WIPAIRE

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



PARTS MANUAL
FOR
WIPLINE MODEL 2100 FLOATS
ON
AVIAT HUSKY
A-1, A-1A, A-1B, A-1C

Revision W

Wipaire | Fire Boss | Lake & Air
1700 Henry Ave – Fleming Field (KSGS), South St. Paul, MN 55075
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LOG OF REVISIONS

Revision	Pages Affected	Description	Date
A-T	All	For previous revision changes, reference Parts Manual for 2100 Floats on Aviat Husky, Revision T, part number 1002165.	9/3/2024
U	10-14, 17-19, 23-24, 29, 37, 40, 44, 86, 88-91	Removed 21A03115-001 and associated hardware in Hull Assemblies for Amphibian and Seaplane sections. Updated images and parts in Bulkheads 21A01000-250, 21A01000-253 21A01000-261, 21A01000-263, 21A01000-264, and 21A01000-265. Removed Paddle Bracket 1002114, Right Stop 1002113, Left Stop 3A01156-057, Paddle Clip 3A01503-001, and Paddle 0238-0035 from Skins & Stiffeners sections. Added Canoe Paddle section image and parts list. Updated image and renumbered parts list, removed 21A03032-006, 21A03214-003, 21A03115-001, and 21A03154-007, in Struts, Wires, & Spreader Bars section. Added Fwd Spreader Bar Support Panel Assembly 21A01000-260 image and parts list. Added Aft Spreader Bar Support Panel Assembly 21A01000-259 image and parts list. Added Spreader Bar Tube Mounting image and parts list.	4/17/2025
V	20, 47, 50, 87	Updated image of 21A01000-252 Bulkhead 6. Updated parts and quantities in Top Deck - Amphibian and Seaplane sections. Added FWD RH Strut Assembly 21A02000-222 to Struts, Wires, & Spreader Bars section.	9/25/2025
W	47-48, 50-51, 57, 59-62, 70-73, 79, 84, 108, 113, 115, 127	Changed Gear Indicator Cover 21A01002-137 and 21A01002-138 to 1009202, changed Placard 10A3-6338-1 to 1009122 and changed Placard 10A3-6338-2 to 1009123, changed 2600-3 quantity from 4 to 2, added Stud 1126000-4, changed 212-12N to 212-12 in Top Deck - Amphibian section. Changed Cross Tie, Top Deck, Baggage 21A01326-004 to 1013020, changed Cross Tie, Top Deck 30S01326-035 to 1013025 in Top Deck sections. Replaced 21S01000-400 After Body Gusset with 1013018 for Right Float and 1013019 for Left Float in Seaplane Hull Extrusions section. Renamed Section 6. Updated image and parts list in Pumpout Cup and Tube section. Added Float Hand Pump section. Updated image and parts list in Nose Gear Retraction Assembly section. Updated image and parts list in Nose Gear Lower Assembly section. Changed Flanged Bushing 08FDU10 to 08FDU12 in Main Gear Retraction Installation Section. Changed O-Ring AN6227-23 to MS28775-218 in Main Gear Wheel Cleveland/Parker Assembly. Changed Assembly, Relay, Time Delay Release from 1005042 to 1012411.	11/9/2026

View most current version of parts manual at 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

Email: customerservice@wipaire.com

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)

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.

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

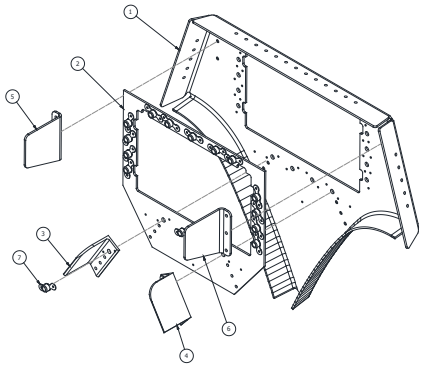
USING THIS PARTS MANUAL

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

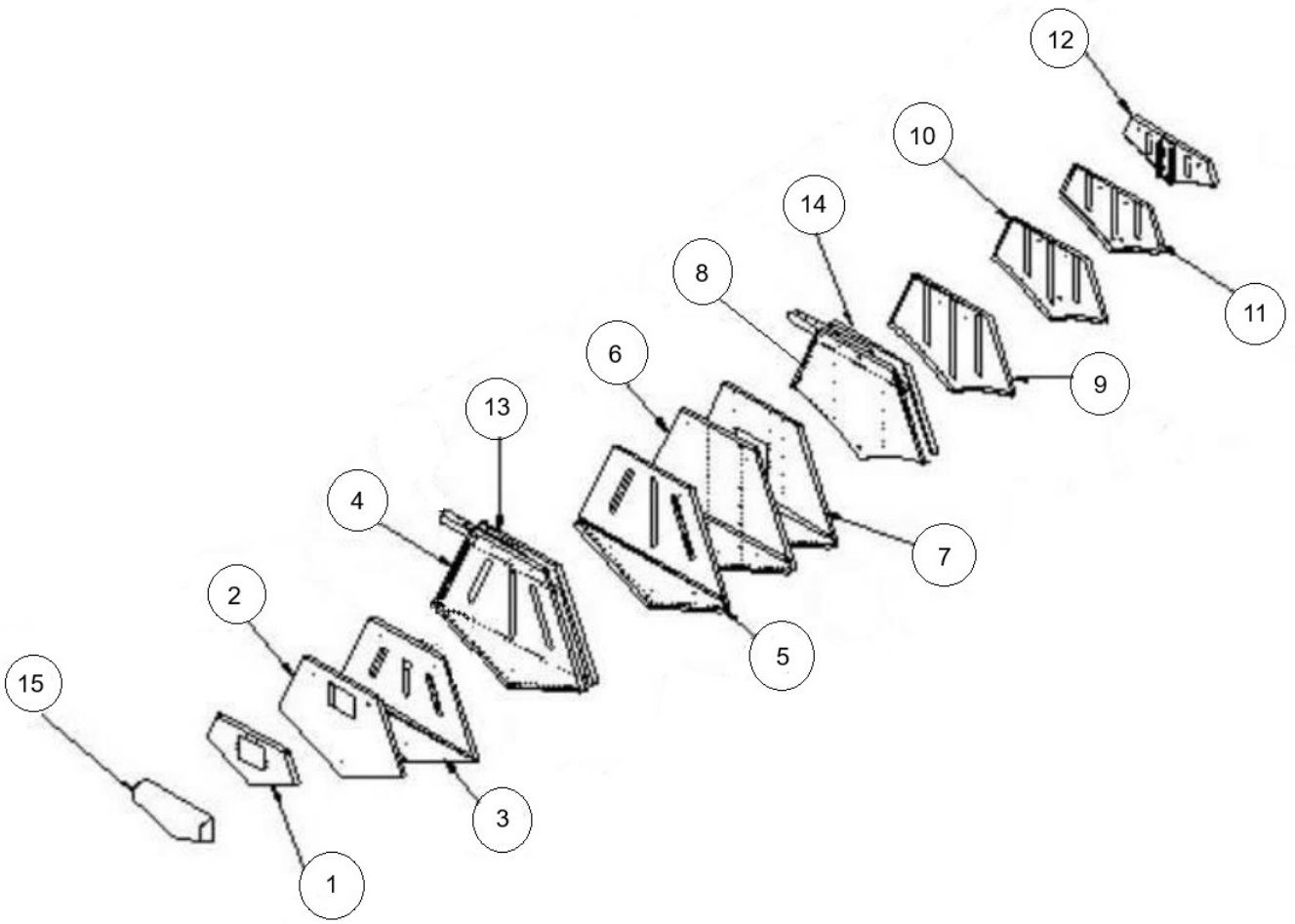
To order an individual part, order the part number associated with item number.

SECTION 1
HULL BULKHEAD ASSEMBLIES

CONTENTS

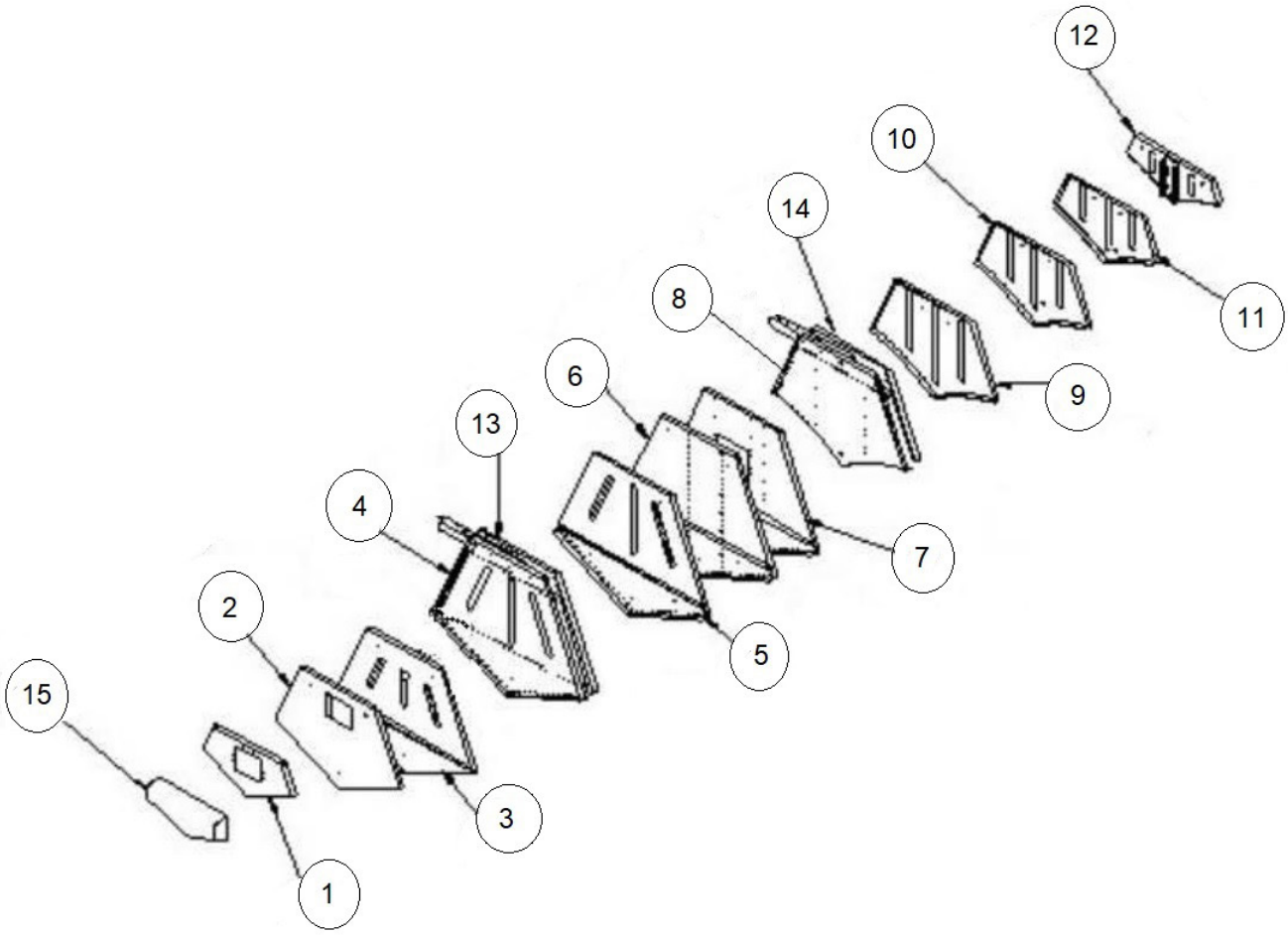
HULL ASSEMBLY - AMPHIBIAN 10
HULL ASSEMBLY - SEAPLANE 12
NOSE BUMPER - AMPHIBIAN 15
BULKHEAD #1 16
BULKHEAD #3 17
BULKHEAD #4 18
BULKHEAD #5 19
BULKHEAD #6 20
BULKHEAD #7 LEFT FLOAT 21
BULKHEAD #7 RIGHT FLOAT 22
BULKHEAD #8 LEFT FLOAT 23
BULKHEAD #8 RIGHT FLOAT 24
BULKHEAD #10 25
BULKHEAD #11 26
BULKHEAD #12 27
BULKHEAD #13 28
BULKHEAD #14 29

HULL ASSEMBLY - AMPHIBIAN



ITEM	QTY	PART NO.	PART DESCRIPTION
1	1	21A01163-067	ASSEMBLY, BULKHEAD #1
2	1	21A01000-265	ASSEMBLY, BULKHEAD #3
3	1	21A01000-261	ASSEMBLY, BULKHEAD #4
4	1	21A01000-253	ASSEMBLY, BULKHEAD #5
5	1	21A01000-252	ASSEMBLY, BULKHEAD #6
6 LT.	1	21A01000-267	ASSEMBLY, BULKHEAD #7, LH
6 RT.	1	21A01000-266	ASSEMBLY, BULKHEAD #7, RH
7 LT.	1	21A01000-263	ASSEMBLY, BULKHEAD #8, LH
7 RT.	1	21A01000-264	ASSEMBLY, BULKHEAD #8, RH
8	1	21A01000-262	ASSEMBLY, BLKHD 10, COMP
9	1	21A01000-395	ASSEMBLY, BULKHEAD #11
10	1	21A01000-396	ASSEMBLY, BULKHEAD #12
11	1	21A01000-397	ASSEMBLY, BULKHEAD #13
12	1	21A01000-250	ASSEMBLY, BULKHEAD #14
13	1	21A01000-260	ASSY. SPR. BAR PANEL FWD
	1	21A01163-065	PANEL – SPR. BAR
	1	21A01326-013	ANGLE – SIDE L.
	1	21A01326-014	ANGLE – SIDE R.
	1	AN4-5A	BOLT, 1/4-28, 0.1875 GRIP, UNDRILLED, STEEL
	1	NAS1149F0463P	WASHER, 0.265 ID, 0.063 THK, STEEL
	1	MS21044N4	NUT, LOCKING, REGULAR HEIGHT, 1/4-28 UNF
14	1	21A01000-259	ASSY. SPR. BAR PANEL AFT
	1	21A01163-065	PANEL – SPR. BAR
	1	21A01326-009	ANGLE – SIDE L.
	1	21A01326-010	ANGLE – SIDE R.
	1	AN4-5A	BOLT, 1/4-28, 0.1875 GRIP, UNDRILLED, STEEL
	1	NAS1149F0463P	WASHER, 0.265 ID, 0.063 THK, STEEL
	1	MS21044N4	NUT, LOCKING, REGULAR HEIGHT, 1/4-28 UNF
15	1	21A01000-295	ASSEMBLY, NOSE BUMPER, 2100

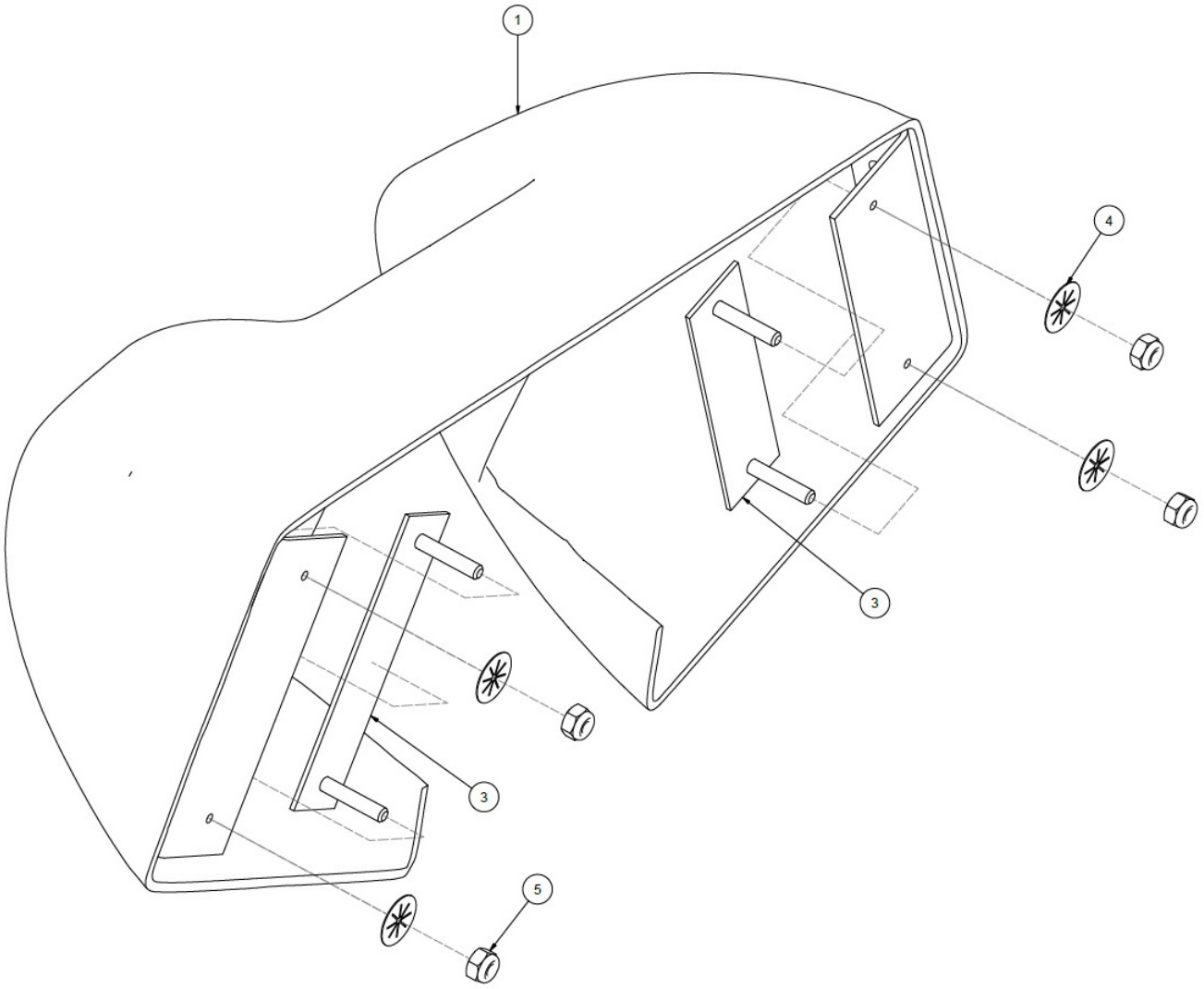
HULL ASSEMBLY - SEAPLANE



ITEM	QTY	PART NO.	PART DESCRIPTION
1	1	21A01163-067	BULKHEAD #1
	1	21501000-366	COVER ASS'Y.
	1	21S01150-134	COVER – NOSE GEAR OPENING
	A/R	MS21059L3	PLATE NUT
2	1	21A01000-265	ASSY BULKHEAD #3
	1	21A01158-184	PANEL, BULKHEAD 3
	1	21A01326-005	ANGLE, SUPPORT, BULKHEAD 3
	1	21A01326-006	ANGLE, SUPPORT, BULKHEAD 3
	2	94154A100	WASHER, STAINLESS STEEL W/PVC PLASTIC, SEALING
	2.5 IN	9903-13-36	TAPE, TINNERMAN, 1/2"X.005"
	2	AN526-632R6	SCREW, MACHINE, TRUSS HEAD
	2	MS21047L06	NUT PLATE, FIXED, STEEL, PLAIN, 6-32
3	1	21A01000-261	ASSY BULKHEAD #4
	1	21A01158-174	PANEL, BULKHEAD 4
	1	21A01158-175	SUPPORT BULKHEAD 4
	1	3A01158-003	CLAMP, PUMP OUT TUBE
	2	94154A100	WASHER, STAINLESS STEEL W/PVC PLASTIC, SEALING
	2.5 IN	9903-13-36	TAPE, TINNERMAN, 1/2"X.005"
	2	AN526-632R6	SCREW, MACHINE, TRUSS HEAD
	2	MS21047L06	NUT PLATE, FIXED, STEEL, PLAIN, 6-32
4	1	21A01000-253	ASSY BULKHEAD #5
	1	21A01158-178	BULKHEAD - MAIN
	1	21A01326-007	ANGLE – SIDE L.
	1	21A01326-008	ANGLE – SIDE R.
	1	21A01163-066	PANEL – SPR. BAR
	1	21A01158-175	SUPPORT – BULKHEAD LOWER
	1	3A01158-003	CLAMP, PUMP OUT TUBE
5	1	21A01000-252	ASSY BULKHEAD #6
	1	21A01158-189	BULKHEAD – MAIN
	1	21A01158-177	SUPPORT – BULKHEAD LOWER
	1	MS35489-19	GROMMET
6	1	21S01000-308	ASSY BULKHEAD #7
	1	21A01158-189	BULKHEAD - MAIN
	1	21A01158-177	SUPPORT – BULKHEAD LOWER
	1	3A01158-003	CLAMP, PUMP OUT TUBE
7	1	21S01000-309	ASSY BULKHEAD #8
	1	21A01158-189	BULKHEAD – MAIN
	1	21A01158-177	SUPPORT – BULKHEAD LOWER
	2	21S01158-203	ANGLE – A.B. SKIN ATTACH
	1	3A01158-003	CLAMP, PUMP OUT TUBE
8	1	21S01000-322	ASSY. – BULKHEAD #10

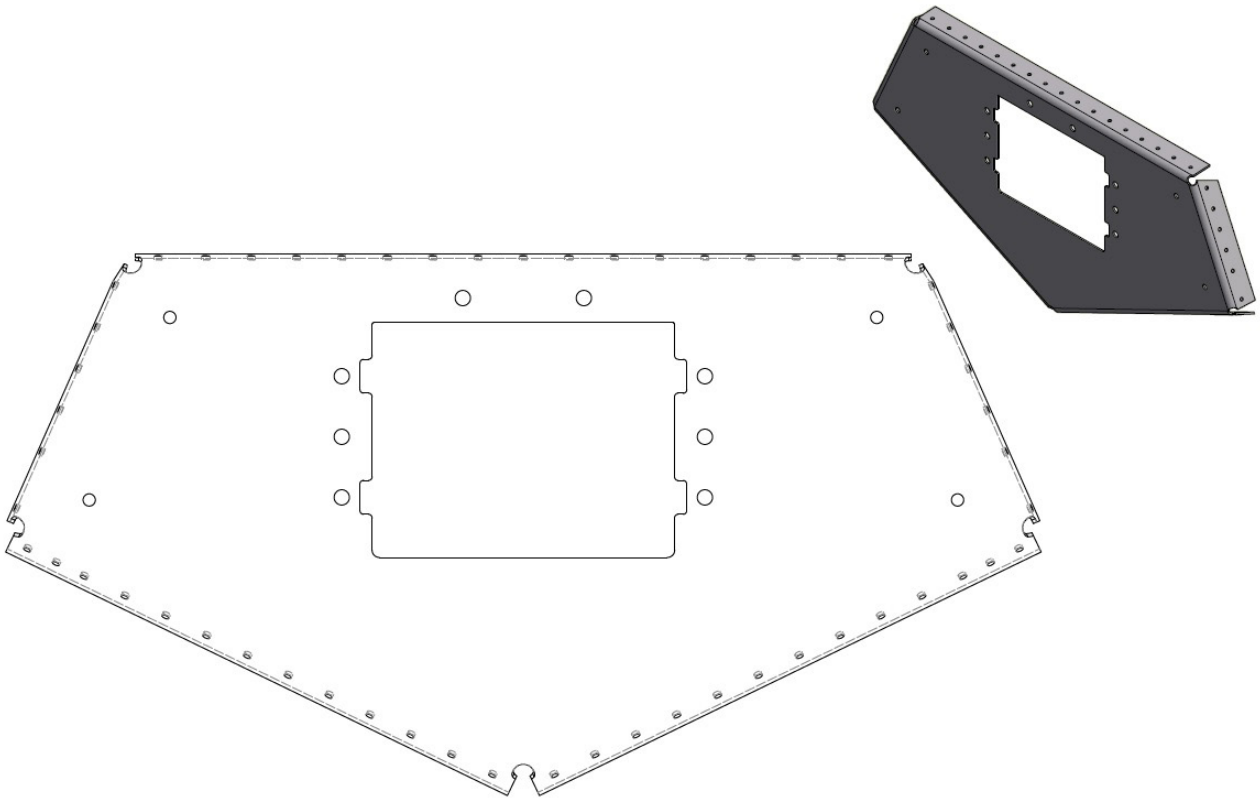
ITEM	QTY	PART NO.	PART DESCRIPTION
	1	21A01158-169	BULKHEAD - MAIN
	1	21A01326-011	ANGLE SIDE L.
	1	21A01326-012	ANGLE SIDE R.
	1	21A01163-066	PANEL – SPR. BAR
	2	21S01340-129	ANGLE – VERTICAL
	1	3A01158-003	CLAMP, PUMP OUT TUBE
9	1	21A01000-395	BULKHEAD #11
	1	21A01158-168	BULKHEAD PANEL
10	1	21A01000-396	BULKHEAD #12
	1	21A01158-167	BULKHEAD PANEL
11	1	21A01000-397	BULKHEAD #13
	1	21A01158-166	BULKHEAD PANEL
12	1	21A01000-250	ASSY. BULKHEAD #14
	1	21A01158-164	BULKHEAD - MAIN
	1	21A01158-165	CHANNEL – REIN.
	1	21A08156-130	PLATE – WATER RUDDER STOP
13	1	21A01000-260	ASSY. SPR. BAR PANEL FWD
	1	21A01163-065	PANEL – SPR. BAR
	1	21A01326-013	ANGLE – SIDE L.
	1	21A01326-014	ANGLE – SIDE R.
	1	AN4-5A	BOLT, 1/4-28, 0.1875 GRIP, UNDRILLED, STEEL
	1	NAS1149F0463P	WASHER, 0.265 ID, 0.063 THK, STEEL
	1	MS21044N4	NUT, LOCKING, REGULAR HEIGHT, 1/4-28 UNF
14	1	21A01000-259	ASSY. SPR. BAR PANEL AFT
	1	21A01163-065	PANEL – SPR. BAR
	1	21A01326-009	ANGLE – SIDE L.
	1	21A01326-010	ANGLE – SIDE R.
	1	AN4-5A	BOLT, 1/4-28, 0.1875 GRIP, UNDRILLED, STEEL
	1	NAS1149F0463P	WASHER, 0.265 ID, 0.063 THK, STEEL
	1	MS21044N4	NUT, LOCKING, REGULAR HEIGHT, 1/4-28 UNF
15	1	21S01738-001	NOSE BUMPER

NOSE BUMPER - AMPHIBIAN



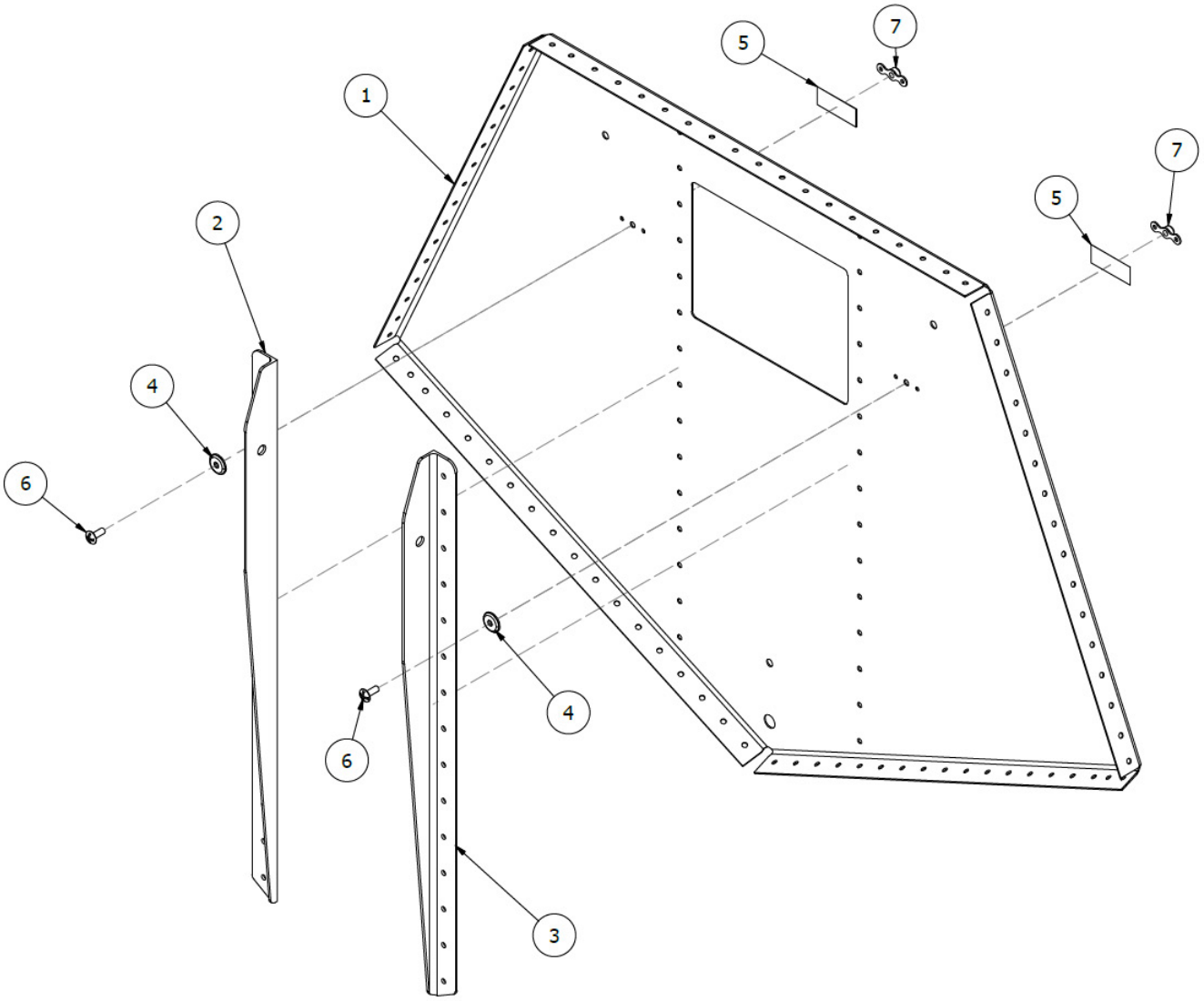
ITEM	QTY	PART NO.	PART DESCRIPTION
-	1	21A01000-295	ASSEMBLY, NOSE BUMPER, 2100
1	1	21A01000-295-1	NOSE BUMPER
2	2	21A01000-295-2	ANGLE, MOUNT, NOSE BUMPER
3	2	21A01000-295-3	PLATE, SCREW MOUNT, NOSE BUMPER
4	4	4HFW3	PUSH NUT WASHER
5	4	MS21044N3	NUT, LOCKING, REGULAR HEIGHT, 10-32 UNF
6	4	MS51958-67	SCREW, BUTTON HEAD

