1   | 8A01002-095 | DOUBLER, BOTTOM SKIN, LT |

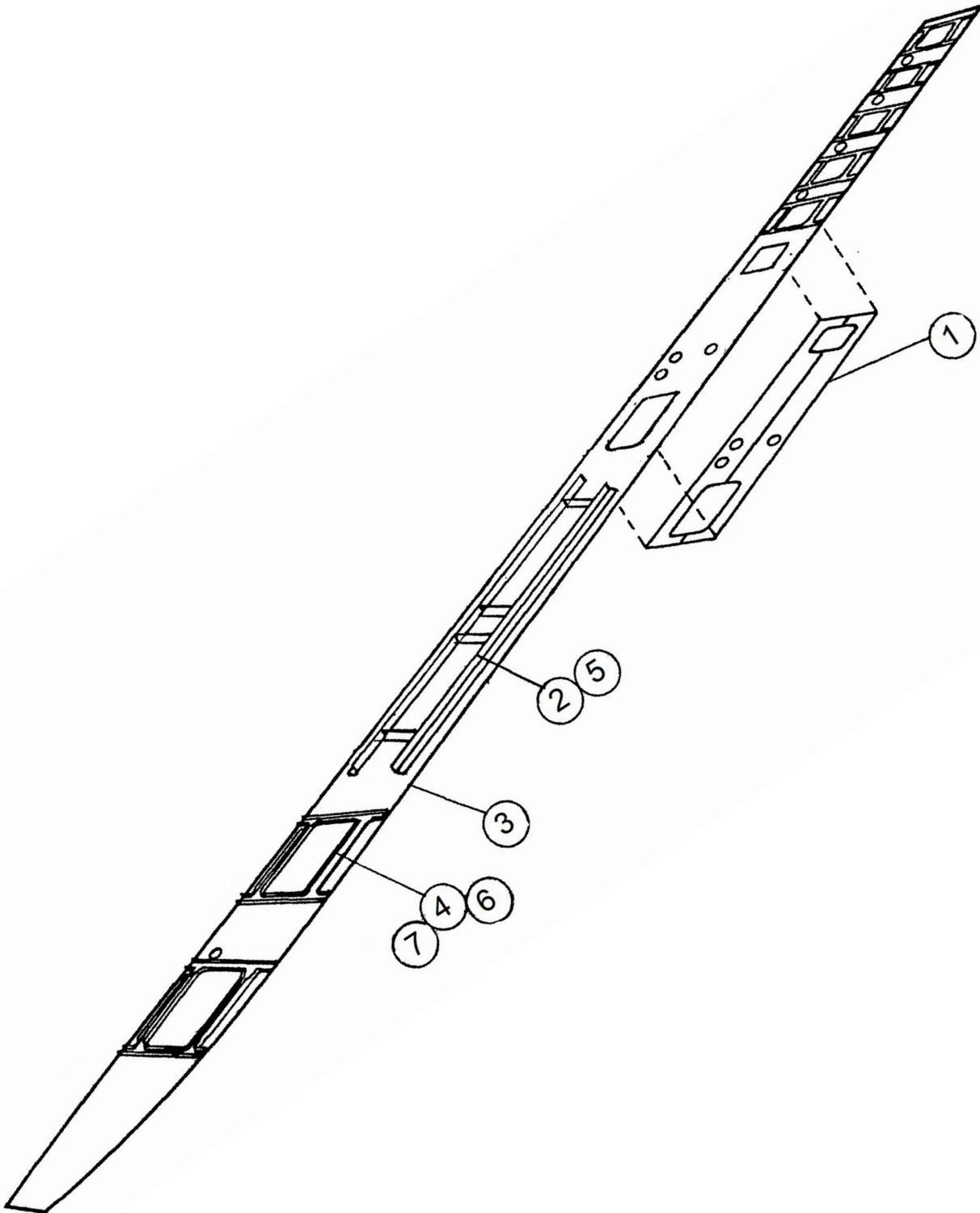
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## TOP DECK





PARTS MANUAL  
8000 FLOATS ON DEHAVILLAND DHC-3 SINGLE OTTER

| ITEM  | QTY   | PART NO.       | PART DESCRIPTION                       |
|-------|-------|----------------|----------------------------------------|
| 1     | 1     | 8A01001-009    | DOUBLER-TOP SKIN, INBOARD, LT          |
|       | 1     | 8A01001-011    | DOUBLER-TOP SKIN, OUTBOARD, LT         |
|       | 1     | 8A01001-008    | DOUBLER-TOP SKIN, INBOARD, RT          |
| 2     | 1     | 8A01001-010    | DOUBLER, TOP SKIN, OUTBOARD, RT        |
|       | 1     | 8A01348-006    | ANGLE, BAGGAGE COMPARTMENT, INBOARD    |
|       | 1     | 8A01348-005    | ANGLE, BAGGAGE COMPARTMENT, INBOARD    |
|       | 4     | 8A01352-014    | ANGLE, TOP SKIN, BAGGAGE COMPARTMENT   |
| 3     | 1     | 8A01158-026    | SKIN, TOP, RT                          |
|       | 1     | 8A01158-025    | SKIN, TOP, LT                          |
| 4     | 7     | 8A01000-113    | ASSY, REINFORCEMENT, INSPECTION COVER  |
|       | 14    | 8A01352-019    | ANGLE, COVER REINFORCEMENT             |
| 5     | 2     | 8A01000-115    | ASSY, BAGGAGE COVER (PRE SEPT. 1989)   |
|       | 2     | 6A01000-166    | ASSY, BAGGAGE LATCH, SOUTHCO (PLASTIC) |
|       | 2     | 8A01000-126    | ASSY, BAGGAGE COVER (AFTER SEPT. 1989) |
|       | 1     | 8A01740-002    | HINGE TOP                              |
|       | 1     | 8A01741-002    | HINGE BOTTOM                           |
|       | 2.06' | 1002186        | HINGE PIN                              |
|       | 2     | 3A01525-003    | SPRING LOCK                            |
|       | 2     | 3A01273-004    | LOCK INSERT                            |
|       | 2     | 3A01702-004    | LOCK CATCH                             |
|       | 2     | 1002663        | RING LOCK OPENING                      |
|       | 2     | 3A01206-001    | BLOCK RETAINER                         |
|       | 1     | 1001571        | GASKET                                 |
|       | 18    | 01692-0410     | POP RIVETS                             |
|       | 2     | 8A01004-023    | STIFFENER, BAG COVER, VERT             |
|       | 1     | 8A01004-024    | STIFFENER, BAGGAGE, FWD                |
|       | 2     | 8A01004-069    | STIFFENER, BAGGAGE, CENTER & REAR      |
|       | 1     | 8A01162-003    | COVER, BAGGAGE                         |
|       | 2     | 10/32 X 1/2 SS | SCREW, BAGGAGE COVER                   |
| 6 SM. | 1     | 8A01000-114    | ASSEMBLY-INSPECTION COVER (SMALL)      |
|       | 1     | 8A01567-006    | COVER SEAL                             |
|       | 1     | 8A01163-005    | COVER, INSPECTION                      |
|       | 2     | 8A01340-021    | ANGLE, INSPECTION COVER                |
| 6 LG. | 1     | 8A01000-122    | INSPECTION COVER ASSEMBLY (LARGE)      |
|       | 1     | 8A01567-007    | INSPECTION COVER GASKETS               |
|       | 1     | 8A01163-006    | COVER, INSPECTION                      |
|       | 2     | 3A01340-014    | ANGLE, COVER MED. REINFORCEMENT        |
| 7     | A/R   | 1002481        | TINNERMAN NUT WITH TAPE APPLIED        |

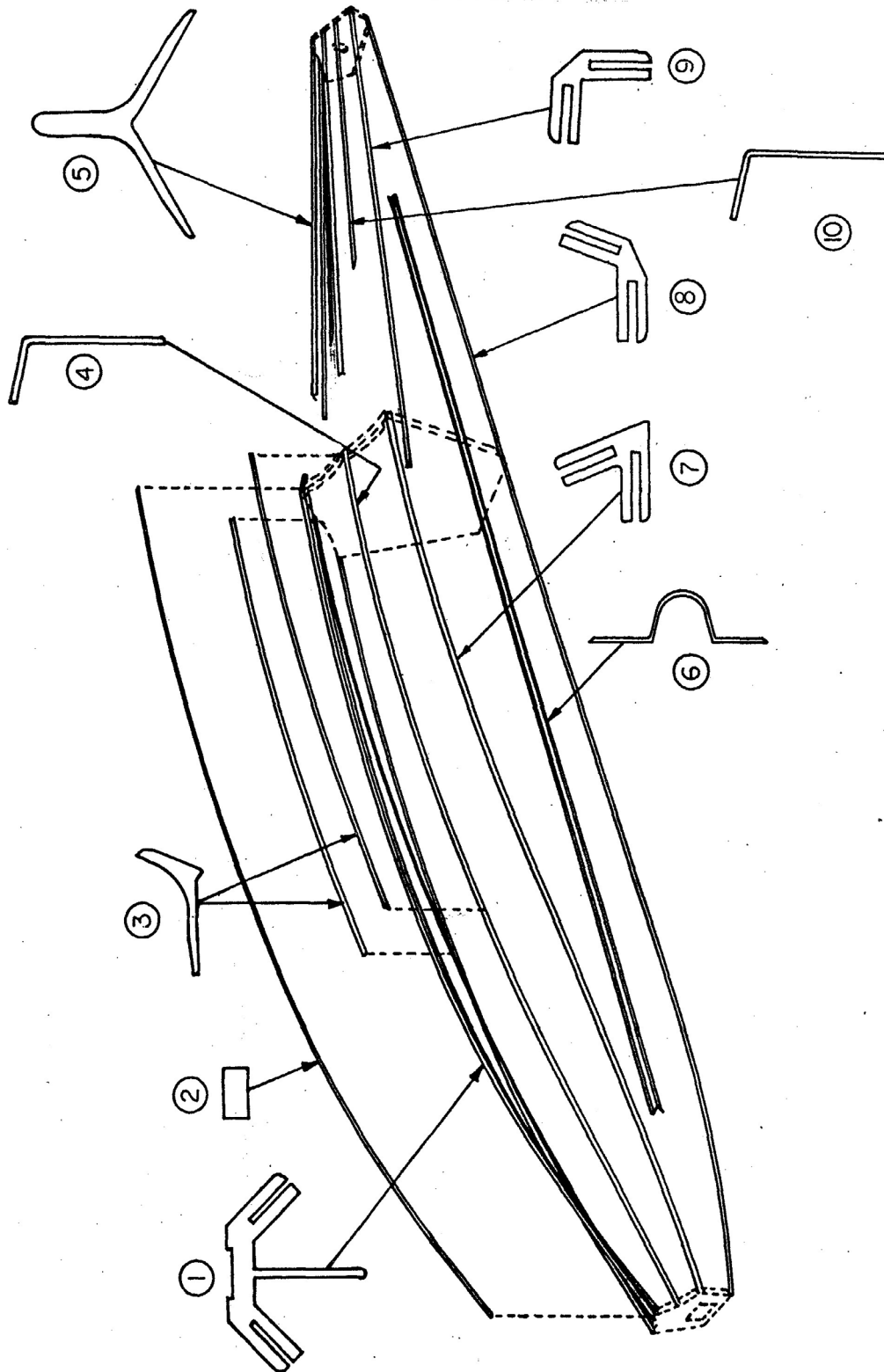
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**SECTION 5**  
**EXTRUSIONS**

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## HULL EXTRUSIONS



PARTS MANUAL  
8000 FLOATS ON DEHAVILLAND DHC-3 SINGLE OTTER

| ITEM | QTY | PART NO.    | PART DESCRIPTION           |
|------|-----|-------------|----------------------------|
| 1    | 1   | 8A01354-005 | KEEL-MAIN                  |
| 2    | 1   | 8A01200-003 | WEAR STRIP                 |
|      | 2   | MS24693S50  | SCREW-ATTACH               |
|      | 1   | 1838 B/A    | GLUE KIT                   |
| 3    | 1   | 8A01342-005 | SISTER KEEL, OUTER, LT     |
|      | 1   | 8A01342-006 | SISTER KEEL, OUTER, RT     |
| 4    | 1   | 8A01361-014 | SISTER KEEL, INNER, RT     |
|      | 1   | 8A01361-015 | SISTER KEEL, INNER, LT     |
| 5    | 1   | 8A01347-005 | KEEL, AFT                  |
| 6    | 1   | 8A01353-002 | STIFFENER, SIDE SKIN, RT   |
|      | 1   | 8A01353-003 | STIFFENER, SIDE SKIN, LT   |
| 7    | 1   | 8A01351-005 | CHINE, FWD, LT             |
|      | 1   | 8A01351-006 | CHINE, FWD, RT             |
| 8    | 1   | 8A01366-005 | GUNWALL, LT                |
|      | 1   | 8A01366-006 | GUNWALL, RT                |
| 9    | 1   | 8A01363-005 | CHINE, AFT. LT.            |
|      | 1   | 8A01363-006 | CHINE, AFT. RT.            |
| 10   | 1   | 8A01361-018 | SISTER KEEL, INBD, AFT, RT |
|      | 1   | 8A01361-019 | SISTER KEEL, INDB, AFT, LT |
|      | 1   | 8A01361-017 | SISTER KEEL, OTBD, AFT, LT |
|      | 1   | 8A01361-016 | SISTER KEEL, OTBD, AFT, RT |

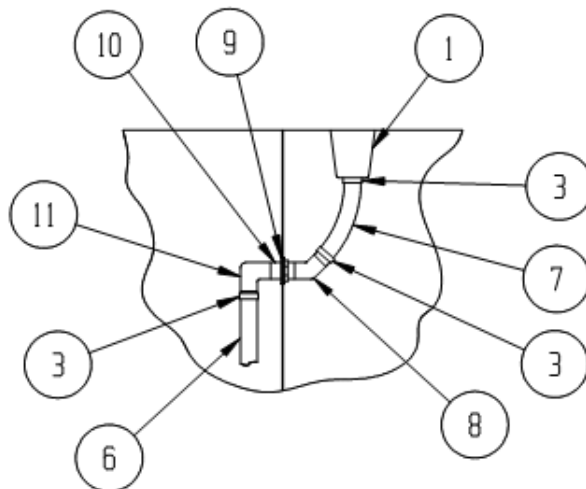
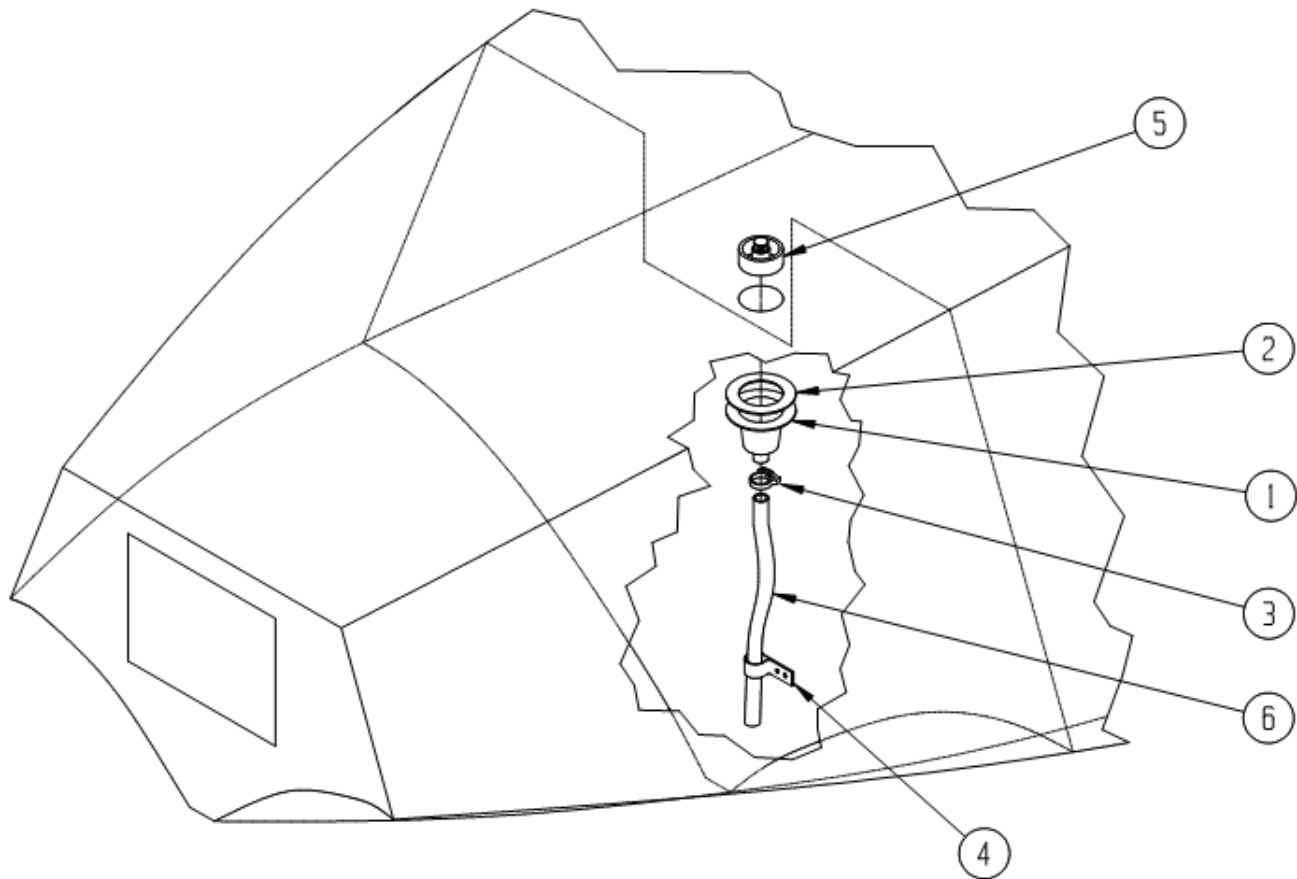
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**SECTION 6**  
**PUMPER TUBE INSTALLATION**

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## PUMPER TUBE



BULKHEAD #11 & #18



PARTS MANUAL  
8000 FLOATS ON DEHAVILLAND DHC-3 SINGLE OTTER

| ITEM | QTY | PART NO.    | PART DESCRIPTION                                          |
|------|-----|-------------|-----------------------------------------------------------|
| 1    | 1   | 1011004     | ASSEMBLY, CUP, PUMPOUT, DUCKBILL                          |
|      | 1   | 4A01749-001 | PUMP-OUT CUP                                              |
|      | 1   | 1011808     | RETAINER, VALVE, DUCKBILL, PUMPOUT PLUG                   |
| 2    | 1   | 3A01158-005 | RING, REINFORCEMENT (PLASTIC CUPS ONLY)                   |
|      | A/R | AN470A4-5   | RIVETS (SOFT) (PLASTIC CUPS ONLY)                         |
| 3    | 1   | 57134       | CLAMP, PLASTIC, WHITE                                     |
| 4    | 1   | 3A01158-003 | CLAMP, PUMP OUT TUBE                                      |
| 5    |     | 1011870     | VALVE, DUCKBILL (NEW STYLE)                               |
|      | 1   | 2111        | STOPPER, PUMPER TUBE (OLD STYLE)                          |
| 6    | 1   | 8A01618-020 | PUMPER TUBE, STN #5, 30"                                  |
|      | 1   | 8A01618-021 | PUMPER TUBE, STN #8, 36.5"                                |
|      | 1   | 8A01618-022 | PUMPER TUBE, STN #11, 30.75" FRONT                        |
|      | 1   | 8A01618-023 | PUMPER TUBE, STN #11, 59" BACK                            |
|      | 1   | 8A01618-024 | PUMPER TUBE, STN #16/17, 37" FRONT                        |
|      | 2   | 8A01618-025 | PUMPER TUBE, STN W/W, 28.5"                               |
|      | 1   | 8S01618-032 | PUMPER TUBE, STN #16, 47.25" (USE IN PLACE OF -025 ABOVE) |
|      | 1   | 8A01618-027 | PUMPER TUBE, STN #18, 26.5"                               |
|      | 1   | 8A01618-028 | PUMPER TUBE, STN #19, 23"                                 |
|      | 1   | 8A01618-029 | PUMPER TUBE, STN #20, 19.5"                               |
|      | 1   | 8A01618-030 | PUMPER TUBE, STN #21, 16.5"                               |
|      | 1   | 8A01618-031 | PUMPER TUBE, STN #22, 12.5"                               |
| 7    | 2   | 9"          | GARDEN HOSE                                               |
| 8    | 2   | ½" PVC      | 45° ELBOW                                                 |
| 9    | 2   | MS35489-19  | GROMMET                                                   |
| 10   | 2   | 1 3/8"      | ½" PVC                                                    |
| 11   | 2   | ½" PVC      | 90° ELBOW (ENOUGH FOR EACH FLOAT STN 7-10)                |

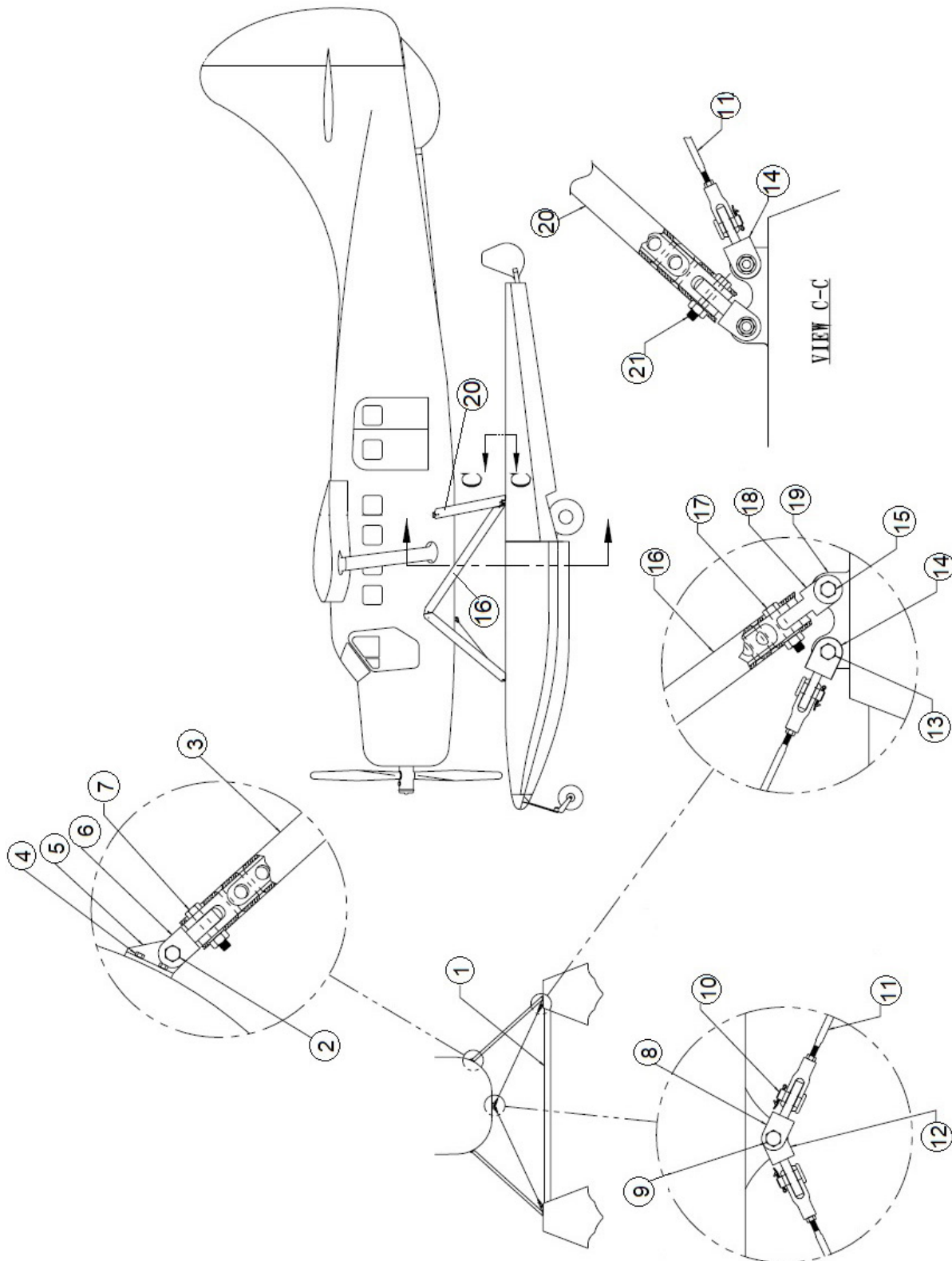
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## STRUTS, SPREADER BARS, AND STEPS

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## STRUTS AND DRAG WIRES (AFT)