BULKHEAD #1



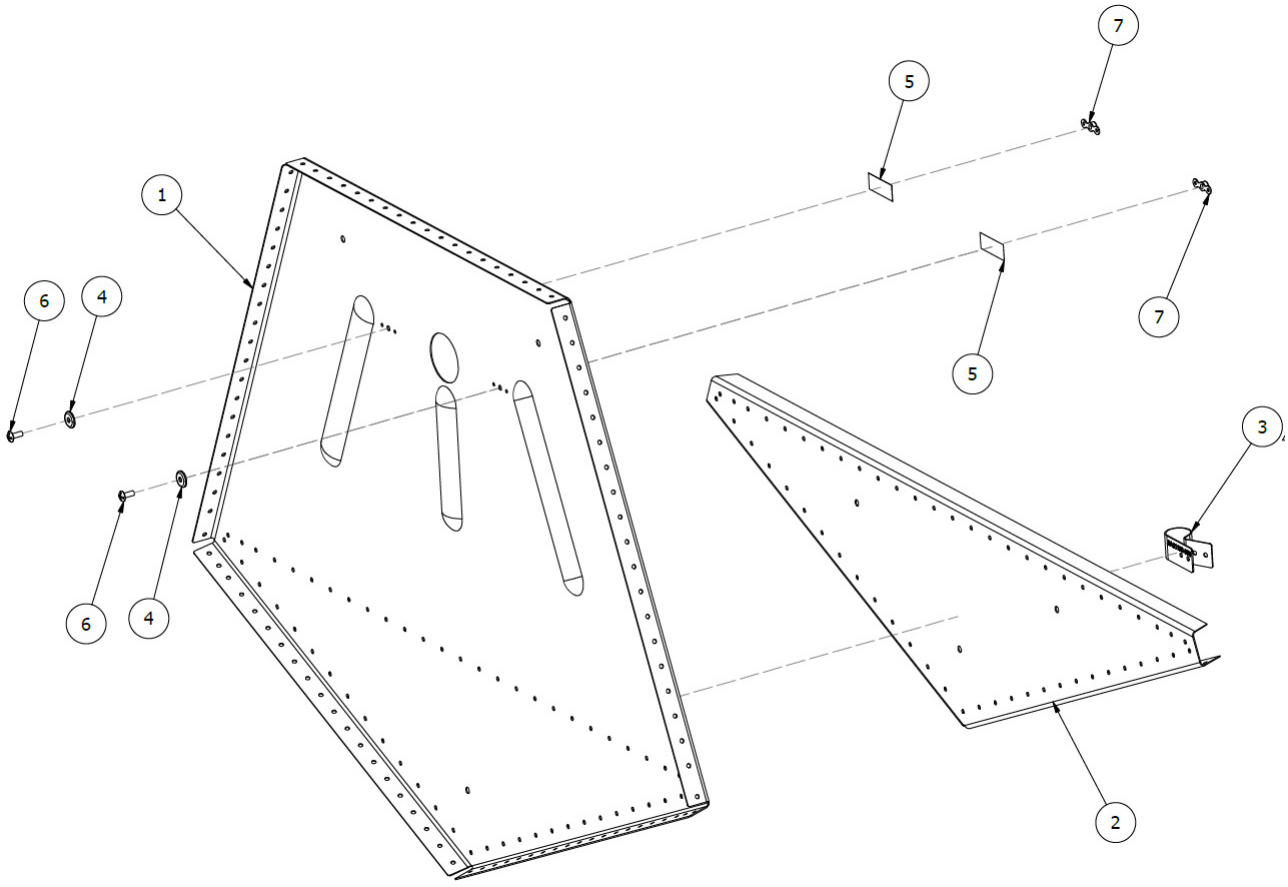
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-	1	21A01163-067	BULKHEAD #1

BULKHEAD #3



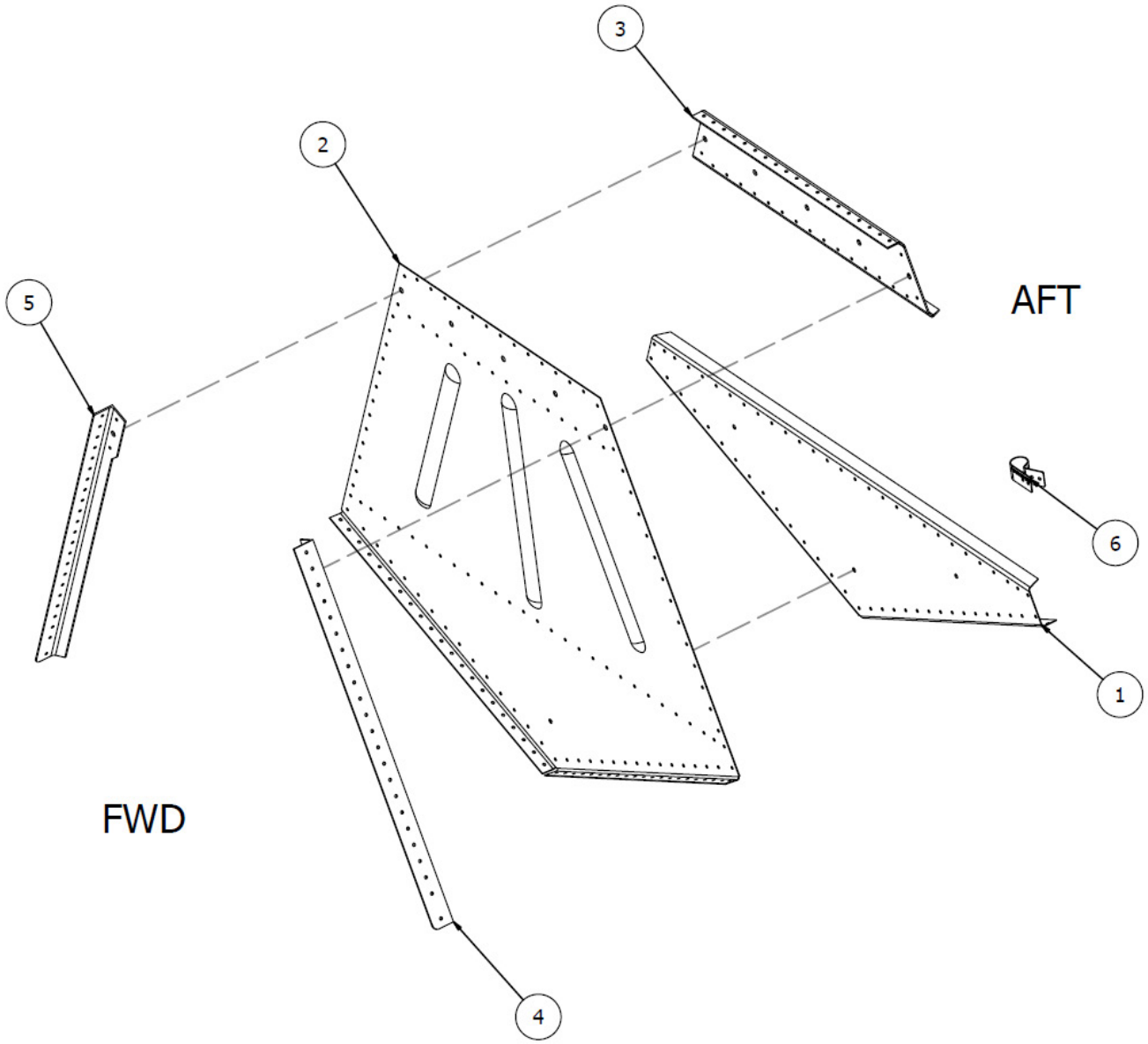
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-	1	21A01000-265	ASSEMBLY, BULKHEAD #3
1	1	21A01158-184	PANEL, BULKHEAD 3
2	1	21A01326-005	ANGLE, SUPPORT, BULKHEAD 3
3	1	21A01326-006	ANGLE, SUPPORT, BULKHEAD 3
4	2	94154A100	WASHER, STAINLESS STEEL W/PVC PLASTIC, SEALING
5	2.5 IN	9903-13-36	TAPE, TINNERMAN, 1/2"X.005"
6	2	AN526-632R6	SCREW, MACHINE, TRUSS HEAD
7	2	MS21047L06	NUT PLATE, FIXED, STEEL, PLAIN, 6-32

BULKHEAD #4



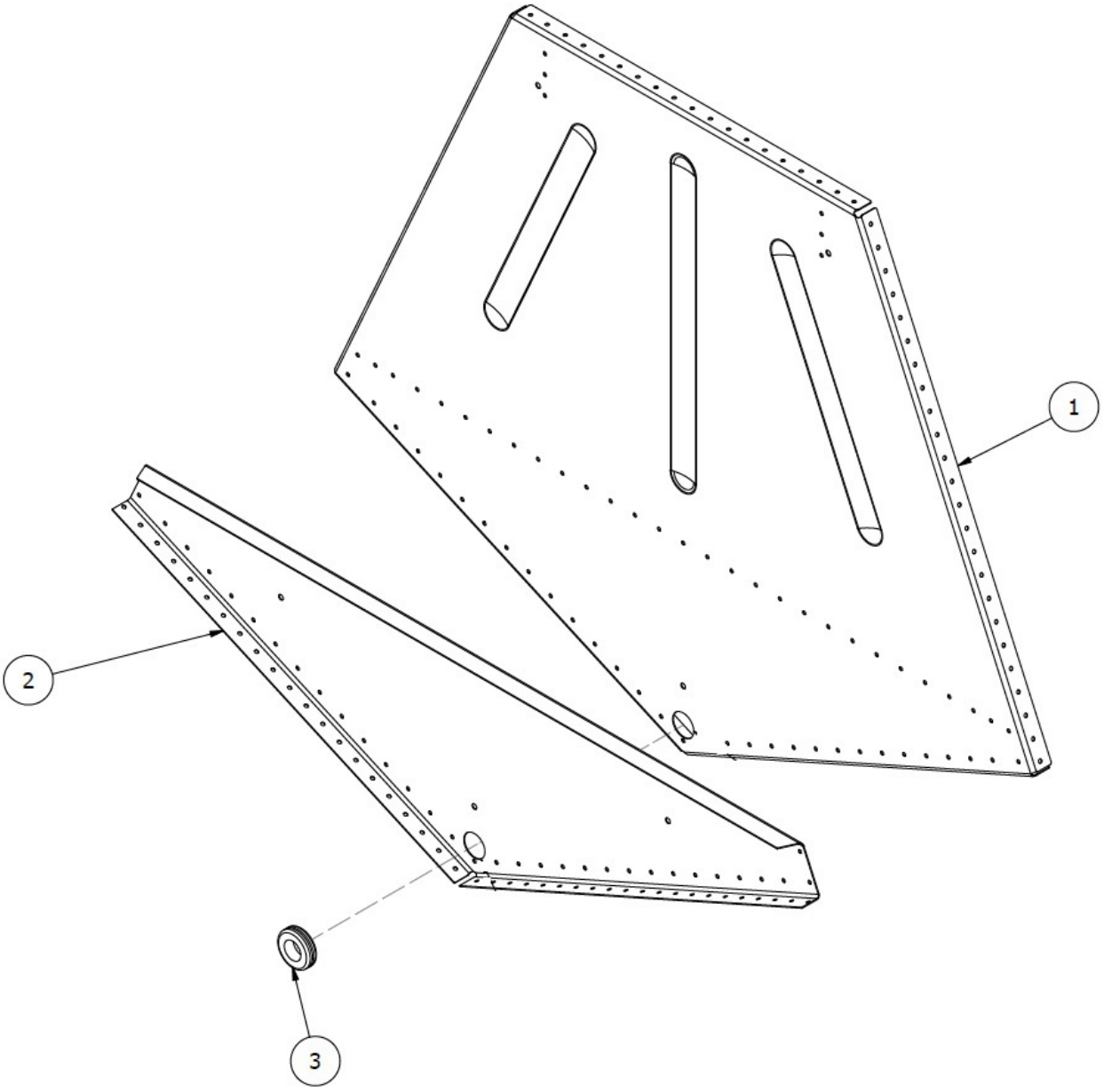
ITEM	QTY	PART NO.	PART DESCRIPTION
-	1	21A01000-261	ASSEMBLY, BULKHEAD #4
1	1	21A01158-174	PANEL, BULKHEAD 4
2	1	21A01158-175	SUPPORT BULKHEAD 4
3	1	3A01158-003	CLAMP, PUMP OUT TUBE
4	2	94154A100	WASHER, STAINLESS STEEL W/PVC PLASTIC, SEALING
5	2.5 IN	9903-13-36	TAPE, TINNERMAN, 1/2"X.005"
6	2	AN526-632R6	SCREW, MACHINE, TRUSS HEAD
7	2	MS21047L06	NUT PLATE, FIXED, STEEL, PLAIN, 6-32

BULKHEAD #5



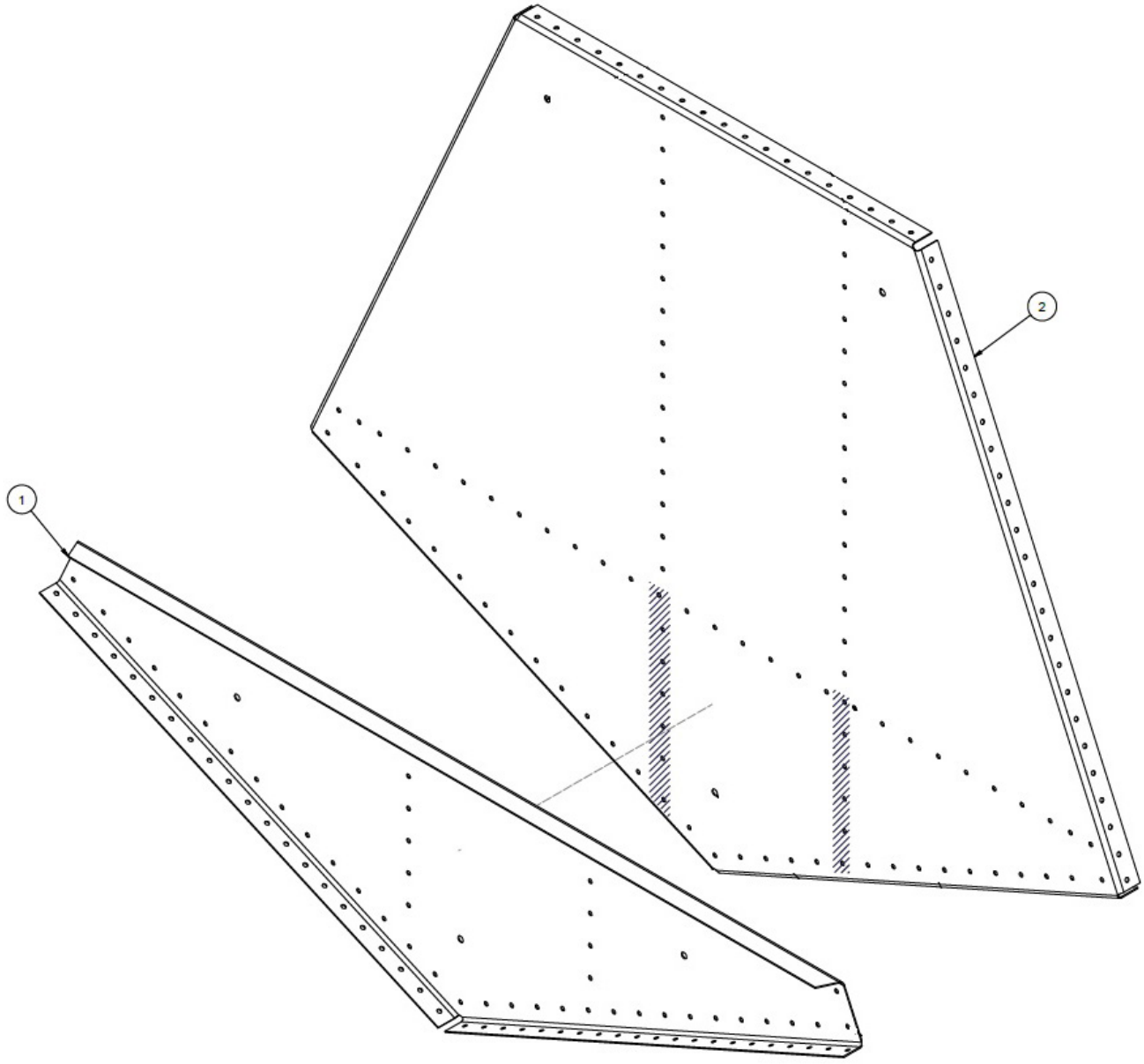
ITEM	QTY	PART NO.	PART DESCRIPTION
-	1	21A01000-253	ASSY BULKHEAD #5
1	1	21A01158-177	SUPPORT, BULKHEAD #6
2	1	21A01158-178	BULKHEAD #5 - FORMED
3	1	21A01163-066	SPREADER BAR PANEL
4	1	21A01326-007	ANGLE SUPPORT, LH, BULKHEAD #5
5	1	21A01326-008	ANGLE SUPPORT, RH, BULKHEAD #5
6	1	3A01158-003	CLAMP, PUMP OUT TUBE

BULKHEAD #6



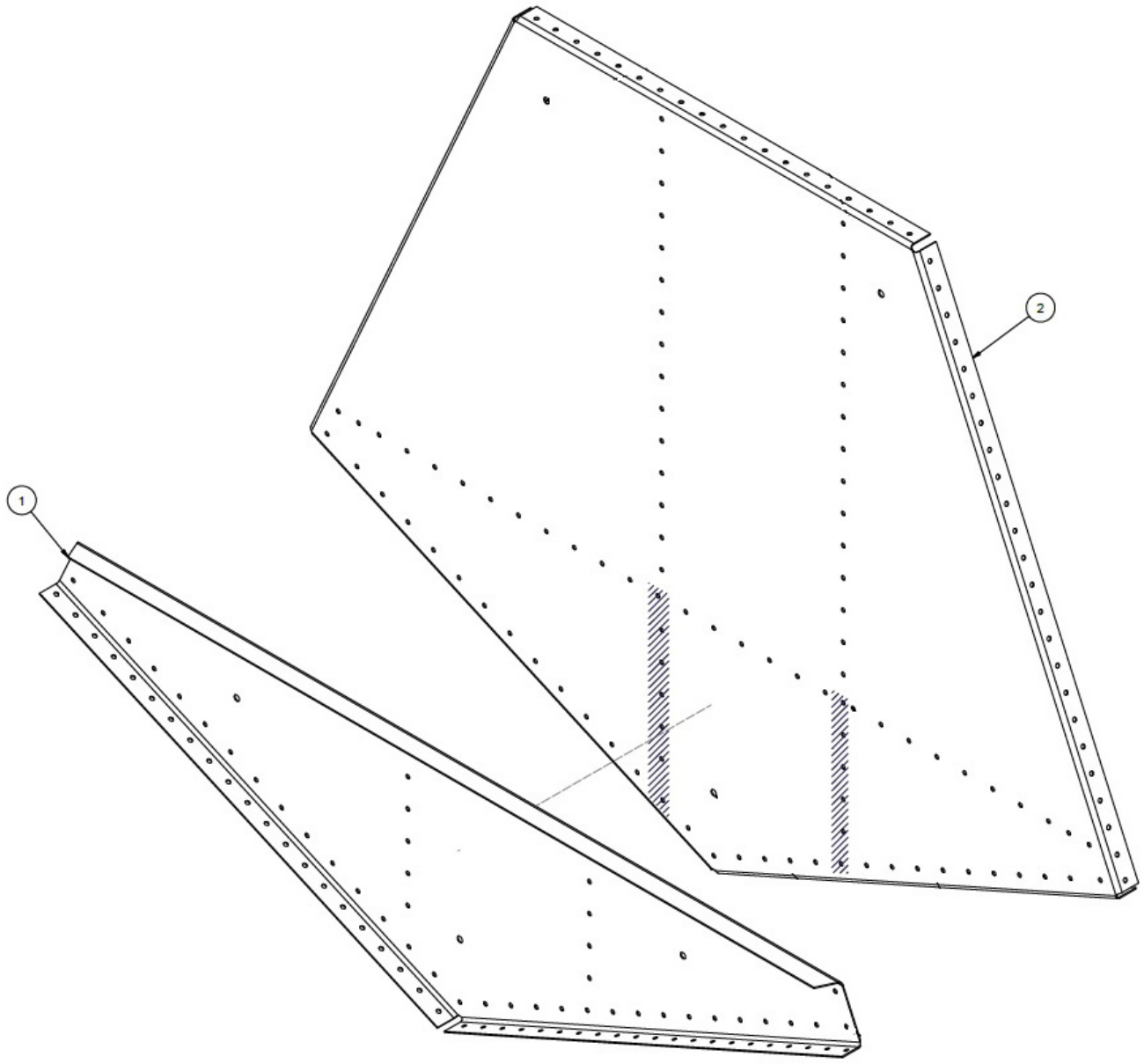
ITEM	QTY	PART NO.	PART DESCRIPTION
-	1	21A01000-252	ASSEMBLY, BULKHEAD #6
1	1	21A01158-189	BULKHEAD #6
2	1	21A01158-177	SUPPORT, BULKHEAD #6
3	1	MS35489-19	GROMMET, RUBBER

BULKHEAD #7 LEFT FLOAT



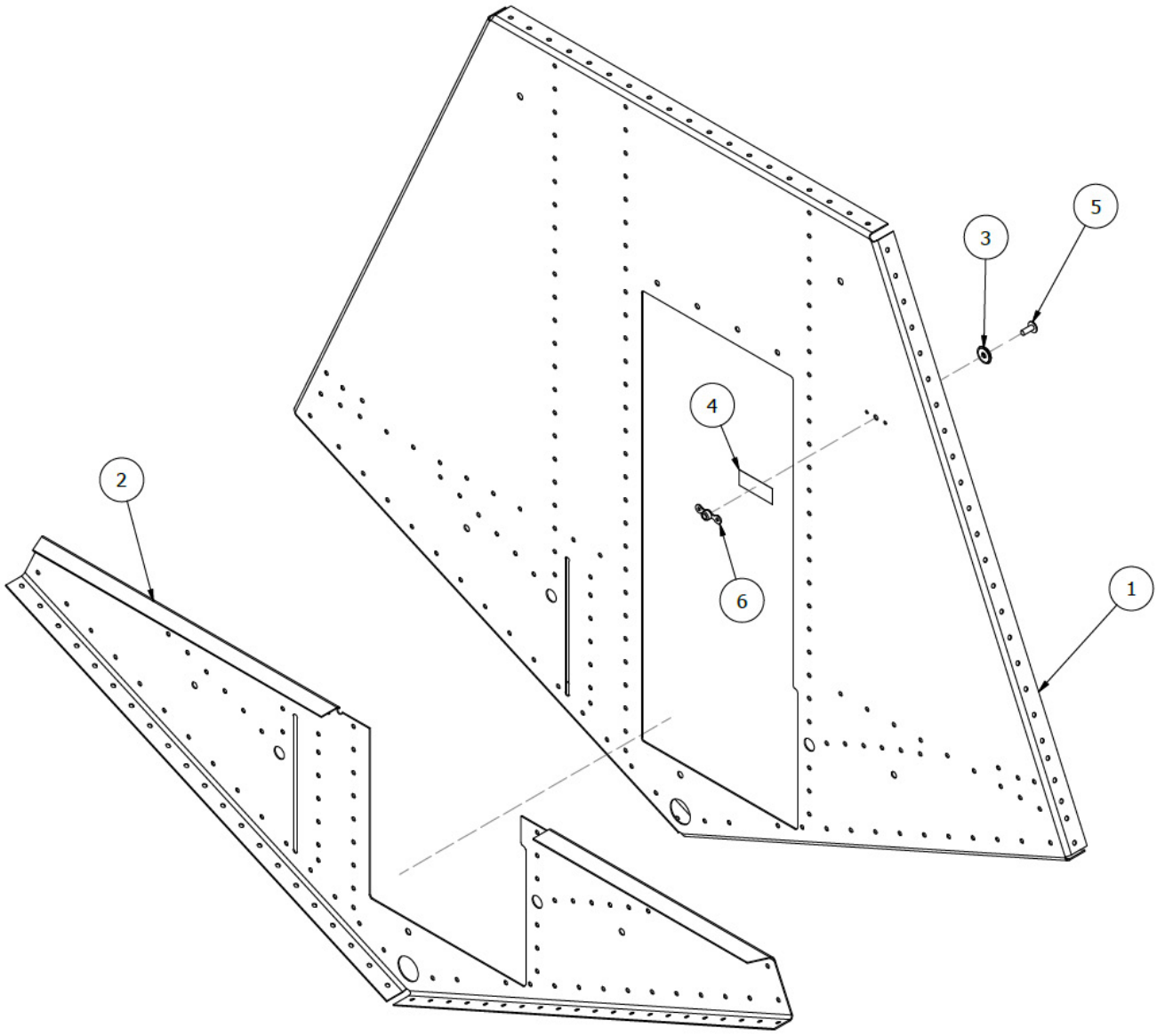
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-	1	21A01000-267	ASSEMBLY, BULKHEAD #7, LH
1	1	21A01158-187	SUPPORT, BLKHD 7, RH, 2100
2	1	21A01158-181	BULKHEAD #7 - LH

BULKHEAD #7 RIGHT FLOAT



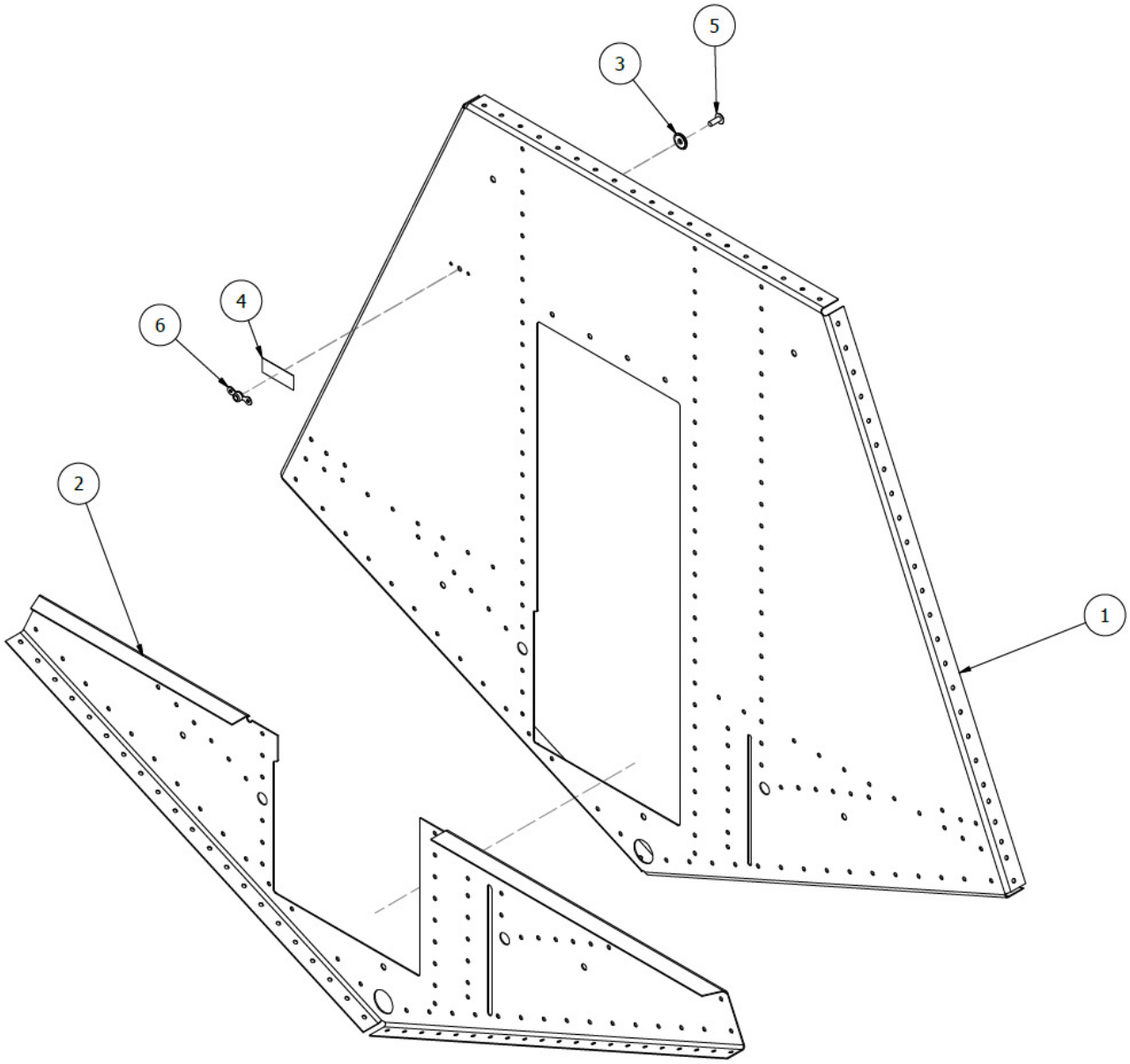
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-	1	21A01000-266	ASSEMBLY, BULKHEAD #7, RH
1	1	21A01158-188	SUPPORT, BLKHD 7, LH, 2100
2	1	21A01158-182	BULKHEAD #7 - RH

BULKHEAD #8 LEFT FLOAT



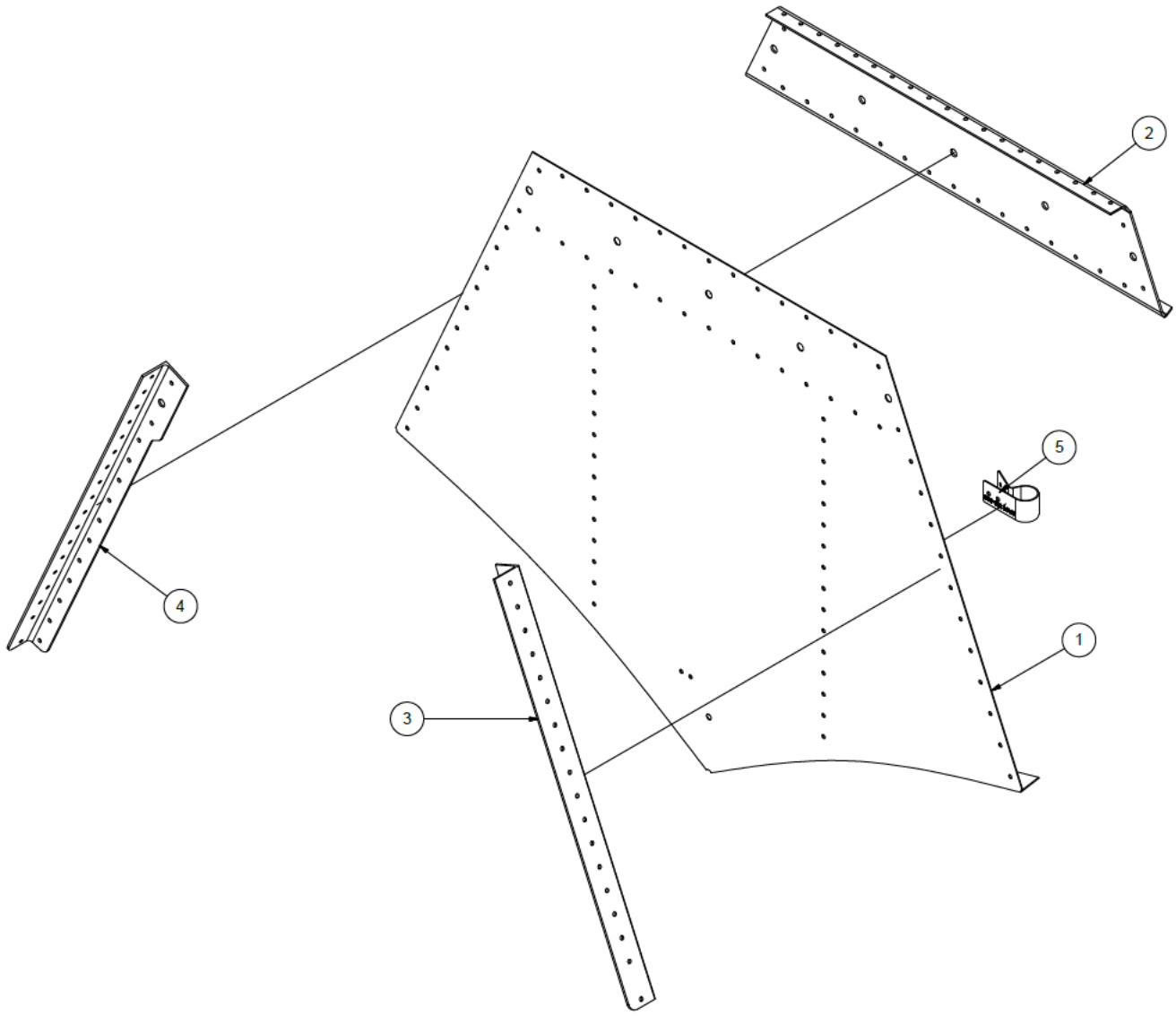
ITEM	QTY	PART NO.	PART DESCRIPTION
-	1	21A01000-263	ASSY, BULKHEAD #8, LH
1	1	21A01158-191	PANEL, BULKHEAD 8, LH
2	1	21A01158-193	SUPPORT - LH - BULKHEAD #8
3	1	94154A100	WASHER, STAINLESS STEEL W/PVC PLASTIC, SEALING
4	1.25 IN	9903-13-36	TAPE, TINNERMAN, 1/2"X.005"
5	1	AN526-632R6	SCREW, MACHINE, TRUSS HEAD
6	1	MS21047L06	NUT PLATE, FIXED, STEEL, PLAIN, 6-32

BULKHEAD #8 RIGHT FLOAT



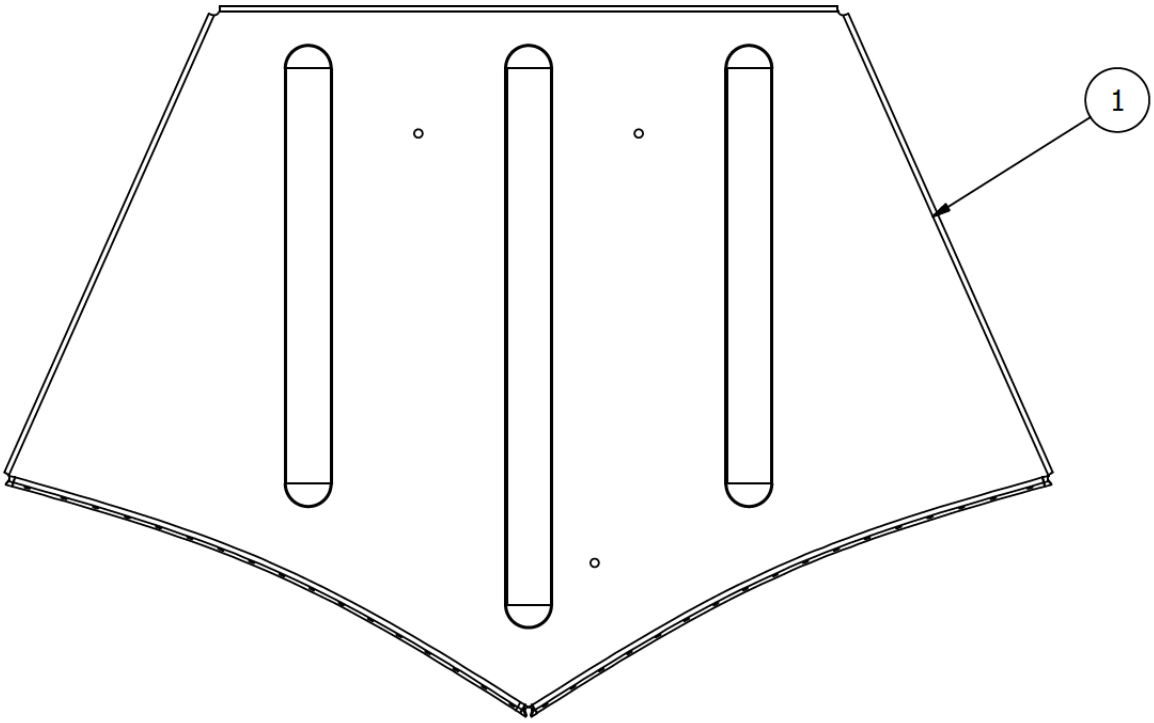
ITEM	QTY	PART NO.	PART DESCRIPTION
-	1	21A01000-264	ASSY, BULKHEAD #8, RH
1	1	21A01158-190	PANEL, BULKHEAD 8, RH
2	1	21A01158-192	SUPPORT - RH - BULKHEAD #8
3	1	94154A100	WASHER, STAINLESS STEEL W/PVC PLASTIC, SEALING
4	1.25 IN	9903-13-36	TAPE, TINNERMAN, 1/2"X.005"
5	1	AN526-632R6	SCREW, MACHINE, TRUSS HEAD
6	1	MS21047L06	NUT PLATE, FIXED, STEEL, PLAIN, 6-32

BULKHEAD #10



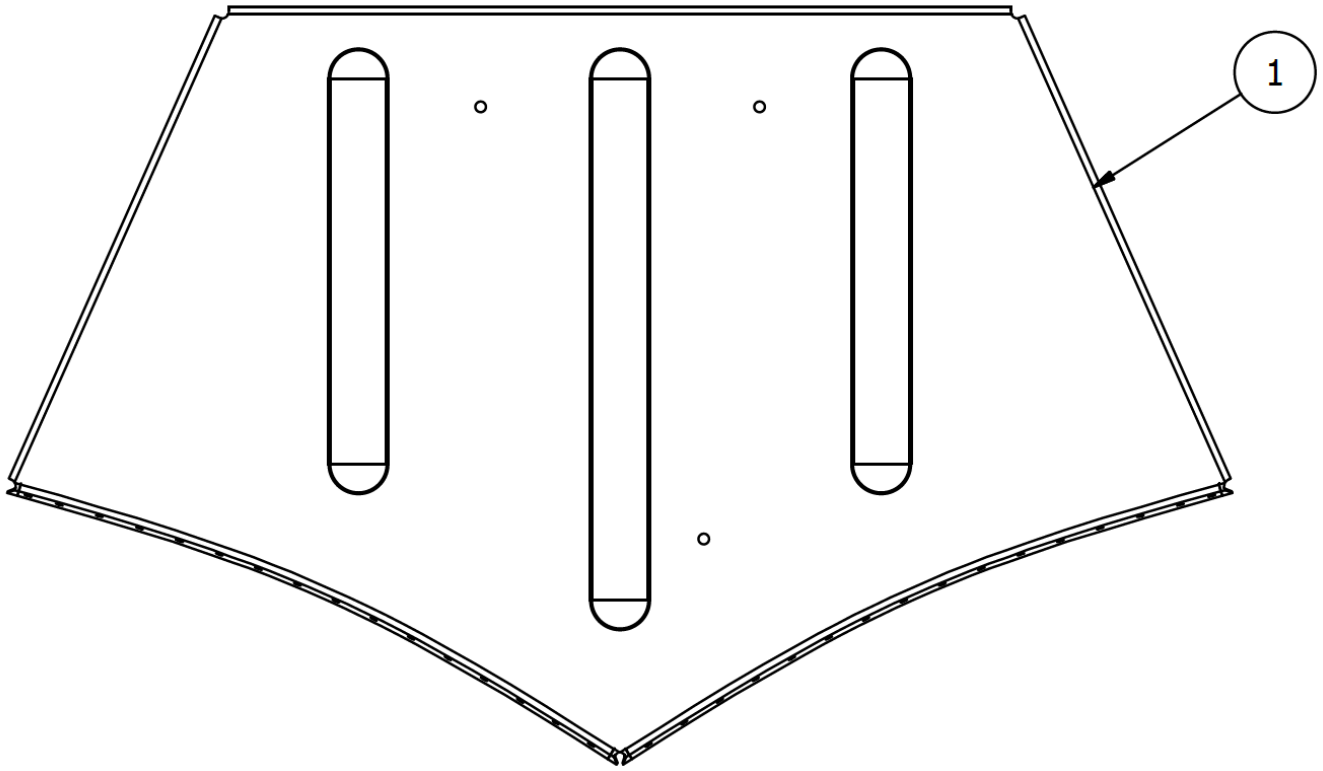
ITEM	QTY	PART NO.	PART DESCRIPTION
-	1	21A01000-262	ASSY, BLKHD 10
1	1	21A01158-169	BULKHEAD #10 - FORMED
2	1	21A01163-066	SPREADER BAR PANEL
3	1	21A01326-011	ANGLE, SIDE BAR, BULKHEAD #10, LF
4	1	21A01326-012	ANGLE, SIDE BAR, BULKHEAD #10, RT
5	1	3A01158-003	CLAMP, PUMP OUT TUBE

BULKHEAD #11



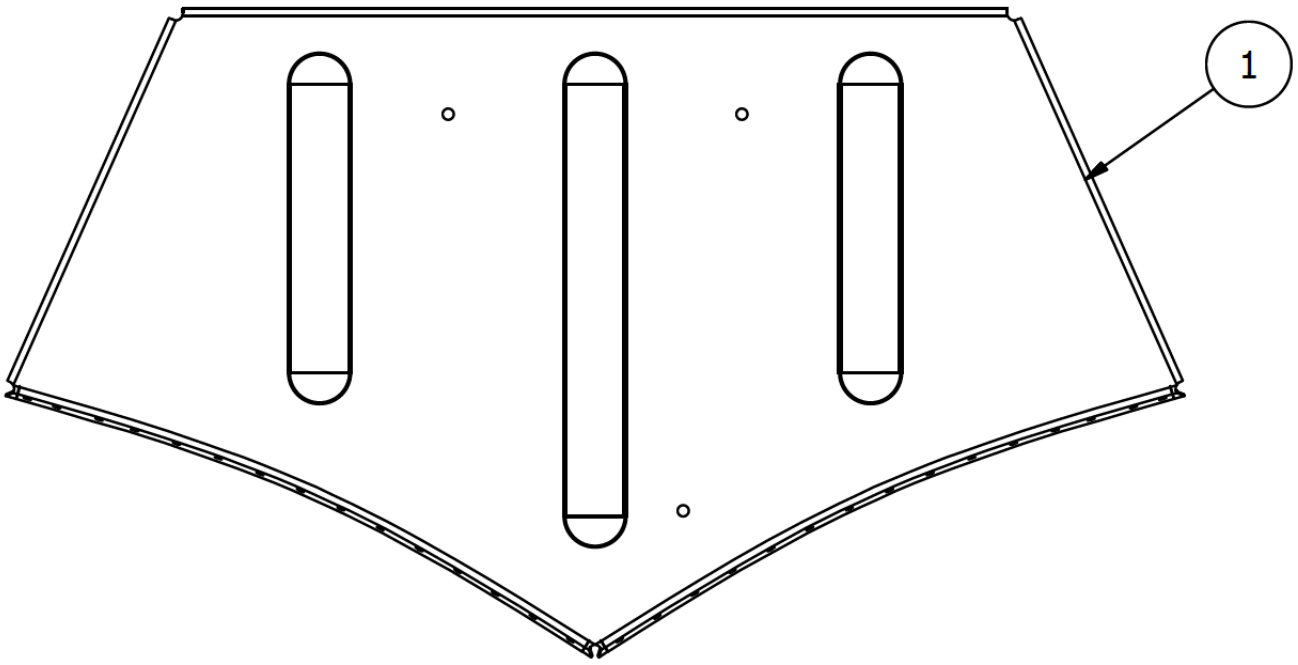
ITEM	QTY	PART NO.	PART DESCRIPTION
-	1	21A01000-395	BULKHEAD STN. #11 ASSY
1	1	21A01158-168	BULKHEAD #11 - FORMED

BULKHEAD #12



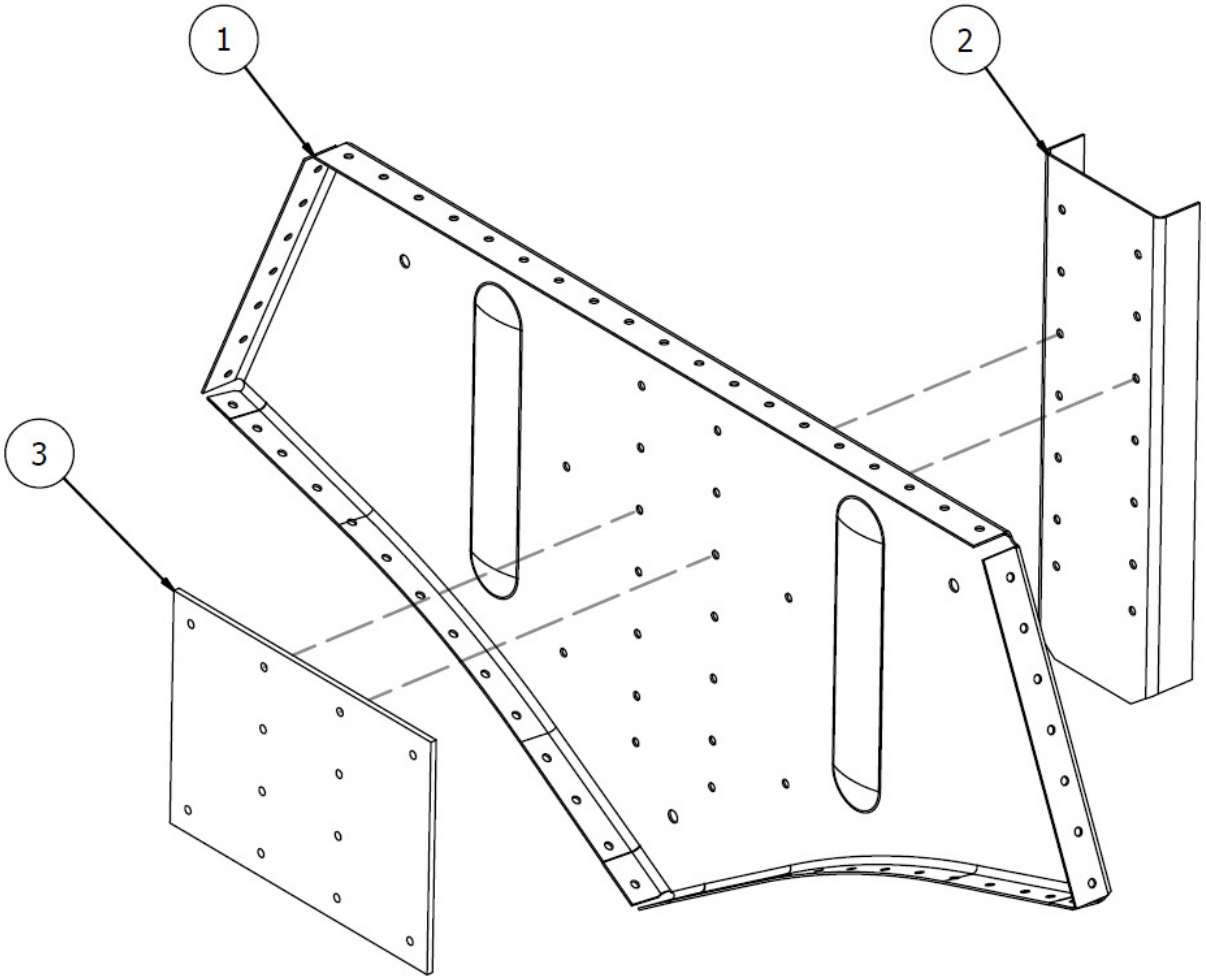
ITEM	QTY	PART NO.	PART DESCRIPTION
-	1	21A01000-396	ASSY, BULKHEAD #12
1	1	21A01158-167	BULKHEAD #12 - FORMED

BULKHEAD #13



ITEM	QTY	PART NO.	PART DESCRIPTION
-	1	21A01000-397	ASSEMBLY, BULKHEAD #13
1	1	21A01158-166	BULKHEAD #13 - FORMED

BULKHEAD #14



ITEM	QTY	PART NO.	PART DESCRIPTION
-	1	21A01000-250	ASSEMBLY, BULKHEAD 14
1	1	21A01158-164	PANEL, BULKHEAD 14, 2100
2	1	21A01158-165	CHANNEL, BULKHEAD 14, 2100
3	1	21A08156-130	PLATE - WATER RUDDER STOP

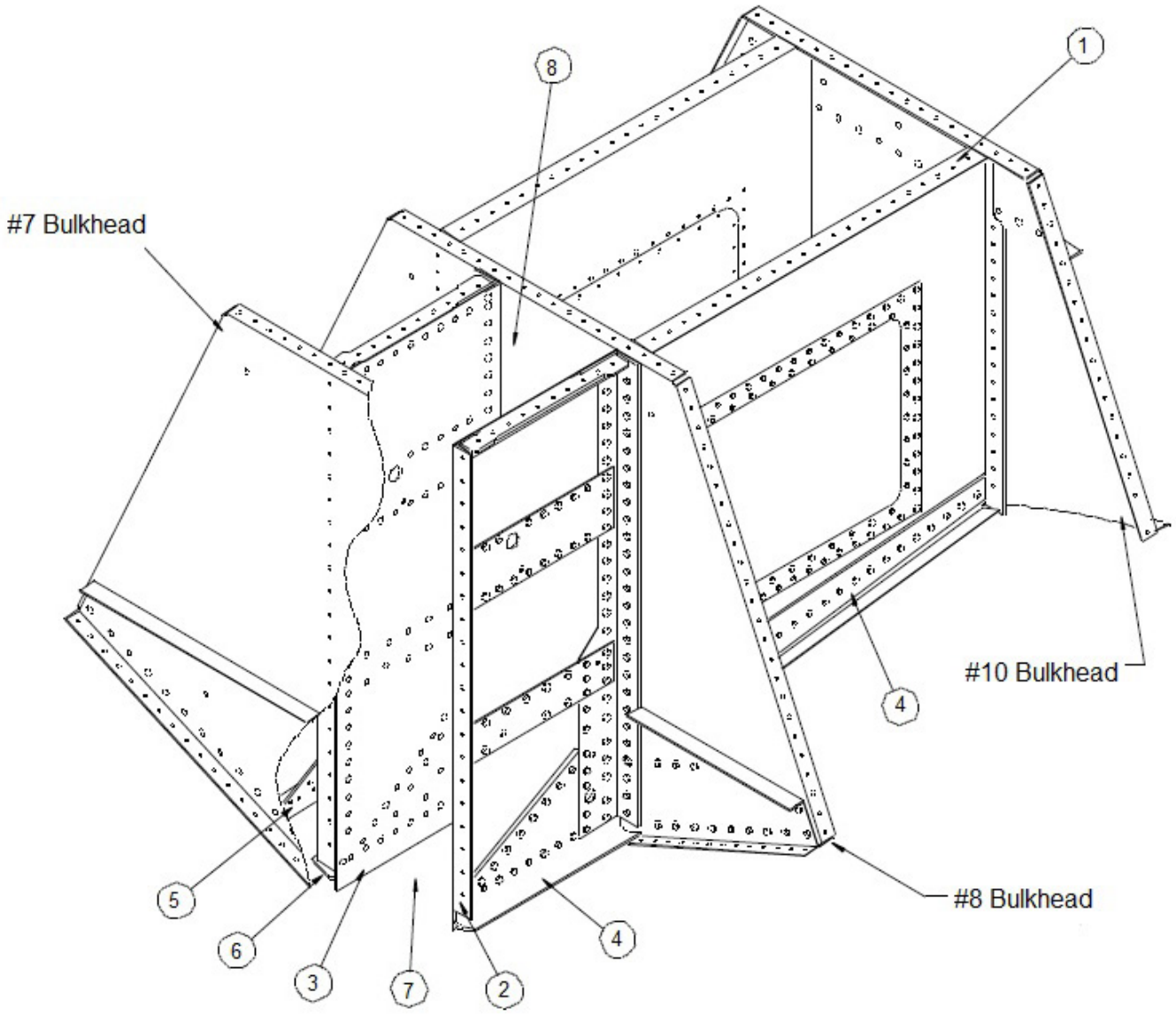
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SECTION 2
WHEEL WELL ASSEMBLY

CONTENTS

WHEEL WELL ASSEMBLY - AMPHIBIAN 32

WHEEL WELL ASSEMBLY - AMPHIBIAN



ITEM	QTY	PART NO.	PART DESCRIPTION
1	1	21A01000-289	ASSY. – WHEEL WELL HALF L.
	1	21A01158-185	PANEL – FORMED L.
	1	13A01156-124	RING – COVER REINFORCEMENT
	1	21A01158-163	COVER, INSPECTION, WHEELWELL, LARGE
	28	AN526-632R6	SCREW TRUSS HEAD, NON STRUCTURAL CAD 1
	1	21A01000-290	ASSY. – WHEELWELL HALF R.
	1	21A01158-186	PANEL – FORMED R.
	1	13A01156-124	RING – COVER REINFORCEMENT
	1	21A01158-163	COVER, INSPECTION, WHEELWELL, LARGE
	28	AN526-632R6	SCREW TRUSS HEAD, NON STRUCTURAL CAD 1
2	1	21A01000-257	ASSY. – WHEEL WELL PANEL – OUTBR'D L.
	1	21A01000-256	ASSY. - WHEEL WELL PANEL – OUTBR'D R.
3	1	21A01000-255	ASSY. – WHEEL WELL PANEL – INBR'D L.
	1	21A01000-254	ASSY. - WHEEL WELL PANEL – INBR'D R.
4	1	21A01017-005	CARRY-THRU STRAP OUTBR'D L.
	1	21A01017-004	CARRY-THRU STRAP OUTBR'D R.
5	1	21A01017-003	CARRY-THRU STRAP INBR'D L.
	1	21A01017-002	CARRY-THRU STRAP INBR'D R.
6	1	21A01017-007	CARRY-THRU STRAP INBR'D L.
	1	21A01017-006	CARRY-THRU STRAP INBR'D R.
	1	21A01156-131	ANGLE – ATTACH AFT L.
	1	21A01156-132	ANGLE – ATTACH AFT R.
	1	21A01156-125	SPACER, CARRY THRU STRAP
	2	21A01326-015	ANGLE – ATTACH FWD
7	1	21A01000-398	SAND GUARD ASSY. (NOT SHOWN)
	1	21A01150-136	SAND GUARD (NOT SHOWN)
	4	AN526-1032R8	SCREW, TRUSS HEAD, NON STRUCTURAL, CAD 1, STEAL
	4	MS21078-3	NUT PLATE
8	1	21A01569-001	MUD FLAP (NOT SHOWN)
	1	21A01150-135	REINFORCEMENT

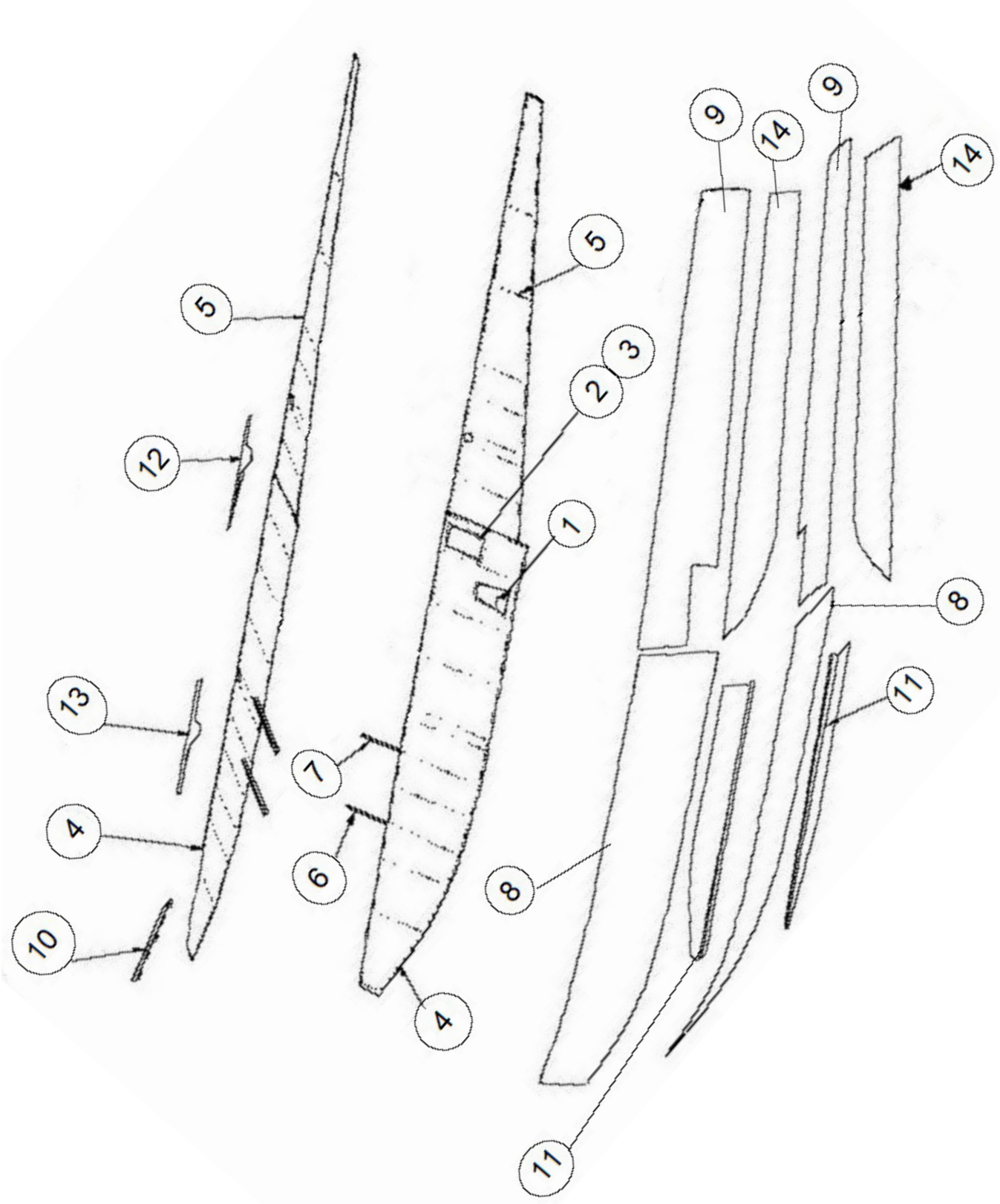
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SECTION 3
SKINS, STIFFENERS, & PADDLE