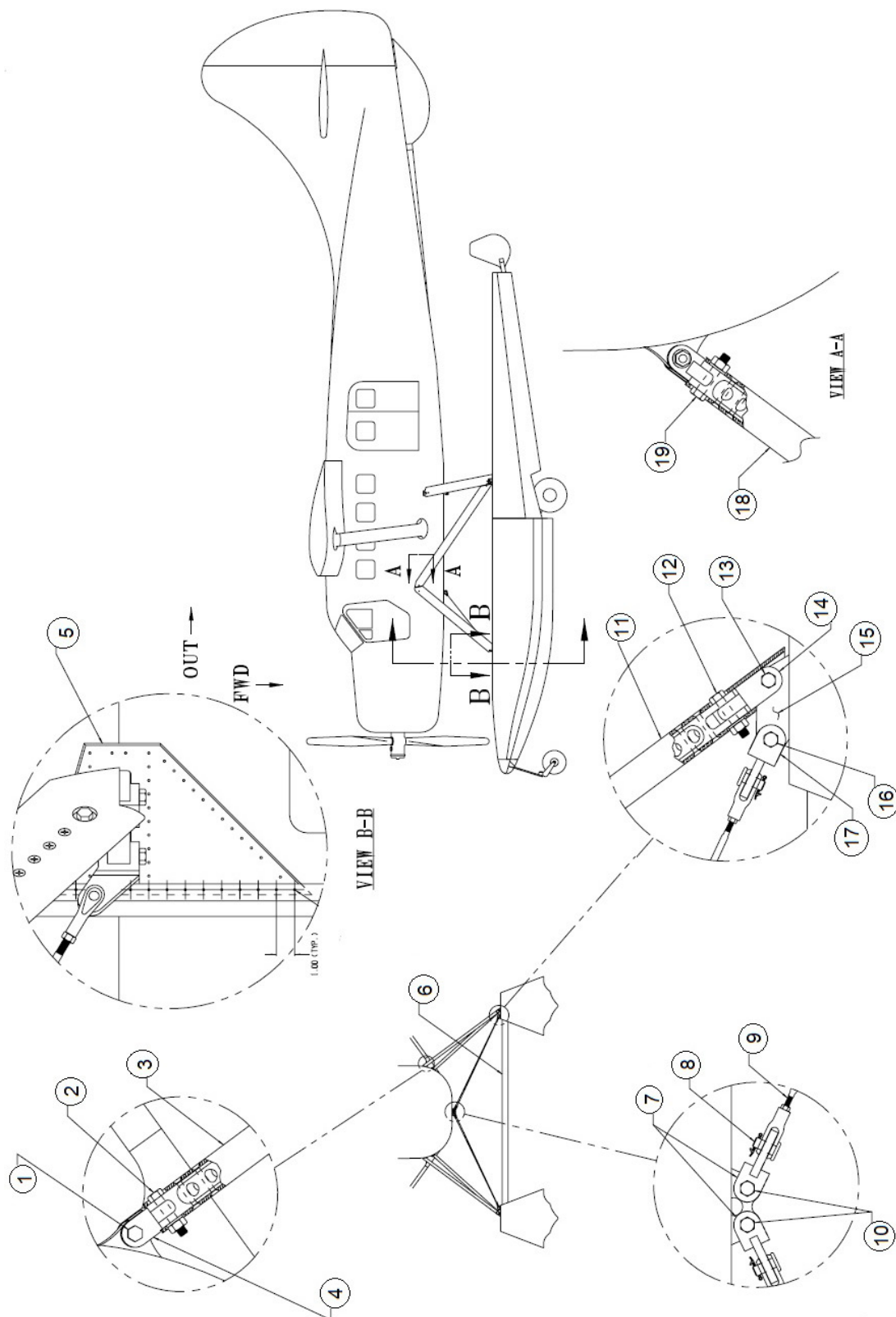


PARTS MANUAL  
8000 FLOATS ON DEHAVILLAND DHC-3 SINGLE OTTER

| ITEM | QTY | PART NO.      | PART DESCRIPTION                                    |
|------|-----|---------------|-----------------------------------------------------|
| 1    | 1   | 9A03000-019   | ASSEMBLY, SPREADER BAR, REAR                        |
|      | 6   | AN8-32A       | BOLT, 1/2-20 THREAD, 2-9/16" GRIP, 3-11/32" LENGTH  |
|      | 2   | AN8-34A       | BOLT, 1/2-20 THREAD, 2-13/16" GRIP, 3-19/32" LENGTH |
|      | 8   | NAS1149F0863P | WASHER                                              |
|      | 8   | MS21044N8     | NUT                                                 |
| 2    | 2   | AN10-25A      | BOLT                                                |
|      | 2   | NAS11491063P  | WASHER                                              |
|      | 2   | MS21044N10    | NUT                                                 |
| 3    | 2   | 9A02000-122   | ASSY, REAR STRUT                                    |
| 4    | 8   | AN5-6A        | BOLT                                                |
|      | 8   | NAS1149F0563P | WASHER                                              |
| 5    | 2   | 9A02000-108   | ASSY, FITTING, REAR STRUT, FUSELAGE                 |
| 6    | 2   | 9A02059-008   | FITTING, STRUT, REAR, UPPER                         |
| 7    | 2   | AN10-23A      | BOLT                                                |
|      | 2   | NAS11491063P  | WASHER                                              |
|      | 2   | MS21044N10    | NUT                                                 |
| 8    | 1   | 9A02056-012   | FITTING, RR DRAG WIRE, UPPER                        |
| 9    | 1   | 9A02734-001   | BOLT                                                |
|      | 1   | NAS1149F0863P | WASHER                                              |
|      | 1   | MS21083N8     | NUT                                                 |
| 10   | 2   | AN399-31      | PIN                                                 |
|      | 2   | MS24665-353   | COTTER PIN                                          |
| 11   | 2   | 9A02000-110   | ASSY, REAR DRAG WIRE                                |
| 12   | 1   | 9A02059-007   | FITTING, RR DRAG WIRE, UPPER                        |
| 13   | 2   | AN9-30A       | BOLT                                                |
|      | 2   | NAS1149F0932P | WASHER                                              |
|      | 2   | MS21044N9     | NUT                                                 |
| 14   | 2   | 9A02056-013   | FITTING, DRAG WIRE, AFT LOWER                       |
| 15   | 2   | AN10-31A      | BOLT                                                |
|      | 2   | NAS11491063P  | WASHER                                              |
|      | 2   | MS21044N10    | NUT                                                 |
| 16   | 1   | 9A02000-119   | ASSY, CENTER STRUT                                  |
| 17   | 2   | AN8-22A       | BOLT                                                |
|      | 2   | NAS1149F0863P | WASHER                                              |
|      | 2   | MS21044N8     | NUT                                                 |
| 18   | 1   | 9A02057-003   | FITTING, REAR STRUT, LOWER, LEFT                    |
|      | 1   | 9A02057-004   | FITTING, REAR STRUT, LOWER, RIGHT                   |
| 19   | 1   | 9A02113-001   | FITTING, FLOAT, REAR STRUT, LH                      |
|      | 1   | 9A02113-002   | FITTING, FLOAT, REAR STRUT, RH                      |
|      | 12  | 8A02095-001   | BUSHING, STRUT                                      |
|      | 6   | AN6-26A       | BOLT                                                |

| ITEM | QTY | PART NO.      | PART DESCRIPTION |
|------|-----|---------------|------------------|
|      | 4   | AN6-25A       | BOLT             |
|      | 10  | NAS1149F0663P | WASHER           |
|      | 10  | MS21044N6     | NUT              |
| 20   | 1   | 9A02000-122   | ASSY, REAR STRUT |
| 21   | 2   | AN10-23A      | BOLT             |
|      | 2   | NAS11491063P  | WASHER           |
|      | 2   | MS21044N10    | NUT              |

## STRUTS AND DRAG WIRES (FWD)



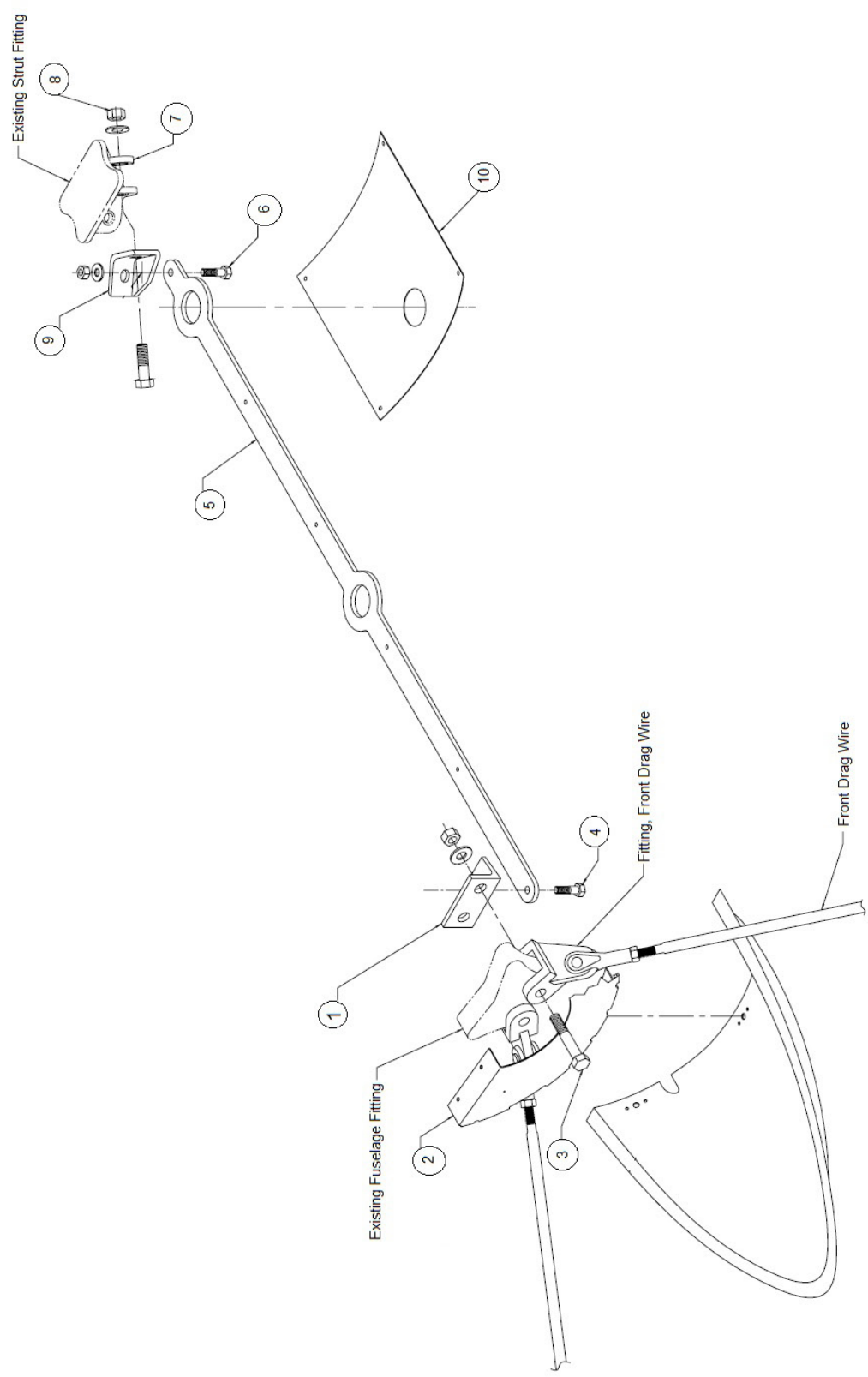
| ITEM | QTY | PART NO.      | PART DESCRIPTION                         |
|------|-----|---------------|------------------------------------------|
| 1    | 2   | 9A02547-002   | BUSHING                                  |
|      | 2   | AN8-31A       | BOLT                                     |
|      | 2   | NAS1149F0863P | WASHER                                   |
|      | 2   | MS21044N8     | NUT                                      |
| 2    | 2   | AN8-22A       | BOLT                                     |
|      | 2   | NAS1149F0863P | WASHER                                   |
|      | 2   | MS21044N8     | NUT                                      |
| 3    | 2   | 9A02000-118   | ASS'Y - FRONT STRUT                      |
| 4    | 1   | 9A02066-009   | FITTING. STRUT FWD, LEFT                 |
|      | 1   | 9A02066-008   | FITTING. STRUT FWD, RIGHT                |
| 5    | 1   | 9A01001-045   | SUPPORT, FRONT DECK FITTING, STRUT LEFT  |
|      | 1   | 9A01001-046   | SUPPORT, FRONT DECK FITTING, STRUT RIGHT |
| 6    | 1   | 9A03000-018   | ASSEMBLY, SPREADER BAR, FRONT            |
|      | 8   | AN8-32A       | BOLT                                     |
|      | 8   | NAS1149F0863P | WASHER                                   |
|      | 8   | MS21044N8     | NUT                                      |
| 7    | 2   | 9A02066-006   | FITTING, RR DRAG WIRE, UPPER             |
| 8    | 2   | AN399-31      | PIN                                      |
|      | 2   | MS24665-353   | COTTER PIN                               |
| 9    | 2   | 9A02000-109   | ASS'Y DRAG WIRE                          |
| 10   | 2   | AN10-33A      | BOLT                                     |
|      | 2   | NAS11491063P  | WASHER                                   |
|      | 2   | MS21044N10    | NUT                                      |
| 11   | 1   | 9A02000-118   | ASS'Y, FRONT STRUT                       |
| 12   | 2   | AN8-22A       | BOLT                                     |
|      | 2   | NAS1149F0863P | WASHER                                   |
|      | 2   | MS21044N8     | NUT                                      |
| 13   | 2   | AN8-30A       | BOLT                                     |
|      | 2   | NAS1149F0863P | WASHER                                   |
|      | 2   | MS21044N8     | NUT                                      |
| 14   | 1   | 9A02066-007   | FITTING, LINK, FRONT STRUT, LWR, LEFT    |
|      | 1   | 9A02066-004   | FITTING, LINK, FRONT STRUT, LWR, RIGHT   |
| 15   | 2   | 9A02111-001   | FITTING, FRONT STRUT, FLOAT              |
|      | 10  | AN6-27A       | BOLT                                     |
|      | 10  | NAS1149F0663P | WASHER                                   |
|      | 10  | MS21044N6     | NUT                                      |
| 16   | 2   | AN9-30A       | BOLT                                     |
|      | 2   | NAS1149F0932P | WASHER                                   |
|      | 2   | MS21044N9     | NUT                                      |
| 17   | 2   | 9A02066-005   | FITTING DRAG WIRE                        |
| 18   | 2   | 9A02000-119   | ASSY, CENTER STRUT                       |



PARTS MANUAL  
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| ITEM | QTY | PART NO.      | PART DESCRIPTION |
|------|-----|---------------|------------------|
| 19   | 2   | AN8-22A       | BOLT             |
|      | 2   | NAS1149F0863P | WASHER           |
|      | 2   | MS21044N8     | NUT              |

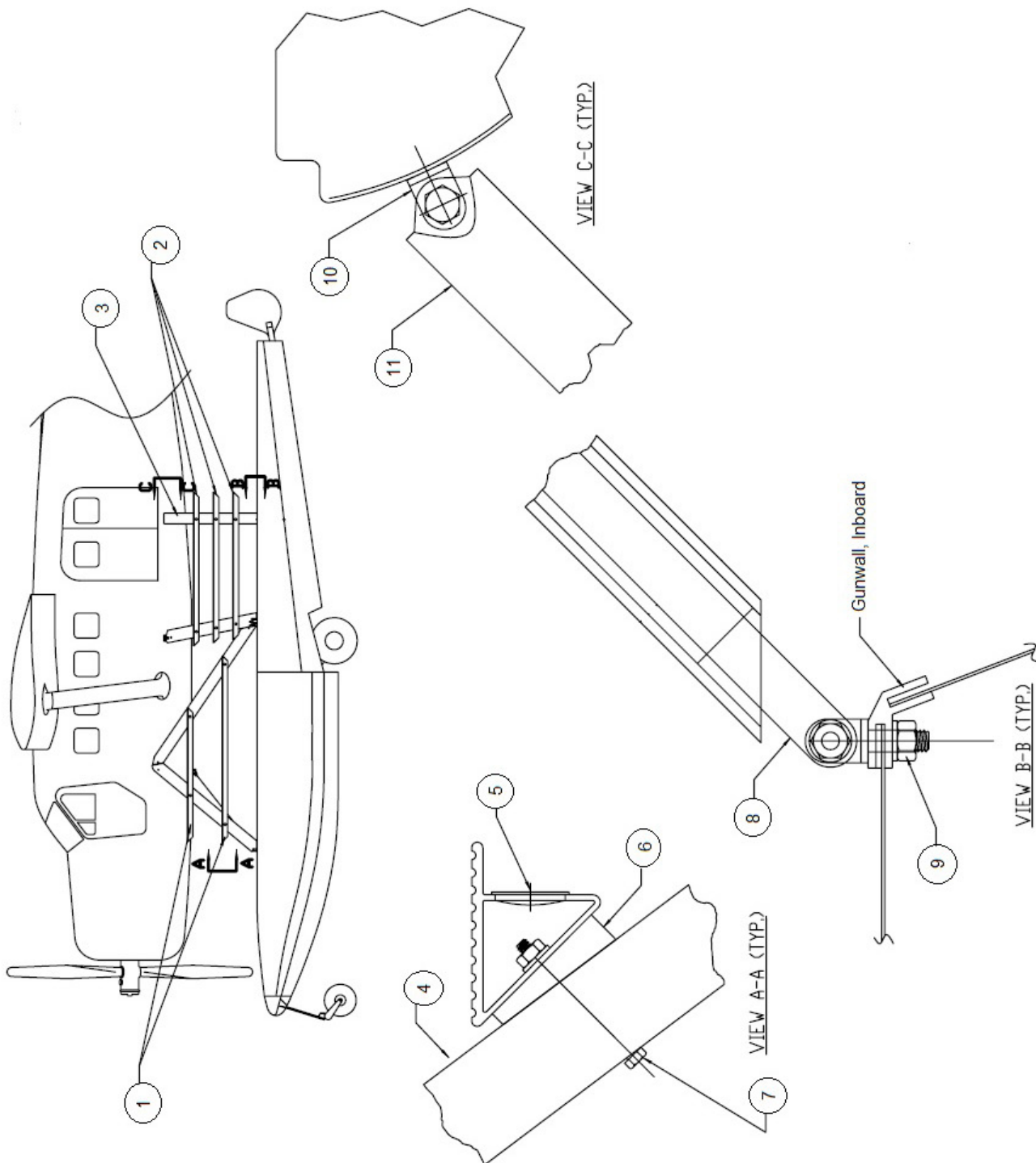
FWD DRAG WIRES SUPPORT



PARTS MANUAL  
8000 FLOATS ON DEHAVILLAND DHC-3 SINGLE OTTER

| ITEM | QTY | PART NO.      | PART DESCRIPTION                 |
|------|-----|---------------|----------------------------------|
| 1    | 1   | 9A02059-009   | FITTING, DRAG WIRE, SUPPORT, FWD |
| 2    | 1   | 9A02000-121   | STRUT STEP ASSY-PILOT, DHC       |
| 3    | 2   | AN10-33A      | BOLT                             |
|      | 2   | NAS11491063P  | WASHER                           |
|      | 2   | MS21044N10    | NUT                              |
| 4    | 1   | AN6-11A       | BOLT                             |
|      | 1   | NAS1149F0663P | WASHER                           |
|      | 1   | MS21044N6     | NUT                              |
| 5    | 1   | 9A02234-001   | SUPPORT, DRAG WIRE, FRONT        |
| 6    | 1   | AN6-11A       | BOLT                             |
|      | 1   | NAS1149F0663P | WASHER                           |
|      | 1   | MS21044N6     | NUT                              |
| 7    | 2   | 9A02276-002   | WASHER, DRAG WIRE, SUPPORT       |
| 8    | 2   | AN8-15A       | BOLT                             |
|      | 2   | NAS1149F0863P | WASHER                           |
|      | 2   | MS21044N8     | NUT                              |
| 9    | 1   | 9A02043-001   | FITTING, DRAG WIRE SUPPORT       |
| 10   | 1   | 9A08005-251   | COVER-BELLY                      |

## FUSELAGE STEP ASSEMBLY



PARTS MANUAL  
8000 FLOATS ON DEHAVILLAND DHC-3 SINGLE OTTER

| ITEM | QTY | PART NO.       | PART DESCRIPTION           |
|------|-----|----------------|----------------------------|
| 1    | 1   | 9A02369-019    | STEP, PILOT, TOP           |
|      | 1   | 9A02369-020    | STEP, COPILOT, TOP         |
|      | 1   | 9A02369-021    | STEP, PILOT, LOWER         |
|      | 1   | 9A02369-022    | STEP, COPILOT, LOWER       |
| 2    | 1   | 9A02369-023    | STEP, BOARDING, TOP, LH    |
|      | 1   | 9A02369-024    | STEP, BOARDING, TOP, RH    |
|      | 1   | 9A02369-025    | STEP, BOARDING, LOWER, LH  |
|      | 1   | 9A02369-026    | STEP, BOARDING, LOWER, RH  |
|      | 1   | 9A02369-028    | STEP, BOARDING, MIDDLE, RH |
|      | 1   | 9A02369-029    | STEP, BOARDING, MIDDLE, LH |
| 3    | 1   | 9A02000-121    | ASSY, STEP STRUT           |
|      | 1   | 9A02000-120    | ASSY, STEP STRUT           |
| 4    | 1   | 9A02000-118    | ASS'Y - FRONT STRUT        |
| 5    | 20  | BPF            | HOLE PLUG, 1"              |
| 6    | 20  | 9A02604-002    | SPACER - STEP              |
| 7    | 14  | AN3-32A        | BOLT (FLOAT STRUTS)        |
|      | 6   | AN3-22A        | BOLT (STEP STRUTS)         |
|      | 20  | NAS11491063P   | WASHER                     |
|      | 20  | MS21044N10     | NUT                        |
| 8    | 1   | 8A02273-007    | ROD, SLIDE, FLOAT          |
|      | 2   | AN4-12A        | BOLT                       |
|      | 2   | NAS1149F0363P  | WASHER                     |
|      | 2   | MS21044N8      | NUT                        |
| 9    | 2   | AN44-6A        | EYE BOLT                   |
|      | 2   | NAS1149F0563PL | WASHER                     |
|      | 1   | MS21044N8      | NUT                        |
| 10   | 2   | AN43-5A        | EYEBOLT                    |
| 11   | 2   | AN3-13A        | BOLT                       |
|      | 2   | NAS11491063PL  | WASHER                     |
|      | 2   | MS21044N8      | NUT                        |

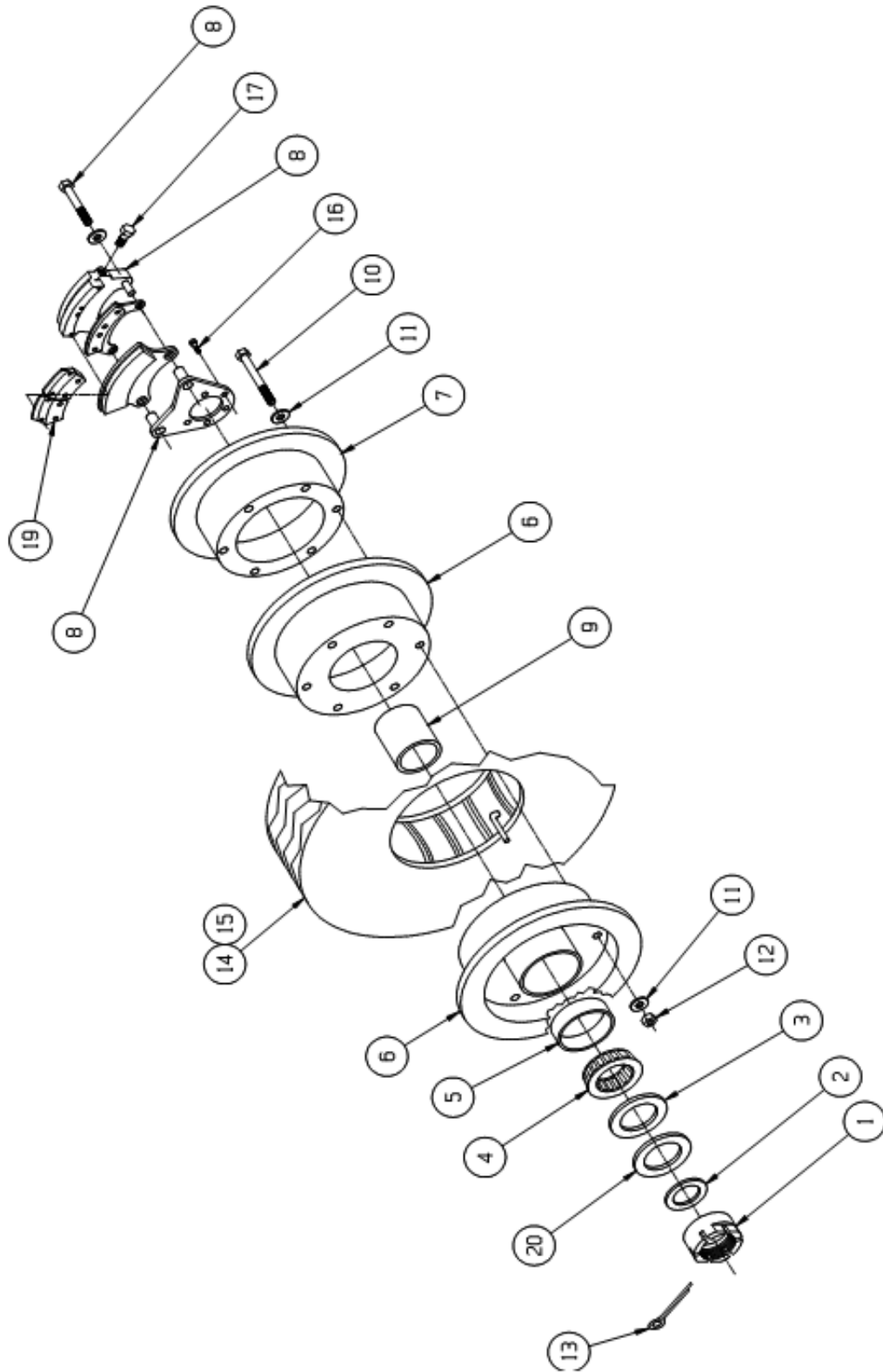
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## SECTION 8 LANDING GEAR

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## CLEVELAND/PARKER MAIN GEAR WHEEL ASSEMBLY





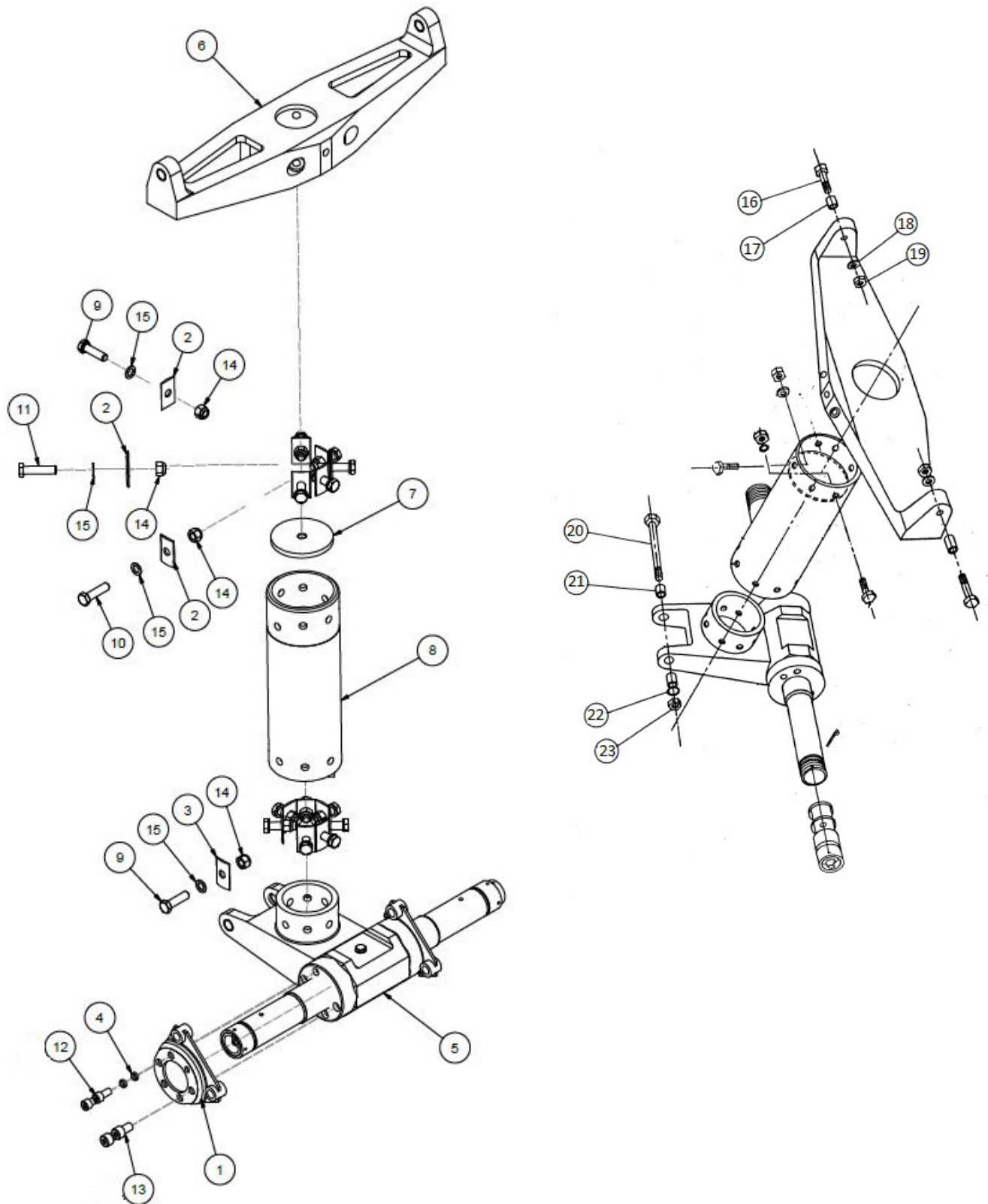
PARTS MANUAL  
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| ITEM | QTY | PART NO.      | PART DESCRIPTION                                                         |
|------|-----|---------------|--------------------------------------------------------------------------|
| -    | 1   | 8A04000-031   | MAIN WHEEL ASSEMBLY                                                      |
| 1    | 1   | MS21025-24    | NUT, AXLE                                                                |
| 2    | 2   | 6A04093-002   | SPACER, MAIN WHEEL AXLE                                                  |
| 3    | 1   | 472439        | SEAL, OUTSIDE (DRILL #50 HOLE, OUTSIDE FACE)                             |
|      | 1   | 473232        | SEAL, INSIDE                                                             |
| 4    | 2   | 13889         | BEARING CUP, NON-CHROME (ORIG EQUIP FOR 40-418-3)                        |
|      | 2   | 13836CP       | BEARING CUP, CHROME (ORIG EQUIP FOR 40-418)                              |
| 5    | 2   | 13836         | BEARING CONE, NON-CHROME (ORIG EQUIP FOR 40-418-3)                       |
|      | 2   | 13889CP       | BEARING CONE, CHROME (ORIG EQUIP FOR 40-418)                             |
| 6    | 1   | 40-418-3      | WHEEL ASS'Y. (NAMEPLATE READS "40-418B",<br>INCLUDES ITEMS 3-5, 7, 9-12) |
|      | 1   | 40-418 (ALT)  | WHEEL ASS'Y. (ALTERNATE, INCLUDES ITEMS 3-5, 7, 9-12)                    |
| 7    | 1   | 164-24501     | BRAKE DISC, CHROME PLATED (ORIG EQUIP FOR 40-418-3)                      |
|      | 1   | 164-24500     | BRAKE DISC, NON-CHROME (ORIG EQUIP FOR 40-418)                           |
| 8    | 1   | 30-241        | BRAKE ASS'Y, COMPLETE                                                    |
|      | 1   | 6A04000-104   | ASS'Y, BRAKE CALIPER, RT                                                 |
|      | 1   | 6A04000-105   | ASS'Y, BRAKE CALIPER, LT                                                 |
|      | 1   | 075-20700     | BRAKE TORQUE PLATE                                                       |
|      | 2   | 145-01000     | BUSHING                                                                  |
|      | 2   | 066-10500     | BRAKE PADS (NEW STYLE ONLY)                                              |
|      | -   | 066-30026     | BRAKE PADS (OLD STYLE)                                                   |
|      | 4   | MS21250H04026 | BOLTS (BRAKE PADS)                                                       |
|      | 4   | MS20002C4     | BRAKE PAD BOLT WASHERS                                                   |
|      | 4   | 105-00200     | RIVETS (BRAKE PADS)                                                      |
|      | 1   | 081-00200     | BLEEDER SEAT                                                             |
|      | 1   | 079-00300     | BLEEDER SCREW                                                            |
|      | 1   | 183-00100     | BLEEDER CAP                                                              |
|      | 2   | 069-03100     | ANCHOR BOLT                                                              |
|      | 2   | 062-10700     | PISTON                                                                   |
|      | 2   | MS28775-222   | "O" RING PISTON                                                          |
|      | 1   | MS28775-012   | "O" RING BLEEDER                                                         |
| 9    | 1   | 067-14700     | RETAINER-GREASE                                                          |
| 10   | 6   | AN5-35A       | BOLT-WHEEL HALF                                                          |
| 11   | 12  | NAS1149D0563J | WASHER                                                                   |
| 12   | 6   | MS21042-5     | NUT                                                                      |
| 13   | 1   | MS24665-353   | COTTER PIN                                                               |
| 14   | 1   | AA1E6*        | TIRE-6:00 X 6-8 PLY (TYPE III)                                           |
| 15   | 1   | XA1AD*        | TIRE TUBE, 6.00 X X6                                                     |
| 16   | 3   | MS16997-96    | CAP SCREW                                                                |
|      | 3   | MS16997-77    | CAP SCREW                                                                |
| 17   | 1   | 104-04700     | FITTING                                                                  |

| ITEM | QTY | PART NO.    | PART DESCRIPTION           |
|------|-----|-------------|----------------------------|
|      | 1   | MS28775-011 | "O" RING                   |
| 18   | 1   | 073-04200   | PRESSURE PLATE (WITH PADS) |
| 19   | 1   | 074-02900   | BACK PLATE (WITH PADS)     |
| 20   | 2   | 155-14300   | SNAP RING                  |