CONTENTS

SKINS & STIFFENERS - AMPHIBIAN 36
SKINS & STIFFENERS - SEAPLANE 39
BOTTOM SKIN ASSEMBLIES 41
LEFT BOTTOM SKIN & STIFFENERS 42
RIGHT BOTTOM SKIN & STIFFENERS 43
CANOE PADDLE 44

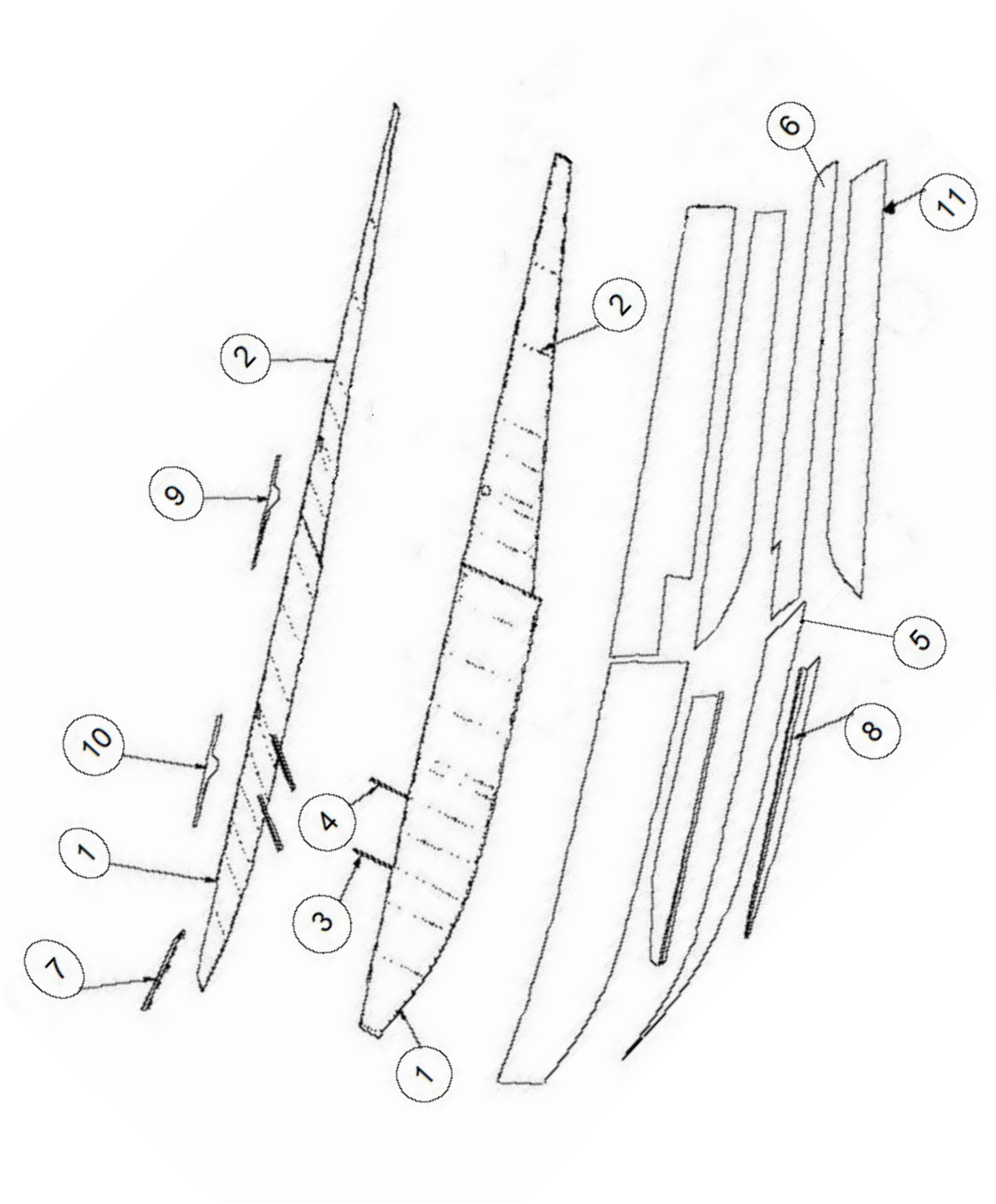
SKINS & STIFFENERS - AMPHIBIAN



ITEM	QTY	PART NO.	PART DESCRIPTION
1	1	3A01000-005	STEP – BOARDING
2	2	21A01156-126	REINFORCEMENT – COVER
3	2	21A01000-427	CONVER – INSP. ASSY.
	2	21A01004-101	COVER – INSP.
	2	21A01567-012	GASKET
	56	AN526-632R6	SCREW TRUSS HEAD, NON STRUCTURAL CAD 1
4	1	21A01004-093	SIDE SKIN – STEP TO BOW L. OUTBR'D
	1	21A01004-094	SIDE SKIN – STEP TO BOW R. OUTBR'D
	1	21A01004-095	SIDE SKIN – STEP TO BOW L. INBR'D
	1	21A01004-096	SIDE SKIN – STEP TO BOW R. INBR'D
5	1	21A01004-097	SIDE SKIN – STEP TO STERN L. OUTBR'D
	1	21A01004-098	SIDE SKIN – STEP TO STERN R. OUTBR'D
	1	21A01004-099	SIDE SKIN – STEP TO STERN L. INBR'D
	1	21A01004-100	SIDE SKIN – STEP TO STERN R. INBR'D
6	2	21A01340-105	STIFFENER – SIDE SKIN
7	2	21A01340-104	STIFFENER – SIDE SKIN
8	1	1011430	ASSEMBLY, SKIN, BOTTOM, FWD, LEFT, 2100
	1	1011410	SKIN, BOTTOM, LH, FWD 2100
	1	1011412	STIFFENER, BOTTOM SKIN, FWD
	1	1011413	STIFFENER, BOTTOM SKIN, FWD
	1	1011414	STIFFENER, BOTTOM SKIN, FWD
	1	1011416	STIFFENER, BOTTOM SKIN, FWD
	1	1011418	STIFFENER, BOTTOM SKIN, FWD
	3	1011420	STIFFENER, BOTTOM SKIN, FWD
	1	1011431	ASSEMBLY, SKIN, BOTTOM, FWD, RIGHT, 2100
	1	1011411	SKIN, BOTTOM, RH, FWD, 2100
	1	1011412	STIFFENER, BOTTOM SKIN, FWD
	1	1011413	STIFFENER, BOTTOM SKIN, FWD
	1	1011415	STIFFENER, BOTTOM SKIN, FWD
	1	1011417	STIFFENER, BOTTOM SKIN, FWD
	1	1011419	STIFFENER, BOTTOM SKIN, FWD
	3	1011421	STIFFENER, BOTTOM SKIN, FWD
9	1	21A01004-103	BOTTOM SKIN AFTERBODY L.
	1	21A01004-104	BOTTOM SKIN AFTERBODY R.
10	1	21A01000-275	ASSY. SPRAY RAIL R.
	1	21A01000-274	ASSY. SPRAY RAIL L.
11	1	21A01000-429	BOOSTER – SISTER KEEL L.
	1	21A01000-428	BOOSTER – SISTER KEEL R.
12	1	21A01162-033	DOUBLER – GUNWALL AFT L.
	1	21A01162-034	DOUBLER – GUNWALL AFT R.
13	1	21A01162-031	DOUBLER – GUNWALL FWD L.

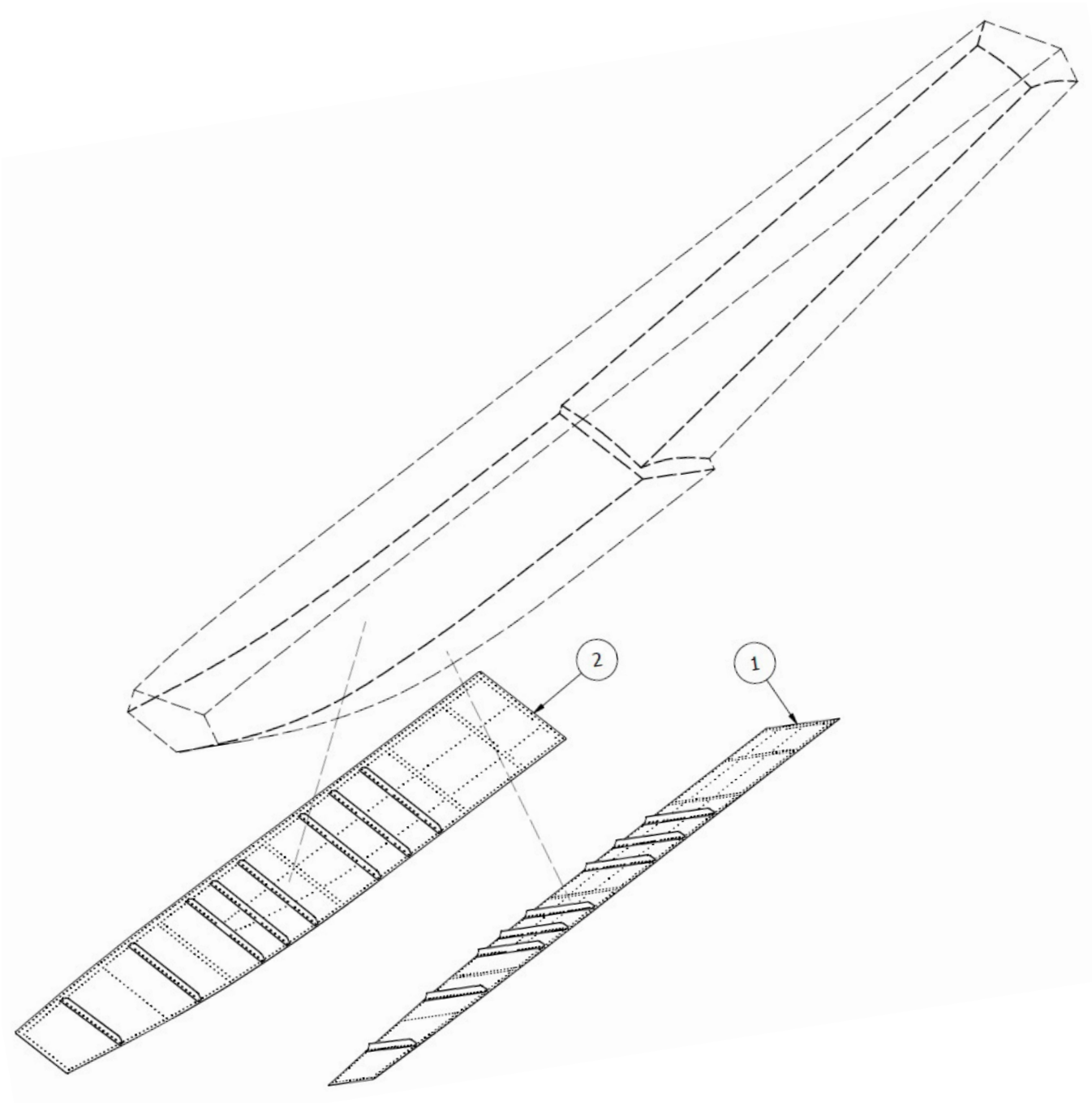
ITEM	QTY	PART NO.	PART DESCRIPTION
	1	21A01162-032	DOUBLER – GUNWALL FWD R.
14	1	1009422	SCALLOP, FOAM, RIGHT, 2100 S/N 21977 AND LATER
	1	1009424	SCALLOP, FOAM, LEFT, 2100 S/N 21977 AND LATER

SKINS & STIFFENERS - SEAPLANE



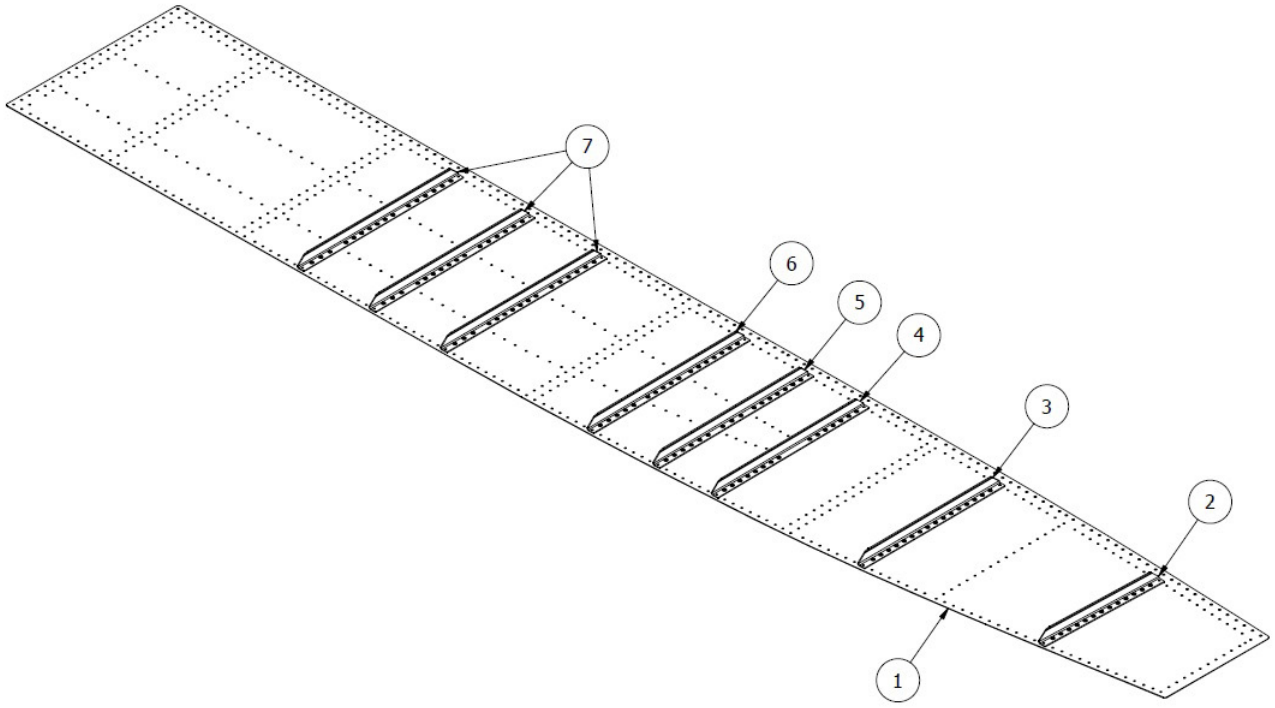
ITEM	QTY	PART NO.	PART DESCRIPTION
1	1	21S01004-123	SIDE SKIN – STEP TO BOW L. OUTBR'D
	1	21S01004-122	SIDE SKIN – STEP TO BOW R. OUTBR'D
	1	21S01004-125	SIDE SKIN – STEP TO BOW L. INBR'D
	1	21S01004-124	SIDE SKIN – STEP TO BOW R. INBR'D
2	1	21A01004-097	SIDE SKIN – STEP TO STERN L. OUTBR'D
	1	21A01004-098	SIDE SKIN – STEP TO STERN R. OUTBR'D
	1	21A01004-099	SIDE SKIN – STEP TO STERN L. INBR'D
	1	21A01004-100	SIDE SKIN – STEP TO STERN R. INBR'D
3	2	21A01340-105	STIFFENER – SIDE SKIN
4	2	21A01340-104	STIFFENER – SIDE SKIN
5	1	1011430	ASSEMBLY, SKIN, BOTTOM, FWD, LEFT, 2100
	1	1011410	SKIN, BOTTOM, LH, FWD 2100
	1	1011412	STIFFENER, BOTTOM SKIN, FWD
	1	1011413	STIFFENER, BOTTOM SKIN, FWD
	1	1011414	STIFFENER, BOTTOM SKIN, FWD
	1	1011416	STIFFENER, BOTTOM SKIN, FWD
	1	1011418	STIFFENER, BOTTOM SKIN, FWD
	3	1011420	STIFFENER, BOTTOM SKIN, FWD
	1	1011431	ASSEMBLY, SKIN, BOTTOM, FWD, RIGHT, 2100
	1	1011411	SKIN, BOTTOM, RH, FWD, 2100
	1	1011412	STIFFENER, BOTTOM SKIN, FWD
	1	1011413	STIFFENER, BOTTOM SKIN, FWD
	1	1011415	STIFFENER, BOTTOM SKIN, FWD
	1	1011417	STIFFENER, BOTTOM SKIN, FWD
	1	1011419	STIFFENER, BOTTOM SKIN, FWD
	3	1011421	STIFFENER, BOTTOM SKIN, FWD
6	1	21S01004-131	BOTTOM SKIN AFTERBODY L.
	1	21S01004-130	BOTTOM SKIN AFTERBODY R.
7	1	21A01000-275	ASSY. SPRAY RAIL R.
	1	21A01000-274	ASSY. SPRAY RAIL L.
8	1	21A01000-429	BOOSTER – SISTER KEEL L.
	1	21A01000-428	BOOSTER – SISTER KEEL R.
9	1	21A01162-033	DOUBLER – GUNWALL AFT L.
	1	21A01162-034	DOUBLER – GUNWALL AFT R.
10	1	21A01162-031	DOUBLER – GUNWALL FWD L.
	1	21A01162-032	DOUBLER – GUNWALL FWD R.
11	1	1009422	SCALLOP, FOAM, RIGHT, 2100 S/N 21977 AND LATER
	1	1009424	SCALLOP, FOAM, LEFT, 2100 S/N 21977 AND LATER

BOTTOM SKIN ASSEMBLIES



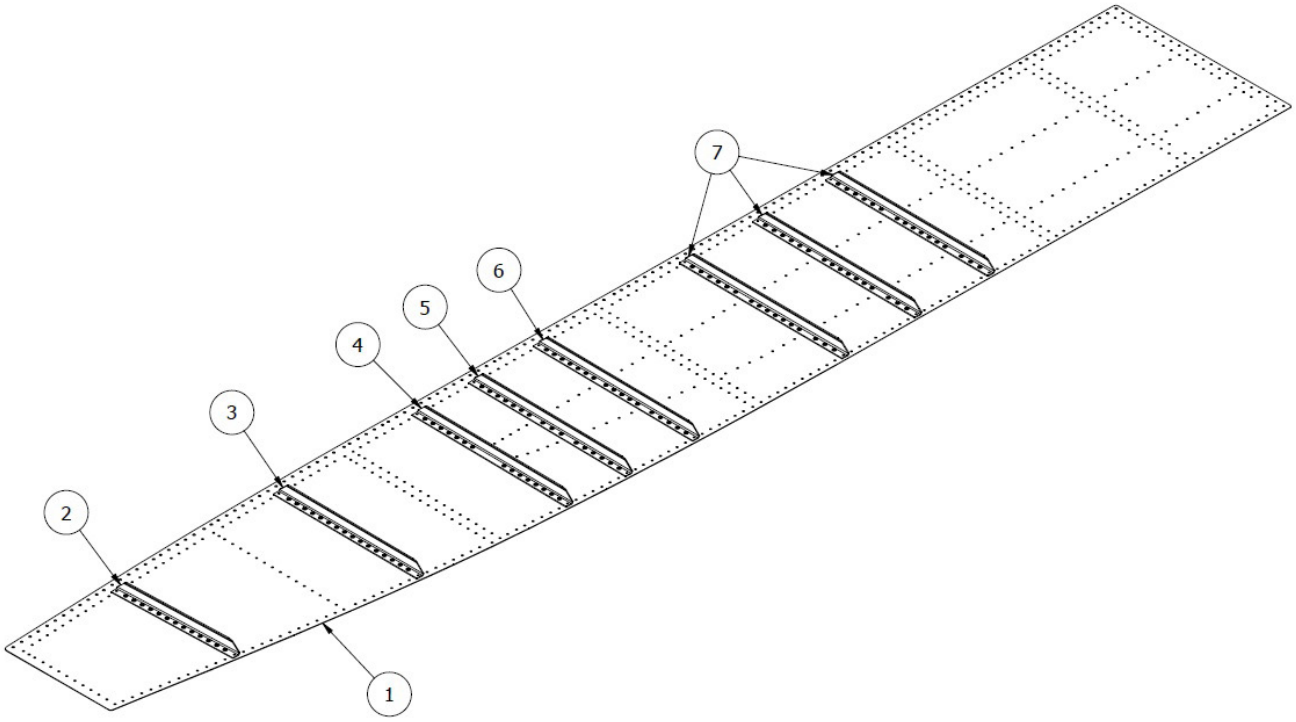
ITEM	QTY	PART NO.	PART DESCRIPTION
1	1	1011430	ASSEMBLY, SKIN, BOTTOM, FWD, LEFT, 2100
2	1	1011431	ASSEMBLY, SKIN, BOTTOM, FWD, RIGHT, 2100

LEFT BOTTOM SKIN & STIFFENERS



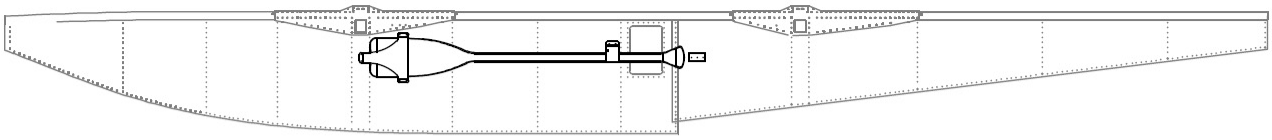
ITEM	QTY	PART NO.	PART DESCRIPTION
1	1	1011410	SKIN, BOTTOM, LH, FWD 2100
2	1	1011412	STIFFENER, BOTTOM SKIN, FWD
3	1	1011413	STIFFENER, BOTTOM SKIN, FWD
4	1	1011414	STIFFENER, BOTTOM SKIN, FWD
5	1	1011416	STIFFENER, BOTTOM SKIN, FWD
6	1	1011418	STIFFENER, BOTTOM SKIN, FWD
7	3	1011420	STIFFENER, BOTTOM SKIN, FWD

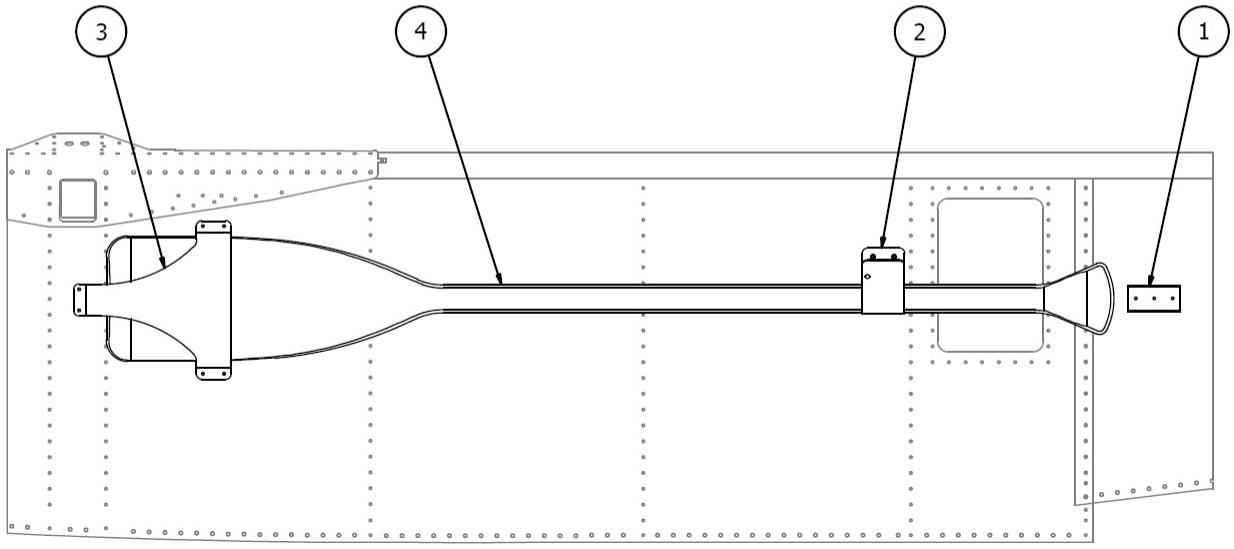
RIGHT BOTTOM SKIN & STIFFENERS



ITEM	QTY	PART NO.	PART DESCRIPTION
1	1	1011411	SKIN, BOTTOM, RH, FWD, 2100
2	1	1011412	STIFFENER, BOTTOM SKIN, FWD
3	1	1011413	STIFFENER, BOTTOM SKIN, FWD
4	1	1011415	STIFFENER, BOTTOM SKIN, FWD
5	1	1011417	STIFFENER, BOTTOM SKIN, FWD
6	1	1011419	STIFFENER, BOTTOM SKIN, FWD
7	3	1011421	STIFFENER, BOTTOM SKIN, FWD

CANOE PADDLE





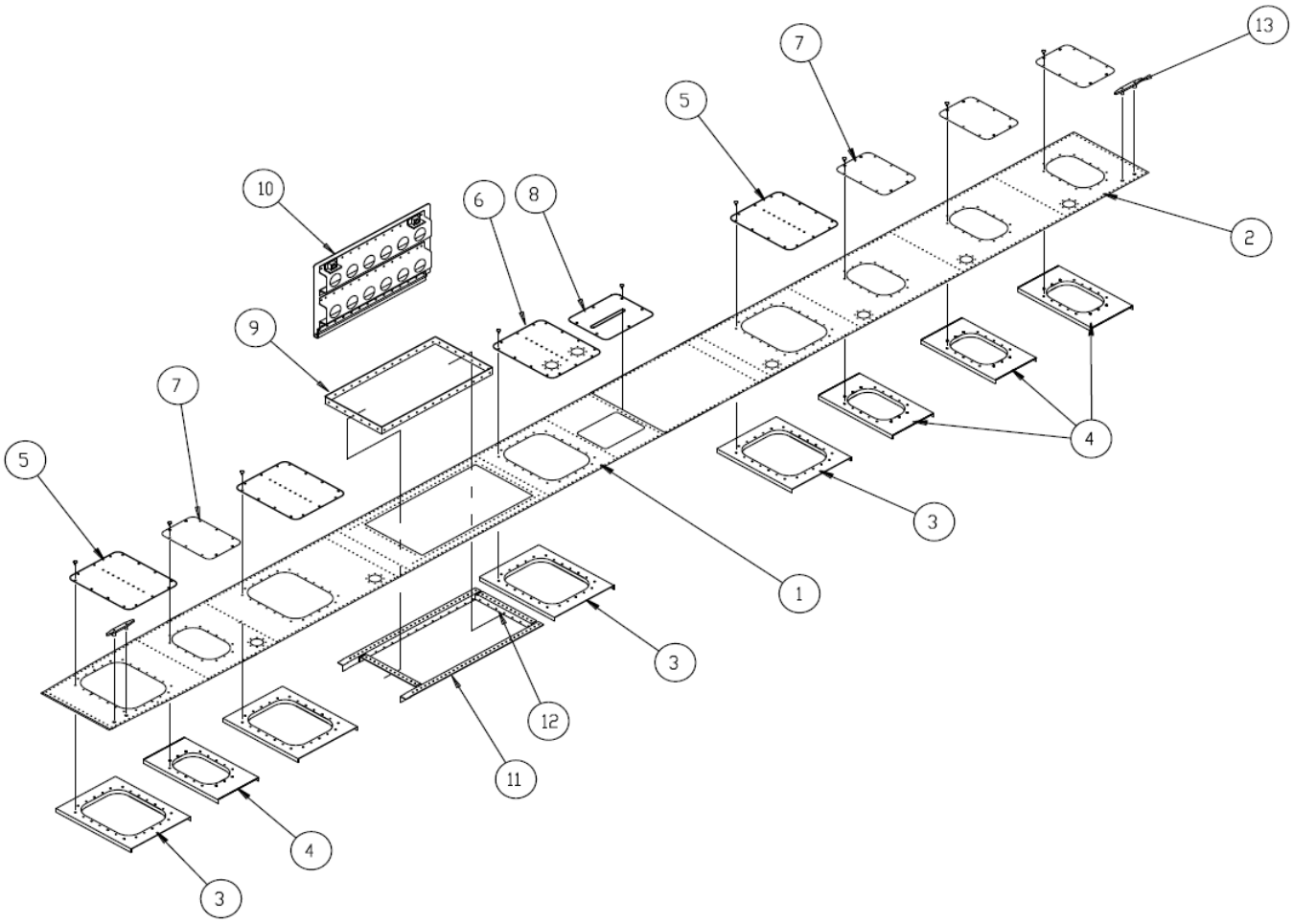
ITEM	QTY	PART NO.	PART DESCRIPTION
1	1	1005676	BRACKET, CANOE PADDLE STOP
2	1	1005677	CLIP, MOUNTING, CANOE PADDLE
3	1	1005678	BRACKET, CANOE PADDLE
4	1	1012326	CANOE PADDLE, 4.0 FT

SECTION 4
TOP DECK ASSEMBLY

CONTENTS

TOP DECK - AMPHIBIAN 46
TOP DECK - SEAPLANE 49

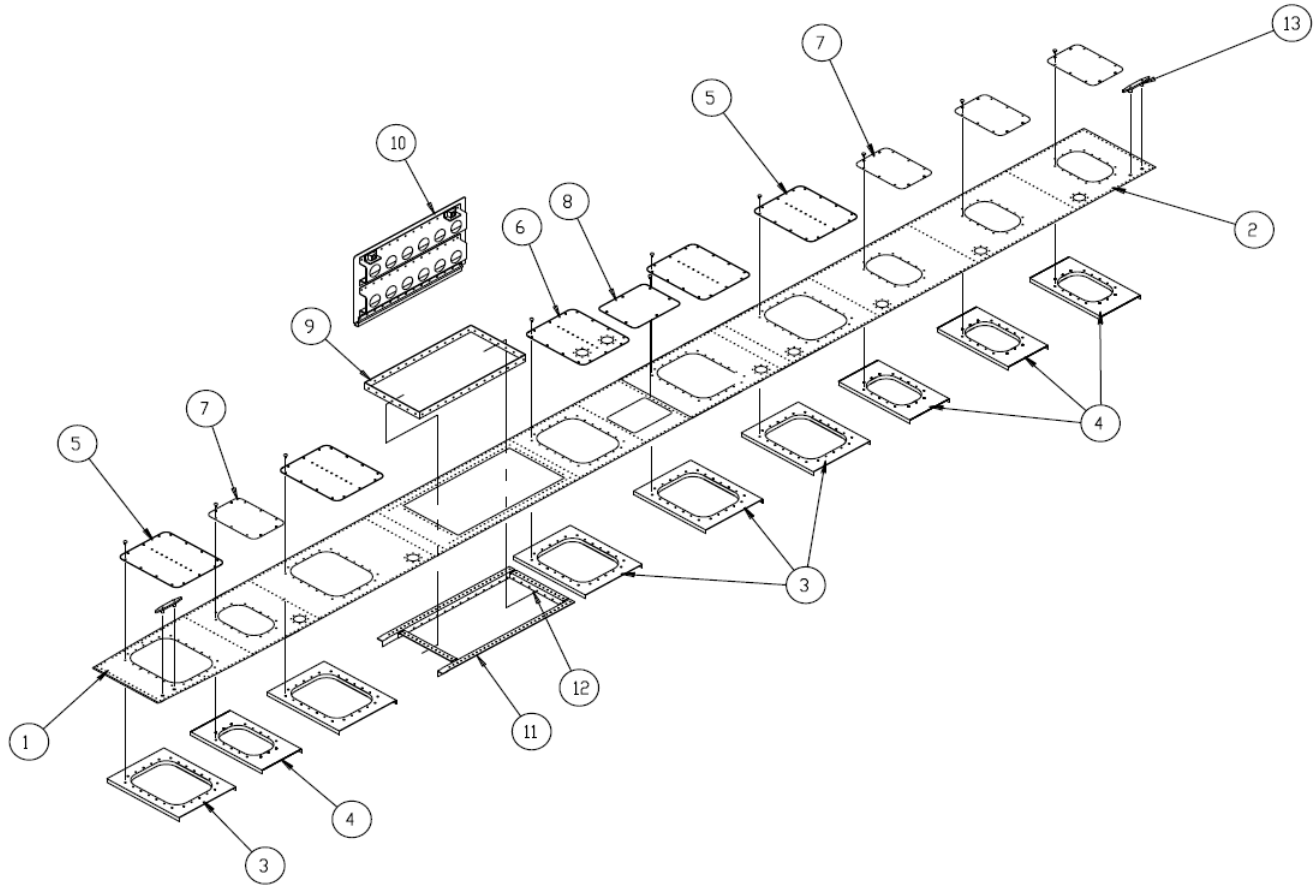
TOP DECK - AMPHIBIAN



ITEM	QTY	PART NO.	PART DESCRIPTION
1	1	21A01004-091	SKIN – FWD SECTION L.
	1	21A01004-092	SKIN – FWD SECTION R.
2	1	21A01004-089	SKIN – AFT SECTION L.
	1	21A01004-090	SKIN – AFT SECTION R.
3	4	21A01002-130	SUPPORT – INSP. COVER - LARGE
	A/R	1002481	TINNERMAN WITH TAPE
4	4	21A01002-131	SUPPORT – INSP. COVER – SMALL
	A/R	1002481	TINNERMAN WITH TAPE
5	3	21A01000-258	INSP. COVER ASSY– LARGE – W/ ANGLE & GASKET
	A/R	SS TATP 8 X 5/8	SCREW – ATTACH
	3	1001437	SEAL – GASKET ONLY (FORMED COVER)
	3	21A01567-001	SEAL – GASKET ONLY (FLAT COVER)
6	1	21A01000-273	INSP. COVER ASSY, LARGE,W/ ANGLE (2 CUPS) & GASKET
	A/R	SS TATP 8 X 5/8	SCREW – ATTACH
	1	1001437	SEAL – GASKET ONLY (FORMED COVER)
	1	21A01567-001	SEAL – GASKET ONLY (FLAT COVER)
7	4	21A01000-284	INSP. COVER ASSY - SMALL
	A/R	SS TATP 8 X 5/8	SCREW – ATTACH
	4	1001728	GASKET, ACCESS PANEL
	4	21A01567-002	SEAL – GASKET ONLY (FLAT COVER)
8	1	1009202	COVER, GEAR INDICATOR
	1	1009122	PLACARD, GEAR INDICATOR, RH
	1	1009123	PLACARD, GEAR INDICATOR, LH
	2	2600-3	SCREW – CAM - LOK
	2	1126000-4	STUD, PROTRUDING HEAD
	2	1126000-5	AIR LOC / CAMLOC STUD, PROTRUDING HEAD
	6	212-12	RECEPTACLE – CAM – LOK
9	1	21A01150-131	JAMB – BAGGAGE DOOR
	1	1002067	BAGGAGE JAMB, HINGE SIDE
10	1	21A01000-268	ASSY – BAGGAGE DOOR
	1	21A01162-035	COVER - SKIN
	1	21A01740-008	HINGE, BAGGAGE COVER, 1.5
	1	21A01741-004	HINGE, BAGGAGE COVER, 3/4
	2	21A01010-012	STIFFENER - DOOR
	2	21A01004-106	STIFFENER ENDS
	2	3A01206-001	RETAINER - LOCK
	2	3A01273-004	LOCK PIN
	2	3A01702-001	CATCH – LATCH
	2	3A01525-003	LOCK SPRING
	2	1002663	RING – OPENING
	1	1001438	SEAL – GASKET (NOT SHOWN)

ITEM	QTY	PART NO.	PART DESCRIPTION
	1	1002186	HINGE PIN
	12	01692-0410	RIVET POP
	2	10/32 X ½ SS	BOLT
11	1	21A01326-003	TOP RAIL – BAGGAGE OPENING L.
	1	21A01326-002	TOP RAIL – BAGGAGE OPENING R.
12	2	1013020	CROSS TIE, TOPDECK, BAGGAGE
13	2	21A01203-001	CLEAT – TIE DOWN
	4	21A01280-004	BUSHING
	4	AN525-10R24	SCREW, HEAD, 10-32 THREAD, 1-3/32" GRIP, 1-1/2" LENGTH
	4	MS21044N3	NUT, LOCKING, REGULAR HEIGHT, 10-32 UNF
	4	NAS1149D0363J	WASHER, 0.203 ID, 0.063 THK, ALUMINUM

TOP DECK - SEAPLANE



ITEM	QTY	PART NO.	PART DESCRIPTION
1	1	21S01004-135	SKIN – FWD SECTION L.
	1	21S01004-134	SKIN – FWD SECTION R.
2	1	21S01004-137	SKIN – AFT SECTION L.
	1	21S01004-136	SKIN – AFT SECTION R.
3	4	21A01002-130	SUPPORT – INSP. COVER - LARGE
	A/R	1002481	TINNERMAN WITH TAPE
4	5	21A01002-131	SUPPORT – INSP. COVER – SMALL
	A/R	1002481	TINNERMAN WITH TAPE
5	4	21A01000-258	INSP. COVER ASSY – LARGE – W/ ANGLE & GASKET
	A/R	SS TATP 8 X 5/8	SCREW – ATTACH
	4	1001437	SEAL – GASKET ONLY (FORMED COVER)
	4	21A01567-001	SEAL – GASKET ONLY (FLAT COVER)
6	1	2A01000-273	INSP. COVER – LARGE – ANGLE (2 CUPS) & GASKET
	A/R	SS TATP 8 X 5/8	SCREW – ATTACH
	1	1001437	SEAL – GASKET ONLY (FORMED COVER)
	1	21A01567-001	SEAL – GASKET ONLY (FLAT COVER)
7	4	21A01000-284	INSP. COVER ASSY- SMALL & GASKET
	A/R	SS TATP 8 X 5/8	SCREW – ATTACH
	4	1001728	SEAL – GASKET ONLY (FORMED COVER)
	4	21A01567-002	SEAL – GASKET ONLY (FLAT COVER)
8	1	21S01000-399	COVER ASSY & GASKET
	1	1002110	SEAL – GASKET ONLY
	A/R	SS TATP 8 X 5/8	SCREW – ATTACH
	A/R	9A3-671	NUT – TINNERMAN
	2	1013025	CROSS TIE, TOPDECK
9	1	21A01150-131	JAMB – BAGGAGE DOOR
	1	101438	SEAL – GASKET (NOT SHOWN)
	1	1002067	JAMB – HINGE SIDE
10	1	21A01000-268	ASSY – BAGGAGE DOOR
	1	21A01162-035	COVER - SKIN
	1	21A01741-004	HINGE, BAGGAGE COVER, 3/4
	2	21A01010-012	STIFFENER - DOOR
	2	21A01004-106	STIFFENER ENDS
	2	3A01206-001	RETAINER - LOCK
	2	3A01273-004	LOCK PIN
	2	3A01702-001	CATCH – LATCH
	2	3A01525-003	LOCK SPRING
	2	9-0177A221	RING – OPENING
	1	101438	SEAL – GASKET (NOT SHOWN)
11	1	21A01326-003	TOP RAIL – BAGGAGE OPENING L.
	1	21A01326-002	TOP RAIL – BAGGAGE OPENING R.

ITEM	QTY	PART NO.	PART DESCRIPTION
12	2	1013020	CROSS TIE, TOPDECK, BAGGAGE
13	2	21A01203-001	CLEAT – TIE DOWN
	4	21A01280-004	BUSHING
	4	AN525-10R24	SCREW, HEAD, 10-32 THREAD, 1-3/32" GRIP, 1-1/2" LENGTH
	4	MS21044N3	NUT, LOCKING, REGULAR HEIGHT, 10-32 UNF
	4	NAS1149D0363J	WASHER, 0.203 ID, 0.063 THK, ALUMINUM

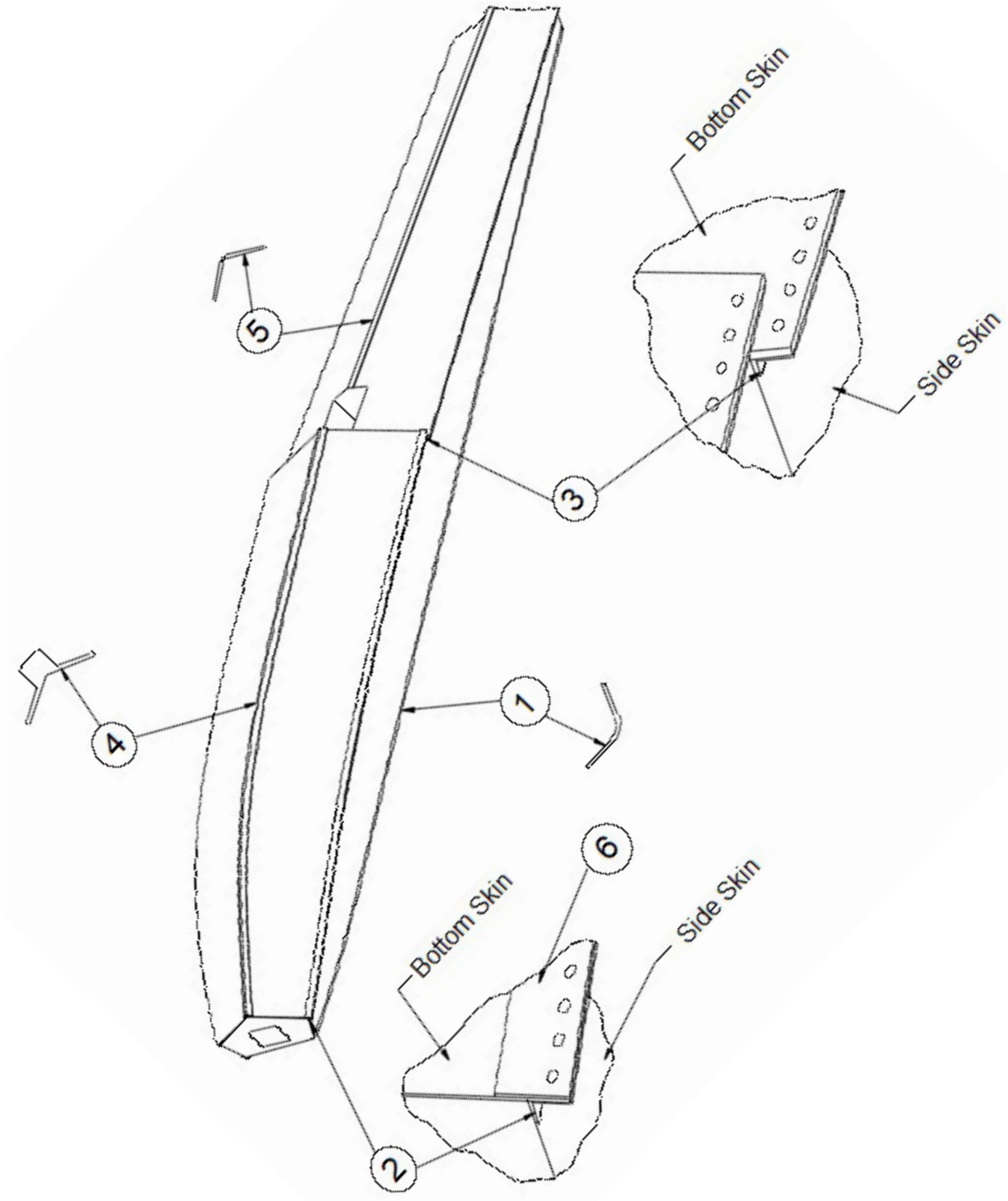
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SECTION 5
EXTRUSIONS

CONTENTS

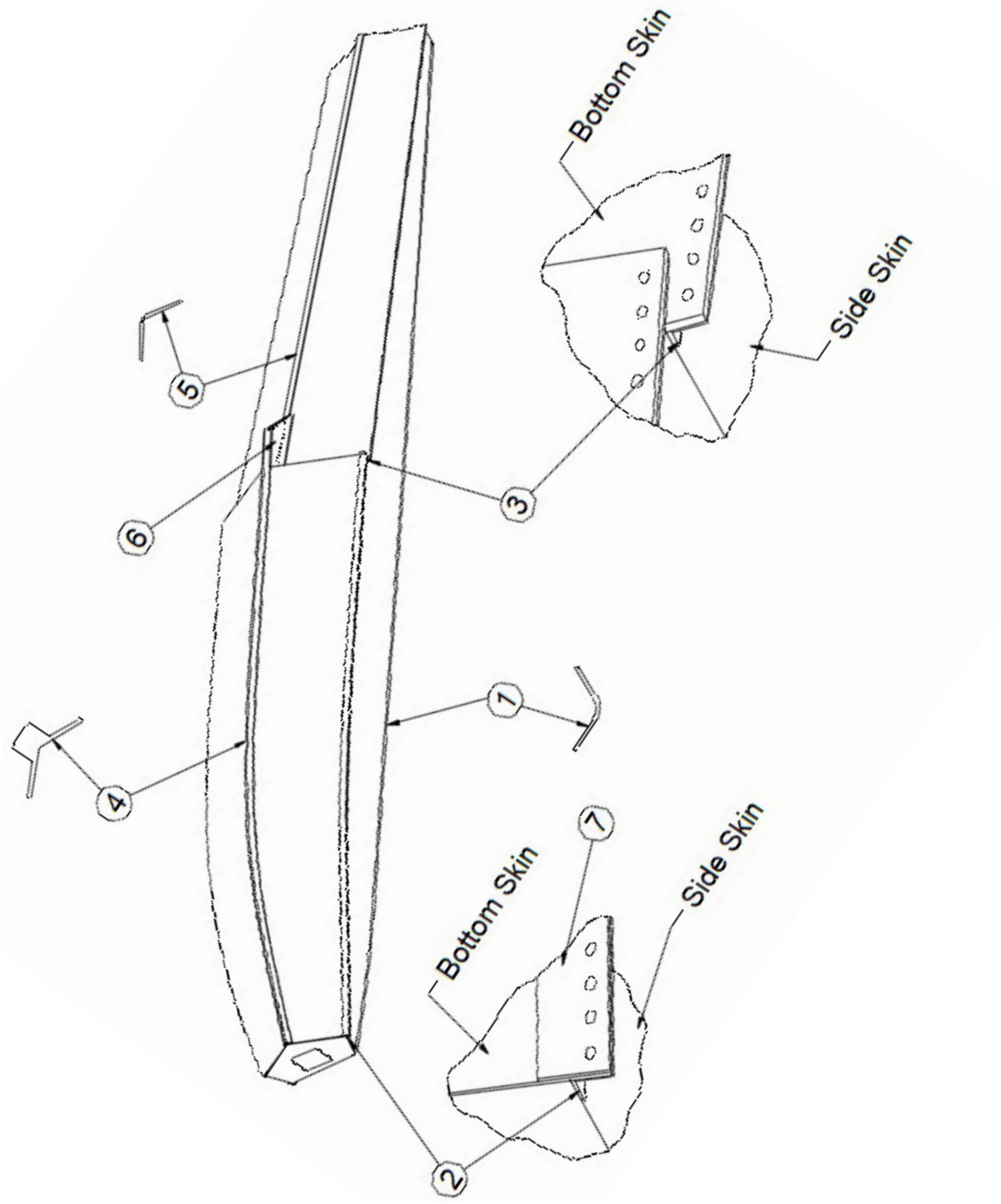
HULL EXTRUSIONS - AMPHIBIAN 54
HULL EXTRUSIONS - SEAPLANE 56

HULL EXTRUSIONS - AMPHIBIAN



ITEM	QTY	PART NO.	PART DESCRIPTION
1	1	21A01324-001	GUNWALL – L.
	1	21A01324-002	GUNWALL – R.
2	1	21A01340-109	CHINE - FWD L.
	1	21A01340-108	CHINE – FWD R.
3	1	21A01340-107	CHINE – AFTERBODY L.
	1	21A01340-106	CHINE – AFTERBODY R.
4	1	21A01321-001	KEEL - MAIN
5	1	21A01008-142	KEEL - AFTERBODY
6	1	21A01005-267	STRAP, CHINE, L.
	1	21A01005-268	STRAP, CHINE, R.

HULL EXTRUSIONS - SEAPLANE



ITEM	QTY	PART NO.	PART DESCRIPTION
1	1	21A01324-001	GUNWALL – L.
	1	21A01324-002	GUNWALL – R.
2	1	21A01340-109	CHINE - FWD L.
	1	21A01340-108	CHINE – FWD R.
3	1	21A01340-107	CHINE – AFTERBODY L.
	1	21A01340-106	CHINE – AFTERBODY R.
4	1	21S01321-004	KEEL - MAIN
5	1	21S01008-172	KEEL - AFTERBODY
6	1	1013018	ASSEMBLY, GUSSET, AFTERBODY, RF
		1013019	ASSEMBLY, GUSSET, AFTERBODY, LF
	1	21S01163-037	ANGLE SUPPORT – AFTERBODY L.
	1	21S01163-038	ANGLE SUPPORT – AFTERBODY R.
7	1	21A01005-267	STRAP, FORWARD BOTTOM, LEFT
	1	21A01005-268	STRAP, FORWARD BOTTOM, RIGHT

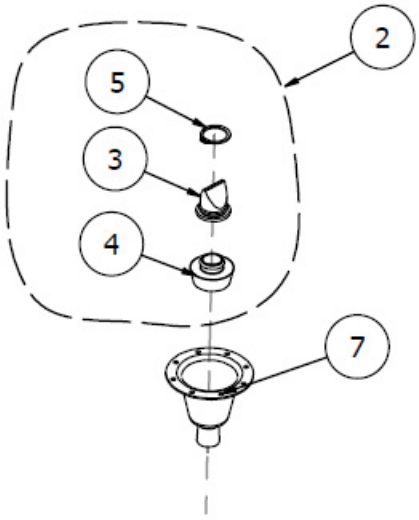
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SECTION 6
PUMPOUT CUP AND TUBE & FLOAT HAND PUMP

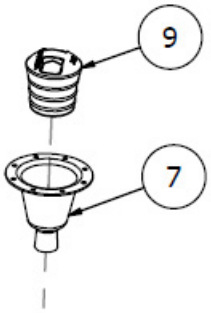
CONTENTS

PUMPOUT CUP AND TUBE 60
FLOAT HAND PUMP 62

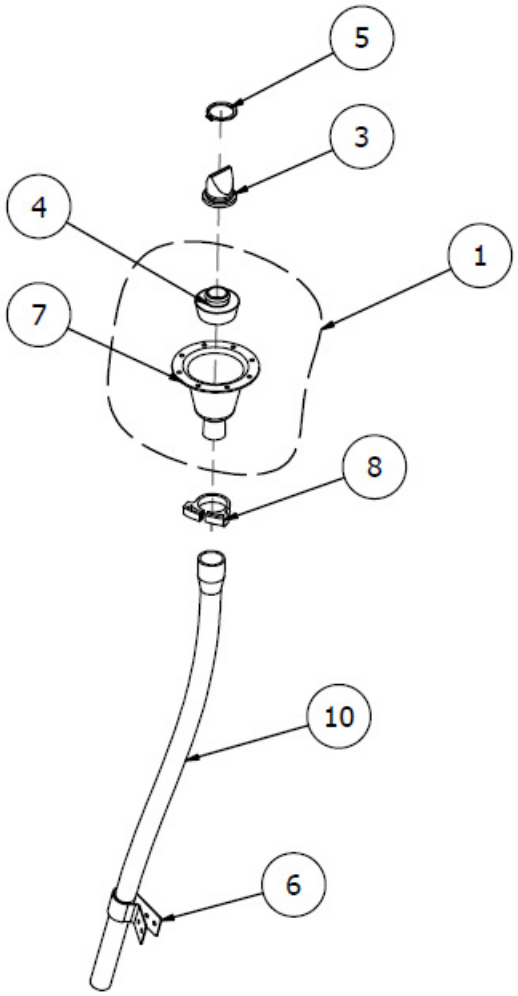
PUMPOUT CUP AND TUBE



DUCKBILL VALVE
RETROFIT



STOPPER



CUP ASSEMBLY
& TUBE

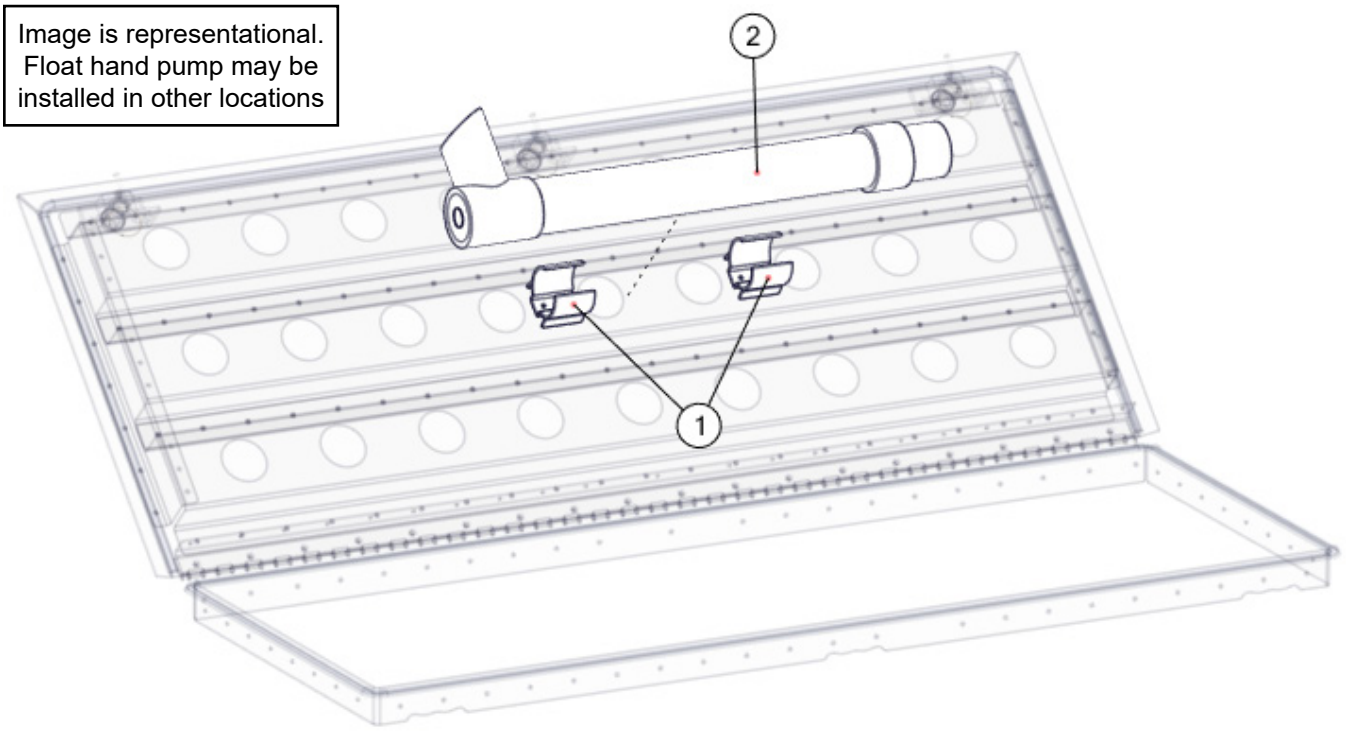
ITEM	QTY	PART NO.	PART DESCRIPTION	NOTE
1	1	1011004	ASSEMBLY, CUP, PUMPOUT, DUCKBILL	
2	1	1011075	KIT, PUMPOUT PLUG, DUCKBILL	1
3	1	1011870	VALVE, DUCKBILL	
4	1	1011808	RETAINER, VALVE, DUCKBILL, PUMPOUT PLUG	
5	1	91590A129	RETAINING RING, EXTERNAL, 13/16 OD, STAINLESS	
6	1	3A01158-003	CLAMP, PUMPOUT TUBE	
7	1	4A01749-001	CUP, PUMPOUT	
8	1	57134	CLAMP	
9	1	2111	STOPPER, PUMPOUT, LAKE AND AIR	2
10	A/R	RM618	TUBE, 5/8 OD, 1/2 ID	3
	10.5 IN	RM618	PUMPOUT TUBE	
	12.5 IN	RM618	PUMPOUT TUBE	
	15 IN	RM618	PUMPOUT TUBE	
	17.5 IN	RM618	PUMPOUT TUBE	
	23 IN	RM618	PUMPOUT TUBE	
	21.5 IN	RM618	PUMPOUT TUBE	
	18.5 IN	RM618	PUMPOUT TUBE	

NOTES:

1. Parts kit that requires RTV adhesive, see service letter 240 for instructions.
2. Not compatible with 1011004.
3. Length in feet as required, see tube table for individual lengths.