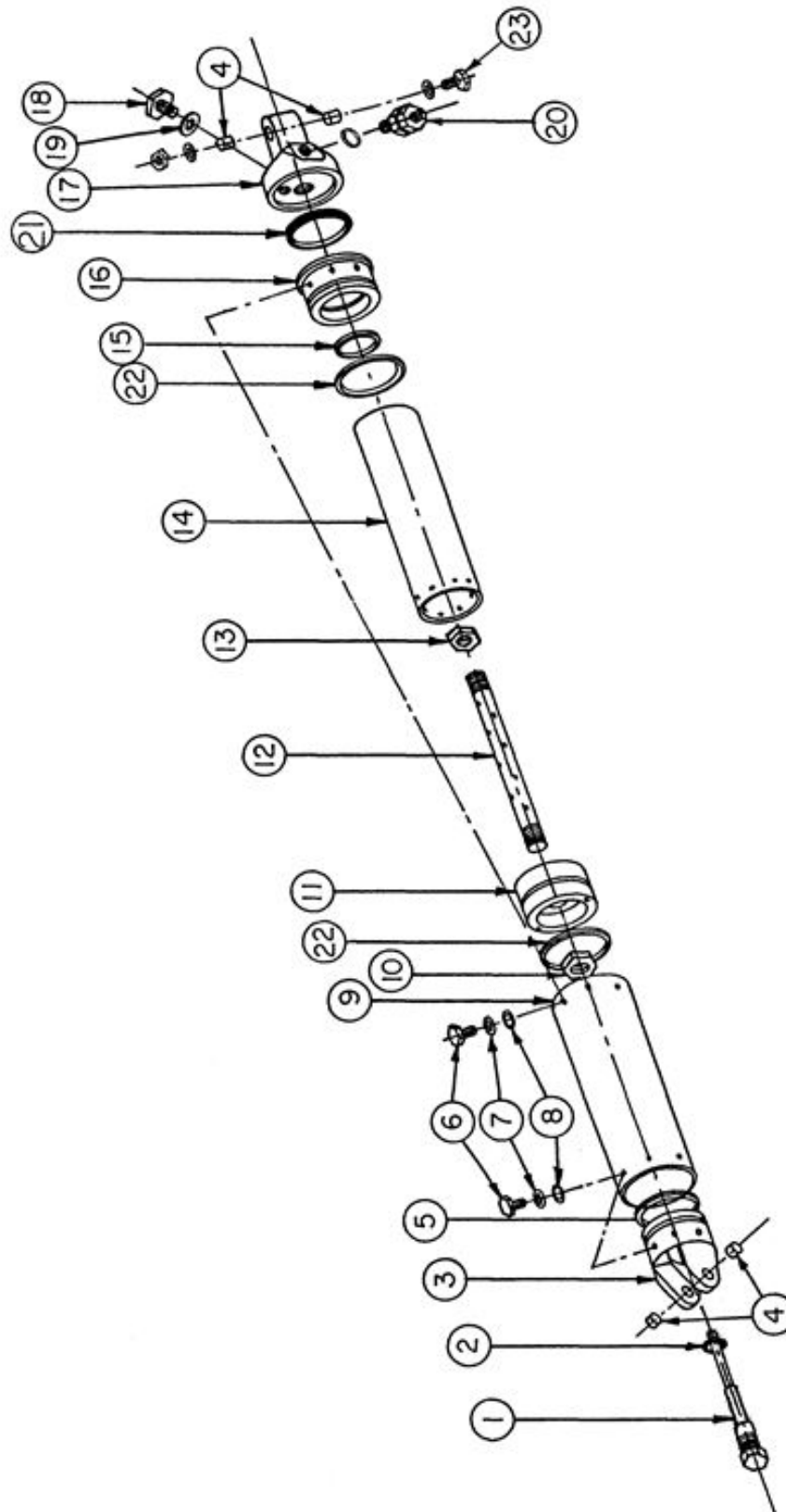
\* Any alternate tire (tube type) which is TSO-approved, matches the listed tire's dimensions, and meets its speed/load/ply ratings may be used. Equivalent tubes may also be used.

## MAIN GEAR AXLE WITHOUT WHEELS ASSEMBLY



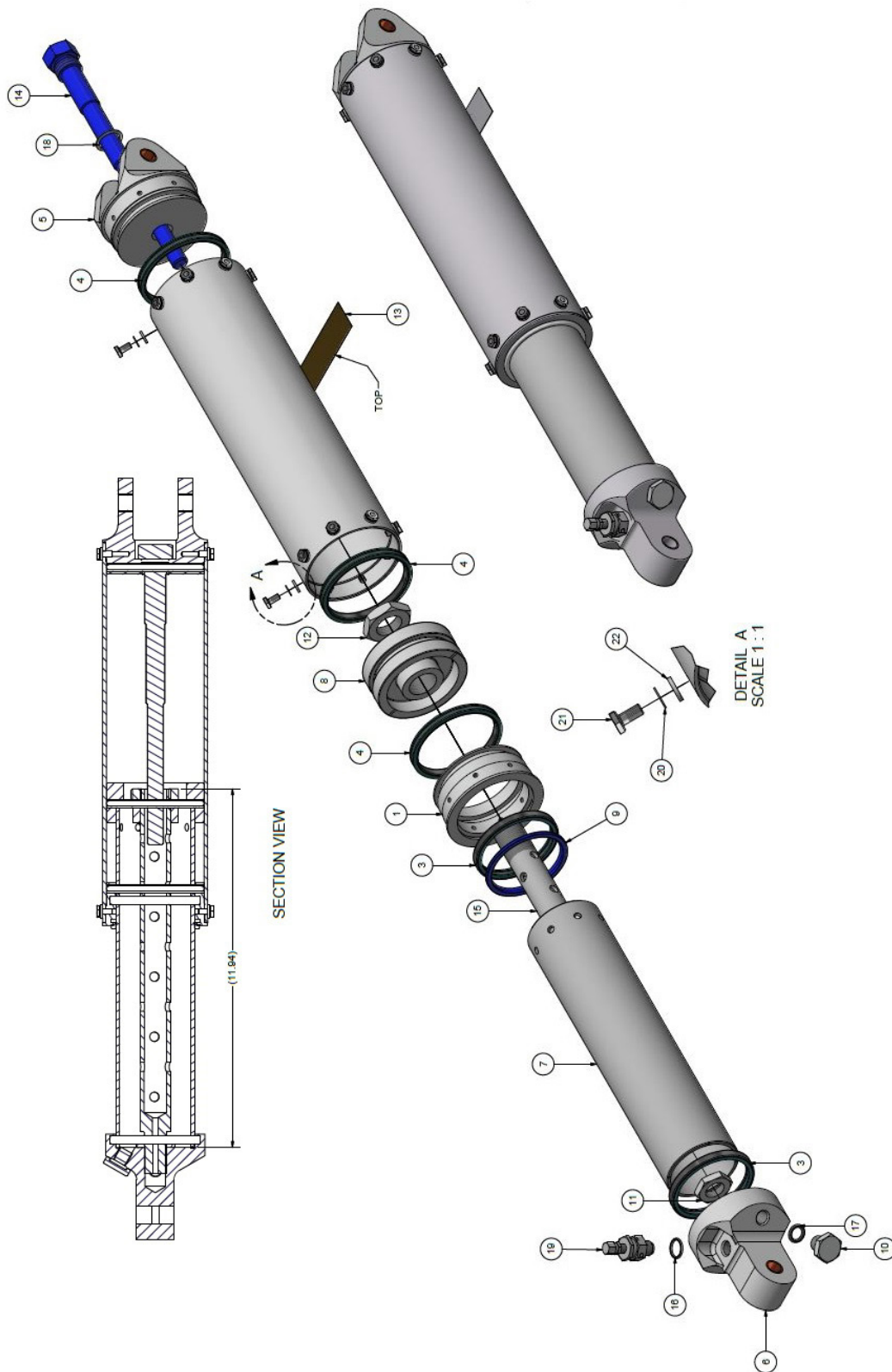
| ITEM | QTY | PART NO.      | PART DESCRIPTION                                                             |
|------|-----|---------------|------------------------------------------------------------------------------|
| -    | 1   | 8A04000-019   | ASSEMBLY, MAIN GEAR, W/O WHEELS                                              |
| 1    | 2   | 075-20700     | TORQUE PLATE                                                                 |
| 2    | 8   | 1009495       | WASHER, CUSTOM, DRAG BRACE, UPPER                                            |
| 3    | 8   | 1009496       | WASHER, CUSTOM, DRAG BRACE, LOWER                                            |
| 4    | 4   | 30A04523-002  | BUSHING, TORQUE PLATE                                                        |
| 5    | 1   | 8A04000-021   | ASSEMBLY, AXLE, MAIN GEAR                                                    |
| 6    | 1   | 8A04103-001   | ASSEMBLY, DRAG BRACE                                                         |
| 7    | 1   | 8A04154-004   | PLUG - SUPPORT DRAG BRACE TUBE                                               |
| 8    | 1   | 8A04296-002   | TUBE - DRAG BRACE - MAIN GEAR                                                |
| 9    | 10  | AN6-12A       | BOLT, 3/8-24, 0.6875 GRIP, UNDRILLED, STEEL                                  |
| 10   | 2   | AN6-13A       | BOLT, 3/8-24, 0.8125 GRIP, UNDRILLED, STEEL                                  |
| 11   | 4   | AN6-14A       | BOLT, 3/8-24, .938 GRIP, UNDRILLED, STEEL                                    |
| 12   | 4   | MS16997-77    | SOCKET HEAD CAP SCREW                                                        |
| 13   | 4   | MS16997-96    | SOCKET HEAD CAP SCREW                                                        |
| 14   | 16  | MS21044N6     | NUT, LOCKING, REGULAR HEIGHT, 3/8-24 UNF                                     |
| 15   | 16  | NAS1149D0663J | WASHER, 0.39 ID, 0.063 THK, ALUMINUM                                         |
| 16   | 2   | AN8-30        | BOLT, 1/2-20 THREAD, 2-5/16" GRIP, 3-3/32" LENGTH (NOT INCLUDED IN ASSEMBLY) |
| 17   | 2   | 08DU12        | BUSHING (NOT INCLUDED IN ASSEMBLY)                                           |
| 18   | 4   | NAS1149D0863J | WASHER, 0.515 ID, 0.063 THK, ALUMINUM (NOT INCLUDED IN ASSEMBLY)             |
| 19   | 2   | AN310-8       | NUT, PLAIN, CASTELLATED, 1/2-20 UNF (NOT INCLUDED IN ASSEMBLY)               |
|      | 2   | MS24665-285   | COTTER PIN (NOT INCLUDED IN ASSEMBLY)                                        |
| 20   | 1   | NAS6208-56D   | BOLT (NOT INCLUDED IN ASSEMBLY)                                              |
| 21   | 2   | 08DU08        | BUSHING (NOT INCLUDED IN ASSEMBLY)                                           |
| 22   | 2   | NAS1149D0863J | WASHER, 0.515 ID, 0.063 THK, ALUMINUM (NOT INCLUDED IN ASSEMBLY)             |
| 23   | 1   | AN320-8       | NUT, PLAIN, CASTELLATED, SHEAR, 1/2-20 UNF (NOT INCLUDED IN ASSEMBLY)        |
|      | 1   | MS24665-285   | COTTER PIN (NOT INCLUDED IN ASSEMBLY)                                        |

## OLEO SHOCK STRUT ASSEMBLY (O-RINGS INSTALLED)



| ITEM | QTY | PART NO.      | PART DESCRIPTION     |
|------|-----|---------------|----------------------|
| -    | 1   | 8A04000-020   | ASSEMBLY-SHOCK STRUT |
| 1    | 1   | 8A04261-004   | METERING ROD         |
| 2    | 1   | MS28775-116   | "O"RING              |
| 3    | 1   | 6A04256-003   | END CAP              |
| 4    | 2   | 08DU08        | BEARING              |
| 5    | 1   | MS28775-234   | "O"RING              |
| 6    | 16  | NAS6203-2     | BOLT                 |
| 7    | 16  | MS35333-39    | WASHER               |
| 8    | 16  | NAS1149D0363J | WASHER               |
| 9    | 1   | 8A04407-003   | OUTER CYLINDER       |
|      | 1   | 6A3-2169      | PLACARD              |
| 10   | 1   | 6A04276-001   | NUT-CHECK            |
| 11   | 1   | 8A04256-005   | PISTON-SHOCK STRUT   |
| 12   | 1   | 8A04270-003   | TUBE METERING        |
| 13   | 1   | 6A04275-001   | NUT-CHECK            |
| 14   | 1   | 8A04538-002   | INNER CYLINDER       |
| 15   | 1   | MS28775-334   | "O"RING              |
| 16   | 1   | 6A04296-001   | GLAND-OUTER CYLINDER |
| 17   | 1   | 6A04256-002   | END CAP-OLEO         |
|      | 1   | MS28775-231   | "O" RING             |
| 18   | 1   | 6A04271-003   | CAP                  |
| 19   | 1   | MS28775-111   | "O"RING              |
| 20   | 1   | MS28889-2     | VALVE                |
|      | 1   | MS28775-015   | "O" RING             |
| 21   | 1   | 6A04743-001   | WIPER                |
| 22   | 2   | MS28775-336   | "O"RING              |
| 23   | 1   | NAS6208-36D   | BOLT (UPPER END)     |
|      | 2   | NAS1149F0863P | WASHER               |
|      | 1   | AN320-8       | NUT                  |
|      | 1   | MS24665-353   | COTTER PIN           |

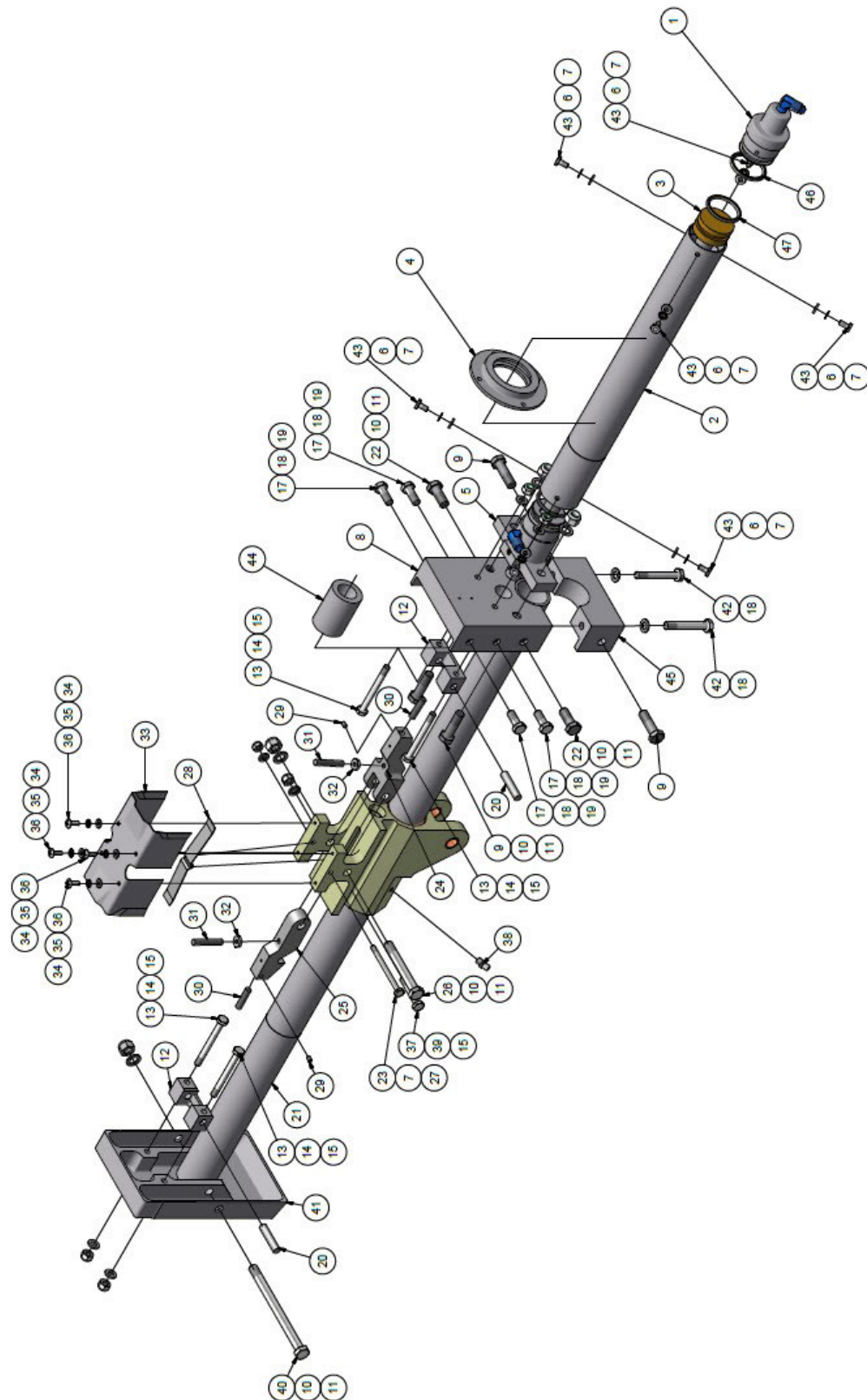
## OLEO SHOCK STRUT ASSEMBLY (T-SEALS INSTALLED) (OPTIONAL NEW VERSION)



| ITEM | QTY | PART NO.      | PART DESCRIPTION                                                      |
|------|-----|---------------|-----------------------------------------------------------------------|
| -    | 1   | 1002069       | ASSEMBLY, SHOCK STRUT, 8000                                           |
| 1    | 1   | 1002017       | GLAND - OUTER CYL - SHOCK STRUT                                       |
| 2    | 1   | 1002020       | CYLINDER, OUTER, SHOCK STRUT, 8000                                    |
| 3    | 2   | 1002027       | ROD, T-SEAL                                                           |
| 4    | 3   | 1002028       | PISTON, T-SEAL                                                        |
| 5    | 1   | 1002650       | CAP, END, SHOCK STRUT, W/BUSHINGS                                     |
| 6    | 1   | 1002651       | CAP, TOP, SHOCK STRUT, W/BUSHINGS                                     |
| 7    | 1   | 1002652       | CYLINDER, INNER, SHOCK STRUT, 8000                                    |
| 8    | 1   | 1002654       | PISTON, SHOCK STRUT, 8000                                             |
| 9    | 1   | 1009966       | WIPER, SHOCK STRUT, T-SEAL                                            |
| 10   | 1   | 6A04271-003   | PLUG, SHOCK STRUT                                                     |
| 11   | 1   | 6A04275-001   | NUT, CHECK, SHOCK STRUT                                               |
| 12   | 1   | 6A04276-001   | NUT, CHECK, SHOCK STRUT                                               |
| 13   | 1   | 6A3-2169      | PLACARD, HYDRAULIC CYLINDER                                           |
| 14   | 1   | 8A04261-004   | PIN, METERING, SHOCK STRUT, MAIN GEAR                                 |
| 15   | 1   | 8A04270-003   | TUBE - METERING, SHOCK STRUT                                          |
| 16   | 1   | MS28775-015   | "O" RING                                                              |
| 17   | 1   | MS28775-111   | "O" RING, HYDRAULIC                                                   |
| 18   | 1   | MS28775-116   | "O" RING                                                              |
| 19   | 1   | MS28889-2     | VALVE                                                                 |
| 20   | 16  | MS35333-39    | STAR WASHER                                                           |
| 21   | 16  | NAS1103-2     | BOLT                                                                  |
| 22   | 16  | NAS1149D0363J | WASHER, 0.203 ID, 0.063 THK, ALUMINUM                                 |
| 23   | 2   | MS28775-336   | O RING, DIA 2.855, AN6227-39 (NOT SHOWN)                              |
| 24   | 1   | NAS6208-36D   | BOLT (UPPER END) (NOT SHOWN)                                          |
|      | 2   | NAS1149F0863P | WASHER, CARBON STEEL, TO FIT DIA 1/2", STANDARD THICKNESS (NOT SHOWN) |
|      | 1   | AN320-8       | NUT, PLAIN, CASTELLATED, SHEAR, 1/2-20 UNF (NOT SHOWN)                |
|      | 1   | MS24665-353   | PIN, COTTER, 1/8" DIA, 1" LENGTH, CARBON STEEL (NOT SHOWN)            |



## MAIN GEAR SLIDE TUBE ASSEMBLY (O-RINGS INSTALLED)

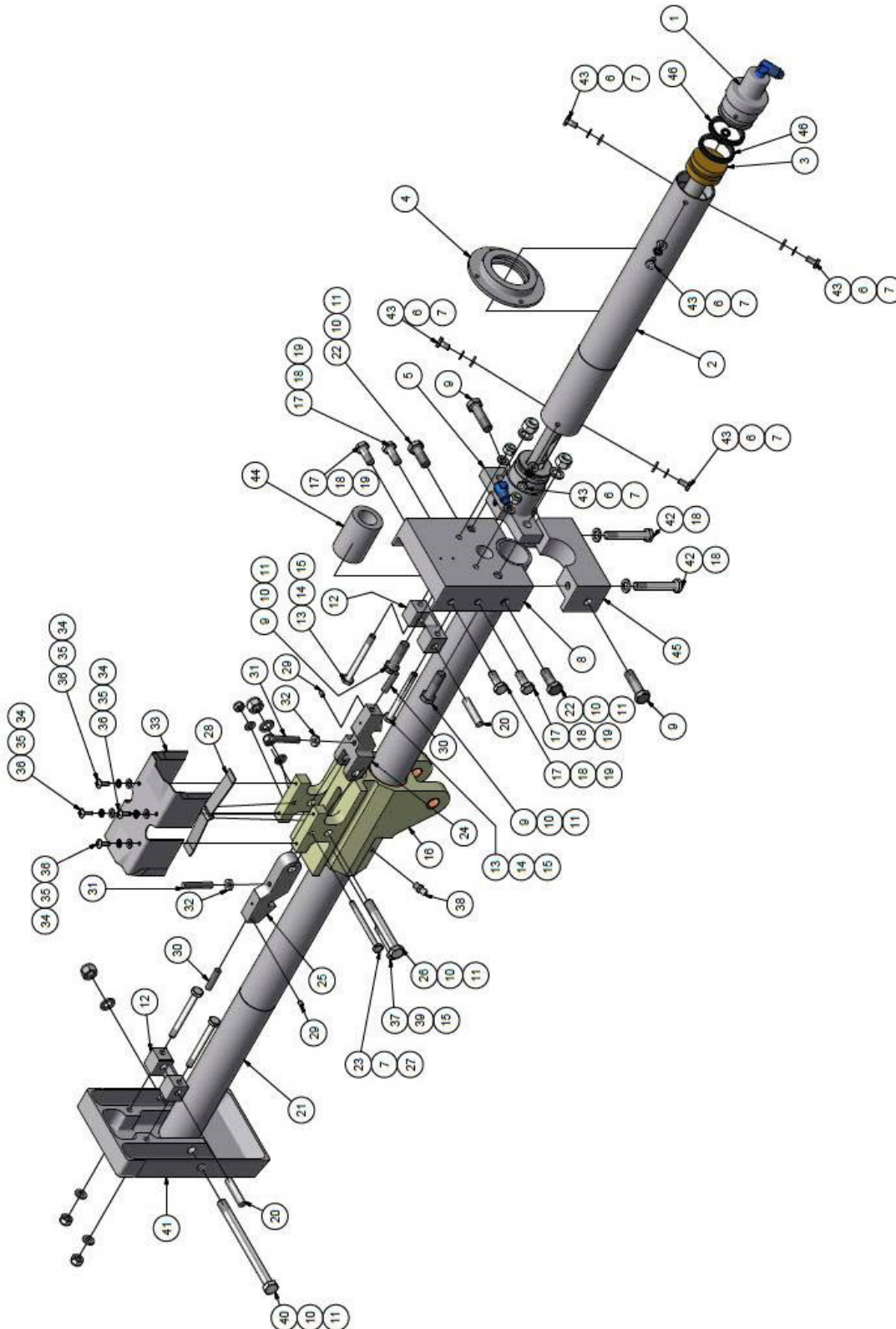


| ITEM | QTY | PART NO.      | PART DESCRIPTION                 |
|------|-----|---------------|----------------------------------|
| 1    | -   | 6A05000-007   | ASSY. END CAP-CYLINDER           |
|      | 1   | 6A05268-001   | END CAP, CYLINDER                |
|      | 1   | MS20822-4D    | ELBOW, PIPE TO TUBE              |
| 2    | 1   | 8A05116-003   | CYLINDER-OUTSIDE                 |
| 3    | 1   | 8A05000-010   | RAM ASSEMBLY                     |
| 4    | 1   | 6A05181-001   | RING-CYLINDER-SUPPORT            |
|      | 1   | MS28775-327   | "O" RING                         |
| 5    | -   | 6A05000-008   | ASSY. FLANGE-CYLINDER END        |
|      | 1   | 6A05199-001   | FLANGE, CYLINDER, MAIN GEAR RAM  |
|      | 1   | 1214K1        | VALVE                            |
|      | 1   | 6A05580-004   | WIPER, MAIN GEAR                 |
|      | 1   | MS20822-4D    | FITTING, 90° ELBOW               |
|      | 1   | MS28775-314   | O-RING                           |
|      | 1   | 8880410       | WIPER 3/4" IDX1-1/8" OD          |
| 6    | 8   | MS35333-39    | LOCK WASHER                      |
| 7    | 9   | NAS1149D0363J | WASHER                           |
| 8    | 1   | 6A05208-001   | FITTING, AFT, SLIDE TUBE         |
| 9    | 4   | AN6-12A       | BOLT                             |
| 10   | 6   | NAS1149D0663J | WASHER                           |
| 11   | 6   | MS21044N6     | NUT                              |
| 12   | 2   | 6A05193-001   | HOLDER - HOOK PIN                |
| 13   | 4   | AN4-24A       | BOLT                             |
| 14   | 4   | NAS1149D0463J | WASHER                           |
| 15   | 5   | MS21044N4     | NUT                              |
| 16   | -   | 6A05000-037   | ASSEMBLY, CARRIAGE, W/BUSHINGS   |
|      | 1   | 6A05309-001   | CARRIAGE, MAIN GEAR              |
|      | 2   | 26DU16        | BUSHING (LARGE)                  |
|      | 2   | O8DU08        | BUSHING (SMALL)                  |
| 17   | 4   | AN5-6A        | BOLT                             |
| 18   | 6   | NAS1149D0563J | WASHER                           |
| 19   | 4   | MS21044N5     | NUT                              |
| 20   | 2   | 6A05702-008   | PIN, MAIN GEAR LOCK              |
| 21   | 1   | 8A05402-004   | TUBE, SLIDE, MAIN GEAR, CARRIAGE |
| 22   | 2   | AN6-7A        | BOLT                             |
| 23   | 1   | AN3-25A       | BOLT                             |
| 24   | 1   | 6A05042-001   | HOOK - MAIN GEAR LOCK (AFT)      |
| 25   | 1   | 6A05041-001   | HOOK - MAIN GEAR LOCK (FWD)      |
| 26   | 1   | AN6-26A       | BOLT                             |
| 27   | 1   | MS21044N3     | NUT                              |
| 28   | 1   | 6A05533-001   | SPRING, MAIN GEAR LOCK           |
| 29   | 2   | 1032NFX3/16   | SET SCREW, 10-32 X 3/16 S.S. CP  |

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| ITEM | QTY | PART NO.      | PART DESCRIPTION                 |
|------|-----|---------------|----------------------------------|
| 30   | 2   | 3A05701-001   | MAGNET                           |
| 31   | 2   | 6A05087-001   | SCREW, ADJUSTING, MAIN GEAR LOCK |
| 32   | 2   | AN316-4R      | NUT                              |
| 33   | 1   | 6A05158-019   | COVER, SLIDE TUBE TRUCK          |
| 34   | 4   | NAS1149DN832J | WASHER                           |
| 35   | 4   | MS35333-38    | LOCK WASHER                      |
| 36   | 4   | AN526-832-8   | SCREW                            |
| 37   | 1   | AN4-14A       | BOLT                             |
| 38   | 1   | 1095K41       | GREASE ZERK                      |
| 39   | 1   | NAS1149F0463P | WASHER                           |
| 40   | 1   | AN6-47A       | BOLT                             |
| 41   | 1   | 6A01201-001   | FITTING, FWD, SLIDE, TUBE        |
| 42   | 2   | AN5H20A       | BOLT                             |
| 43   | 8   | NAS1103-2     | BOLT                             |
| 44   | 1   | 6A05259-002   | END, SLIDE TUBE                  |
| 45   | 1   | 8A05195-001   | CAP FITTING, AFT, SLIDE TUBE     |
| 46   | 1   | MS28775-220   | O-RING                           |
| 47   | 1   | MS28755-219   | O-RING                           |

## MAIN GEAR SLIDE TUBE ASSEMBLY (T-SEALS INSTALLED) (OPTIONAL NEW VERSION)

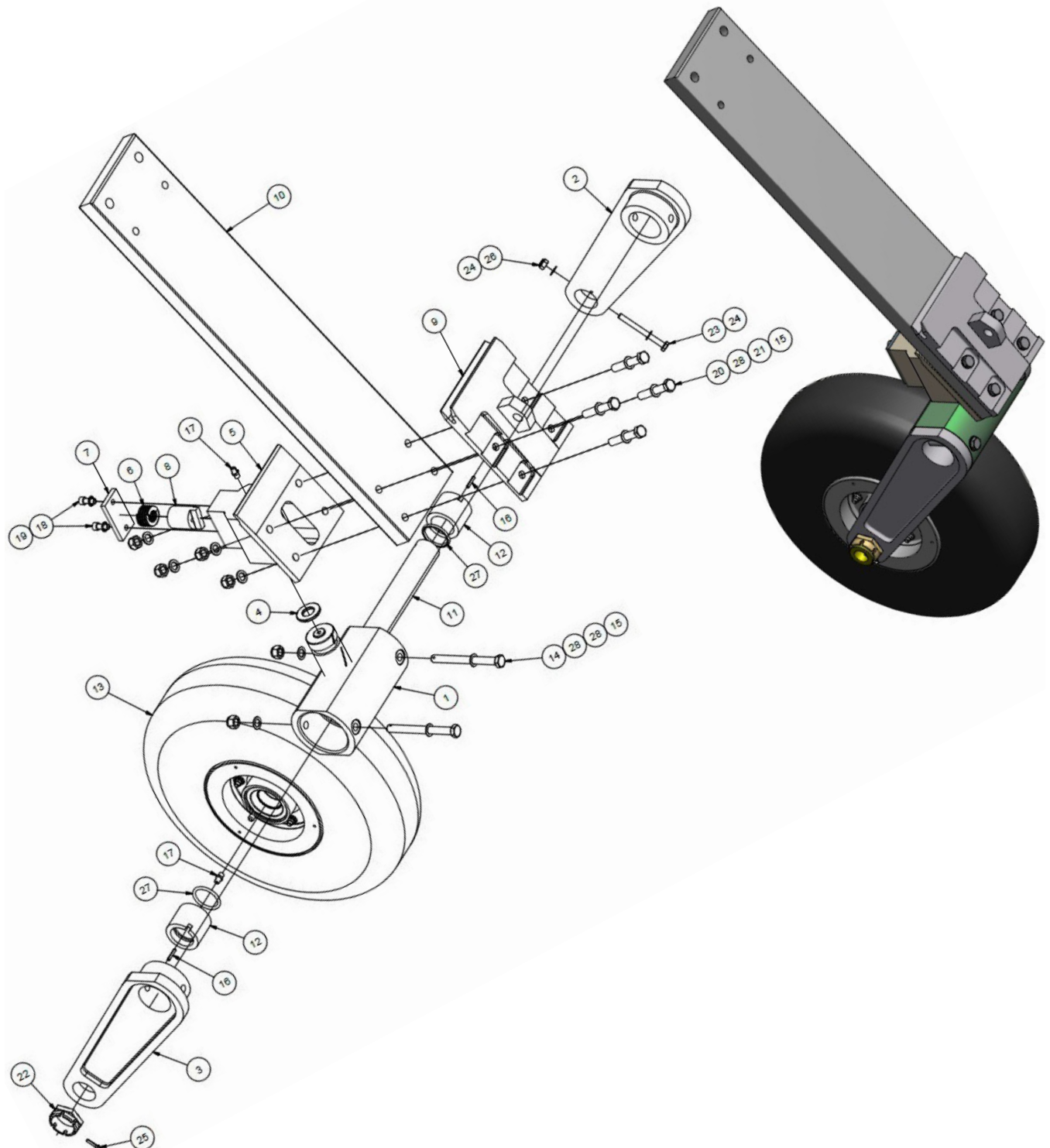


PARTS MANUAL  
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| ITEM | QTY | PART NO.      | PART DESCRIPTION                  |
|------|-----|---------------|-----------------------------------|
| 1    | -   | 1002236       | ASS'Y., END CAP, CYLINDER         |
|      | 1   | 1002011       | END CAP, CYLINDER                 |
|      | 1   | MS20822-4D    | ELBOW, PIPE TO TUBE               |
| 2    | 1   | 1002023       | CYLINDER, OUTSIDE                 |
| 3    | 1   | 1002640       | ASS'Y, RAM, MAIN GEAR, 8000       |
| 4    | 1   | 6A05181-001   | RING, CYLINDER, SUPPORT           |
|      | 1   | MS28775-327   | "O" RING                          |
| 5    | -   | 1002235       | ASS'Y, CYLINDER FLANGE, MAIN GEAR |
|      | 1   | 1002008       | FLANGE, CYLINDER, MAIN GEAR RAM   |
|      | 1   | 1214K1        | VALVE                             |
|      | 1   | 6A05580-004   | WIPER, MAIN GEAR                  |
|      | 1   | 8880410       | WIPER                             |
|      | 1   | MS20822-4D    | FITTING, 90° ELBOW                |
|      | 1   | 1002231       | ROD, T-SEAL                       |
| 6    | 8   | MS35333-39    | LOCK WASHER                       |
| 7    | 9   | NAS1149D0363J | WASHER                            |
| 8    | 1   | 6A05208-001   | FITTING, AFT, SLIDE TUBE          |
| 9    | 4   | AN6-12A       | BOLT                              |
| 10   | 6   | NAS1149D0663J | WASHER                            |
| 11   | 6   | MS21044N6     | NUT                               |
| 12   | 2   | 6A05193-001   | CATCH, LOCK HOOK                  |
| 13   | 4   | AN4-24A       | BOLT                              |
| 14   | 4   | NAS1149D0463J | WASHER                            |
| 15   | 5   | MS21044N4     | NUT                               |
| 16   | -   | 1002642       | ASS'Y, CARRIAGE, W/BUSHINGS       |
|      | 1   | 1002621       | CARRIAGE, MAIN GEAR               |
|      | 2   | 26DU16        | BUSHING (LARGE)                   |
|      | 2   | O8DU08        | BUSHING (SMALL)                   |
| 17   | 4   | AN5-6A        | BOLT                              |
| 18   | 8   | NAS1149D0563J | WASHER                            |
| 19   | 4   | MS21044N5     | NUT                               |
| 20   | 2   | 6A05702-008   | PIN, MAIN GEAR LOCK               |
| 21   | 1   | 8A05402-004   | TUBE, SLIDE, MAIN GEAR, CARRIAGE  |
| 22   | 2   | AN6-7A        | BOLT                              |
| 23   | 1   | AN3-25A       | BOLT                              |
| 24   | 1   | 6A05042-001   | HOOK - MAIN GEAR LOCK (AFT)       |
| 25   | 1   | 6A05041-001   | HOOK - MAIN GEAR LOCK (FWD)       |
| 26   | 1   | AN6-26A       | BOLT                              |
| 27   | 1   | MS21044N3     | NUT                               |
| 28   | 1   | 6A05533-001   | SPRING, MAIN GEAR LOCK            |
| 29   | 2   | 1032NFX3/16   | SET SCREW, 10-32 X 3/16 S.S. CP   |

| ITEM | QTY | PART NO.      | PART DESCRIPTION         |
|------|-----|---------------|--------------------------|
| 30   | 2   | 3A05701-001   | MAGNET                   |
| 31   | 2   | 6A05087-001   | LOCK, SET SCREW, HOLLOW  |
| 32   | 2   | AN316-4R      | NUT                      |
| 33   | 1   | 6A05158-019   | COVER, SLIDE TUBE TRUCK  |
| 34   | 4   | NAS1149DN832J | WASHER                   |
| 35   | 4   | MS35333-38    | LOCK WASHER              |
| 36   | 4   | AN526-832R8   | SCREW                    |
| 37   | 1   | AN4-14A       | BOLT                     |
| 38   | 1   | 1095K41       | GREASE ZERK              |
| 39   | 1   | NAS1149F0463P | WASHER                   |
| 40   | 1   | AN6-47A       | BOLT                     |
| 41   | 1   | 6A01201-001   | FITTING, FWD, SLIDE TUBE |
| 42   | 2   | AN5H20A       | BOLT                     |
| 43   | 8   | NAS1103-2     | BOLT                     |
| 44   | 1   | 6A05259-002   | END, SLIDE TUBE          |
| 45   | 1   | 8A05195-001   | CAP, SLIDE TUBE, AFT     |
| 46   | 2   | 1002229       | T-SEAL                   |

## NOSE GEAR LOWER END ASSEMBLY

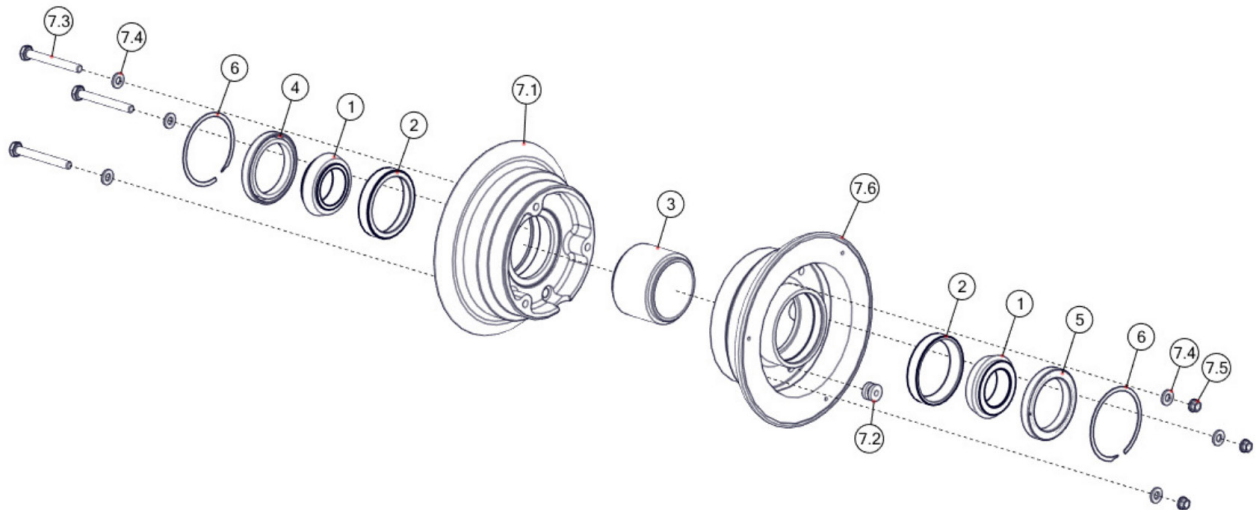


| ITEM | QTY | PART NO.      | PART DESCRIPTION                           |
|------|-----|---------------|--------------------------------------------|
| -    | 1   | 8A06000-012   | NOSE FORK AND PIVOT ASSY, COMPLETE         |
| 1    | 1   | 6A06000-006   | YOKE ASSY                                  |
| 2    | 1   | 6A06199-003   | LEG, NOSE WHEEL FORK, LEFT                 |
| 3    | 1   | 6A06199-004   | LEG, NOSE WHEEL FORK, RIGHT                |
| 4    | 1   | 8A06600-001   | WASHER - THRUST                            |
| 5    | 1   | 8A06308-001   | BLOCK, PIVOT, NOSE GEAR                    |
| 6    | 1   | 3A06525-002   | SPRING                                     |
| 7    | 1   | 3A06037-001   | CAP - PIVOT BLOCK                          |
| 8    | 1   | 6A06512-002   | RETAINER, NOSE GEAR PIVOT                  |
| 9    | 1   | 8A06000-029   | PLATE ASSY, TOW LUG                        |
|      | 1   | 8A06210-002   | PLATE, BEARING, NOSE SPRING                |
|      | 1   | 6A06202-001   | BLOCK, ATTACH, TOWING                      |
|      | 2   | MS16997-78    | CAP SCREW, '5/16-18 UNC, 0.750             |
| 10   | 1   | 8A06626-001   | SPRING, NOSE GEAR                          |
| 11   | 1   | 6A06265-001   | AXLE - NOSE WHEEL                          |
| 12   | 2   | 6A06268-002   | SPACER                                     |
| 13   | 1   | 8A06000-008   | NOSE WHEEL ASSY                            |
|      | 1   | 301-018-420*  | TIRE, 5.00 X 5 - 10, NOSE 8000             |
|      | 1   | XA1AC*        | TUBE, 5.00 X 5                             |
|      | 1   | 1003233       | ASSEMBLY, NOSE WHEEL W/O TIRE (SEE DETAIL) |
| 14   | 2   | AN6-37        | BOLT                                       |
| 15   | 6   | MS21044N6     | NUT                                        |
| 16   | 2   | 215-125-0750  | PIN, ROLL, 1/8 X 3/4, SPRING               |
| 17   | 2   | 1095K41       | COMMON GREASEZERK                          |
| 18   | 2   | MS16997-60    | SOCKET HEAD CAP SCREW                      |
| 19   | 2   | MS35333-40    | STAR WASHER                                |
| 20   | 4   | AN6-21A       | BOLT                                       |
| 21   | 4   | NAS1149F0663P | WASHER                                     |
| 22   | 1   | MS21025-20    | NUT, AXLE                                  |
| 23   | 1   | AN4-25A       | BOLT                                       |
| 24   | 2   | NAS1149F0432P | WASHER                                     |
| 25   | 1   | MS24665-349   | COTTER PIN                                 |
| 26   | 1   | MS21044N4     | NUT                                        |
| 27   | 2   | MS28775-218   | "O" RING                                   |
| 28   | 8   | NAS1149F0632P | WASHER                                     |

\* Any alternate tire (tube type) which is TSO-approved, matches the listed tire's dimensions, and meets its speed/load/ply ratings may be used. Equivalent tubes may also be used.

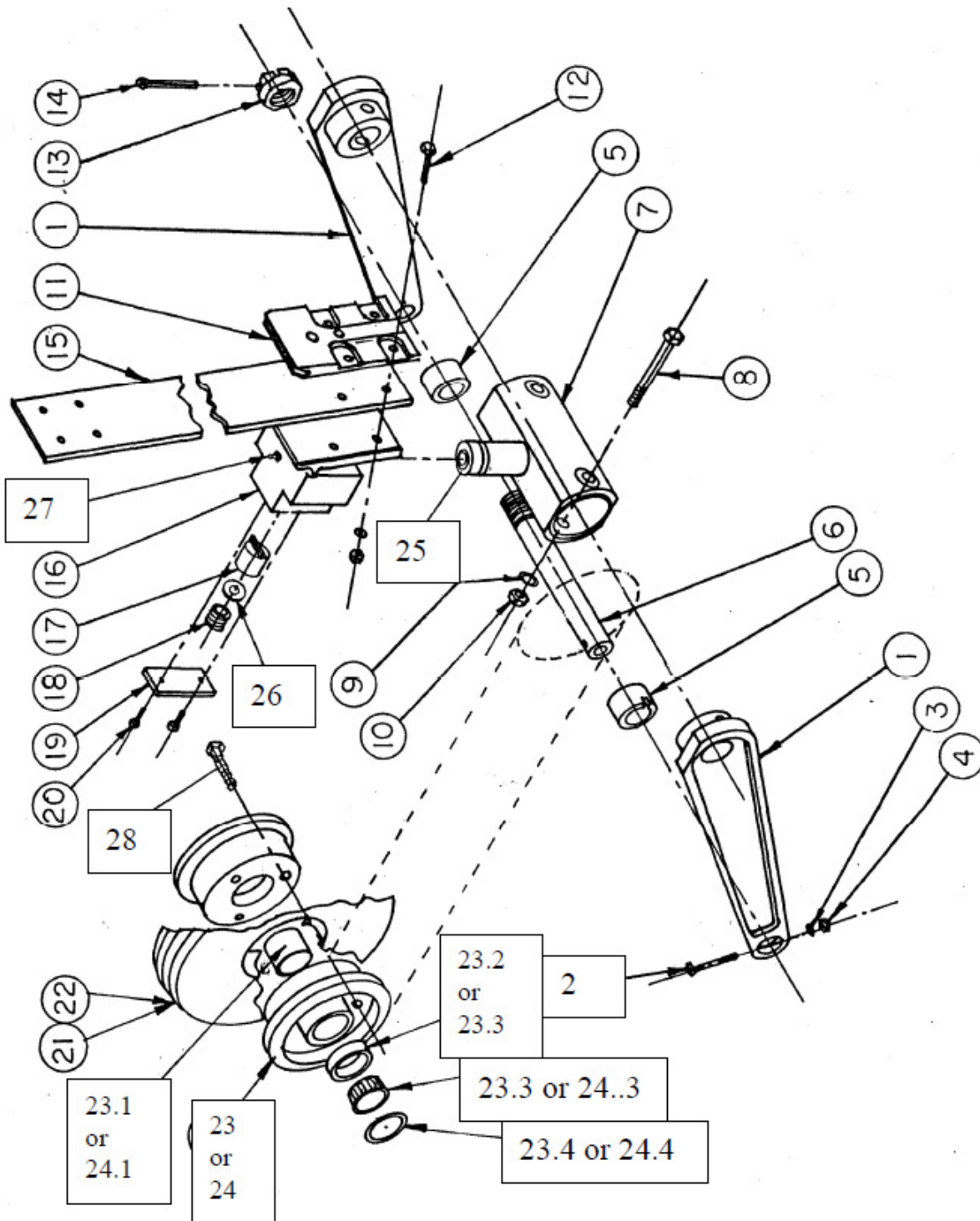


## 1003233 NOSE WHEEL WITHOUT TIRE ASSEMBLY



| ITEM | QTY | PART NO.      | PART DESCRIPTION                                   |
|------|-----|---------------|----------------------------------------------------|
| -    | 1   | 1003233       | ASSEMBLY, NOSE WHEEL W/O TIRE                      |
| 1    | 2   | 08125         | BEARING (NON-CHROME)                               |
| 2    | 2   | 08231         | BEARING, CUP (NON-CHROME)                          |
| 3    | 1   | 1003232       | RETAINER, GREASE, NOSE WHEEL                       |
| 4    | 1   | 1003547       | SEAL, BEARING, WHEEL, INBOARD                      |
| 5    | 1   | 1003548       | SEAL, NOSE WHEEL, OUTBOARD                         |
| 6    | 2   | 155-00200     | RING, SNAP                                         |
| 7    | 1   | 40-87H        | ASSEMBLY, RIM, NOSE WHEEL                          |
| 7.1  | 1   | 161-04101     | WHEEL HALF ASSEMBLY, INNER (NOT SOLD SEPARATELY)   |
| 7.2  | 1   | 217-00100     | GROMMET                                            |
| 7.3  | 3   | AN4-22A       | BOLT, 1/4-28 THREAD, 1-13/16" GRIP, 2-9/32" LENGTH |
| 7.4  | 6   | NAS1149F0463P | WASHER, SCREW SIZE 1/4 OD.500 ID.265 THK.063       |
| 7.5  | 3   | NAS21042-4    | NUT                                                |
| 7.6  | 1   | 162-03901     | WHEEL HALF ASSEMBLY, OUTER (NOT SOLD SEPARATELY)   |

**(OBSOLETE) MCCAULEY NOSE GEAR LOWER END ASSEMBLY  
(DISCONTINUED)**



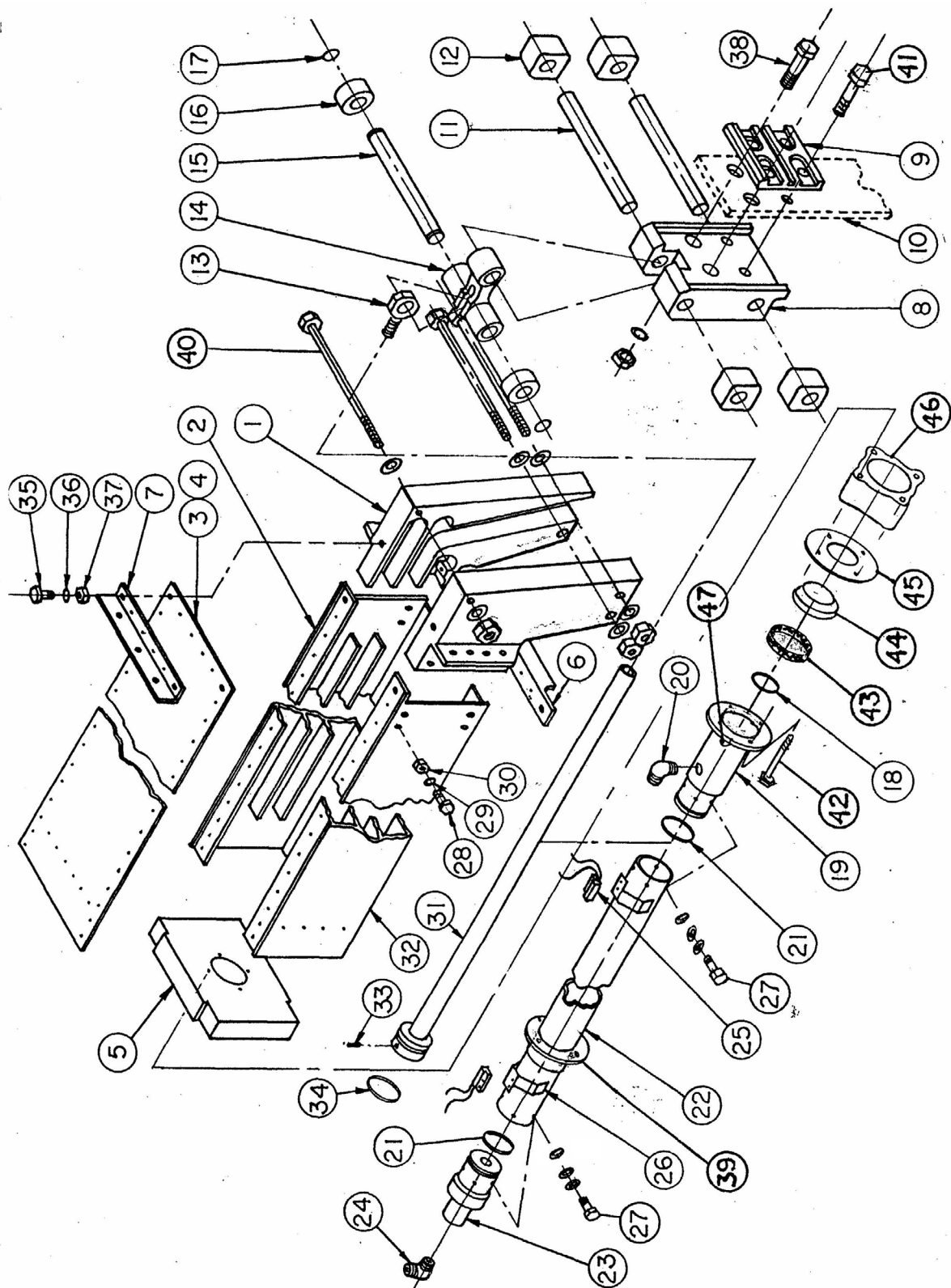
\*McCauley wheel is no longer available

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| ITEM | QTY | PART NO.      | PART DESCRIPTION                                                  |
|------|-----|---------------|-------------------------------------------------------------------|
| 1    | 1   | 6A06199-004   | LEG-NOSE FORK (RIGHT)                                             |
|      | 1   | 6A06199-003   | LEG-NOSE FORK (LEFT)                                              |
|      | 2   | 215-125-0750  | ROLL PIN                                                          |
| 2    | 2   | AN4-25A       | BOLT                                                              |
| 3    | 1   | NAS1149D0463J | WASHER                                                            |
|      | 1   | NAS1149D0416J | WASHER                                                            |
| 4    | 1   | MS21044N4     | NUT                                                               |
| 5    | 2   | 6A06268-002   | SPACER-AXLE                                                       |
|      | 2   | 215-125-0750  | ROLL PIN                                                          |
|      | 2   | MS28775-218   | "O" RING                                                          |
| 6    | 1   | 6A06265-001   | AXLE                                                              |
|      | 1   | 1095K41       | ZERK                                                              |
| 7    | 1   | 6A06000-006   | YOKE ASSEMBLY                                                     |
| 8    | 2   | AN6-37A       | BOLT                                                              |
| 9    | 2   | NAS1149D0663J | WASHER                                                            |
| 10   | 2   | MS21044N6     | NUT                                                               |
| 11   | 1   | 8A06000-029   | PLATE ASS'Y W/ TOW LUG                                            |
|      | 1   | 8A06210-002   | PLATE-NOSE SPRING                                                 |
|      | 1   | 6A06202-001   | LUG                                                               |
|      | 2   | MS16997-77    | SCREWS (FOR TOW LUG)                                              |
| 12   | 4   | AN6-21A       | BOLT                                                              |
|      | 4   | NAS1149D0663J | WASHER                                                            |
|      | 4   | MS21044N6     | NUT                                                               |
| 13   | 1   | MS21025-20    | NUT-WHEEL-RETAINING                                               |
| 14   | 1   | MS24665-351   | COTTER PIN                                                        |
| 15   | 1   | 8A06626-001   | NOSE SPRING                                                       |
| 16   | 1   | 8A06308-001   | PIVOT BLOCK                                                       |
| 17   | 1   | 6A06512-002   | RETAINER PIVOT CENTERING                                          |
| 18   | 1   | 3A06525-002   | SPRING                                                            |
| 19   | 1   | 3A06037-001   | CAP                                                               |
| 20   | 2   | MS16997-60    | SCREW                                                             |
|      | 2   | MS35333-40    | LOCK-WASHER                                                       |
| 21   | 1   | 301-018-420   | TIRE 5:00 X 5 10 PLY (TYPE III)                                   |
| 22   | 1   | XA1AC         | TUBE                                                              |
| 23   | 1   | 1003233       | ASSEMBLY NOSE WHEEL (NEWER STYLE, MACHINED INNER RIM) (NOT SHOWN) |
| 23.1 | 1   | 6A06616-003   | GREASE RETAINER                                                   |
| 23.2 | 2   | 08231         | BEARING CUP                                                       |
| 23.3 | 2   | 08125         | BEARING CONE                                                      |
| 23.4 | 1   | 1003547       | GREASE SEAL, INNER                                                |
|      | 1   | 1003548       | GREASE SEAL, OUTER                                                |

| ITEM | QTY | PART NO.      | PART DESCRIPTION                                  |
|------|-----|---------------|---------------------------------------------------|
| 24   | 1   | 6A06000-028   | ASSEMBLY NOSE WHEEL (OLD STYLE, RAISED INNER RIM) |
| 24.1 | 1   | 6A06616-003   | GREASE RETAINER                                   |
| 24.2 | 2   | LM67010       | BEARING CUP (OLD STYLE)                           |
|      | 2   | 08125         | BEARING CUP (NEW STYLE)                           |
| 24.3 | 2   | LM67048       | BEARING CONE (OLD STYLE)                          |
|      | 2   | 08231         | BEARING CONE (NEW STYLE)                          |
| 24.4 | 2   | 473237        | GREASE SEAL (OLD STYLE)                           |
|      | 1   | 1003547       | GREASE SEAL INNER (NEW STYLE)                     |
|      | 1   | 1003548       | GREASE SEAL OUTER (NEW STYLE)                     |
| 25   | 1   | 8A06600-001   | WASHER THRUST                                     |
| 26   | 2   | NAS1149F0763P | WASHER (OPT.)                                     |
| 27   | 1   | 1095K41       | GREASE FITTING                                    |
| 28   | 3   | AN5-22A       | BOLT                                              |
|      | 6   | NAS1149F0563P | WASHER                                            |
|      | 3   | MS21044N5     | NUT                                               |