FLOAT HAND PUMP

Image is representational. Float hand pump may be installed in other locations



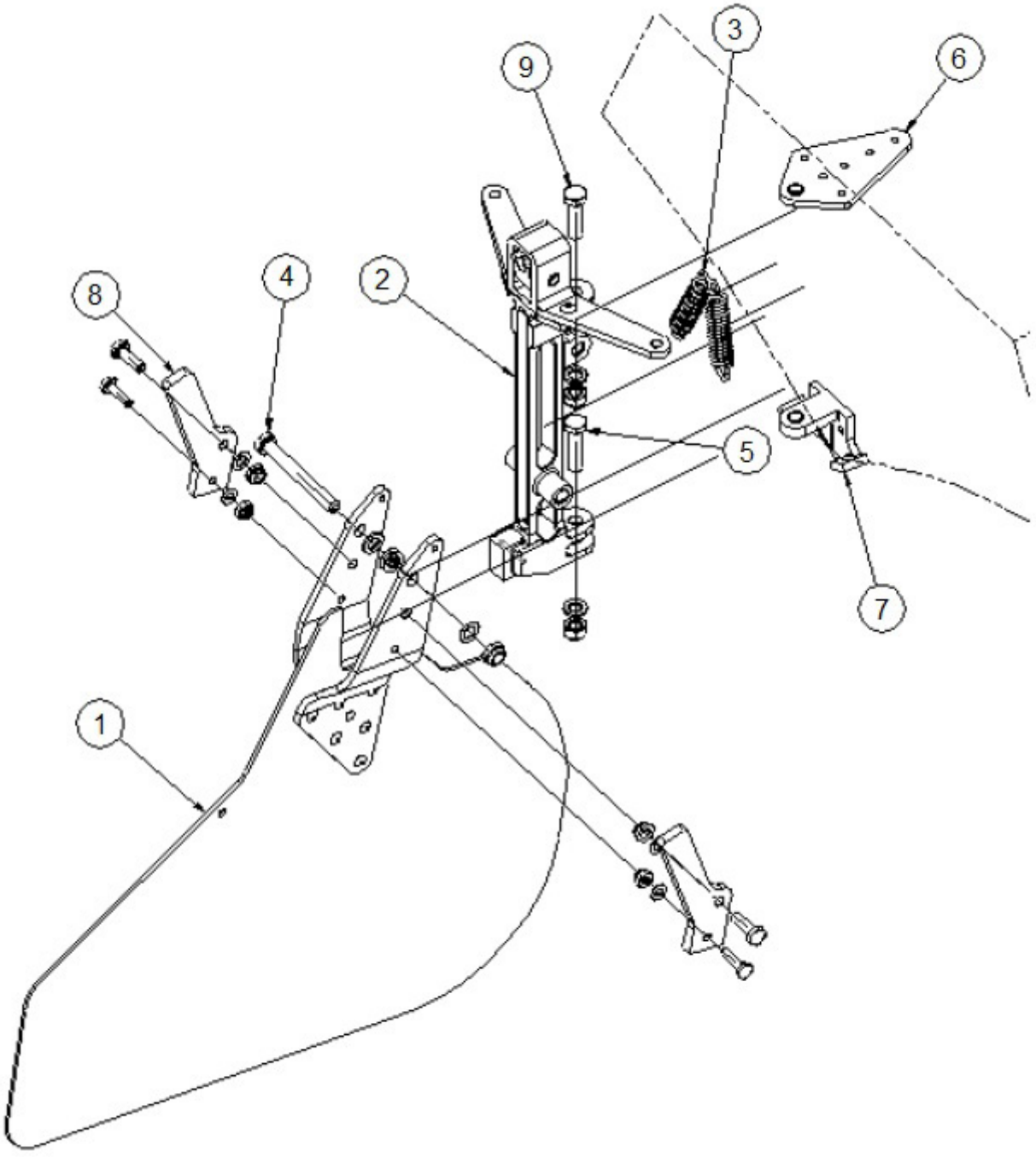
ITEM	QTY	PART NO.	PART DESCRIPTION
1	2	CM-2	CLIP, PLASTIC, PUMPOUT (SCREWS INCLUDED, MAY BE RIVETED IN)
2	1	F15PX	PUMP, HAND, FLOAT, 15"
2 (ALT)	1	F24PX	PUMP, HAND, FLOAT, 24"
2 (ALT)	1	F36PX	PUMP, HAND, FLOAT, 36"

SECTION 7
WATER RUDDER AND STEERING & RETRACT SYSTEM

CONTENTS

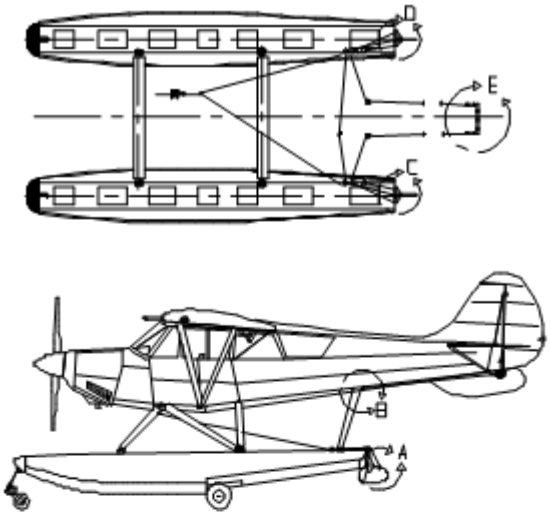
WATER RUDDER INSTALLATION.....64
STEERING & RETRACT SYSTEM INSTALLATION.....66

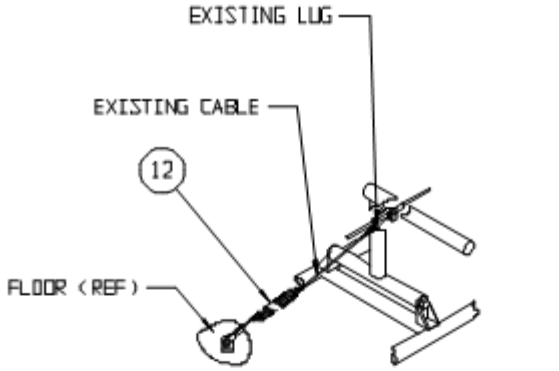
WATER RUDDER INSTALLATION



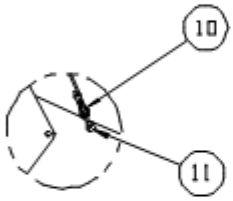
ITEM	QTY	PART NO.	PART DESCRIPTION
1	1	21A08000-123	ASSY. - BLADE
	1	1002649	BLADE
	1	21A08019-001	ARM L.
	1	21A08019-002	ARM R.
2	1	1003858	WATER RUDDER POST WITH BELLCRANK ASSEMBLY
	1	1003854	WATER RUDDER POST ASSEMBLY
	1	1003267	WATER RUDDER POST
	2	05DU06	BUSHING
	1	1003853	BELLCRANK, WATER RUDDER POST ASSEMBLY
	1	1003274	BELLCRANK, WATER RUDDER POST
	2	03DU04	BUSHING
	1	21A08648-002	BUMBER, DOWN STOP
	1	1001457	ROLL PIN
	1	21A8602-009	GUIDE, RETRACT
	1	5/16 X 1 ½ INCHES	PIN ATTACH
3	2	21A08525-006	SPRING
4	1	AN5-25A	BOLT, 5/16-24, 2.1875 GRIP, UNDRILLED, STEEL
	3	NAS1149D0516J	WASHER, 0.328 ID, 0.016 THK, ALUMINUM
	1	NAS 1149D0563J	WASHER, 0.328 ID, 0.063 THK, ALUMINUM
	1	MS21083N5	NUT, LOCKING, LOW HEIGHT, 5/16-24 UNF
5	1	AN5-11A	BOLT, 5/16-24 THREAD, 11/16" GRIP, 1-7/32" LENGTH
	A/R	NAS1149D0563J	WASHER, 0.328 ID, 0.063 THK, ALUMINUM
	1	MS21044N5	NUT, LOCKING, REGULAR HEIGHT, 5/16-24 UNF
6	1	21A01000-299	ASSEMBLY – TOP BEARING
	1	21A01019-003	PLATE
	1	21A01705-003	BEARING
7	1	21A08000-157	ASSEMBLY – LOWER BEARING
	1	21A08318-002	BRACKET
	1	05DU06	BEARING
8	2	21A08154-009	STOP
	2	AN4-6A	BOLT, 1/4-28, 0.3125 GRIP, UNDRILLED, STEEL
	2	NAS1149D0416J	WASHER, 0.265 ID, 0.016 THK, ALUMINUM
	2	MS21083N4	NUT, LOCKING, LOW HEIGHT, 1/4-28 UNF
	2	AN3-6A	BOLT, 10-32, 0.375 GRIP, UNDRILLED, STEEL
	2	NAS1149D0316J	WASHER, 0.203 ID, 0.016 THK, ALUMINUM
	2	MS21044N3	NUT, LOCKING, REGULAR HEIGHT, 10-32 UNF
9	1	AN5-12A	BOLT SIZE 5/16-24, LENGTH 1/64 - 1-11/32, GRIP LENGTH 13/16
	A/R	NAS1149D0563J	WASHER, 0.328 ID, 0.063 THK, ALUMINUM
	1	MS21044N5	NUT, LOCKING, REGULAR HEIGHT, 5/16-24 UNF

STEERING & RETRACT SYSTEM INSTALLATION

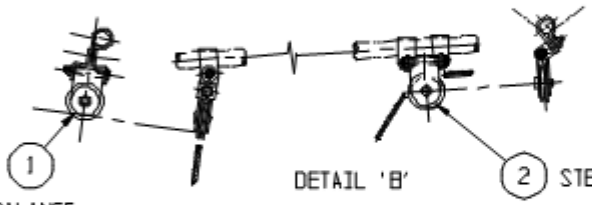




RIGHT REAR RUDDER PEDAL (SHOWN)



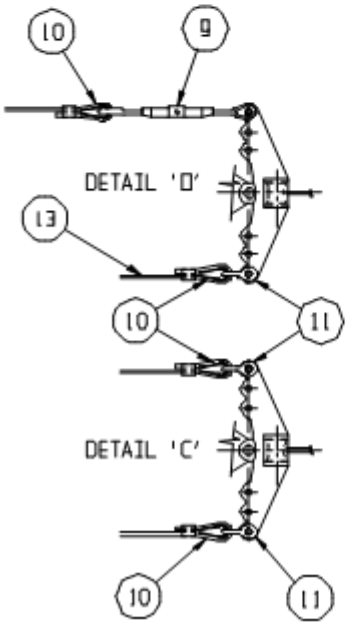
DETAIL 'A'

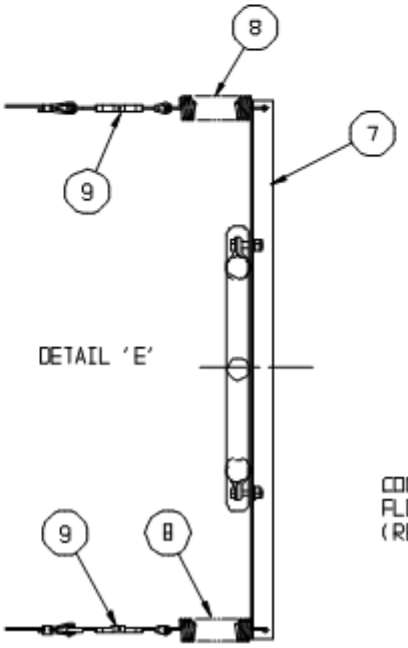


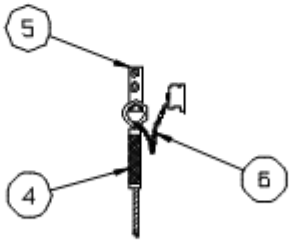
BALANCE

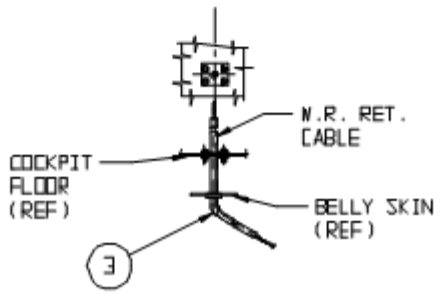
DETAIL 'B'

STEERING (2)









ITEM	QTY	PART NO.	PART DESCRIPTION
1	1	21A08000-126	ASS'Y., BALANCE PULLEY
	1	21A08000-125	ASS'Y., PULLEY BRACKET
	1	21A08008-150	BRACKET - PULLEY
	1	21A08230-002	SPACER, BLOCK
	1	MS20219-2	PULLEY
	1	AN4-7A	BOLT, 1/4-28, 0.4375 GRIP, UNDRILLED, STEEL
	1	NAS1149D0463J	WASHER, 0.265 ID, 0.063 THK, ALUMINUM
	1	MS21083N4	NUT, LOCKING, LOW HEIGHT, 1/4-28 UNF
	2	21A08163-068	BRACKET, "Z"
	2	AN742D12	CLAMP, LOOP
	1	AN3-22A	BOLT, 10-32, 1.875 GRIP, UNDRILLED, STEEL
	3	AN3-5A	BOLT, 10-32, 0.25 GRIP, UNDRILLED, STEEL
	A/R	NAS1149D0363J	WASHER, 0.203 ID, 0.063 THK, ALUMINUM
	4	MS21044N3	NUT, LOCKING, REGULAR HEIGHT, 10-32 UNF
	2	AN3-4A	BOLT, 10-32, 0.125 GRIP, UNDRILLED, STEEL
	4	NAS1149F0332P	WASHER, 0.203 ID, 0.032 THK, STEEL
2	2	21A08000-124	ASS'Y., STEERING PULLEY
	1	21A08000-125	ASS'Y., PULLEY BRACKET
	1	21A08008-150	BRACKET
	1	21A08230-002	SPACER, BLOCK
	1	MS20219-2	PULLEY
	1	AN4-7A	BOLT, 1/4-28, 0.4375 GRIP, UNDRILLED, STEEL
	1	NAS1149D0463J	WASHER, 0.265 ID, 0.063 THK, ALUMINUM
	1	MS21083N4	NUT, LOCKING, LOW HEIGHT, 1/4-28 UNF
	2	AN742D12	CLAMP, LOOP
	2	AN42B4A	BOLT EYE, 10-32 THREAD, #10 SIZE, 1/8" GRIP, 17/32" LENGTH
	1	AN3-17A	BOLT, 10-32, 1.5 GRIP, UNDRILLED, STEEL
	A/R	NAS1149D0363J	WASHER, 0.203 ID, 0.063 THK, ALUMINUM
	3	MS21044N3	NUT, LOCKING, REGULAR HEIGHT, 10-32 UNF
3	1	21A08000-129	ASS'Y., RETRACT TUBE
	1	MS354489-11	GROMMET, RUBBER
	4	AN5261032R12	SCREW, ATTACH
	4	AN970-3	WASHER, .203 ID, .875 OD, .063 THK
	4	MS21044N3	NUT, LOCKING, REGULAR HEIGHT, 10-32 UNF
4	1	21A08274-007	HANDLE, RETRACT
	1	33056	COUPLING SET SCREW, 10/32 X 1/4, 3/16" DIA
5	1	21A08487-001	HOOK, RETAINER CLIP
	2	AN526-10R9	SCREW, ATTACH
	2	MS21044N3	NUT, LOCKING, REGULAR HEIGHT, 10-32 UNF
6	1	21A08747-001	CHAIN, RETRACT, 15 INCHES
7	1	21A08359-201	RUDDER, HORN EXTENSION (HUSKY)

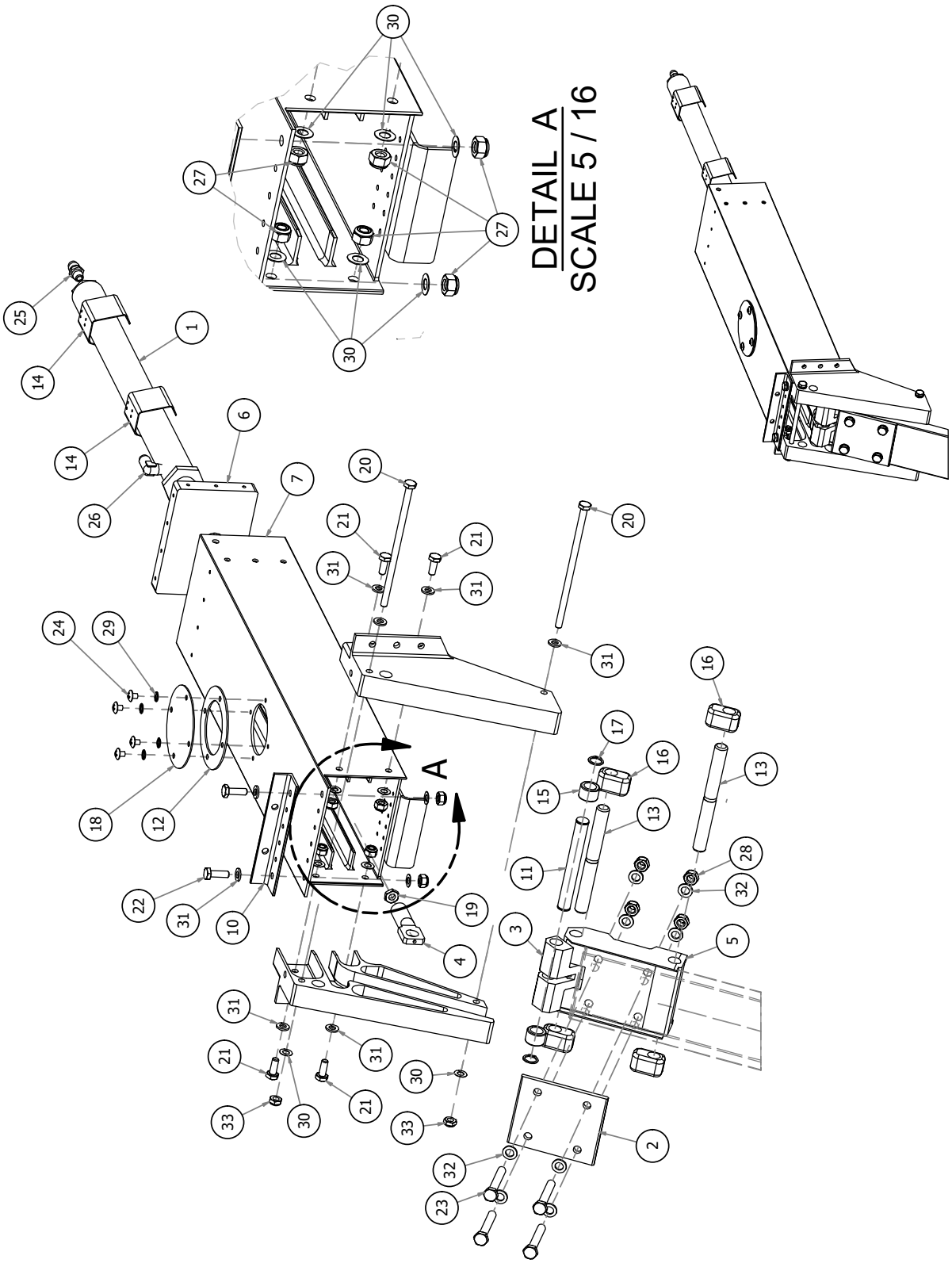
ITEM	QTY	PART NO.	PART DESCRIPTION
	2	MS27405-5	CLAMP, ATTACH
	2	AN4-11A	BOLT, 1/4-28, 0.6875 GRIP, UNDRILLED, STEEL
	2	NAS1149D0463J	WASHER, 0.265 ID, 0.063 THK, ALUMINUM
	2	MS21044N4	NUT, LOCKING, REGULAR HEIGHT, 1/4-28 UNF
8	2	21A08525-005	SPRING
9	3	MS21251B3S	TURNBUCKLE, BARREL
	3	MS21255-3RS	FORK, TERMINAL
	1	MS20392-2C13	PIN ATTACH
	1	MS24665-132	PIN, COTTER
	1	NAS1149D0316J	WASHER, 0.203 ID, 0.016 THK, ALUMINUM
	3	MS21255-3LS	EYE, TERMINAL
10	3	NAS1435K3	FORK END TERMINAL
	3	MS20664C3	BALL & SINGLE SHANK
11	6	MS24665-151	PIN, COTTER
	6	MS28392-2C13	PIN, CLEVIS
	14	NAS1149D0363J	WASHER
12	2	21A12000-041	ASS'Y – RUDDER RETURN SPRING
	1	21A08525-007	SPRING
13	A/R	RM690	CABLE (REQUEST LENGTH) 3/32 X 7 (NOT SHOWN)

SECTION 8
LANDING GEAR

CONTENTS

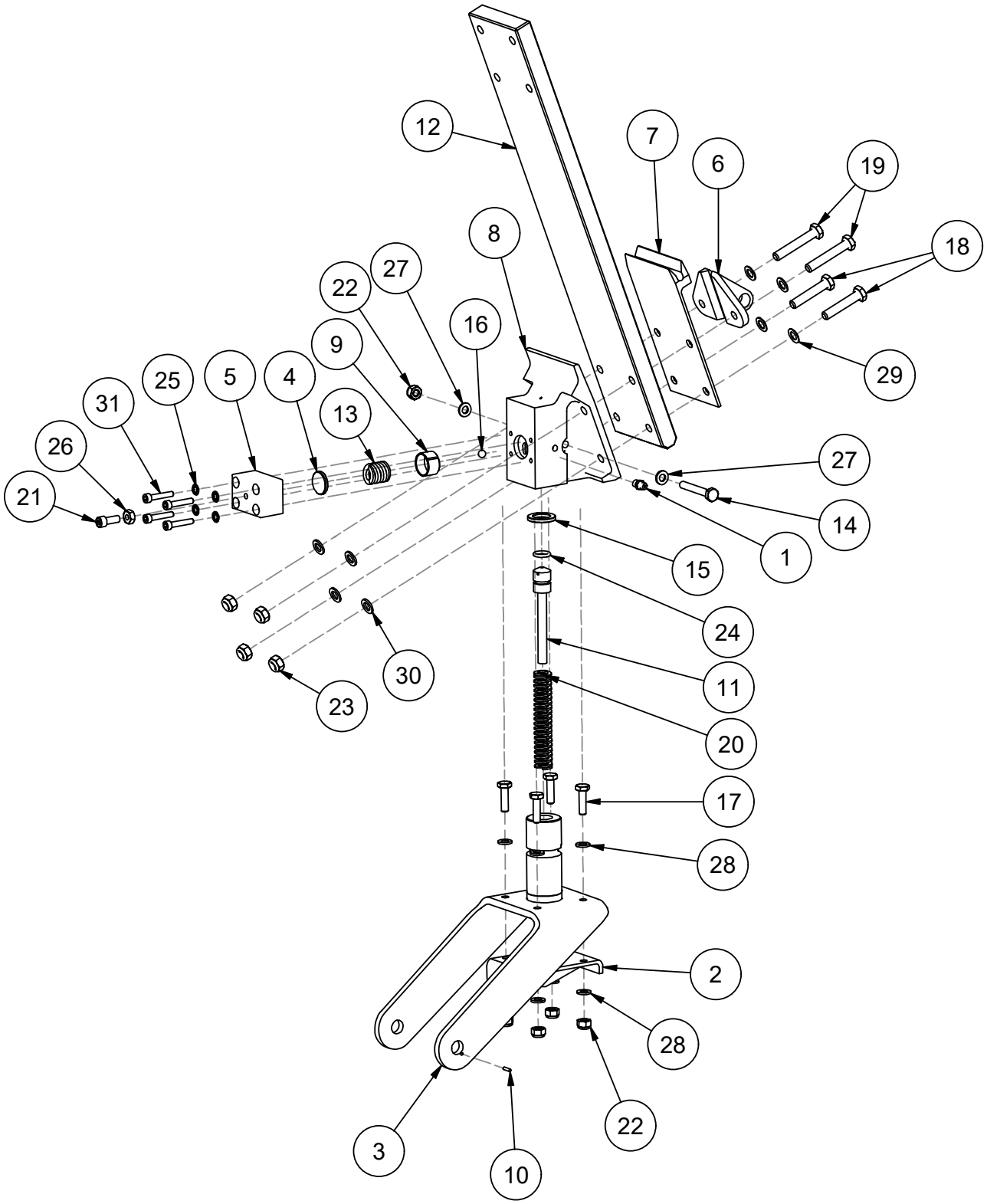
NOSE GEAR RETRACTION ASSEMBLY....70
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MAIN GEAR WHEEL CLEVELAND / PARKER ASSEMBLY....83

NOSE GEAR RETRACTION ASSEMBLY



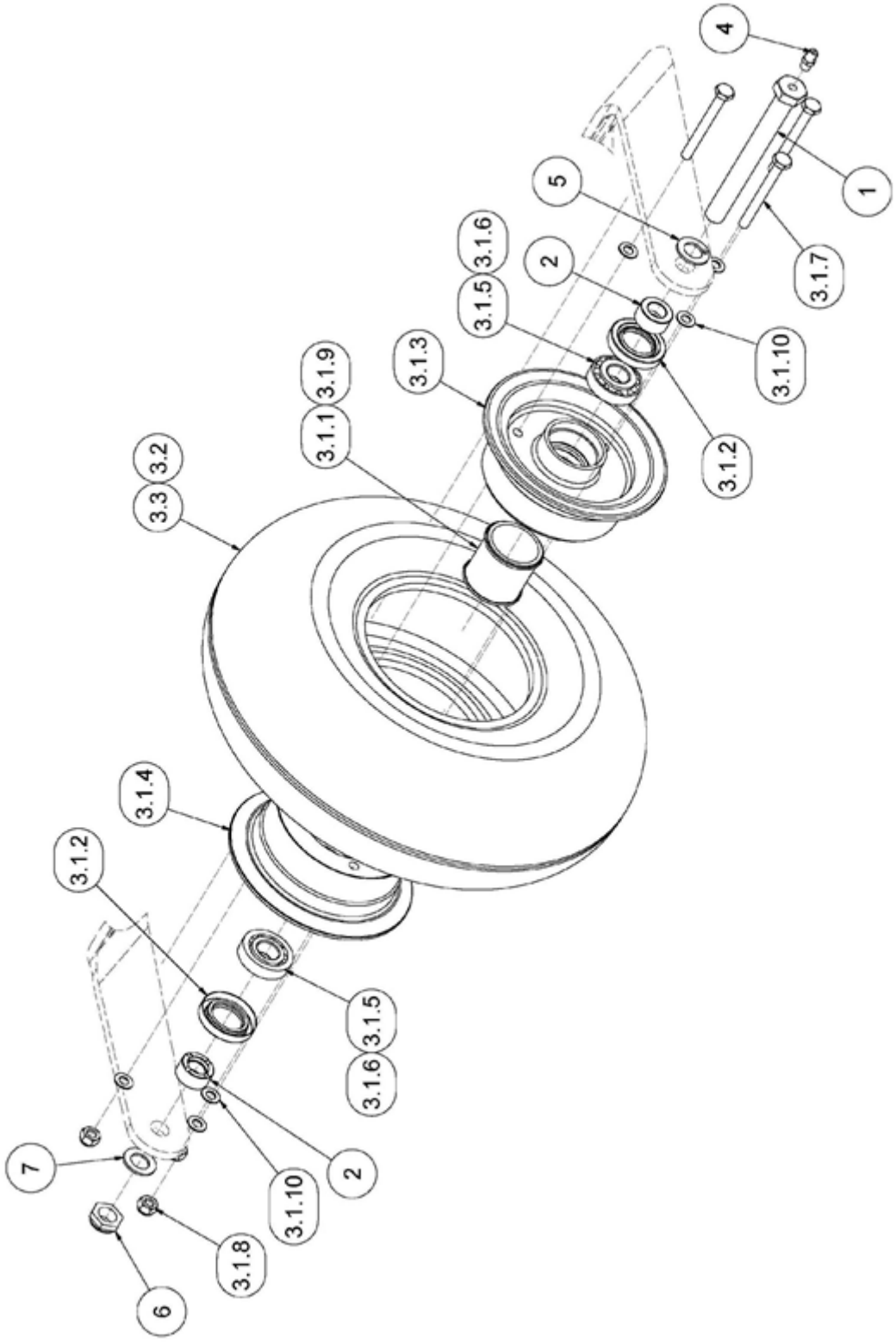
ITEM	QTY	PART NO.	PART DESCRIPTION
1	1	1002571	CYLINDER, NOSE GEAR, 2100/2350
2	1	21A06166-001	PLATE - BEARING, NOSE SPRING
	2	21A09005-262	CLIP-MAGNETIC INDICATOR (NOT SHOWN)
	2	5801	PROXIMITY SWITCH (NOT SHOWN)
	4	MS24693-S6	SCREW, COUNTERSUNK , 4-40 UNC, 0.5 LG (NOT SHOWN)
3	1	21A07032-005	LINK - TROLLEY, NOSE GEAR
4	1	21A07094-002	END - ROD, CYLINDER, NOSE GEAR
5	1	21A07187-009	TROLLEY - NOSE GEAR
6	1	21A07237-002	END CAP, NOSE BOX
7	1	21A07323-001	BOX, NOSE GEAR
8	1	21A07349-003	END, NOSE BOX, TRACK
9	1	21A07349-004	END, NOSE BOX, TRACK
10	1	21A07359-194	EXTRUSION, ANGLE
11	1	21A07509-007	AXLE, TROLLEY LINK
12	1	30A07567-011	GASKET, COVER, NOSE BOX, 2100 AND 3000
13	2	34A07509-008	AXLE, TROLLEY
14	2	3A07005-178	CLIP, SWITCH, NOSE & MAIN
15	2	3A07530-001	BEARING - TROLLEY, NOSE GEAR
16	4	3A07604-001	BLOCK, SLIDE, TROLLEY, NOSE GEAR
17	2	5100-46-H	SNAP RING
18	1	8A01008-080	COVER, BULKHEAD HYD CYL. HOLE
19	1	AN316-5R	NUT JAM, HEXAGON, 5/16-24 THREAD, RIGHT
20	2	AN4-53A	BOLT, 1/4-28, 4.9375197 GRIP, UNDRILLED, STEEL
21	4	AN4-5A	BOLT, 1/4-28, 0.1875 GRIP, UNDRILLED, STEEL
22	2	AN4-6A	BOLT, 1/4-28, 0.3125 GRIP, UNDRILLED, STEEL
23	4	AN5-20A	BOLT, 5/16-24, 1.5625 GRIP, UNDRILLED, STEEL
24	4	AN526-1032R4	SCREW, MACHINE, TRUSS HEAD
25	1	AN816-4D	NIPPLE, FLARED TUBE AND PIPE THREAD
26	1	MS20822-4D	ELBOW
27	6	MS21044N4	NUT, LOCKING, REGULAR HEIGHT, 1/4-28 UNF
28	4	MS21044N5	NUT, LOCKING, REGULAR HEIGHT, 5/16-24 UNF
29	4	MS35333-39	STAR WASHER
30	8	NAS1149D0416J	WASHER, 0.265 ID, 0.016 THK, ALUMINUM
31	8	NAS1149D0463J	WASHER, 0.265 ID, 0.063 THK, ALUMINUM
32	8	NAS1149F0563P	WASHER, 0.328 ID, 0.063 THK, STEEL
33	2	NAS679-A4W	KAYNAR NUT