## NOSE GEAR ASSEMBLY (O-RINGS INSTALLED)

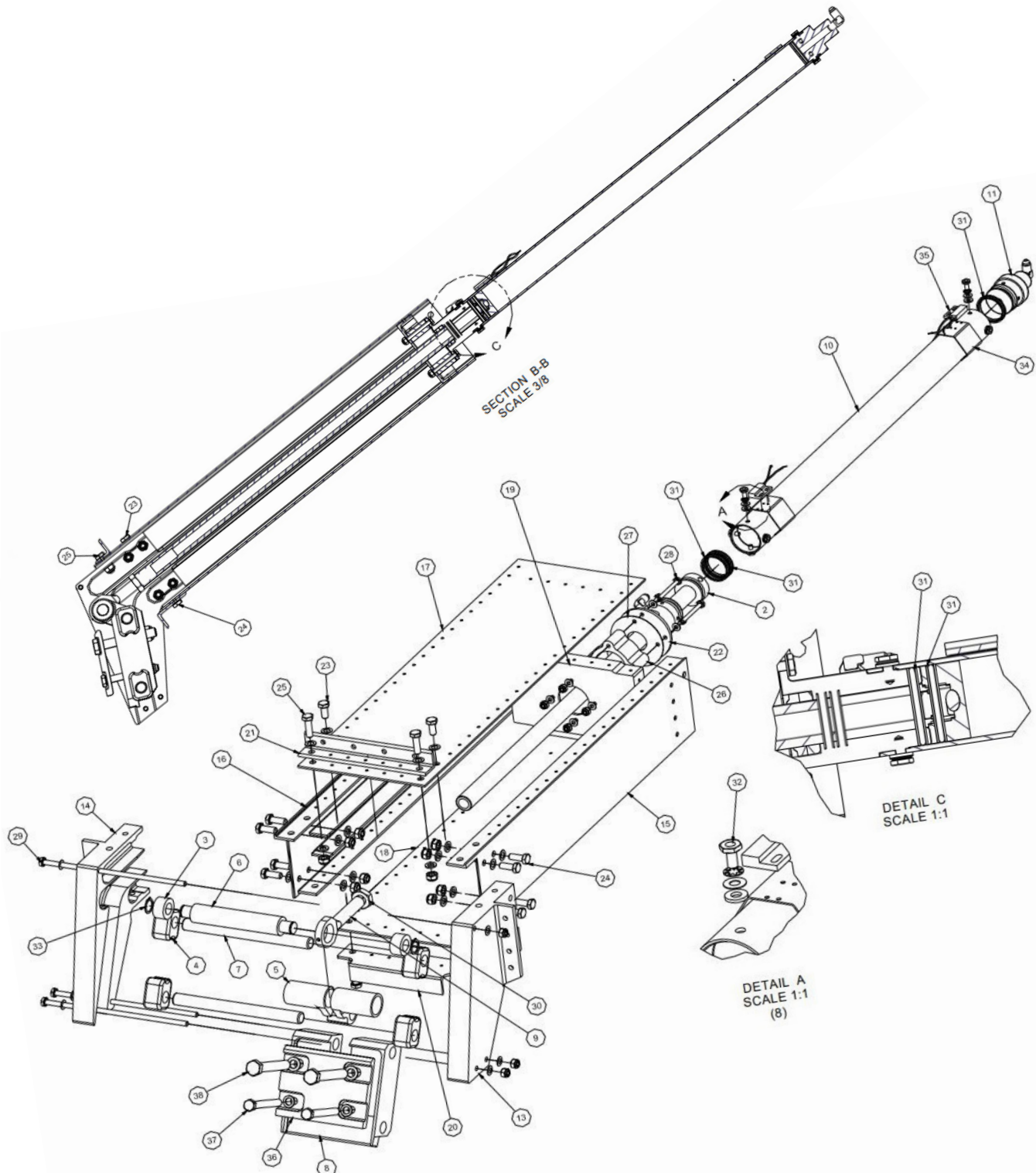


| ITEM | QTY | PART NO.      | PART DESCRIPTION            |
|------|-----|---------------|-----------------------------|
| -    | 1   | 8A07000-006   | NOSE GEAR ASSEMBLY COMPLETE |
| 1    | 1   | 8A07337-003   | TRACK FRONT-LEFT            |
|      | 1   | 8A07337-004   | TRACK FRONT-RIGHT           |
| 2    | 1   | 8A07364-003   | TRACK SIDE-LEFT             |
| 3    | 1   | 8A07156-037   | BOX COVER TOP               |
| 4    | 1   | 8A07156-038   | BOX COVER BOTTOM            |
| 5    | 1   | 8A07201-002   | END CAP                     |
| 6    | 1   | 8A07357-038   | ANGLE-NOSE BOX LOWER        |
| 7    | 1   | 8A07427-004   | ANGLE-NOSE BOX UPPER        |
| 8    | 1   | 8A07188-001   | TROLLEY                     |
| 9    | 1   | 8A07212-001   | PLATE BEARING               |
| 10   | 1   | 8A06626-001   | NOSE SPRING                 |
| 11   | 2   | 8A07534-003   | AXLE TROLLEY                |
| 12   | 4   | 6A07603-001   | BLOCKS TROLLEY              |
| 13   | 1   | 8A07257-002   | ROD END                     |
|      | 1   | AN316-10R     | JAM NUT                     |
| 14   | 1   | 8A07185-002   | LINK RAM END                |
| 15   | 1   | 8A07505-001   | AXLE                        |
| 16   | 2   | 6A07544-001   | ROLLER                      |
| 17   | 2   | 5100-62H      | SNAP RING                   |
| 18   | 1   | MS28775-316   | "O" RING                    |
| 19   | 1   | 6A07264-002   | FLANGE-NOSE CYLINDER        |
| 20   | 1   | MS20822-4D    | ELBOW                       |
| 21   | 2   | MS28775-220   | "O" RING                    |
| 22   | 1   | 6A07116-002   | CYLINDER                    |
| 23   | 1   | 6A05268-001   | END CAP                     |
| 24   | 1   | MS20822-4D    | ELBOW                       |
| 25   | 2   | 5801          | SWITCH SENSOR               |
| 26   | 2   | 3A07005-178   | MOUNT-SWITCH                |
| 27   | 8   | NAS6203-2     | BOLT                        |
|      | 8   | NAS1149D0363J | WASHER THICK                |
|      | 8   | NAS1149D0316J | WASHER THIN                 |
|      | 8   | MS35333-39    | WASHER-LOCK                 |
| 28   | 10  | AN5-6A        | BOLT                        |
| 29   | 10  | NAS1149D0563J | WASHER                      |
|      | 12  | NAS1149D0516J | WASHER                      |
| 30   | 8   | MS21044N5     | NUT                         |
| 31   | 1   | 6A07000-008   | ASSEMBLY RAM                |
| 32   | 1   | 8A07364-004   | TRACK-SIDE (RIGHT)          |
| 33   | 1   | 3A05701-001   | MAGNET                      |
| 34   | 1   | MS28775-219   | "O" RING                    |

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| ITEM | QTY | PART NO.      | PART DESCRIPTION      |
|------|-----|---------------|-----------------------|
| 35   | 2   | AN5-10A       | BOLT                  |
| 36   | 4   | NAS1149D0516J | WASHER                |
| 37   | 2   | MS21044N5     | NUT                   |
| 38   | 2   | AN8-31A       | BOLT                  |
|      | 4   | NAS1149F0763P | WASHER                |
|      | 2   | MS21044N8     | NUT                   |
| 39   | 1   | 6A05181-001   | SUPPORT RING CYLINDER |
|      | 1   | MS28775-327   | "O" RING              |
| 40   | 3   | AN4-81A       | BOLT                  |
|      | 3   | NAS1149F0432P | WASHER                |
|      | 3   | MS21044N4     | NUT                   |
| 41   | 2   | AN6-27A       | BOLT                  |
|      | 4   | NAS1149F0663P | WASHER                |
|      | 2   | MS21044N6     | NUT                   |
| 42   | 4   | AN3-17A       | BOLT                  |
|      | 4   | NAS1149F0363P | WASHER                |
|      | 4   | MS21044N3     | NUT                   |
| 43   | 1   | 6A07580-005   | WIPER FELT            |
| 44   | 1   | 8880510       | WIPER NYLON           |
| 45   | 1   | 6A07158-129   | PLATE                 |
| 46   | 1   | 6A07264-003   | SPACER                |
| 47   | 1   | 1205K12       | OILER FILLER          |

## NOSE GEAR ASSEMBLY (T-SEALS INSTALLED) (OPTIONAL NEW VERSION)





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| ITEM | QTY | PART NO.      | PART DESCRIPTION                 |
|------|-----|---------------|----------------------------------|
| 1    | 1   | 1002262       | ACTUATOR AND NOSE BOX COMPLETE   |
| 2    | 1   | 6A07000-008   | ASSY RAM, NOSE GEAR              |
| 3    | 2   | 6A07544-001   | ROLLER, TRACK                    |
| 4    | 4   | 6A07603-001   | BLOCK, SLIDE, TROLLEY            |
| 5    | 1   | 8A07185-002   | LINK, NOSE GEAR RAM              |
| 6    | 1   | 8A07505-001   | AXLE, LINK                       |
| 7    | 2   | 8A07534-003   | AXLE, NOSE GEAR TROLLEY          |
| 8    | 1   | 8A07188-001   | TROLLEY                          |
| 9    | 1   | 8A07257-002   | ROD END, NOSE GEAR RAM           |
| 10   | 1   | 1002024       | RAM NOSE CYLINDER                |
| 11   | 1   | 1002236       | ASSY. CYL. END CAP               |
| 12   | 1   | 1002261       | ASSY NOSE BOX (WITHOUT ACTUATOR) |
| 13   | 1   | 8A07337-003   | TRACK END LH                     |
| 14   | 1   | 8A07337-004   | TRACK END RH                     |
| 15   | 1   | 8A07364-003   | SIDE TRACK, NOSE GEAR LH         |
| 16   | 1   | 8A07364-004   | SIDE TRACK, NOSE GEAR RH         |
| 17   | 1   | 8A07156-037   | SKIN, NOSE BOX TOP               |
| 18   | 1   | 8A07156-038   | SKIN, NOSE BOX BOTTOM            |
| 19   | 1   | 8A07201-002   | END CAP, NOSE BOX                |
| 20   | 1   | 8A07357-038   | ANGLE, NOSE BOX, BOTTOM          |
| 21   | 1   | 8A07427-004   | ANGLE, NOSE BOX, TOP             |
| 22   | 1   | 1002237       | CYLINDER FLANGE ASSY COMPLETE    |
| 23   | 12  | AN5-5A        | BOLT                             |
| 24   | 10  | AN5-6A        | BOLT                             |
|      | 8   | NAS1149D0563J | WASHER                           |
|      | 10  | NAS1149D0516J | WASHER                           |
|      | 8   | MS21044N5     | NUT                              |
| 25   | 2   | AN5-10A       | BOLT                             |
|      | 2   | NAS1149D0563J | WASHER                           |
|      | 2   | NAS1149D0516J | WASHER                           |
|      | 2   | MS21044N5     | NUT                              |
| 26   | 1   | 6A07264-003   | SPACER, FLANGE CYL.              |
| 27   | 8   | 6A07158-129   | PLATE, FLANGE                    |
| 28   | 4   | AN3-17A       | BOLT                             |
|      | 8   | NAS1149F0332P | WASHER                           |
|      | 4   | MS21044N3     | NUT                              |
| 29   | 3   | AN4-81A       | BOLT                             |
|      | 6   | NAS1149D0416J | WASHER                           |
|      | 3   | MS21044N4     | NUT                              |
| 30   | 1   | AN316-10R     | NUT                              |
| 31   | 3   | 1002229       | T-SEAL, PISTON                   |

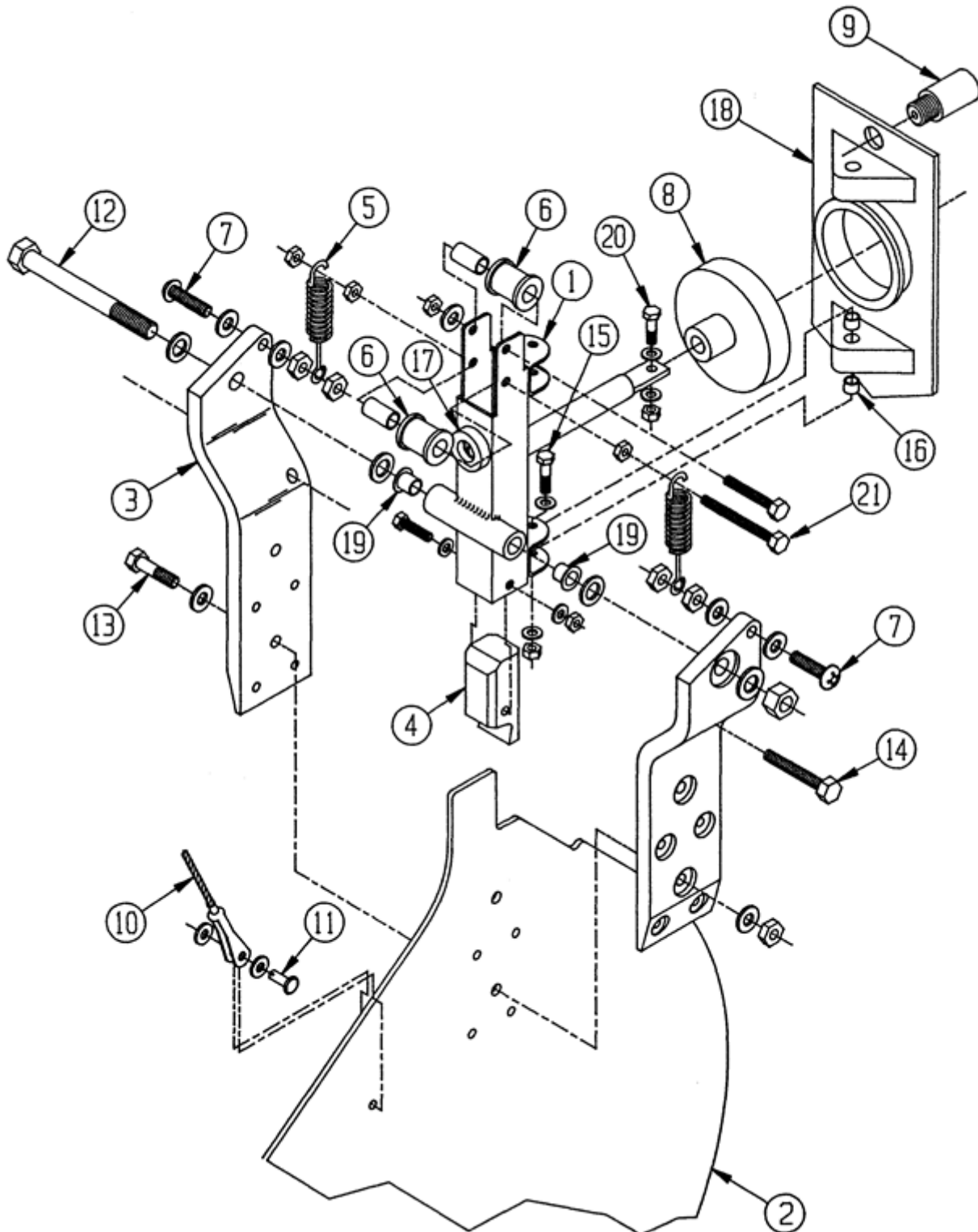
| ITEM | QTY | PART NO.      | PART DESCRIPTION           |
|------|-----|---------------|----------------------------|
| 32   | 8   | NAS1103-2     | BOLT                       |
|      | 8   | NAS1149D0363J | WASHER                     |
|      | 8   | NAS1149D0316J | WASHER                     |
|      | 8   | MS35333-39    | STAR WASHER                |
| 33   | 2   | 5100-62H      | SNAP RING                  |
| 34   | 2   | 3A07005-178   | CLIP SWITCH                |
| 35   | 2   | 5801          | SWITCH, SENSOR             |
| 36   | 1   | 8A07212-001   | PLATE-BEARING, NOSE SPRING |
| 37   | 2   | AN6-27A       | BOLT                       |
|      | 4   | NAS1149F0663P | WASHER                     |
|      | 2   | MS21044N6     | NUT                        |
| 38   | 2   | AN8-31A       | BOLT                       |
|      | 4   | NAS1149F0763P | WASHER                     |
|      | 2   | MS21044N8     | NUT                        |

**SECTION 9**  
**WATER RUDDER, STEERING, & RETRACT CABLES**

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## WATER RUDDER BLADE INSTALLATION

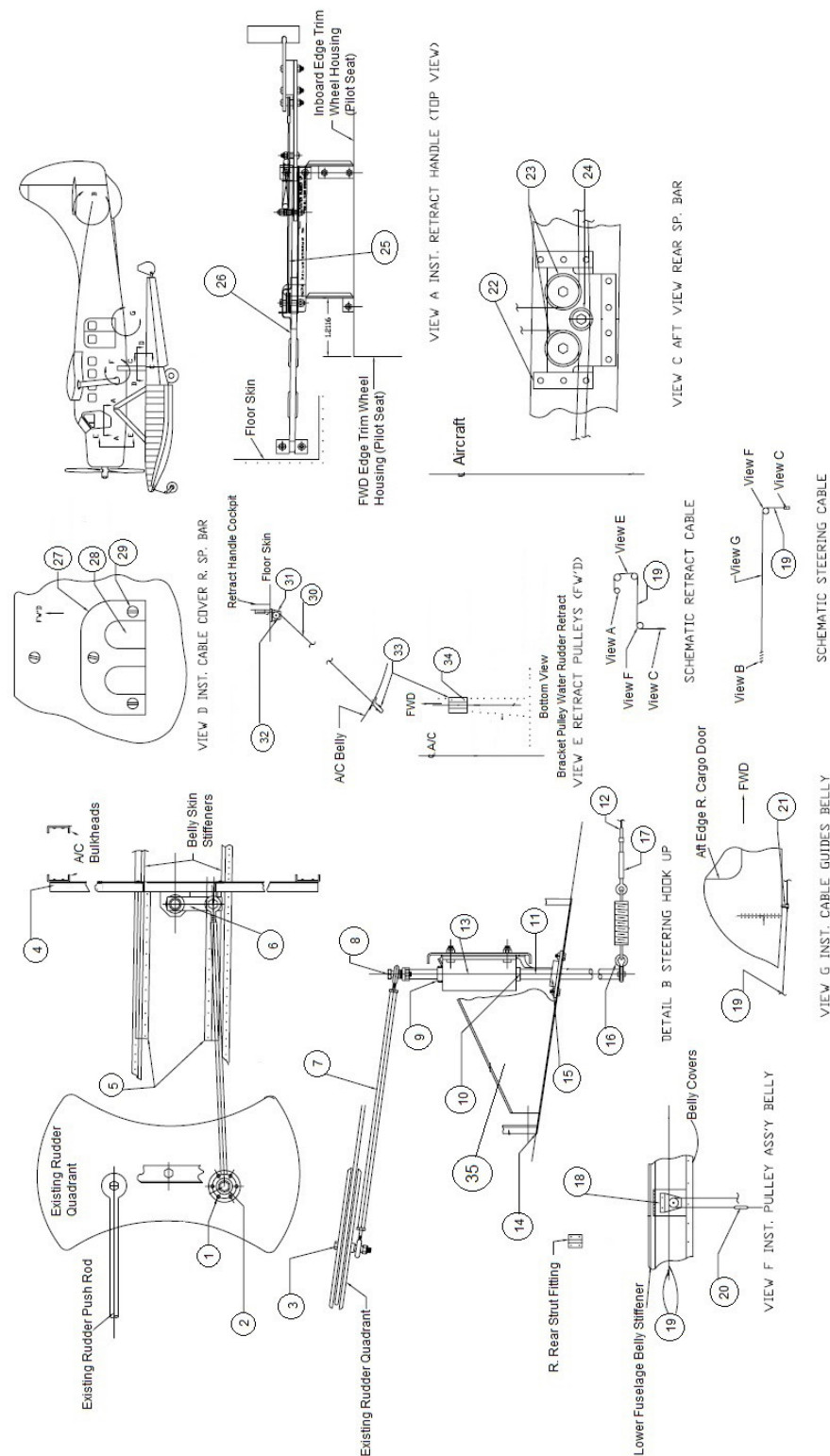


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| ITEM | QTY | PART NO.             | PART DESCRIPTION               |
|------|-----|----------------------|--------------------------------|
| 1    | 1   | 8A08000-098          | ASSEMBLY-WATER RUDDER POST     |
| 2    | 1   | 8A08000-023          | ASSEMBLY-WATER RUDDER BLADE    |
| 3    | 1   | 8A08044-002          | ARM-WATER RUDDER CONTROL-RIGHT |
|      | 1   | 8A08044-001          | ARM-WATER RUDDER CONTROL-LEFT  |
| 4    | 1   | 8A08183-006          | STOP-WATER RUDDER              |
|      | 2   | AN3-13A              | BOLT-ATTACH                    |
|      | 2   | NAS1149D0363J        | WASHER                         |
|      | 2   | MS21044N3            | NUT                            |
| 5    | 2   | 3A08525-001          | SPRING                         |
| 6    | 2   | 3A08606-001          | ROLLER                         |
|      | 2   | 3A08502-001          | BUSHING-ROLLER                 |
|      | 1   | 1032 X 2 INCH SS     | BOLT-TOP (STAINLESS ST'L)      |
|      | 1   | 1032 X 1 1/2 INCH SS | BOLT-LOWER (STAINLESS ST'L)    |
|      | 4   | NAS679A3W            | NUT                            |
| 7    | 2   | MS35207-283          | SCREW SPRING ATTACH            |
|      | A/R | NAS1149F0463P        | WASHER                         |
|      | 2   | NAS679A4W            | NUT                            |
| 8    | 1   | 3A08650-001          | RUBBER BOOT                    |
| 9    | 1   | 3A08605-001          | CABLE GUIDE                    |
| 10   | 1   | 8A08000-039          | CABLE ASSEMBLY                 |
| 11   | 1   | MS20392-2C19         | CLEVIS PIN                     |
|      | 1   | NAS1149D0363J        | WASHER                         |
|      | 1   | MS24665-132          | COTTER PIN                     |
| 12   | 1   | AN6C34A              | BOLT                           |
|      | A/R | NAS1149D0663J        | WASHER                         |
|      | 1   | MS21083N6            | NUT                            |
| 13   | 2   | AN4-11A              | BOLT ATTACH                    |
|      | A/R | NAS1149D0416J        | WASHER                         |
|      | 2   | MS21044N4            | NUT                            |
|      | 4   | AN3-13A              | BOLT ATTACH                    |
|      | 4   | NAS1149D0363J        | WASHER                         |
|      | 4   | MS21044N3            | NUT                            |
|      | 2   | AN3-10A              | BOLT ATTACH LOWER              |
|      | A/R | NAS1149D0363J        | WASHER                         |
|      | 2   | MS21044N3            | NUT                            |
| 14   | 1   | AN4-20A              | BOLT STOP                      |
|      | A/R | NAS1149D0463J        | WASHER                         |
|      | 1   | MS21044N4            | NUT                            |
| 15   | 2   | AN3C10A              | BOLT RUDDER POST HINGE         |
|      | 2   | NAS1149D0363J        | WASHER                         |

| ITEM | QTY | PART NO.         | PART DESCRIPTION                                |
|------|-----|------------------|-------------------------------------------------|
|      | 2   | NAS679A3W        | NUT                                             |
| 16   | 4   | 4L4F             | NYLINER, PLASTIC, FLANGED, 1/2" DIA (OLD STYLE) |
|      | 4   | 03DU-04          | BEARING (TEFLON STEEL) (NEW STYLE)              |
| 17   | 1   | 8A08602-004      | STOP-RUDDER UP                                  |
|      | 1   | AN526-1032R9     | SCREW                                           |
|      | 1   | AN970-3          | WASHER                                          |
|      | 1   | MS21044N3        | NUT                                             |
| 18   | 1   | 3A01437-001      | CASTING-WATER RUDDER                            |
| 19   | 2   | 6L11F            | NYLINER, PLASTIC, FLANGED, 3/8" DIA             |
|      | 2   | 06DU08           | BUSHING, TEFLON- STEEL, 3/8" DIA, LENGTH 1/2"   |
| 20   | 1   | AN3-6A           | BOLT                                            |
|      | 1   | NAS1149D0363J    | WASHER                                          |
|      | 1   | MS21044N3        | NUT                                             |
| 21   | 2   | 1032X2 INCH S.S. | BOLT (STAINLESS STEEL)                          |

## STEERING & RETRACT SYSTEM



| ITEM | QTY | PART NO.      | PART DESCRIPTION                          |
|------|-----|---------------|-------------------------------------------|
| 1    | 2   | 9A08163-045   | REINFORCEMENT, RUDDER HORN                |
|      | 12  | CR3231-4      | RIVETS                                    |
| 2    | 1   | 9A08260-004   | BUSHING, RUDDER HORN, STEERING            |
| 3    | 1   | AN4-20A       | BOLT                                      |
|      | 3   | NAS1149F0363P | WASHER                                    |
|      | 1   | MS21044N6     | NUT                                       |
| 4    | 1   | 9A08156-122   | SUPPORT, PANEL, WATER RUDDER              |
| 5    | 1   | 9A08155-020   | BRACKET, SUPPORT, WATER RUDDER            |
|      | 1   | 9A08155-021   | BRACKET, SUPPORT, WATER RUDDER            |
| 6    | 1   | 9A08000-107   | ASSEMBLY, ARM, RUDDER PIVOT               |
|      | 1   | AN3-11A       | BOLT                                      |
|      | 1   | NAS11491063PL | WASHER                                    |
|      | 1   | MS21044N6     | NUT                                       |
| 7    | 1   | 9A08000-116   | ASSY, ROD, STEERING, WATER RUDDER         |
| 8    | 1   | AN4-13A       | BOLT                                      |
|      | 5   | NAS1149F0363P | WASHER                                    |
|      | 1   | MS21044N6     | NUT                                       |
| 9    | 1   | 9A08454-005   | BUSHING, WATER RUDDER PIVOT               |
|      | 1   | MS24665-355   | COTTER PIN                                |
| 10   | 1   | 6P08454-002   | BUSHING, WATER RUDDER POST                |
| 11   | 1   | 9A08000-108   | ASSY, SHAFT RUDDER PIVOT                  |
|      | 1   | MS24665-355   | COTTER PIN                                |
| 12   | 1   | 9A08000-113   | ASSEMBLY, CABLE, WATER RUDDER LEFT        |
|      | 1   | 9A08000-114   | ASSEMBLY, CABLE, WATER RUDDER RIGHT       |
| 13   | 1   | 9A08000-109   | ASSY, BLOCK, PIVOT, WATER RUDDER STEERING |
|      | 4   | AN4-7A        | BOLT                                      |
|      | 4   | NAS1149F0363P | WASHER                                    |
|      | 4   | MS21044N6     | NUT                                       |
| 14   | 1   | 9A08155-022   | DOUBLER, BELLY, WATER RUDDER STEERING     |
| 15   | 1   | 9A08000-106   | ASSY, BRACKET, RUDDER PIVOT               |
|      | 4   | AN3-6A        | BOLT                                      |
|      | 8   | NAS11491063P  | WASHER                                    |
|      | 4   | MS21044N6     | NUT                                       |
| 16   | 2   | AN115-16      | SHACKLE                                   |
|      | 2   | MS20392-2C11  | PIN                                       |
|      | 2   | NAS11491063PL | WASHER                                    |
|      | 2   | MS24665-132   | PIN                                       |
| 17   | 2   | MSZ1251B3S    | BARREL                                    |
|      | 2   | MS21255-3RS   | EYE                                       |
| 18   | 1   | 9A08000-115   | ASSY, PULLEY BRACKET, WATER RUDDER        |
| 19   | 1   | 9A08000-113   | ASSEMBLY, CABLE, WATER RUDDER LEFT        |



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| ITEM | QTY | PART NO.      | PART DESCRIPTION                      |
|------|-----|---------------|---------------------------------------|
|      | 1   | 9A08000-114   | ASSEMBLY, CABLE, WATER RUDDER RIGHT   |
| 20   | 1   | MS20393-2C19  | PIN                                   |
|      | 2   | NAS11491063P  | WASHER                                |
|      | 1   | MS24665-132   | PIN                                   |
| 21   | 2   | 4A08153-009   | BRACKET, GUIDE, CABLE                 |
|      | 2   | 10-80         | RIVNUT                                |
|      | 2   | NAS11491063P  | WASHER                                |
|      | 2   | AN936A10      | WASHER                                |
|      | 2   | AN526-1032-10 | SCREW                                 |
| 22   | 1   | 8A08000-040   | ASSEMBLY - PULLEY BRACKET             |
| 23   | 4   | MS20219-2     | PULLEY                                |
|      | 2   | AN4-13A       | BOLT                                  |
|      | 2   | NAS1149F0363P | WASHER                                |
|      | 2   | MS21044N6     | NUT                                   |
|      | 4   | MS24665-289   | PIN                                   |
| 24   | 1   | AN3-13A       | BOLT                                  |
|      | 1   | NAS11491063P6 | WASHER                                |
|      | 1   | MS21044N6     | NUT                                   |
|      | 1   | MS24665-289   | PIN                                   |
| 25   | 1   | 9A08000-110   | ASSY, CABLE, WATER RUDDER             |
| 26   | 1   | 8A08000-121   | ASSEMBLY, WATER RUDDER RETRACT HANDLE |
|      | 7   | AN3-4A        | BOLT                                  |
|      | 7   | AN970-3       | WASHER                                |
|      | 7   | MS21044N6     | NUT                                   |
| 27   | 1   | 8A08002-097   | COVER, STEERING CABLES                |
| 28   | 1   | 8A08648-001   | GASKET, CABLE COVER                   |
| 29   | 3   | AN530-6-4     | SCREW                                 |
| 30   | 1   | 9A08000-110   | ASSY, CABLE, WATER RUDDER             |
| 31   | 1   | MS24665-E85   | PIN                                   |
| 32   | 1   | 6P08000-101   | ASS'Y PULLEY BRACKET WATER RUDDER STR |
|      | 4   | AN526-1032R10 | SCREWS                                |
|      | 8   | NAS11491063PL | WASHERS                               |
|      | 4   | MS21044N6     | NUT                                   |
| 33   | 1   | 9A08151-101   | PULLEY BRACKET, WATER RUDDER          |
|      | 1   | MS20219-2     | PULLEY                                |
|      | 1   | AN4-7A        | BOLT                                  |
|      | 2   | NAS1149F0363P | WASHER                                |
|      | 1   | MS21044N6     | NUT                                   |
| 34   | 4   | AN526-1032R10 | SCREW                                 |
|      | 8   | NAS11491063PL | WASHER                                |
|      | 4   | MS21044N6     | NUT                                   |

| ITEM | QTY | PART NO.    | PART DESCRIPTION               |
|------|-----|-------------|--------------------------------|
| 35   | 1   | 9A08155-020 | BRACKET, SUPPORT, WATER RUDDER |
|      | 1   | 9A08155-021 | BRACKET, SUPPORT, WATER RUDDER |

## WATER RUDDER CABLE ASSEMBLIES

| ASS'Y P/N   | QTY | ASS'Y DESCRIPTION                        | CUT LENGTH | PART DESCRIPTION         | PART NUMBER            | ASS'Y QTY |
|-------------|-----|------------------------------------------|------------|--------------------------|------------------------|-----------|
| 9A08000-110 | 1   | RETRACT CABLE-<br>BELLY<br>(FROM HANDLE) | 130.50     | NICOPRESS 3/32           | MS51844-43             | 1         |
|             |     |                                          |            | BALL                     | MS20664C3              | 1         |
|             |     |                                          |            | FORK (MACWHYTE)<br>CABLE | NAS1435K3<br>RM690     | 1         |
| 9A08000-111 | 1   | RETRACT CABLE-<br>LEFT<br>FLOAT          | 159.75     | FORK (MACWHYTE)<br>BALL  | NAS1435K3<br>MS20664C3 | 1         |
|             |     |                                          |            | TERMINAL-THD             | MS21260S3LH            | 1         |
|             |     |                                          |            | CABLE                    | RM690                  | 1         |
| 9A08000-112 | 1   | RETRACT CABLE-<br>RIGHT<br>FLOAT         | 141.50     | FORK (MACWHYTE)<br>BALL  | NAS1435K3<br>MS20664C3 | 1         |
|             |     |                                          |            | TERMINAL-THD             | MS21260S3LH            | 1         |
|             |     |                                          |            | CABLE                    | RM690                  | 1         |
| 9A08000-113 | 1   | STEERING AND BELLY<br>CABLE LEFT FLOAT   | 516.00     | FORK (MACWHYTE)<br>BALL  | NAS1435K3<br>MS20664C3 | 1         |
|             |     |                                          |            | TERMINAL-THD             | MS21260S3LH            | 1         |
|             |     |                                          |            | CABLE GUIDE<br>CABLE     | 3A08605-001<br>RM690   | 1         |
| 9A08000-114 | 1   | STEERING AND BELLY<br>CABLE RIGHT FLOAT  | 492.00     | FORK (MACWHYTE)<br>BALL  | NAS1435K3<br>MS20664C3 | 1         |
|             |     |                                          |            | TERMINAL-THD             | MS21260S3LH            | 1         |
|             |     |                                          |            | CABLE GUIDE<br>CABLE     | 3A08605-001<br>RM690   | 1         |
| 9A08000-122 | 1   | BALANCE CABLE<br>RIGHT<br>FLOAT          | 332.00     | FORK (MACWHYTE)<br>BALL  | NAS1435K3<br>MS20664C3 | 1         |
|             |     |                                          |            | TERMINAL-THD             | MS21260S3LH            | 1         |
|             |     |                                          |            | CABLE                    | RM690                  | 1         |
| 8A08000-035 | 1   | CABLE ASSY.<br>BALANCE LT.               | 108.00     | FORK (MACWHYTE)<br>BALL  | NAS1435K3<br>MS20664C3 | 1         |
|             |     |                                          |            | TERMINAL-THD             | MS21260S3RH            | 1         |
|             |     |                                          |            | CABLE                    | RM690                  | 1         |
| 8A08000-039 | 2   | CABLE ASSY.<br>RETRACT, FLOAT            | 91.75      | FORK (MACWHYTE)<br>BALL  | NAS1435K3<br>MS20664C3 | 1         |
|             |     |                                          |            | TERMINAL-THD             | MS21260S3RH            | 1         |
|             |     |                                          |            | CABLE                    | RM690                  | 1         |

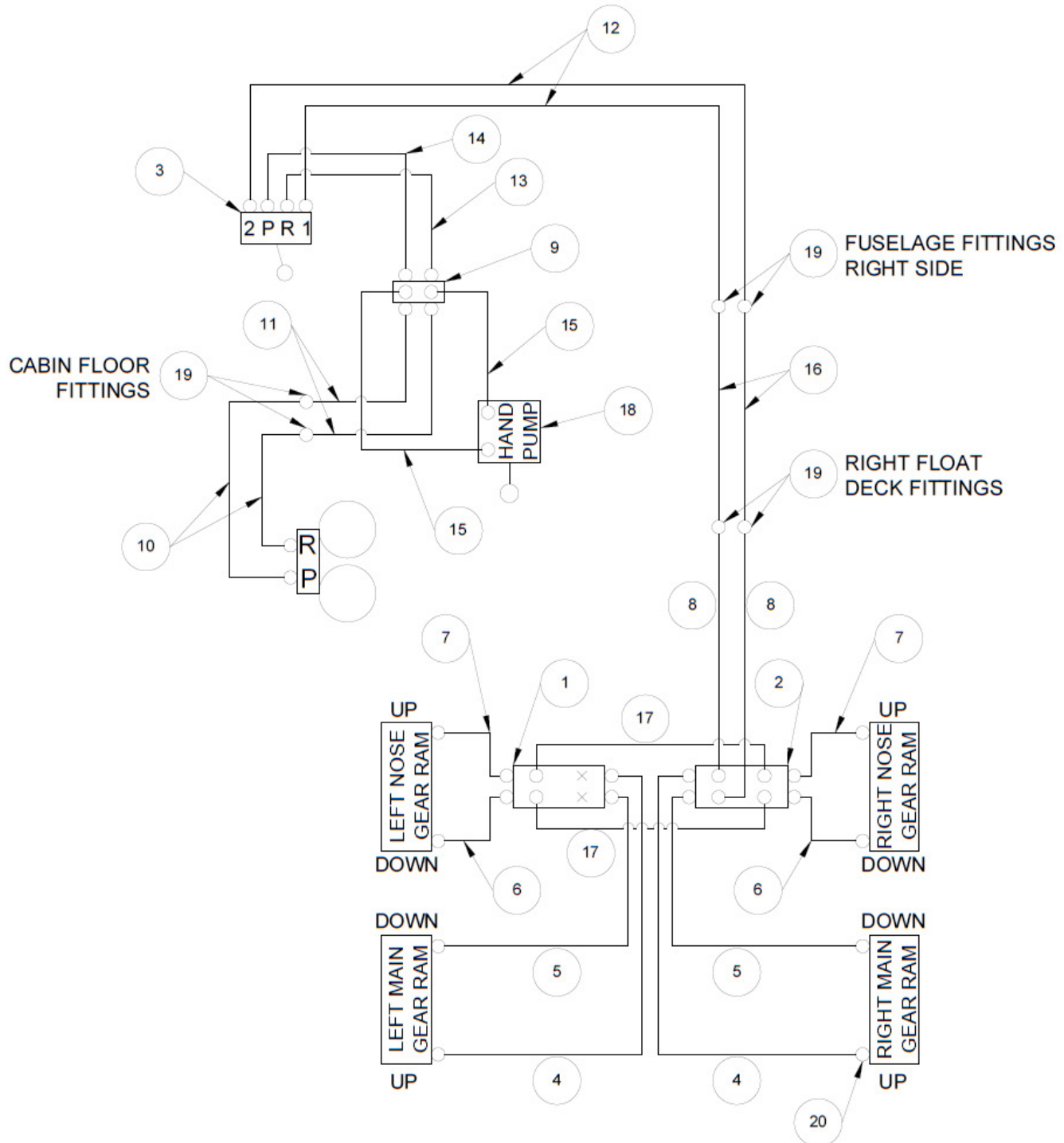
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**SECTION 10**  
**HYDRAULIC SYSTEM**

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## HYDRAULIC SCHEMATIC



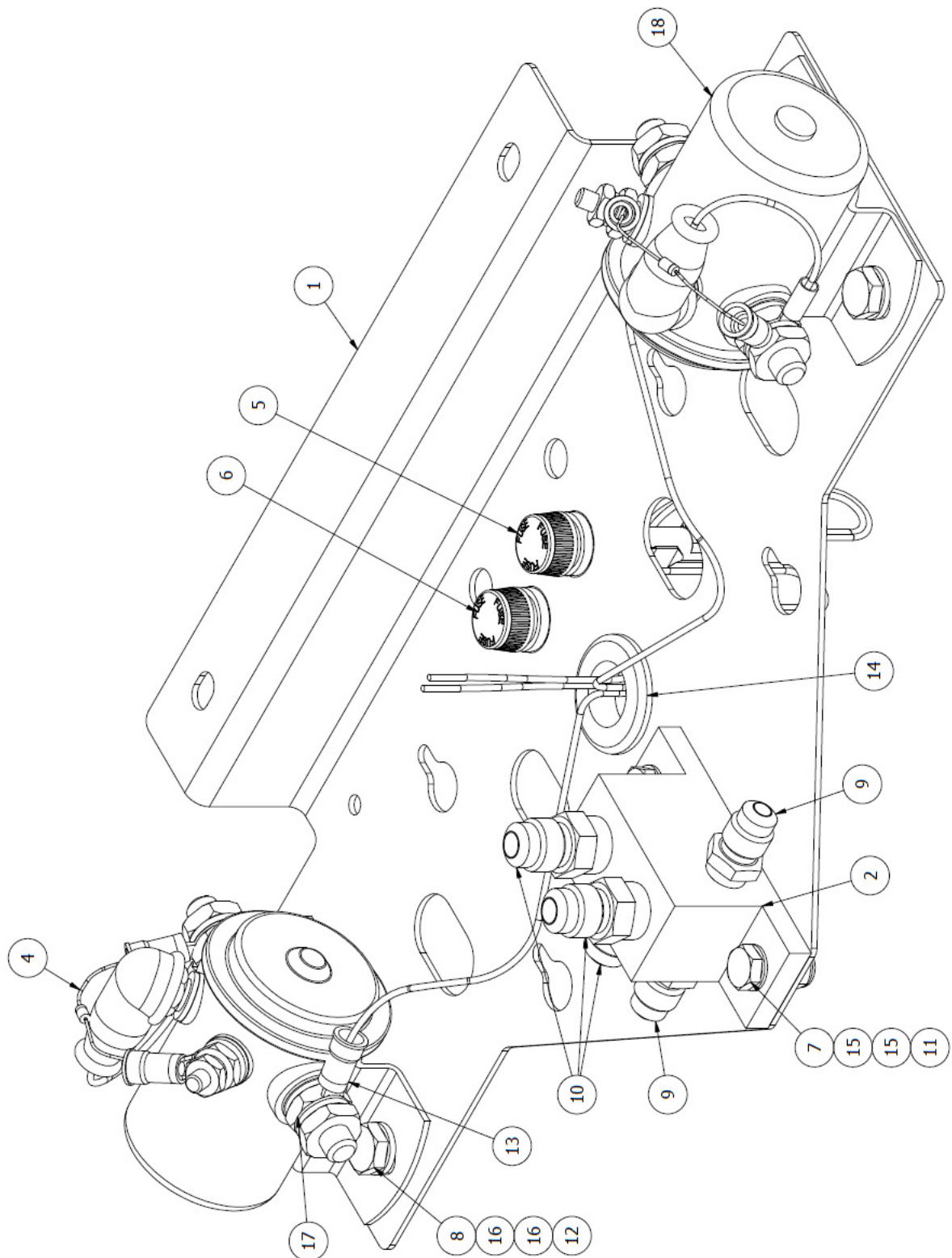
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| ITEM | QTY | PART NO.     | PART DESCRIPTION                                              |
|------|-----|--------------|---------------------------------------------------------------|
| 1    | 1   | 6A09000-027  | ASSEMBLY, MANIFOLD                                            |
|      | 2   | AN816-4D     | FITTING, FLARED TUBE AND PIPE THREAD                          |
|      | 2   | AN816-5-4D   | FITTING, FLARED TUBE AND PIPE THREAD                          |
|      | 1   | 6A09207-001  | HYDRAULIC MANIFOLD                                            |
|      | 1   | 8A01003-078  | BRACKET, HYDRAULIC MANIFOLD                                   |
| 2    | 1   | 6A09000-028  | ASSEMBLY, MANIFOLD                                            |
|      | 4   | AN816-4D     | FITTING, FLARED TUBE AND PIPE THREAD                          |
|      | 4   | AN816-5-4D   | FITTING, FLARED TUBE AND PIPE THREAD                          |
|      | 1   | 6A09046-001  | HYDRAULIC MANIFOLD                                            |
|      | 1   | 8A01003-078  | BRACKET, HYDRAULIC MANIFOLD                                   |
| 3    | 1   | 6A09000-157  | ASSEMBLY, GEAR SELECTOR VALVE                                 |
| 4    | 2   | 8A09000-039  | ASSEMBLY, HYDRAULIC LINE, MANIFOLD TO MAIN GEAR UP            |
| 5    | 2   | 8A09000-040  | ASSEMBLY, HYDRAULIC LINE, MANIFOLD TO MAIN GEAR DOWN          |
| 6    | 2   | 8A09000-041  | ASSEMBLY, HYDRAULIC LINE, MANIFOLD TO NOSE GEAR DOWN          |
| 7    | 2   | 8A09000-042  | ASSEMBLY, HYDRAULIC LINE, MANIFOLD TO NOSE GEAR UP            |
| 8    | 2   | 8A09000-043  | ASSEMBLY, HYDRAULIC LINE, MANIFOLD TO FLOAT DECK              |
| 9    | 1   | 9A09000-173  | ASSEMBLY, MANIFOLD                                            |
|      | 1   | 9A09207-004  | HYDRAULIC MANIFOLD                                            |
|      | 6   | AN816-5-4D   | FITTING, STRAIGHT, PIPE TO TUBE                               |
| 10   | 2   | 9A09000-177  | ASSEMBLY, HYDRAULIC LINE, MAIN TO CABIN FLOOR                 |
| 11   | 2   | 9A09000-178  | ASSEMBLY, HYDRAULIC LINE, CABIN FLOOR TO MANIFOLD             |
| 12   | 2   | 9A09000-179  | ASSEMBLY, HYDRAULIC LINE, CONTROL VALVE TO FUSELAGE           |
| 13   | 1   | 9A09000-180  | ASSEMBLY, HYDRAULIC LINE, CONTROL VALVE, RETURN TO MANIFOLD   |
| 14   | 1   | 9A09000-181  | ASSEMBLY, HYDRAULIC LINE, CONTROL VALVE, PRESSURE TO MANIFOLD |
| 15   | 2   | 9A09000-182  | ASSEMBLY, HYDRAULIC LINE, HAND PUMP TO MANIFOLD               |
| 16   | 2   | 9A09000-183  | ASSEMBLY, HYDRAULIC LINE, FUSELAGE FITTING TO FLOAT DECK      |
| 17   | 2   | 9A09000-188  | ASSEMBLY, HYDRAULIC LINE, CROSS OVER LINE, SPREADER BAR       |
| 18   | 1   | 914-8D-27    | ASSEMBLY, HAND PUMP                                           |
|      | 1   | 1002838      | HANDLE, EMERGENCY HAND PUMP                                   |
|      | 1   | 8A09003-053  | ASSEMBLY, BRACKET, HAND PUMP                                  |
|      | 1   | 13A09158-122 | COVER, HAND PUMP                                              |
|      | 1   | AN919-7D     | REDUCER, FLARED TUBE, 9/16-18, 1/2-20 THREAD                  |
|      | 1   | AN919-11D    | REDUCER, FLARED TUBE, 3/4-16, 1/2-20 THREAD                   |
|      | 1   | MS28775-013  | O-RING, .426 DIA.                                             |
|      | 1   | MS28775-016  | O-RING, .614 DIA.                                             |
| 19   | 6   | AN833-5D     | FITTING, FLARED TUBE, 90° ELBOW, 1/2-20 THREAD                |

| ITEM | QTY | PART NO.      | PART DESCRIPTION                            |
|------|-----|---------------|---------------------------------------------|
|      | 6   | NAS1149F0816P | WASHER, 0.515 ID, 0.016 THK, STEEL          |
|      | 6   | AN924-5D      | NUT, TUBE, BULKHEAD, 1/2-20 THREAD          |
| 20   | 8   | MS20822-4D    | FITTING, ELBOW, FLARED TUBE AND PIPE THREAD |