NOSE GEAR LOWER ASSEMBLY



ITEM	QTY	PART NO.	PART DESCRIPTION
1	1	1095K41	COMMON GREASEZERK
2	1	21A06000-020	WELDMENT, PIVOT SHAFT, NOSE GEAR
3	1	21A06020-001	FORK, NOSE GEAR (2100)
4	1	21A06160-053	PRESSURE PLATE
5	1	21A06194-005	BLOCK - SPRING
6	1	21A06213-006	TOW HOOK NOSE GEAR
7	1	21A06237-001	BEARING PLATE, LOWER, NOSE GEAR
8	1	21A06318-005	BLOCK - PIVOT, NOSE GEAR
9	1	21A06475-006	FRICTION CUP
10	1	21A06476-003	PIN, ANTIROTATION
11	1	21A06605-002	PLUNGER- NOSE WHEEL, 21, 23, 3, 34
12	1	21A06653-001	SPRING NOSE GEAR
13	1	21A06705-005	PRESSURE SPRING
14	1	30A06702-016	BOLT, MODIFIED, PIVOT BLOCK
15	1	3A06602-001	THRUST WASHER
16	1	9528K15	1/4" CHROME BALL BEARING
17	4	AN4-7A	BOLT, 1/4-28, 0.4375 GRIP, UNDRILLED, STEEL
18	2	AN5-14A	BOLT, 5/16-24, 1.0625 GRIP, UNDRILLED, STEEL
19	2	AN5-16A	BOLT, 5/16-24, 1.3125 GRIP, UNDRILLED, STEEL
20	1	M62-350	SPRING
21	1	MS16997-60	SOCKET HEAD CAP SCREW
22	5	MS21044N4	NUT, LOCKING, REGULAR HEIGHT, 1/4-28 UNF
23	4	MS21044N5	NUT, LOCKING, REGULAR HEIGHT, 5/16-24 UNF
24	1	MS28775-111	"O" RING, HYDRAULIC
25	4	MS35333-39	STAR WASHER
26	1	MS35649-2252	NUT, PLAIN, HEXAGON, 1/4-20 UNC, STEEL
27	2	NAS1149D0463J	WASHER, 0.265 ID, 0.063 THK, ALUMINUM
28	8	NAS1149F0463P	WASHER, 0.265 ID, 0.063 THK, STEEL
29	4	NAS1149F0532P	WASHER, 0.328 ID, 0.032 THK, STEEL
30	4	NAS1149F0563P	WASHER, 0.328 ID, 0.063 THK, STEEL
31	4	NAS1352-316P	SOCKET HEAD CAP SCREW
32	1	21A06166-001	PLATE – BEARING, NOSE SPRING (NOT SHOWN)
	4	AN5-20A	BOLT, 5/16-24, 1.5625 GRIP, UNDRILLED, STEEL (NOT SHOWN)
	4	NAS1149F0563P	WASHER, 0.328 ID, 0.063 THK, STEEL (NOT SHOWN)
	4	MS21044N5	NUT, LOCKING, REGULAR HEIGHT, 5/16-24 UNF (NOT SHOWN)

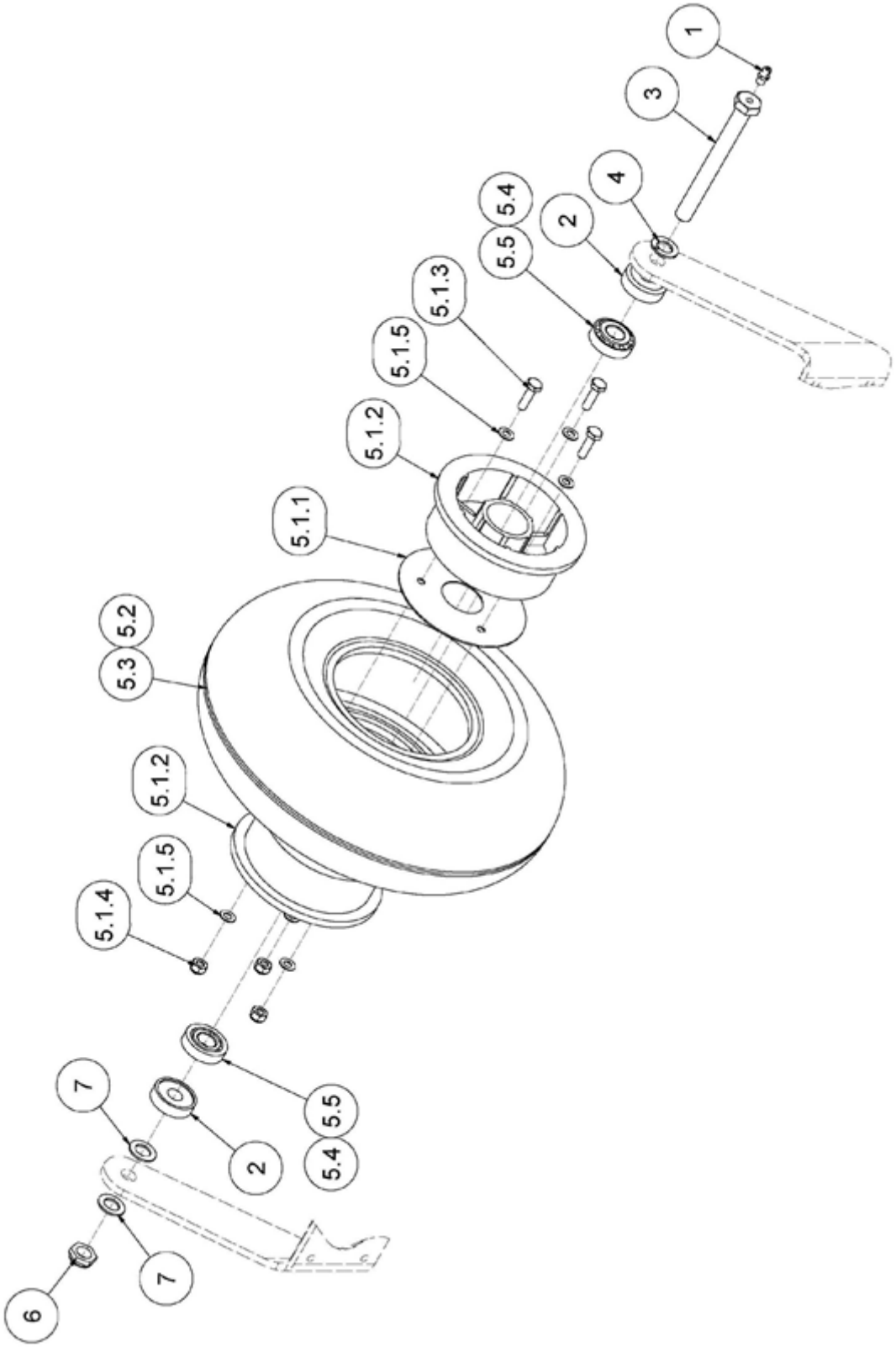
NOSE WHEEL ASSEMBLY (GROVE)



ITEM	QTY	PART NO.	PART DESCRIPTION
1	1	1005927	BOLT, AXLE, NOSE GEAR
2	2	1005929	SPACER
3	1	1005931	ASSEMBLY, NOSE WHEEL
3.1	1	49-12AF-001	ASSEMBLY, WHEEL, GROVE
3.1.1	1	010-019	GREASE RETAINER
3.1.2	2	471570	SEAL, TIMKEN (EQUIVALENT TO GROVE OEM P/N 010-026)
3.1.3	1	015-020A	WHEEL HALF INNER
3.1.4	1	016-020AF	WHEEL HALF OUTER
3.1.5	2	A4050	BEARING CORE
3.1.6	2	A4138	BEARING CONE
3.1.7	3	AN4-23A	BOLT, 1/4-28, 1.9375 GRIP, UNDRILLED, STEEL
3.1.8	3	MS21044N4	NUT, LOCKING, REGULAR HEIGHT, 1/4-28 UNF
3.1.9	2	MS28775-029	O RING, I.D 1.489, O.D. 1.629. .070 THICK
3.1.10	6	NAS1149F0416	WASHER, 0.265 ID, 0.016 THK, STEEL
3.2	1	XA1AA*	INNER TUBE, 2.80 X 4
3.3	1	AD1A2*	TIRE, 2.50 / 2.80 - 4
4	1	1095K41	COMMON GREASEZERK
5	1	3A06702-003	MODIFIED WASHER
6	1	MS21083N8	NUT, SELFLOCKING, 1/2-20 THREAD, NYLON INSERT, 250 DEG.
7	1	NAS1149D0863J	WASHER, 0.515 ID, 0.063 THK, ALUMINUM
8	1	21A06476-003	PIN ANTI ROTATE AXLE

* 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.

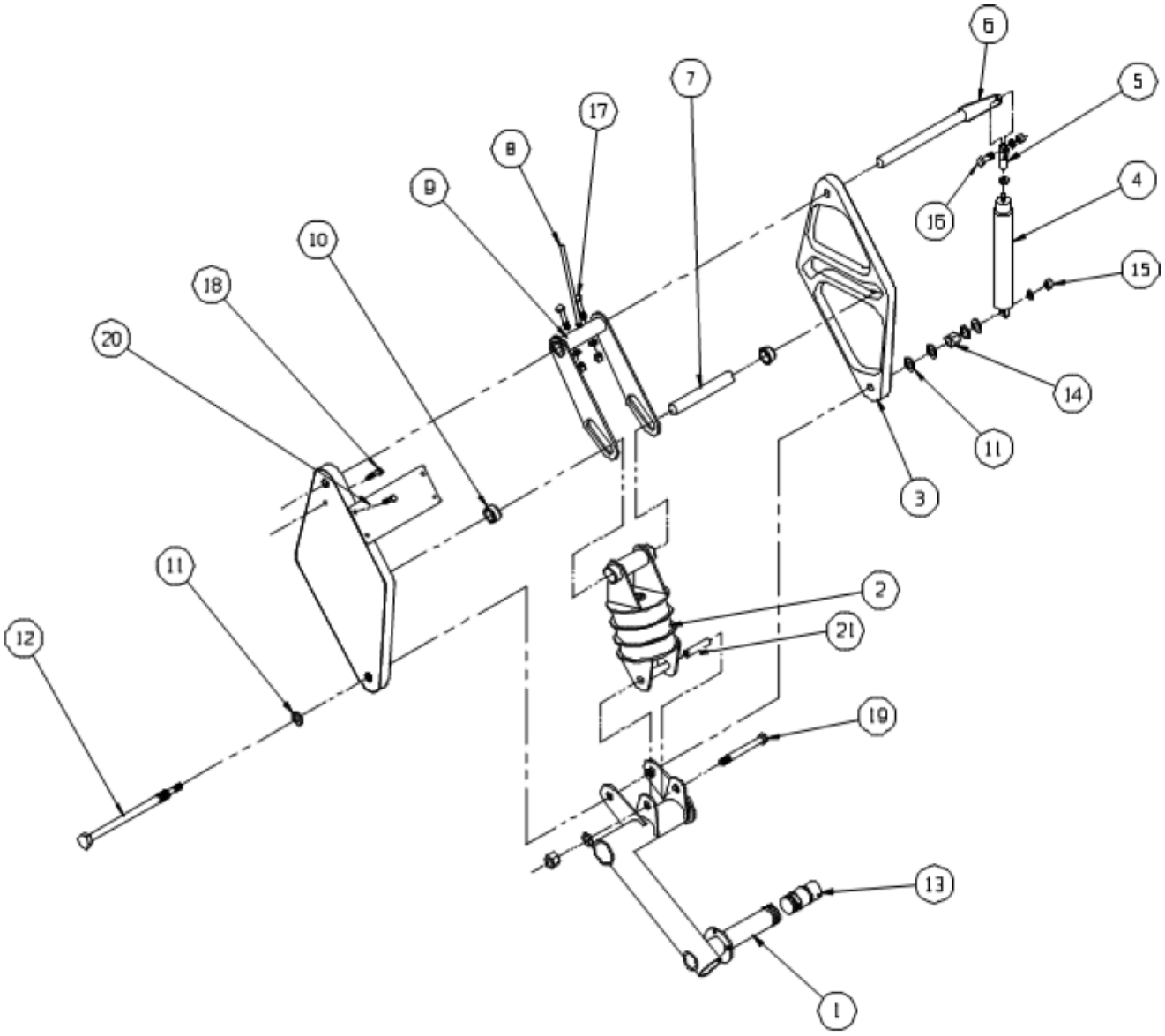
NOSE WHEEL ASSEMBLY (PARKER)



ITEM	QTY	PART NO.	PART DESCRIPTION
1	1	1095K41	COMMON GREASEZERK
2	2	3A06259-001	SPACER
3	1	3A06702-002	BOLT, MODIFIED, AXLE, NOSE GEAR
4	1	3A06702-003	MODIFIED WASHER
5	1	21A06000-021	NOSE WHEEL ASSEMBLY
5.1	1	D-30380	PARKER WHEEL ASSEMBLY
5.1.1	1	068-30373	GASKET
5.1.2	2	161-30382	WHEEL HALF
5.1.3	3	AN4-7A	BOLT, 1/4-28, 0.4375 GRIP, UNDRILLED, STEEL
5.1.4	3	MS21044N4	NUT, LOCKING, REGULAR HEIGHT, 1/4-28 UNF
5.1.5	6	NAS1149F0432P	WASHER, 0.265 ID, 0.032 THK, STEEL
5.2	1	XA1AA*	INNER TUBE, 2.80 X 4
5.3	1	AD1A2*	TIRE, 2.50 / 2.80 - 4
5.4	2	A4050	BEARING CORE
5.5	2	A4138	BEARING CONE
6	1	MS21083N8	NUT, SELFLOCKING, 1/2-20 THREAD, NYLON INSERT, 250 DEG.
7	2	NAS1149D0863J	WASHER, 0.515 ID, 0.063 THK, ALUMINUM

* 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.

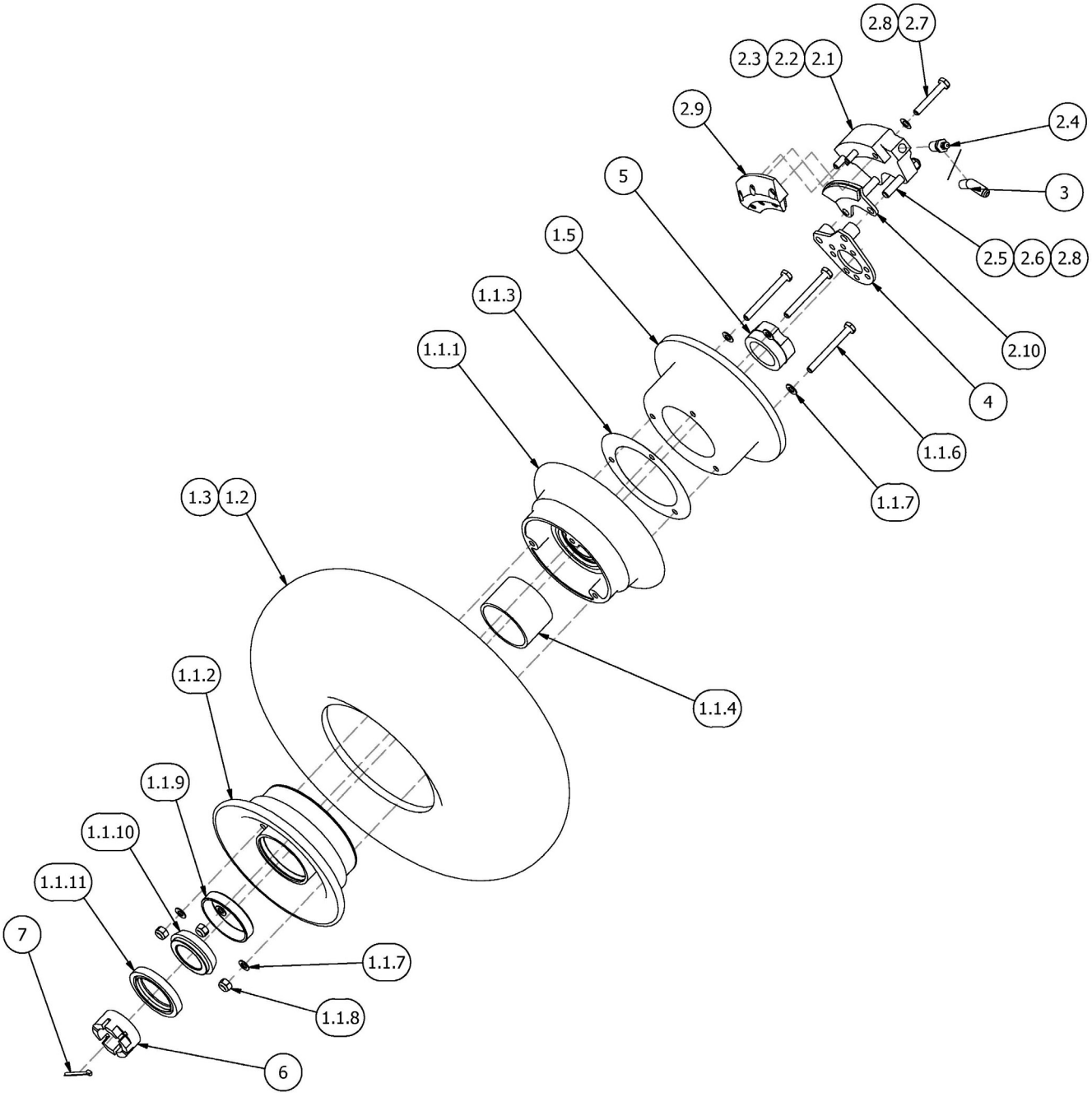
MAIN GEAR RETRACTION INSTALLATION



ITEM	QTY	PART NO.	PART DESCRIPTION
1	1	21A04000-077	ASSY. – DRAG LINK L.
	1	21A04000-076	ASSY. – DRAG LINK R.
	2	08FDU12	FLANGED BUSHING
2	1	21A04000-073	ASSY. SHOCK STRUT
	1	21A04000-075	ASSY. – LOWER END
	2	1095K41	ZERK – GREASE
	2	NAS1149D0416J	WASHER, 0.265 ID, 0.016 THK, ALUMINUM
	2	NAS1149D0463J	WASHER, 0.265 ID, 0.063 THK, ALUMINUM
	1	1002087	DUAL BUSHING ASSEMBLY
	1	1001100	BUSHING ASSEMBLY
	1	21A04503-004	RETAINING PIN
	1	MS24665-151	COTTER PIN
	1	21A04585-002	SLEEVES
3	1	21A05114-005	TRACK – MAIN GEAR L.
	1	21A05114-006	TRACK – MAIN GEAR R.
	1	10DU12	BEARING - UPPER
	1	08DU12	BEARING – LOWER
4	1	1002574	CYLINDER
	2	MS20822-4D	ELBOW 90 DEG, 7/16-20 TUBE THREAD, 5-44 PIPE THREAD
5	1	21A05705-002	ROD END
	1	AN316-5	JAMB NUT
	1	21A05260-005	SPACER
	1	MS20002C6	WASHER TO FIT DIA 3/8", COUNTERSUNK (CHAMFERED EDGE GOES AGAINST CYLINDER)
6	1	21A05000-017	ARM – RETRACT L.
	1	21A05000-016	ARM – RETRACT R.
7	1	21A04454-006	AXLE – SHOCK STRUT
8	1	21A05000-022	INDICTATOR ASSY.
9	1	21A05000-018	GEAR ACTUATOR
10	2	21A05520-003	ROLLER – TRACK
11	2	93783A033	WASHERS, PRESSURE SEALING, W/ ZINC PLATING, 1/2" DIA
12	1	21A05000-019	BOLT, MAIN GEAR
	1	21A05735-001	BOLT
	1	21A05476-002	STUD
13	1	21A04263-007	RETAINER - GREASE
	2	MS28775-210	O RING, DIA 0.734
	1	1095K41	ZERK – GREASE
14	1	MS21044N8	NUT, LOCKING, REGULAR HEIGHT, 1/2-20 UNF
	2	NAS1149F0863P	WASHER, AIRFRAME, TO FIT DIA 1/2"
15	1	MS21083N5	NUT, LOCKING, LOW HEIGHT, 5/16-24 UNF
	A/R	NAS1149F0563P	WASHER, 0.328 ID, 0.063 THK, STEEL

ITEM	QTY	PART NO.	PART DESCRIPTION
16	1	1005875	ASSEMBLY, PIN, CLEVIS, MAGNET HOLDER
	2	NAS1149F0563P	WASHER, 0.328 ID, 0.063 THK, STEEL
	1	MS21044N5	NUT, LOCKING, REGULAR HEIGHT, 5/16-24 UNF
17	2	NAS6204-17	BOLT, 1/4-28 THREAD, 1.432" LENGTH, 1.062" GRIP
	4	NAS1149D0416J	WASHER, 0.265 ID, 0.016 THK, ALUMINUM
	2	MS21044N4	NUT, LOCKING, REGULAR HEIGHT, 1/4-28 UNF
18	8	AN3-6A	BOLT, 10-32, 0.375 GRIP, UNDRILLED, STEEL
	8	NAS1149D0316J	WASHER, 0.203 ID, 0.016 THK, ALUMINUM
	8	NAS1149D0363J	WASHER, 0.203 ID, 0.063 THK, ALUMINUM
	8	MS21044N3	NUT, LOCKING, REGULAR HEIGHT, 10-32 UNF
19	1	AN8-33A	BOLT, 1/2-20 THREAD, 2-11/16" GRIP, 3-15/32" LENGTH
	1	NAS1149F0832P	WASHER, 0.515 ID, 0.032 THK, STEEL
	1	NAS1149F0863P	WASHER, AIRFRAME, TO FIT DIA 1/2"
	1	MS21044N8	NUT, LOCKING, REGULAR HEIGHT, 1/2-20 UNF
20	1	21A05003-079	PLATE - SEPARATING
	4	AN3-5A	BOLT, 10-32, 0.25 GRIP, UNDRILLED, STEEL
	8	NAS1149D0316J	WASHER, 0.203 ID, 0.016 THK, ALUMINUM
	4	MS21044N3	NUT, LOCKING, REGULAR HEIGHT, 10-32 UNF
21	1	21A04547-004	BUSHING, LOWER, SHOCK STRUT
	2	21A09005-262	CLIP, MAGNETIC INDICATOR (NOT SHOWN)
	2	5801	PROXIMITY SWITCH (NOT SHOWN)
	4	MS24693-S6	SCREW, COUNTERSUNK , 4-40 UNC, 0.5 LG (NOT SHOWN)

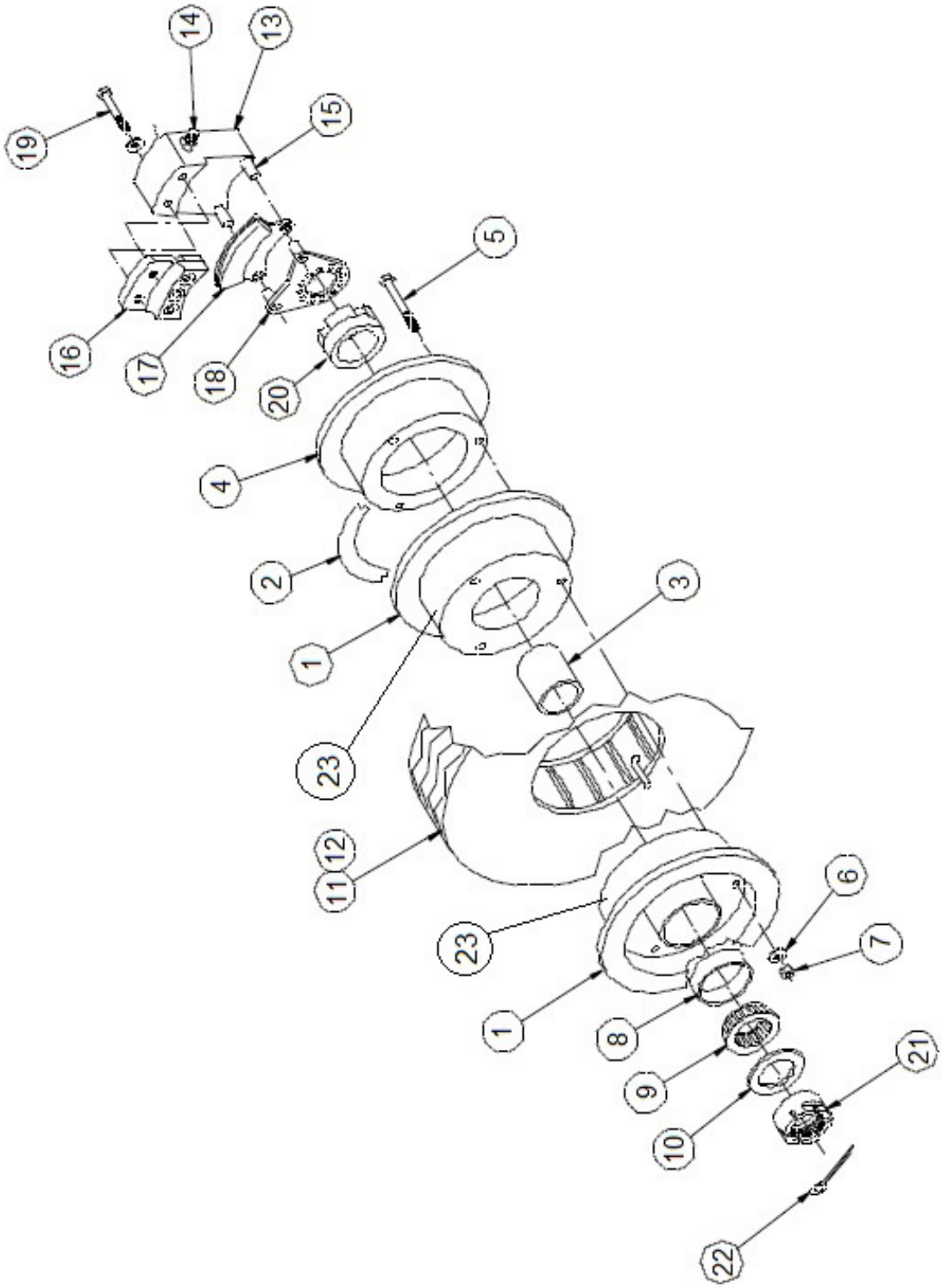
MAIN GEAR WHEEL GROVE / WIPAIRE ASSEMBLY



ITEM	QTY	PART NO.	PART DESCRIPTION
1	1	1002141	ASSY, MAIN WHEEL, GROVE, 2100 (INCLUDES TIRE AND TUBE)
1.1	1	1002142	ASSY, RIM & BEARINGS, GROVE, 2100
1.1.1	1	015-002	WHEEL HALF, INNER (REF)
1.1.2	1	016-002	WHEEL HALF, OUTER (REF)
1.1.3	1	3A04620-001	GASKET - TEFLON
1.1.4	1	010-009	GREASE RETAINER
1.1.5	1	018-001	BRAKE DISC (NOMINAL THICKNESS 0.190", MINIMUM 0.165")
1.1.6	3	AN4-23A	BOLT, 1/4-28, 1.9375 GRIP, UNDRILLED, STEEL
1.1.7	6	NAS1149F0432P	WASHER, 0.265 ID, 0.032 THK, STEEL
1.1.8	3	MS21044N4	NUT, LOCKING, REGULAR HEIGHT, 1/4-28 UNF
1.1.9	2	08231	BEARING CUP
	-	08231CP	BEARING CUP (CHROME, REF)
1.1.10	2	08125	BEARING CONE
	-	08125CP	BEARING CONE (CHROME, REF)
1.1.11	2	473237	SEAL - INSIDE/OUTSIDE
1.2	1	AA1D4*	TIRE –TYPE III 5.00 X 5, 6 PLY
1.3	1	XA1AC*	TUBE 5.00 X 5
2	1	32-1	BRAKE ASSEMBLY
2.1	1	023-005	CALIPER BODY (REF)
2.2	2	017-003	PISTON (REF)
2.3	2	MS28775-217	O-RING, HYDRAULIC
2.4	1	220-0063	BLEEDER ASSEMBLY
2.5	2	013-001	TORQUE PIN (REF)
2.6	2	MS21044N4	NUT, LOCKING, REGULAR HEIGHT, 1/4-28 UNF
2.7	3	AN4H-15A	BOLT
2.8	5	NAS1149F0416P	WASHER, 0.265 ID, 0.016 THK, STEEL
2.9	1	10-3	ASS'Y – BACK PLATE (REF)
2.9.1	1	RA66-111	LINING (PAD)
2.9.2	3	066-001	RIVET
	A/R	105-00200 (ALT)	RIVET (ALTERNATE PN)
2.10	1	11-2	ASS'Y – PRESSURE PLATE
2.10.1	1	RA66-111	LINING (PAD)
2.10.2	3	066-001	RIVET
	3	105-00200 (ALT)	RIVET (ALTERNATE PN)
3	1	MS20823-3D	FITTING 45˚ BRAKE LINE
4	1	020-001	BRAKE TORQUE PLATE
5	1	3A04093-001	SPACER
6	1	3A04268-003	NUT – AXLE
7	1	MS24665-351	COTTER PIN

* 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 WHEEL CLEVELAND / PARKER ASSEMBLY



ITEM	QTY	PART NO.	PART DESCRIPTION
1	1	3A04000-002	ASSY. – WHEEL (W/ TUBE & TIRE)
	1	3A04000-060	ASSY. - WHEEL
2	1	3A04620-001	GASKET - TEFLON
3	1	3A04616-001	GREASE RETAINER
4	1	164-01700	BRAKE DISC
5	3	AN4-22A	BOLT, 1/4-28, 1.8125 GRIP, UNDRILLED, STEEL
6	3	NAS1149F0432P	WASHER, 0.265 ID, 0.032 THK, STEEL
7	3	MS21044N4	NUT, LOCKING, REGULAR HEIGHT, 1/4-28 UNF
8	2	8231	BEARING CUP
	2	8231CP	BEARING CUP, CHROME (OPT.)
9	2	8125	BEARING CONE
	2	8125CP	BEARING CONE, CHROME (OPT.)
10	2	473237	SEAL - INSIDE/OUTSIDE
11	1	AA1D4*	TIRE –TYPE III
12	1	XA1AC*	TUBE
	1	075-00800	ASSY. – BRAKE AND TORQUE PLATE
13	1	21A04000-096	ASSY. – CALIPER (RIGHT)
	1	21A04000-097	ASSY. – CALIPER (LEFT)
	1	062-00300	PISTON
	1	MS28775-218	“O” RING
	1	MS20823-3D	FITTING - 45 DEGREES (BRAKE LINE)
14	1	081-30619	SEAT – BLEEDER
	1	79-3	SCREW – BLEEDER
	1	183-1	CAP – BLEEDER
15	2	069-00400	ANCHOR BOLT
	2	NAS1149F0463P	WASHER, 0.265 ID, 0.063 THK, STEEL
	2	MS21044N4	NUT, LOCKING, REGULAR HEIGHT, 1/4-28 UNF
16	1	074-02700	ASSY. – BACK PLATE
	1	064-00500	PLATE – BACK
	1	066-10600	LINING
	3	105-00200	RIVET
17	1	073-04800	ASSY. – PRESSURE PLATE
	1	063-00500	PLATE - PRESSURE
	1	066-10600	LINING
	3	105-00200	RIVET
18	1	3A04711-001	BRAKE TORQUE PLATE - LEFT
	1	3A04711-002	BRAKE TORQUE PLATE – RIGHT
19	1	AN4H15A	BOLT, 1/4-28 THREAD, 1-3/16" GRIP, 1-21/32" LENGTH
	1	NAS1149F0432P	WASHER, 0.265 ID, 0.032 THK, STEEL
20	1	3A04093-001	SPACER

* 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.