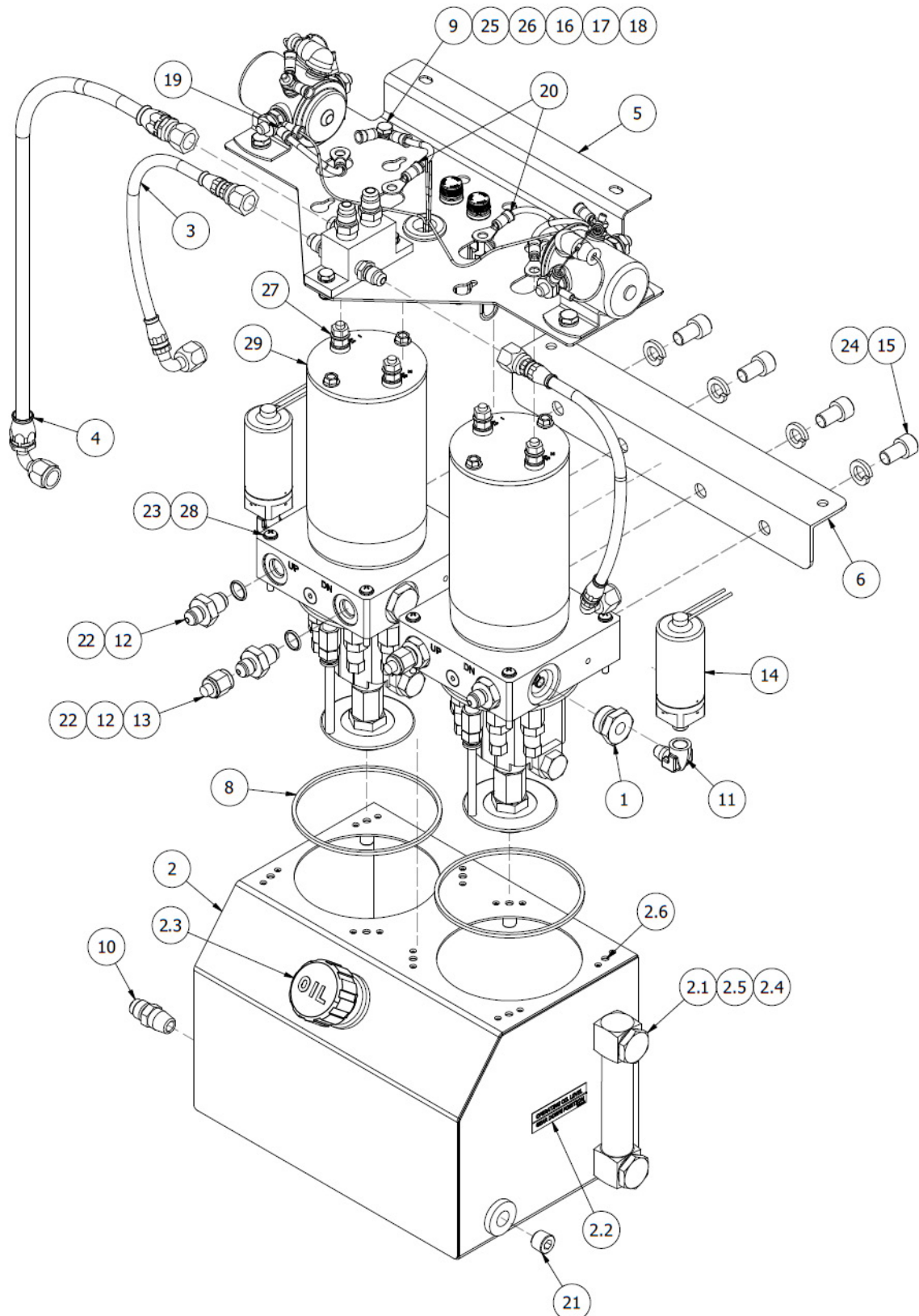


## PUMP MOUNT BRACKET ASSEMBLY POST SERVICE LETTER 215



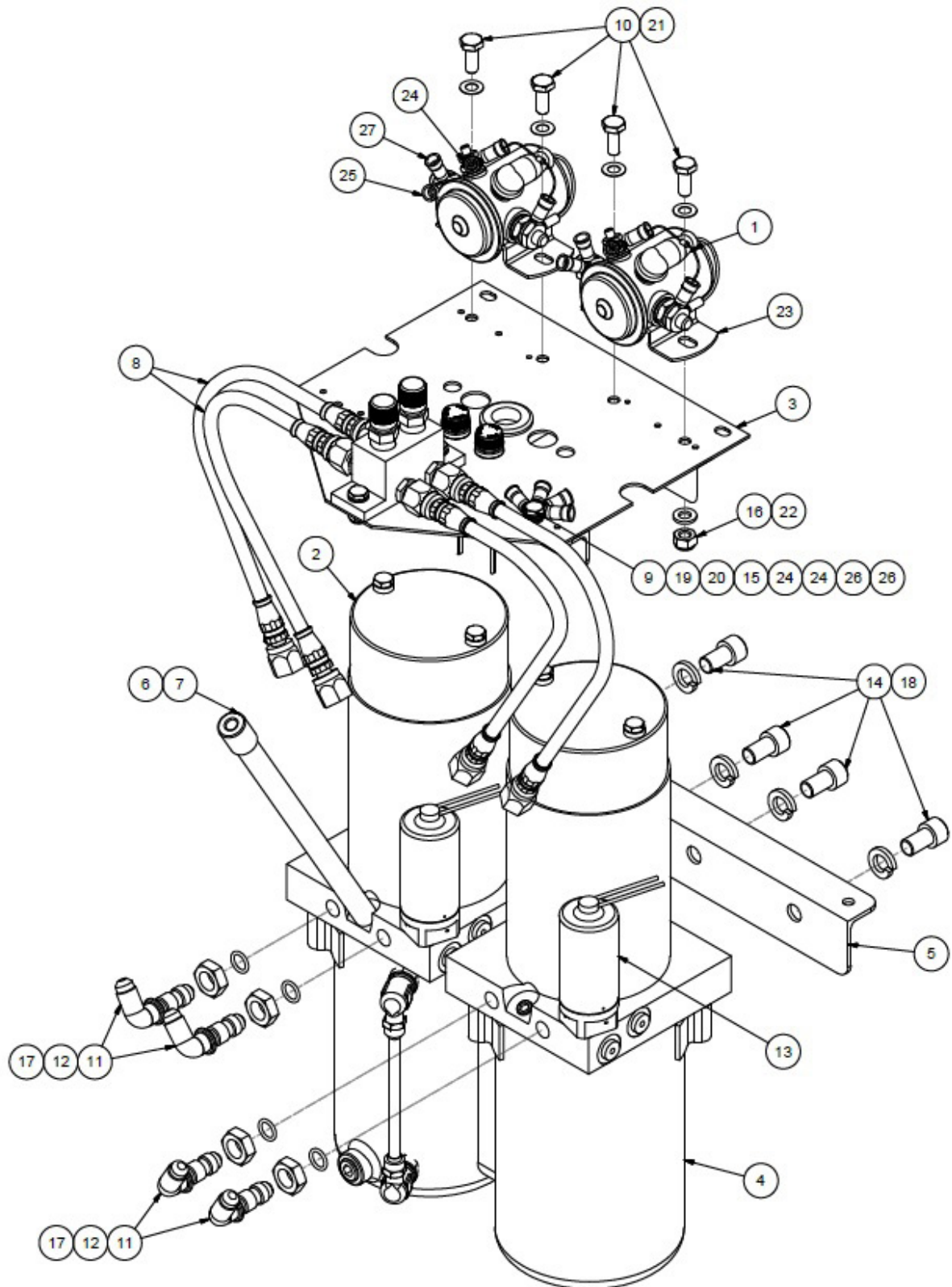
| ITEM | QTY | PART NO.      | PART DESCRIPTION                            |
|------|-----|---------------|---------------------------------------------|
| -    | 1   | 1011402       | ASSEMBLY, BRACKET, PUMP MOUNT               |
| 1    | 1   | 1011401       | UPPER BRACKET, HYDRAULIC PUMP               |
| 2    | 1   | 1011405       | MANIFOLD, HYDRAULIC                         |
| 3    | 1   | 22759-16-20-9 | WIRE, 20 AWG, WHITE                         |
| 4    | 2   | 3A10000-002   | ASSEMBLY, SOLENOID DIODE                    |
| 5    | 1   | 6A09000-128   | ASSEMBLY, FUSE HOLDER, RIGHT                |
| 6    | 1   | 6A09000-129   | ASSEMBLY, FUSE HOLDER, LEFT                 |
| 7    | 2   | AN3-5A        | BOLT, 10-32, 0.25 GRIP, UNDRILLED, STEEL    |
| 8    | 4   | AN4-5A        | BOLT, 1/4-28, 0.1875 GRIP, UNDRILLED, STEEL |
| 9    | 2   | AN816-4D      | NIPPLE, FLARED TUBE AND PIPE THREAD         |
| 10   | 3   | AN816-5-4D    | NIPPLE, FLARED TUBE AND PIPE THREAD         |
| 11   | 2   | MS21044N3     | NUT, LOCKING, REGULAR HEIGHT, 10-32 UNF     |
| 12   | 4   | MS21044N4     | NUT, LOCKING, REGULAR HEIGHT, 1/4-28 UNF    |
| 13   | 2   | MS25036-104   | RING TERMINAL, 5/16 STUD, 22-16 AWG, RED    |
| 14   | 1   | MS35489-17    | GROMMET, RUBBER                             |
| 15   | 4   | NAS1149F0332P | WASHER, 0.203 ID, 0.032 THK, STEEL          |
| 16   | 8   | NAS1149F0463P | WASHER, 0.265 ID, 0.063 THK, STEEL          |
| 17   | 4   | NAS1149F0532P | WASHER, 0.328 ID, 0.032 THK, STEEL          |
| 18   | 2   | P52-0035-1    | SOLENOID, 24V                               |

## HYDRAULIC PUMP INSTALLATION POST SERVICE LETTER 215



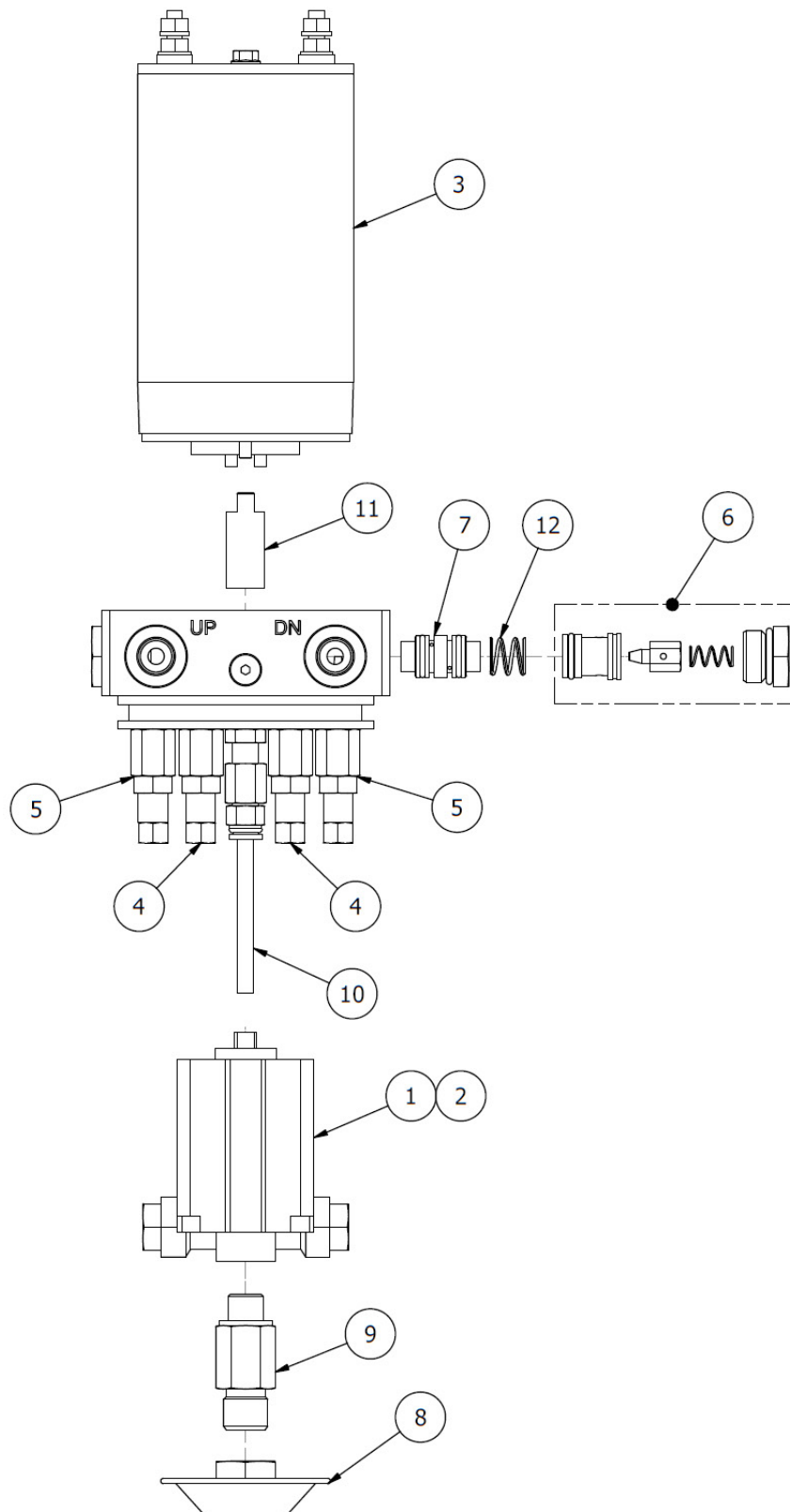
| ITEM | QTY   | PART NO.                         | PART DESCRIPTION                             |
|------|-------|----------------------------------|----------------------------------------------|
| -    | 1     | 1011404                          | ASSEMBLY, HYDRAULIC POWER PACK               |
| 1    | 2     | 1011062                          | ASSEMBLY, PLUG, PRESSURE SWITCH PORT         |
| 2    | 1     | 1011359                          | ASSEMBLY, HYDRAULIC PUMP RESERVOIR           |
| 2.1  | 1     | 1192K17                          | LIQUID LEVEL INDICATOR, 4"                   |
| 2.2  | 1     | 6A3-2199                         | PLACARD, OIL LEVEL                           |
| 2.3  | 1     | 8631T24                          | BREATHER VENT                                |
| 2.4  | 2     | MS21044N8                        | NUT, LOCKING, REGULAR HEIGHT, 1/2-20 UNF     |
| 2.5  | 2     | NAS1149D0832J                    | WASHER, 0.515 ID, 0.032 THK, ALUMINUM        |
| 2.6  | 8     | NAS1473A08                       | NUT PLATE, SEALED                            |
| 3    | 2     | 1011361-01                       | HYDRAULIC HOSE ASSEMBLY, MANIFOLD TO PUMP    |
| 4    | 1     | 1011361-05                       | HOSE, MANIFOLD TO RESERVOIR                  |
| 5    | 1     | 1011402                          | ASSEMBLY, BRACKET, PUMP MOUNT                |
| 6    | 1     | 1011403                          | ANGLE, PUMP MOUNT, LOWER                     |
| 7    | 16 IN | 22759-16-12-9                    | WIRE, 12AWG, WHITE                           |
| 8    | 2     | 4061T199                         | SQUARE PROFILE, O-RING, 3.5" I.D., .094 THK  |
| 9    | 2     | AN3-4A                           | BOLT, 10-32, 0.125 GRIP, UNDRILLED, STEEL    |
| 10   | 1     | AN816-5-4D                       | NIPPLE, FLARED TUBE AND PIPE THREAD          |
| 11   | 2     | AN914-1D                         | ELBOW, 90 DEGREES, INTERNAL EXTERNAL PIPE    |
| 12   | 4     | AN919-3D                         | FITTING, REDUCER                             |
| 13   | 2     | AN929-4                          | CAP                                          |
| 14   | 2     | GPP1250-40                       | PRESSURE SWITCH                              |
| 15   | 4     | MS16997-96                       | SOCKET HEAD CAP SCREW                        |
| 16   | 2     | MS21044N3                        | NUT, LOCKING, REGULAR HEIGHT, 10-32 UNF      |
| 17   | 4     | MS25036-103                      | RING TERNMINAL, #10 STUD, 22-16 AWG, RED     |
| 18   | 2     | MS25036-112                      | RING TERNMINAL, #10 STUD, 10-12 AWG, YELLOW  |
| 19   | 2     | MS25036-113                      | RING TERNMINAL, 5/16 STUD, 10-12 AWG, YELLOW |
| 20   | 4     | MS25036-157                      | RING TERNMINAL, #10 STUD, 10-12 AWG, YELLOW  |
| 21   | 1     | MS27769D3                        | PLUG, PIPE, COUNTERSINK HEX HEAD             |
| 22   | 4     | MS28775-013                      | "O" RING, HYDRAULIC                          |
| 23   | 8     | MS35206-252                      | SCREW, MACHINE, PAN HEAD                     |
| 24   | 4     | MS35338-46                       | WASHER, SPLIT                                |
| 25   | 2     | NAS1149F0332P                    | WASHER, 0.203 ID, 0.032 THK, STEEL           |
| 26   | 2     | NAS1149F0363P                    | WASHER, 0.203 ID, 0.063 THK, STEEL           |
| 27   | 4     | NAS1149F0432P                    | WASHER, 0.265 ID, 0.032 THK, STEEL           |
| 28   | 8     | NAS1149FN832P                    | WASHER, 0.174 ID, 0.032 THK, STEEL           |
| 29   | 2     | YBZS-<br>D0.63W2T100K/<br>UVZOT2 | HYDRAULIC POWER PACK, 24VDC, .64 PUMP        |

## HYDRAULIC PUMP INSTALLATION PRE SERVICE LETTER 215



| ITEM | QTY | PART NO.      | PART DESCRIPTION                                |
|------|-----|---------------|-------------------------------------------------|
| -    | 1   | 6A09000-029   | ASSEMBLY, HYDRAULIC PUMP                        |
| 1    | 2   | 3A10000-002   | ASSEMBLY, SOLENOID DIODE                        |
| 2    | 2   | 636603A       | ASSEMBLY, PUMP, WITH MOTOR                      |
| 3    | 1   | 6A09000-030   | ASSEMBLY, PUMP MOUNT BRACKET                    |
| 4    | 1   | 6A09000-115   | ASSEMBLY, RESERVOIR                             |
| 5    | 1   | 6A09348-003   | ANGLE, ATTACH, HYDRAULIC PUMP                   |
| 6    | 1   | 6A09398-001   | FILLER PIPE, HYDRAULIC PUMP                     |
| 7    | 1   | 6A09706-001   | FILTER, HYDRAULIC PIPE                          |
| 8    | 4   | 8A09000-048   | ASSEMBLY, HYDRAULIC LINE, PUMP                  |
| 9    | 1   | AN3-5A        | BOLT, 10-32, 0.25 GRIP, UNDRILLED, STEEL        |
| 10   | 4   | AN4-5A        | BOLT, 1/4-28, 0.1875 GRIP, UNDRILLED, STEEL     |
| 11   | 4   | AN833-4D      | FITTING, HYDRAULIC, 90 DEGREE ELBOW             |
| 12   | 4   | AN924-4D      | JAM NUT                                         |
| 13   | 2   | GPP1250-23    | PRESSURE SWITCH                                 |
| 14   | 4   | MS16997-96    | SOCKET HEAD CAP SCREW                           |
| 15   | 1   | MS21044N3     | NUT, LOCKING, REGULAR HEIGHT, 10-32 UNF         |
| 16   | 4   | MS21044N4     | NUT, LOCKING, REGULAR HEIGHT, 1/4-28 UNF        |
| 17   | 4   | MS28775-012   | O RING, HYDRAULIC PACKING, .364 ID              |
| 18   | 4   | MS35338-46    | WASHER, SPLIT                                   |
| 19   | 1   | NAS1149D0316J | WASHER, 0.203 ID, 0.016 THK, ALUMINUM           |
| 20   | 1   | NAS1149D0363J | WASHER, 0.203 ID, 0.063 THK, ALUMINUM           |
| 21   | 4   | NAS1149D0416J | WASHER, 0.265 ID, 0.016 THK, ALUMINUM           |
| 22   | 4   | NAS1149D0463J | WASHER, 0.265 ID, 0.063 THK, ALUMINUM           |
| 23   | 2   | P52-0035-1    | SOLENOID, 24V                                   |
| 24   | 4   | MS25036-103   | RING TERMINAL, #10 STUD, 22-16 AWG, RED         |
| 25   | 2   | MS25036-104   | RING TERMINAL, 5/16 STUD, 22-16 AWG, RED        |
| 26   | 2   | MS25036-112   | RING TERMINAL, #10 STUD, 10-12 AWG, YELLOW      |
| 27   | 2   | MS25036-113   | RING TERMINAL, 5/16 STUD, 10-12 AWG, YELLOW     |
| 28   | 1   | 9A09000-176   | ASSY, BRACKET, HYDRAULIC PUMP MOUNT (NOT SHOWN) |

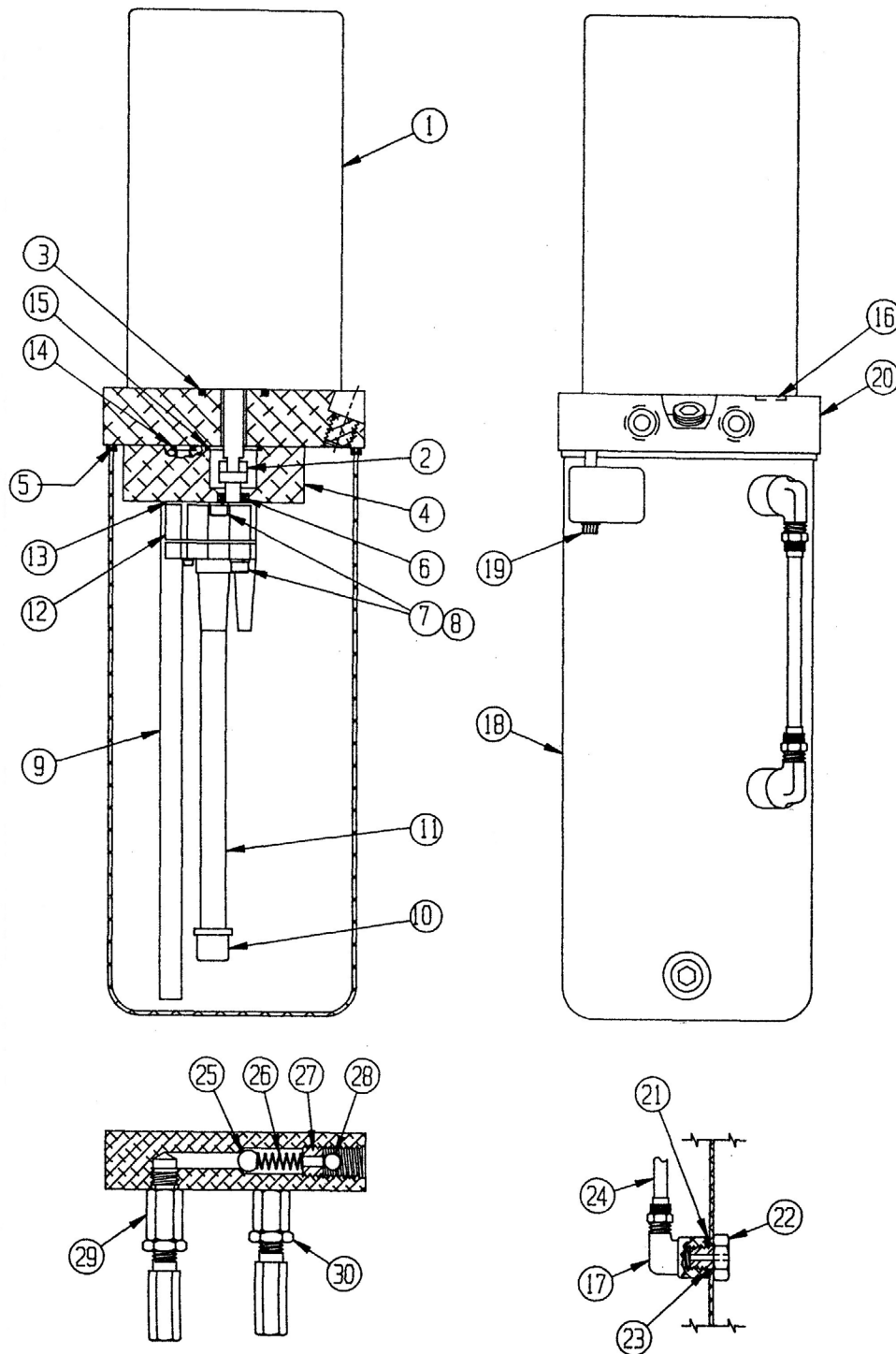
## HYDRAULIC PUMP OVERVIEW POST SERVICE LETTER 215



| ITEM | QTY | PART NO. | PART DESCRIPTION                                                                                                     |
|------|-----|----------|----------------------------------------------------------------------------------------------------------------------|
| 1    | 1   | 202-0003 | BI-DIRECTIONAL PUMP, 0.64 ML/R                                                                                       |
| 2    | 1   | 299-0008 | SEAL KIT, BI-DIRECTIONAL GEAR PUMP                                                                                   |
| 3    | 1   | 610-0017 | DC MOTOR, 24V, .8 KW                                                                                                 |
| 4    | 2   | 631-0005 | PRESSURE RELIEF VALVE                                                                                                |
| 5    | 2   | 631-0006 | THERMAL RELIEF VALVE                                                                                                 |
| 6    | 2   | 632-0004 | ASSEMBLY, PILOT OPERATED CHECK VALVE                                                                                 |
| 7    | 1   | 637-0024 | SHUTTLE VALVE                                                                                                        |
| 8    | 1   | 682-0019 | FILTER, PICKUP TUBE, HYDRAULIC PUMP                                                                                  |
| 9    | 1   | 682-0055 | SUCTION HEX TUBE                                                                                                     |
| 10   | 1   | 682-0056 | RETURN TUBE                                                                                                          |
| 11   | 1   | 683-0011 | COUPLING, MOTOR TO PUMP                                                                                              |
| 12   | 2   | 685-0012 | SPRING, SHUTTLE VALVE                                                                                                |
| 13   | 1   | 687-0001 | SEAL KIT, RESERVIOR O-RING, PILOT OPERATED RELIEF VALVE O-RING, THERMAL AND PRESSURE RELIEF VALVE O-RING (NOT SHOWN) |



## HYDRAULIC PUMP OVERVIEW PRE SERVICE LETTER 215



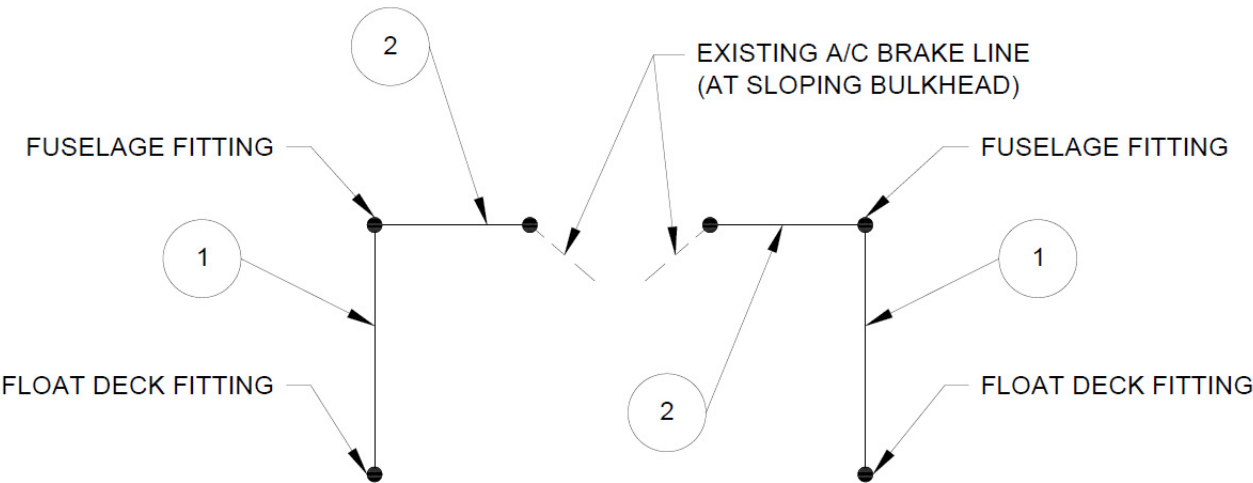
| ITEM | QTY | PART NO.       | PART DESCRIPTION               |
|------|-----|----------------|--------------------------------|
| -    | 1   | 636603A        | ASSEMBLY-MOTOR AND PUMP (24V)  |
| 1    | 1   | MB56-N1        | MOTOR (24V)                    |
|      | 1   | MB56C902-3 KIT | BRUSH AND BEARING SERVICE KIT  |
|      | 1   | MB56C902-3     | BRUSHES ONLY                   |
|      | 1   | ST102-6        | BEARINGS ONLY                  |
| 2    | 1   | 361730         | COUPLING                       |
| 3    | 1   | 409406         | "O" RING                       |
| 4    | 1   | 361726         | SPACER                         |
| 5    | 1   | 410958*        | SEAL RESERVOIR                 |
| 6    | 1   | 410512*        | OIL SEAL                       |
| 7    | 4   | 410410*        | LOCK WASHER                    |
| 8    | 4   | 406187*        | SCREW                          |
| 9    | 1   | 409894         | PIPE NIPPLE                    |
| 10   | 1   | 410521*        | FILTER                         |
| 11   | 1   | 361843         | TUBE EXTENSION                 |
| 12   | 1   | 633383         | PUMP ASSEMBLY                  |
| 13   | 2   | MS28775-009    | "O" RING                       |
| 14   | 2   | 401273*        | "O" RING                       |
| 15   | 1   | MS28775-020    | "O" RING                       |
| 16   | 2   | 361615         | WASHER, PILOT ¼ DIA            |
| 17   | 2   | 410330         | ELBOW                          |
| 18   | 1   | 6A09000-115    | ASSEMBLY RESERVOIR             |
| 19   | 2   | 406187*        | SCREW                          |
|      | 2   | 409357*        | WASHER                         |
| 20   | 1   | 361473         | ADAPTOR                        |
| 21   | 1   | 361049         | "O" RING                       |
| 22   | 2   | 360824         | SCREW SIGHT GAUGE              |
| 23   | 2   | MS28775-110    | "O" RING                       |
| 24   | 1   | 361507         | TUBE SIGHT GAUGE               |
| 25   | 1   | 490405*        | STEEL BALL                     |
| 26   | 1   | 410462*        | SPRING                         |
| 27   | 1   | 409211*        | LOCK SCREW                     |
| 28   | 1   | 409263         | PIPE PLUG                      |
| 29   | 1   | 704520*        | ASSEMBLY VALVE PRESSURE RELIEF |
| 30   | 1   | 704522*        | ASSEMBLY VALVE THERMAL RELIEF  |

\*Reference Wipaire drawing 1011032 for alternate part numbers.

## HYDRAULIC HOSE ASSEMBLIES FOR SINGLE OTTER

| ITEM | DESCRIPTION                                      | CUT LENGTH | QTY | PART NUMBER |
|------|--------------------------------------------------|------------|-----|-------------|
| 1    | HOSE - MAIN PUMP TO CABIN FLOOR                  | 240 IN     | 2   | 9A09000-177 |
| 2    | HOSE - CABIN FLOOR TO MANIFOLD                   | 38 IN      | 2   | 9A09000-178 |
| 3    | HOSE - CONTROL VALVE TO R. SIDE<br>FUSELAGE SKIN | 88 IN      | 2   | 9A09000-179 |
| 4    | HOSE- CONTROL VALVE (RETURN) TO<br>MANIFOLD      | 84 IN      | 1   | 9A09000-180 |
| 5    | HOSE - CONTROL VALVE (PRESSURE) TO<br>MANIFOLD   | 84 IN      | 1   | 9A09000-181 |
| 6    | HOSE - HAND PUMP TO MANIFOLD                     | 72 IN      | 2   | 9A09000-182 |
| 7    | HOSE - FUSELAGE FITTING TO FLOAT<br>DECK         | 80 IN      | 2   | 9A09000-183 |
| 8    | HOSE - CROSS OVER LINE SP. BAR                   | 144 IN     | 2   | 9A09000-188 |
| 9    | HOSE - BRAKE LINE STEP BULKHEAD TO<br>DECK       | 62 IN      | 2   | 9A09000-189 |
| 10   | HOSE - BRAKE LINE DECK TO FUSELAGE               | 103 IN     | 2   | 9A04000-184 |
| 11   | HOSE - BRAKE LINE FUSELAGE TO A/C<br>BRAKELINE   | 72 IN      | 2   | 9A04000-185 |

BRAKE SYSTEM SCHEMATIC



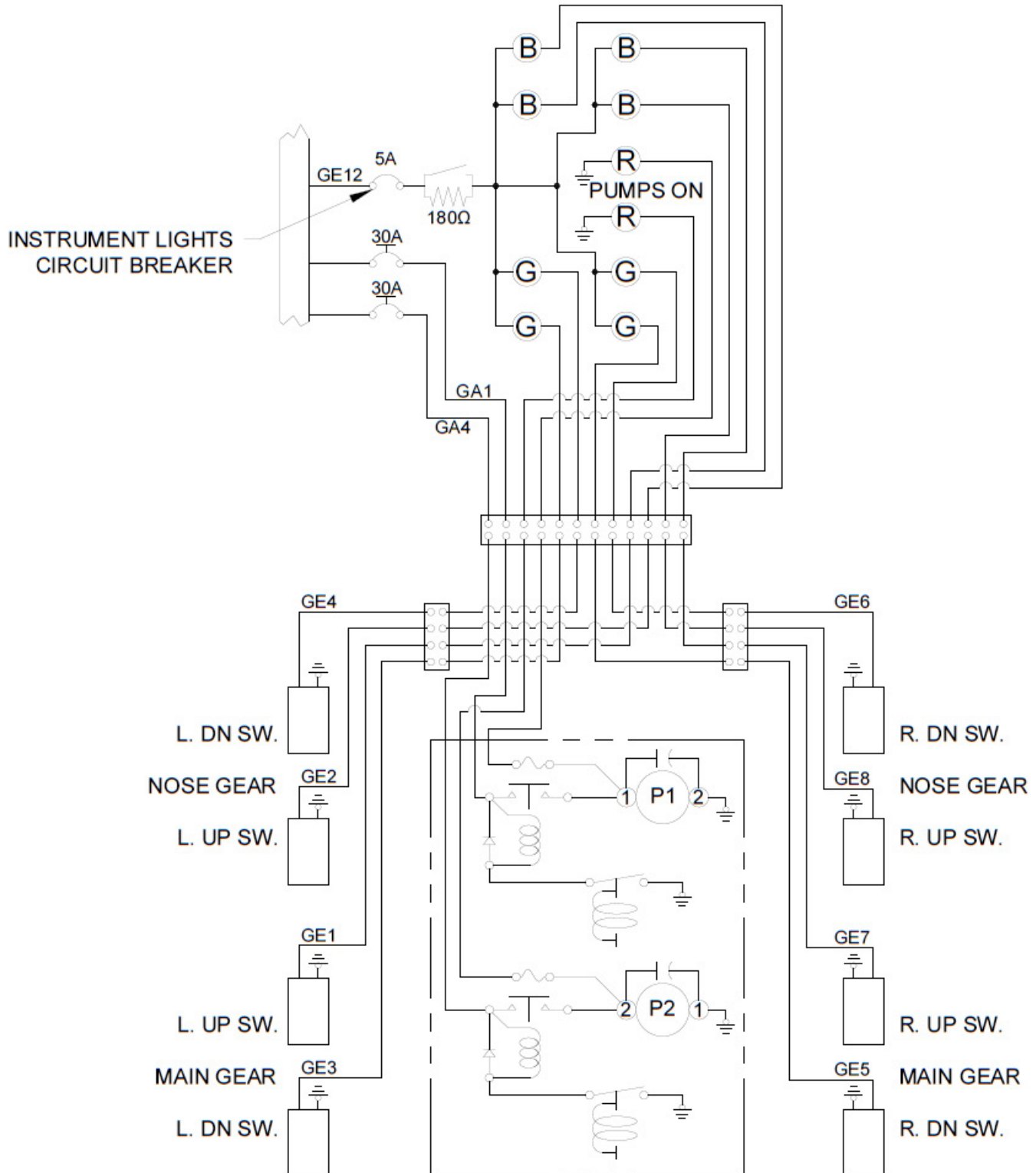
| ITEM | QTY | PART NO.    | PART DESCRIPTION                                 |
|------|-----|-------------|--------------------------------------------------|
| 1    | 2   | 9A09000-184 | ASSEMBLY, BRAKE LINE, FLOAT TO FUSELAGE          |
| 2    | 2   | 9A09000-185 | ASSEMBLY, BRAKE LINE, FUSELAGE TO A/C BRAKE LINE |

# ELECTRICAL

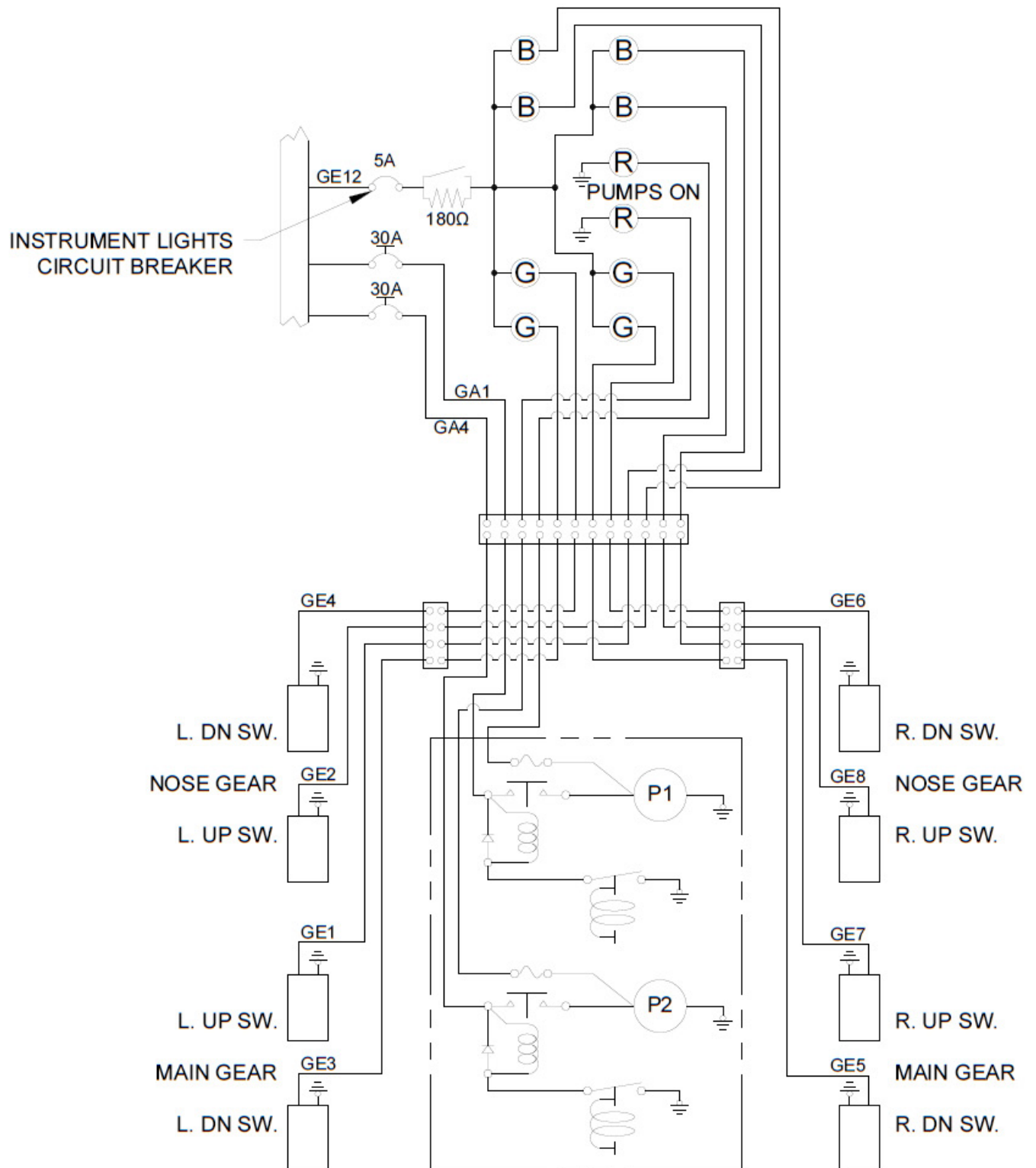
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| GEAR CONTROL ASSEMBLY.....                                  | 112 |

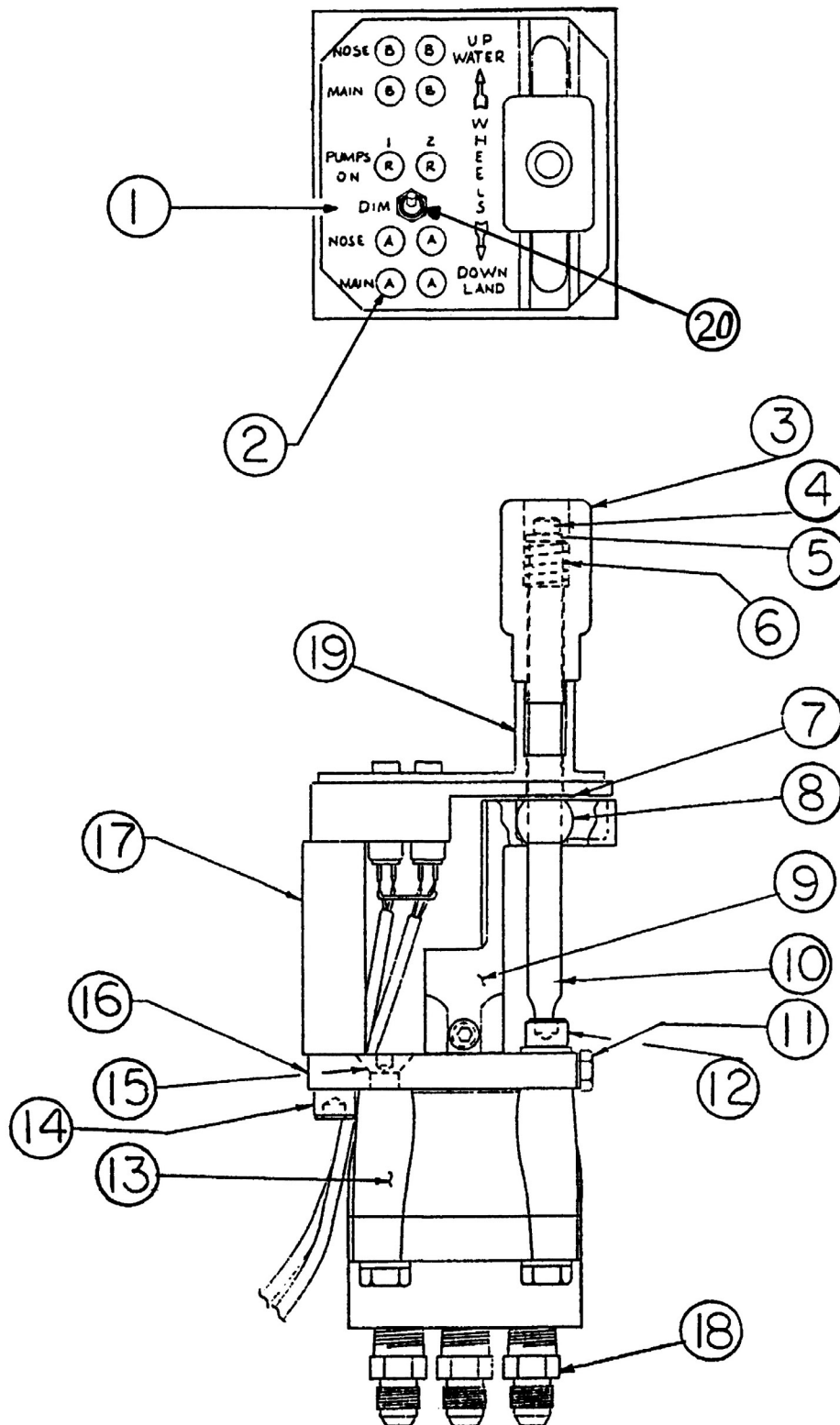
## ELECTRICAL SCHEMATIC AMPHIBIAN POST SERVICE LETTER 215



## ELECTRICAL SCHEMATIC AMPHIBIAN PRE SERVICE LETTER 215



## GEAR CONTROL ASSEMBLY





PARTS MANUAL  
8000 FLOATS ON DEHAVILLAND DHC-3 SINGLE OTTER

| ITEM | QTY | PART NO.         | PART DESCRIPTION                |
|------|-----|------------------|---------------------------------|
| 1    | 1   | 5A3-694          | PLACARD                         |
| 2    | 2   | 5073918-1431-600 | LIGHT-RED                       |
|      | 4   | 5073918-1434-600 | LIGHT-BLUE                      |
|      | 4   | 5073918-1433-600 | LIGHT-AMBER                     |
|      | 10  | 515-0012         | SOCKET                          |
|      | 3   | AN526-832R8      | SCREW                           |
| 3    | 1   | 6A11603-002      | KNOB                            |
| 4    | 1   | MS16996-10       | SCREW                           |
| 5    | 1   | 6A11274-002      | WASHER                          |
| 6    | 1   | 6A09713-001      | SPRING                          |
| 7    | 2   | NAS1149D0616J    | WASHER                          |
| 8    | 1   | 6A11704-001      | ROLLER                          |
| 9    | 1   | 6A11032-002      | LINK                            |
| 10   | 1   | 6A11506-001      | SHAFT                           |
| 11   | 1   | NAS6203-7        | BOLT                            |
| 12   | 2   | MS16997-80       | CAP SCREW                       |
| 13   | 1   | 6A09000-080      | VALVE                           |
|      | 1   | KD70119          | SEAL KIT                        |
| 14   | 2   | MS16997-88       | CAP SCREW                       |
| 15   | 2   | MS24667-40       | SCREW FLAT HEAD SOCKET          |
| 16   | 1   | 6A11190-001      | FITTING                         |
| 17   | 2   | 6A11278-001      | SPACER                          |
| 18   | 4   | AN816-5-4D       | NIPPLE                          |
| 19   | 1   | 8A11199-006      | BLOCK-HOUSING                   |
| 20   | 1   | A101SYCB         | DIMMER SWITCH                   |
| 21   | 1   | 6A09000-157      | COMPLETE ASSEMBLY CONTROL VALVE |

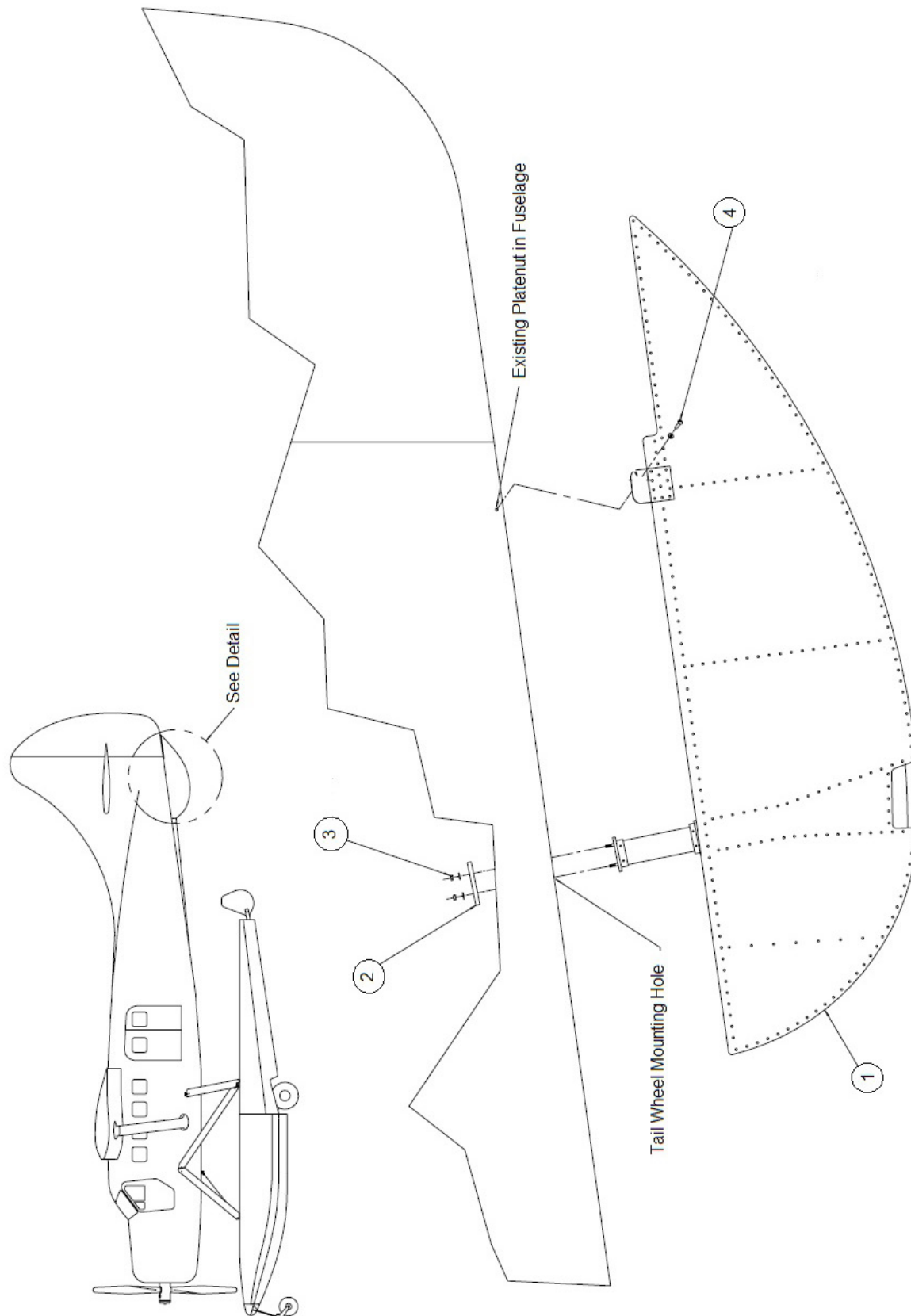
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**SECTION 12**  
**VENTRAL FIN**

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VENTRAL FIN ASSEMBLY ..... 118

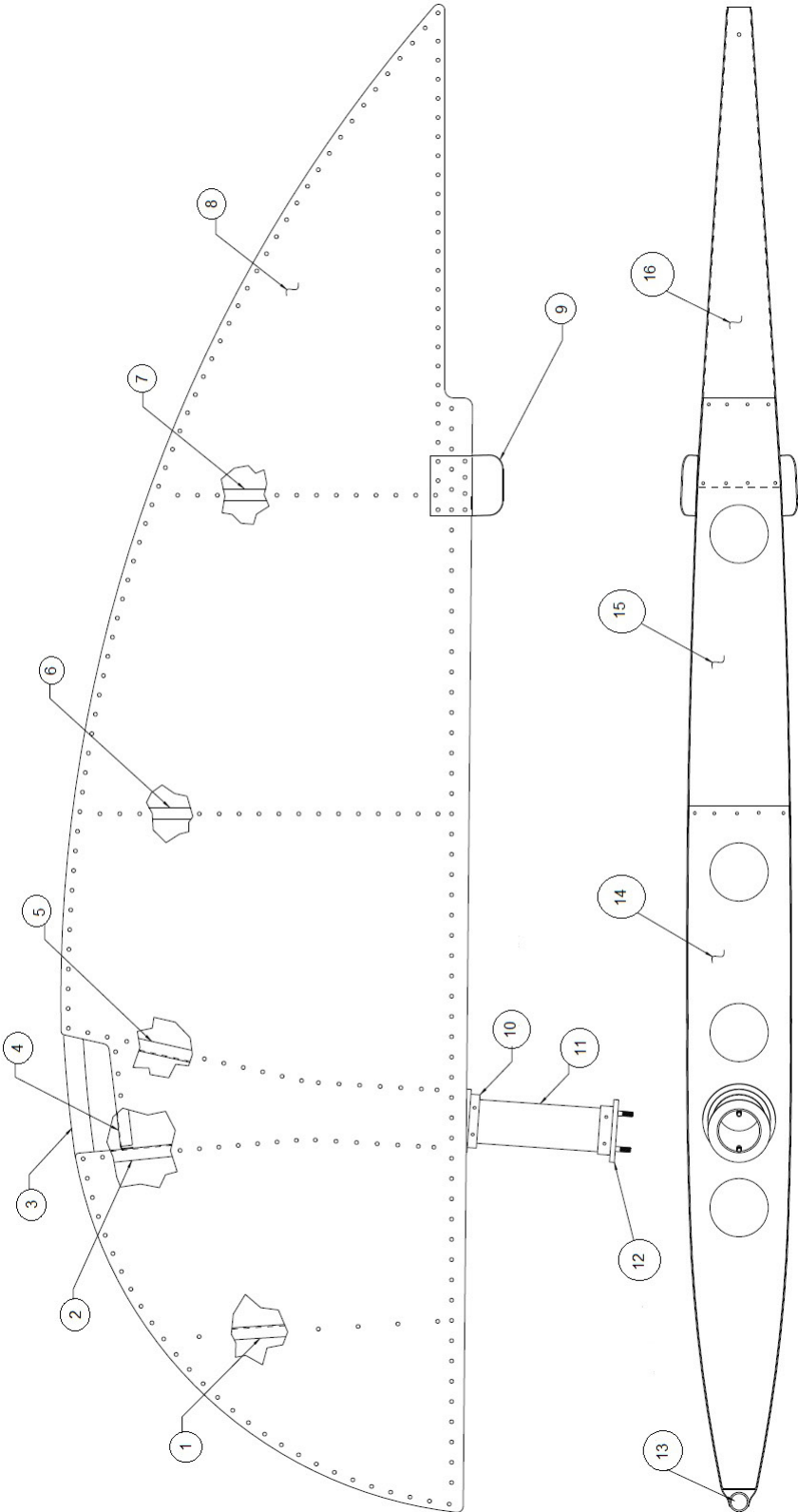
## VENTRAL FIN - SINGLE OTTER INSTALLATION



PARTS MANUAL  
8000 FLOATS ON DEHAVILLAND DHC-3 SINGLE OTTER

| ITEM | QTY | PART NO.      | PART DESCRIPTION                             |
|------|-----|---------------|----------------------------------------------|
| 1    | 1   | 9A12000-036   | ASSY, VENTRAL FIN, SINGLE OTTER (SEE DETAIL) |
| 2    | 1   | 9A12184-002   | WASHER, VENTRAL FIN, ATTACH                  |
| 3    | 2   | MS21044N6     | NUT                                          |
|      | 2   | NAS1149F0363P | WASHER                                       |
| 4    | 2   | AN526-1032R12 | SCREW                                        |
|      | 2   | NAS11491063P  | WASHER                                       |

VENTRAL FIN ASSEMBLY



PARTS MANUAL  
8000 FLOATS ON DEHAVILLAND DHC-3 SINGLE OTTER

| ITEM | QTY | PART NO.    | PART DESCRIPTION                    |
|------|-----|-------------|-------------------------------------|
| 1    | 1   | 9A12005-255 | ANGLE, VENTRAL FIN, FWD, LEFT       |
|      | 1   | 9A12005-256 | ANGLE, VENTRAL FIN, FWD RIGHT       |
| 2    | 1   | 9A12002-124 | RIB, VENTRAL FIN #1                 |
| 3    | 1   | 9A12420-001 | TUBE, VENTRAL FIN, FRAME            |
| 4    | 1   | 9A12004-082 | VENTRAL FIN, RIB HANDLE             |
| 5    | 1   | 9A12002-125 | RIB, VENTRAL FIN #2                 |
| 6    | 1   | 9A12004-083 | RIB, VENTRAL FIN #3                 |
| 7    | 1   | 9A12004-084 | RIB, VENTRAL FIN #4                 |
| 8    | 1   | 9A12010-008 | SIN, VENTRAL FIN, SIDE, RIGHT       |
|      | 1   | 9A12010-007 | SIN, VENTRAL FIN, SIDE, LEFT        |
| 9    | 1   | 9A12008-141 | BRACKET, ATTACH, VENTRAL FIN, LEFT  |
|      | 1   | 9A12008-140 | BRACKET, ATTACH, VENTRAL FIN, RIGHT |
| 10   | 1   | 9A12098-002 | COLLAR, VENTRAL FIN ATTACH, LOWER   |
| 11   | 1   | 9A12000-030 | ASSEMBLY, TUBE, VENTRAL FIN MOUNT   |
| 12   | 1   | 9A12256-007 | COLLAR, VENTRAL FIN ATTACH, UPPER   |
| 13   | 1   | 9A12606-004 | PLUG, TUBE, END                     |
| 14   | 1   | 9A12010-009 | RIB, VENTRAL FIN, UPPER, FWD        |
| 15   | 1   | 9A12010-010 | RIB, VENTRAL FIN, UPPER, CENTER     |
| 16   | 1   | 9A12010-011 | RIB, VENTRAL FIN, UPPER, AFT        |

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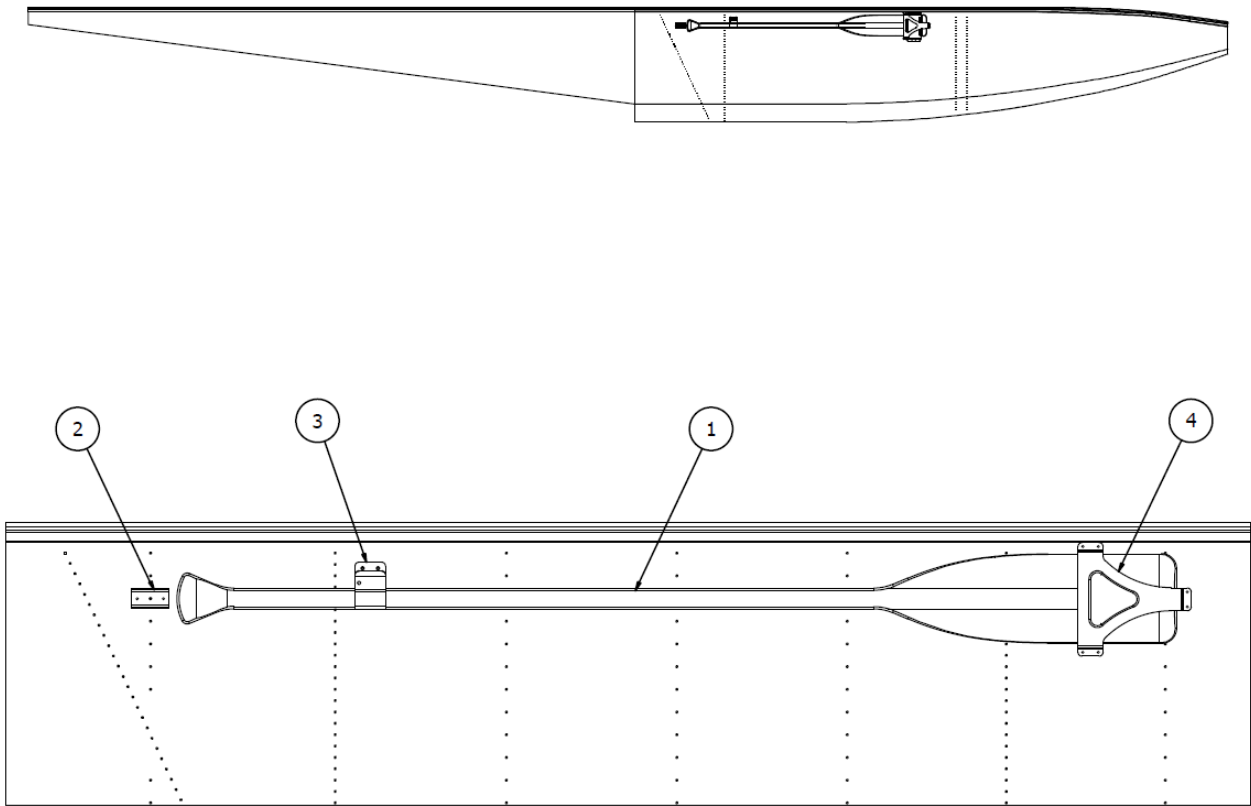


**SECTION 13**  
**CANOE PADDLE**

**CONTENTS**

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CANOE PADDLE



| ITEM | QTY | PART NO. | PART DESCRIPTION             |
|------|-----|----------|------------------------------|
| 1    | 1   | 1012328  | CANOE PADDLE, 5.5 FT         |
| 2    | 1   | 1005676  | BRACKET, CANOE PADDLE STOP   |
| 3    | 1   | 1005677  | CLIP, MOUNITNG, CANOE PADDLE |
| 4    | 1   | 1005678  | BRACKET, CANOE PADDLE        |