ITEM	QTY	PART NO.	PART DESCRIPTION
21	1	3A04268-003	NUT – AXLE
22	1	MS24665-351	COTTER PIN
23	1	40-78A	WHEEL ASSEMBLY, EXTERNAL, 5.00 X 5

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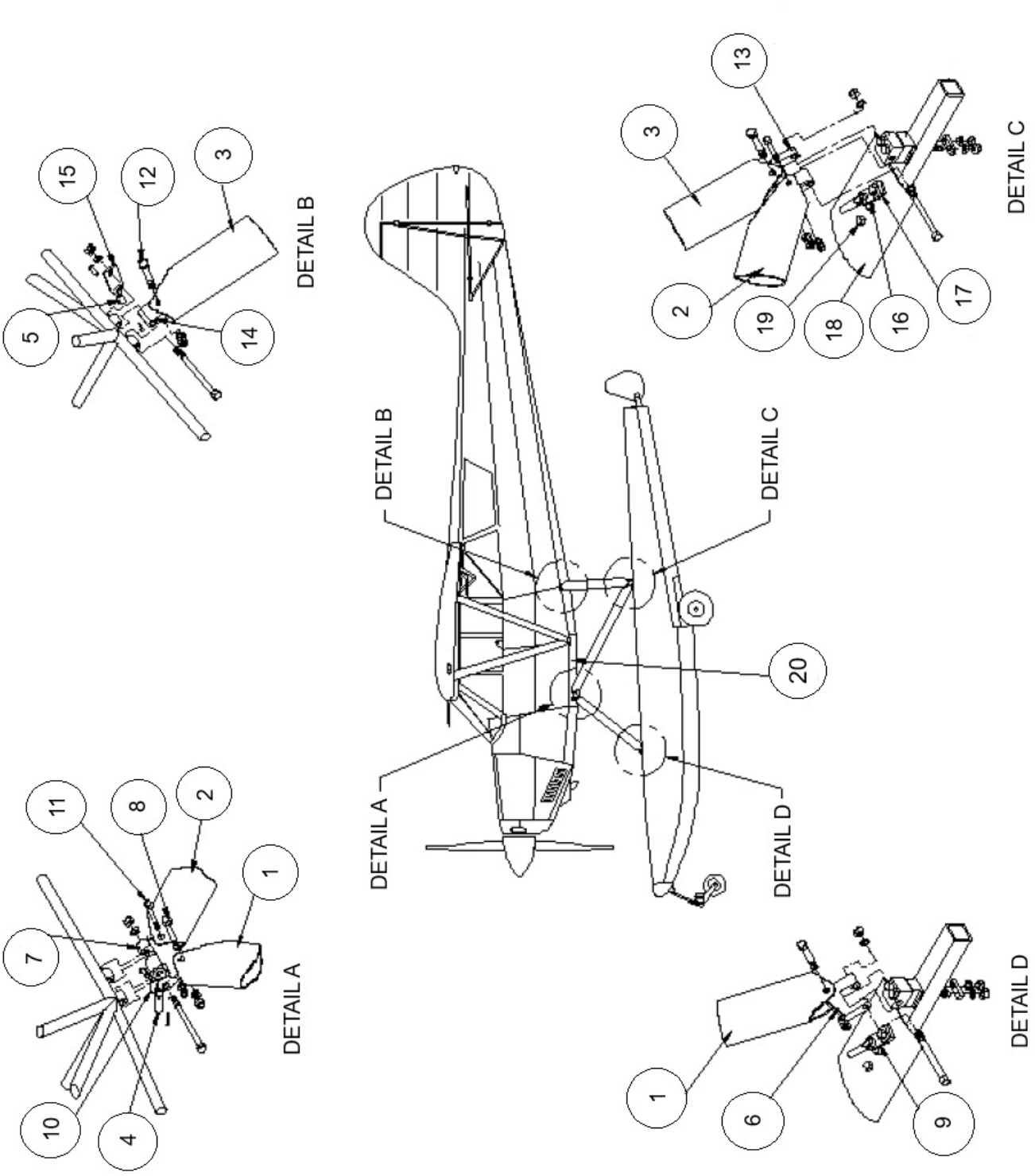
SECTION 9

STRUTS, WIRES, STEPS, & SPREADER BARS

CONTENTS

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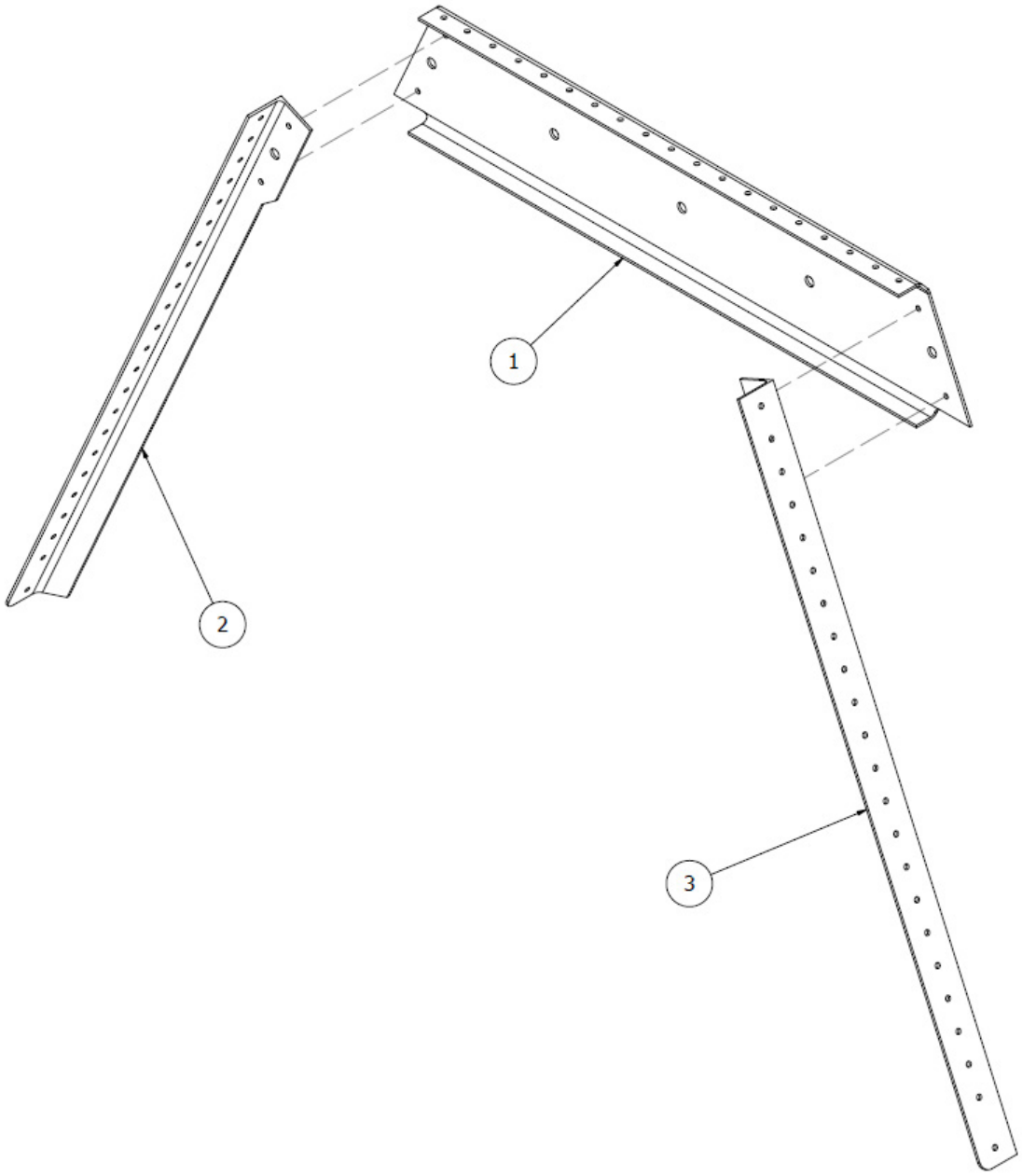
STRUTS, WIRES & SPREADER BARS



ITEM	QTY	PART NO.	PART DESCRIPTION
1	2	21A02000-222	ASSY, STRUT, FWD, RH, HUSKY
	2	21A02000-223	ASSY, STRUT, FWD, LH, HUSKY
2	2	21A02000-224	ASSEMBLY, STRUT, CENTER, HUSKY
3	2	21A02000-225	ASSEMBLY, STRUT, REAR, HUSKY
4	**2**	**21A02000-135**	**ASS'Y-DRAG WIRE-FWD**
	1	AN705AC-5150	WIRE
	1	AN665-46LS	CLEVIS L.
	1	AN665-46RS	CLEVIS R.
	1	AN316-C5L	CHECK NUT L.
	1	AN316-C5R	CHECK NUT R.
	2	MS20392-4C17	PIN-CLEVIS
	2	MS24665-152	PIN-COTTER
5	**-**	**21A02000-134**	**ASS'Y-DRAG WIRE-AFT (A-1, A1A)**
	1	AN705AC-5000	WIRE
	1	AN665-46LS	CLEVIS L.
	1	AN665-46RS	CLEVIS R.
	1	AN316-C5L	CHECK NUT L.
	1	AN316-C5R	CHECK NUT R.
	2	MS20392-4C17	PIN-CLEVIS
	2	MS24665-152	PIN-COTTER
	-	**21A02000-164**	**ASS'Y-DRAG WIRE-AFT (A-1B, A-1C)**
	1	AN706AC-4800	WIRE
	1	AN665-80LAS	CLEVIS L.
	1	AN665-80RAS	CLEVIS R.
	1	AN316-C6L	CHECK NUT L.
	1	AN316-C6R	CHECK NUT R.
	2	MS20392-5C21	PIN-CLEVIS
	2	MS24665-301	PIN-COTTER
	-	**21A02000-165**	**ASS'Y-DRAG WIRE-AFT (A-1B, A-1C)**
	1	AN705AC-5000	WIRE
	1	AN665-61LS	CLEVIS L.
	1	AN665-61RS	CLEVIS R.
	1	AN316-C5L	CHECK NUT L.
	1	AN316-C5R	CHEK NUT R.
	2	MS20392-5C19	PIN-CLEVIS
	2	MS24665-301	PIN-COTTER
6	2	21A02062-007	FITTING – LOWER FRONT STRUT
	2	AN6-33A	BOLT, 3/8-24 THREAD, 2-13/16" GRIP, 3-29/64 LENGTH
	2	NAS1149D0663J	WASHER, 0.39 ID, 0.063 THK, ALUMINUM
	2	MS21044N6	NUT, LOCKING, REGULAR HEIGHT, 3/8-24 UNF
7	1	21A02067-003	FITTING – UPPER FRONT STRUT L.

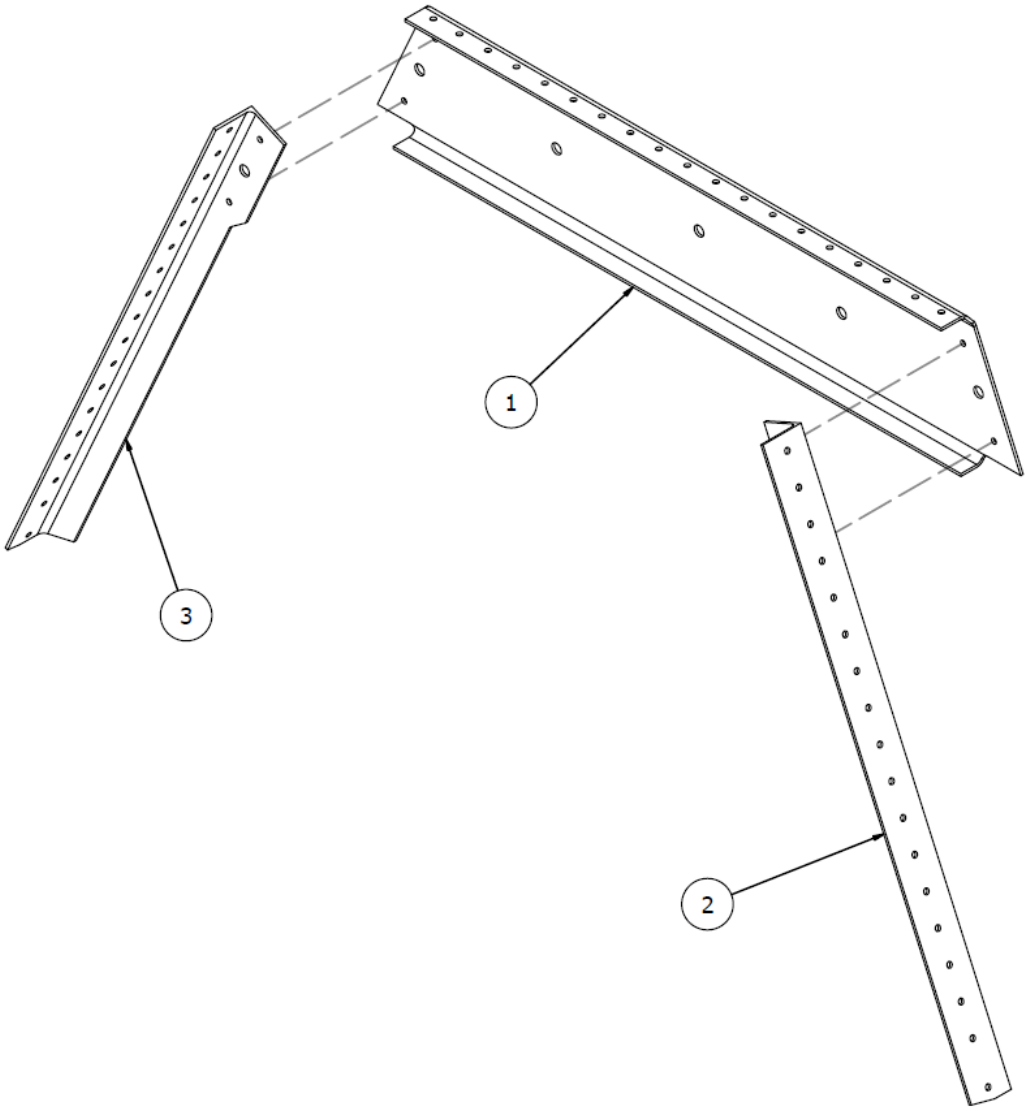
ITEM	QTY	PART NO.	PART DESCRIPTION
	1	21A02067-004	FITTING – UPPER FRONT STRUT R.
	2	AN6-45A	BOLT, 3/8-24 THREAD, 3-15/16" GRIP, 4-37/64 LENGTH
	2	NAS1149D0663J	WASHER, 0.39 ID, 0.063 THK, ALUMINUM
	2	MS21044N6	NUT, LOCKING, REGULAR HEIGHT, 3/8-24 UNF
8	4	AN6-20A	BOLT, 3/8-24, 1.438 GRIP, UNDRILLED, STEEL
	4	NAS1149D0663J	WASHER, 0.39 ID, 0.063 THK, ALUMINUM
	4	MS21044N6	NUT, LOCKING, REGULAR HEIGHT, 3/8-24 UNF
9	2	21A02462-004	LUG – WIRE PULL – LOWER FWD
	2	AN6-25A	BOLT, 3/8-24, 2.0625 GRIP, UNDRILLED, STEEL
	4	NAS1149D0616J	WASHER, 0.39 ID, 0.016 THK, ALUMINUM
	2	MS21044N6	NUT, LOCKING, REGULAR HEIGHT, 3/8-24 UNF
10	2	21A02519-003	LUG – WIRE PULL UPPER FWD
11	4	AN5-17A	BOLT, 5/16-24, 1.4375 GRIP, UNDRILLED, STEEL
	4	NAS1149D0563J	WASHER, 0.328 ID, 0.063 THK, ALUMINUM
	4	MS21044N5	NUT, LOCKING, REGULAR HEIGHT, 5/16-24 UNF
12	4	AN6-17A	BOLT, 3/8-24, 1.3125 GRIP, UNDRILLED, STEEL
	4	NAS1149D0663J	WASHER, 0.39 ID, 0.063 THK, ALUMINUM
	4	MS21044N6	NUT, LOCKING, REGULAR HEIGHT, 3/8-24 UNF
13	1	21A02055-003	FITTING REAR STRUT LOWER L.
	1	21A02055-002	FITTING REAR STRUT LOWER R.
	2	AN6-36A	BOLT, 3/8-24 THREAD, 3-3/16" GRIP, 3-53/64 LENGTH
	4	NAS1149D0663J	WASHER, 0.39 ID, 0.063 THK, ALUMINUM
	2	MS21044N6	NUT, LOCKING, REGULAR HEIGHT, 3/8-24 UNF
14	2	21A02062-008	FITTING REAR STRUT UPPER
	2	AN6-35A	BOLT, 3/8-24 THREAD, 3-1/16" GRIP, 3-45/64 LENGTH
	4	NAS1149D0663J	WASHER, 0.39 ID, 0.063 THK, ALUMINUM
	2	MS21044N6	NUT, LOCKING, REGULAR HEIGHT, 3/8-24 UNF
15	2	21A02519-004	LUG – WIRE PULL – UPPER REAR
16	2	21A02519-005	LUG – WIRE PULL – LOWER REAR
	2	AN6-27A	BOLT, 3/8-24, 2.3125 GRIP, UNDRILLED, STEEL
	4	NAS1149D0663J	WASHER, 0.39 ID, 0.063 THK, ALUMINUM
	2	MS21044N6	NUT, LOCKING, REGULAR HEIGHT, 3/8-24 UNF
17	2	21A02154-008	WASHER – REAR WIRE PULL
18	2	21A03356-047	SPREADER BAR
19	8	AN5-24A	BOLT, 5/16-24 THREAD, 2-1/16" GRIP, 2-19/32" LENGTH
	8	NAS1149D0516J	WASHER, 0.328 ID, 0.016 THK, ALUMINUM
	8	NAS1149D0563J	WASHER, 0.328 ID, 0.063 THK, ALUMINUM
	8	MS21044N5	NUT, LOCKING, REGULAR HEIGHT, 5/16-24 UNF
20	1	21A12010-014	BELLY COVER – CENTER
	3	21A12010-015	BELLY ENCLOSURE
	1	21A12010-016	FLY WIRE ENCLOSURE
	1	21A12010-017	FLY WIRE ENCLOSURE

FWD SPREADER BAR SUPPORT PANEL ASSEMBLY



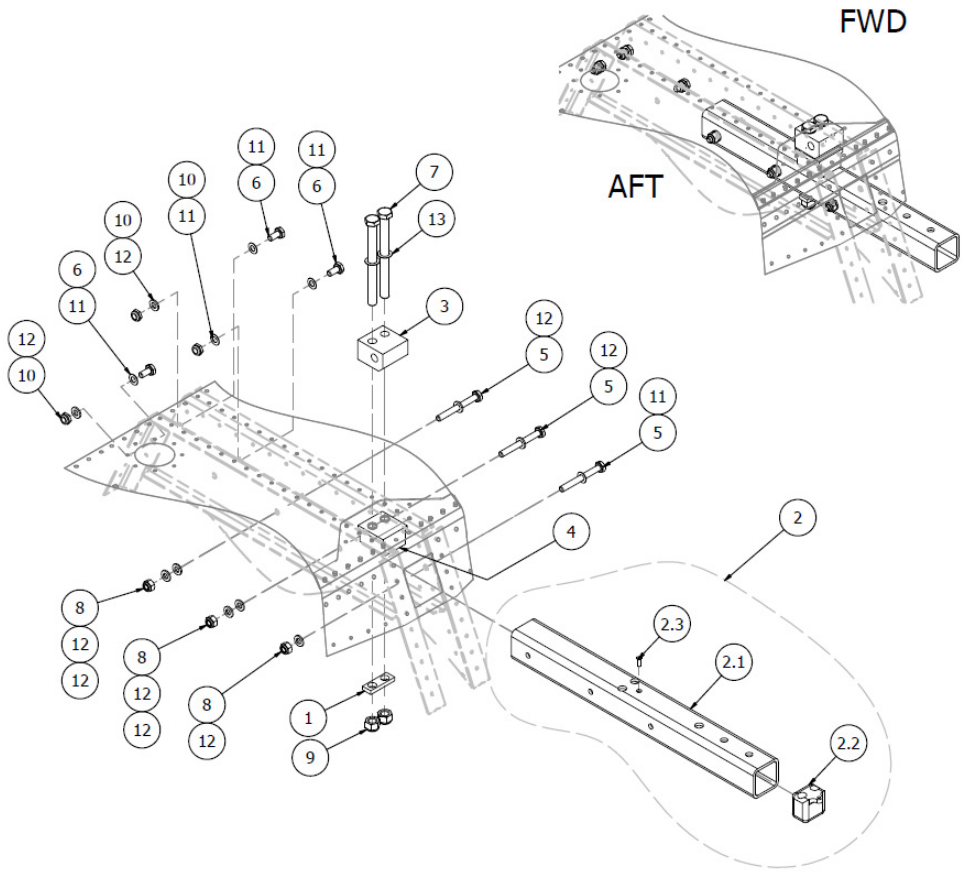
ITEM	QTY	PART NO.	PART DESCRIPTION
-	1	21A01000-260	ASSEMBLY, SPREADER BAR SUPPORT PANEL, FWD, 2100
1	1	21A01163-065	PANEL, SUPPORT, SPREADER BAR
2	1	21A01326-013	ANGLE, SPREADER BAR SUPPORT PANEL, LH
3	1	21A01326-014	ANGLE, SPREADER BAR SUPPORT PANEL, RH

AFT SPREADER BAR SUPPORT PANEL ASSEMBLY



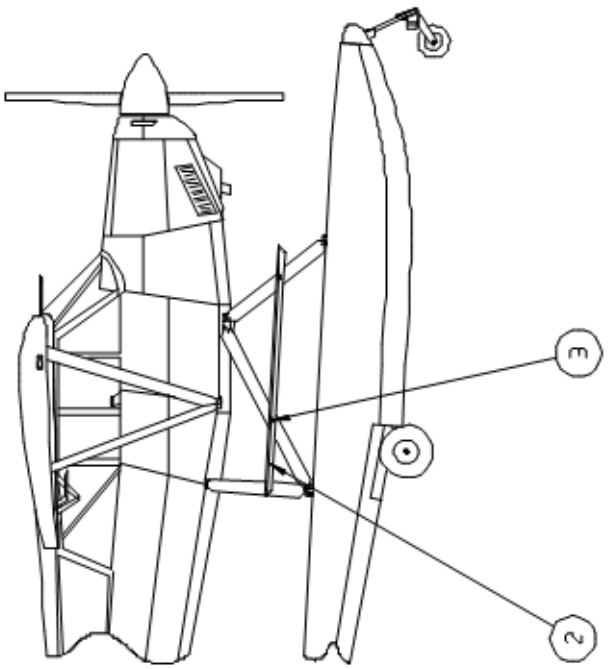
ITEM	QTY	PART NO.	PART DESCRIPTION
-	1	21A01000-259	ASSEMBLY, SPREADER BAR SUPPORT PANEL, AFT
1	1	21A01163-065	PANEL, SUPPORT, SPREADER BAR
2	1	21A01326-009	ANGLE, SPREADER BAR SUPPORT PANEL, RH
3	1	21A01326-010	ANGLE, SPREADER BAR SUPPORT PANEL, LH

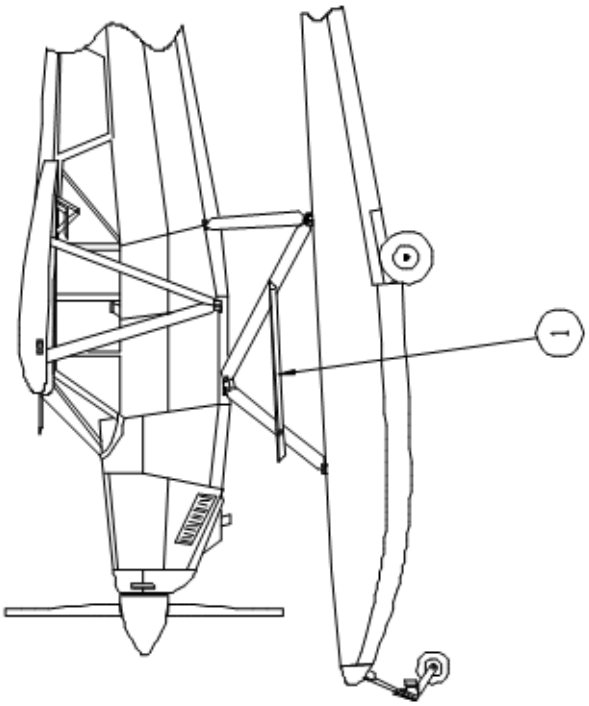
SPREADER BAR TUBE MOUNTING



ITEM	QTY	PART NO.	PART DESCRIPTION
1	1	1002009	CLAMP BLOCK, SPREADER BAR
2	1	1012630	ASSEMBLY, TUBE, SPREADER BAR, MOUNTING
2.1	1	21A03115-001	TUBE, SPREADER BAR, MOUNTING
2.2	1	1002012	INSERT, TUBE REINFORCEMENT, SPREADER BAR
2.3	1	CR3212-4-5	RIVET, CHERRY MAX, COUNTERSUNK, 1/8 DIA , 5/16 GRIP
3	1	21A03032-006	FITTING, DECK, STRUT
4	1	21A03214-003	SPACER
5	3	AN4-22A	BOLT, 1/4-28, 1.8125 GRIP, UNDRILLED, STEEL
6	3	AN4-4A	BOLT, 1/4-28, 0.0625 GRIP, UNDRILLED, STEEL
7	2	AN6-41A	BOLT, 3/8-24, 3.5625 GRIP, UNDRILLED, STEEL
8	3	MS21044N4	NUT, LOCKING, REGULAR HEIGHT, 1/4-28 UNF
9	2	MS21044N6	NUT, LOCKING, REGULAR HEIGHT, 3/8-24 UNF
10	3	MS21083N4	NUT, LOCKING, LOW HEIGHT, 1/4-28 UNF
11	5	NAS1149D0416J	WASHER, 0.265 ID, 0.016 THK, ALUMINUM
12	9	NAS1149D0463J	WASHER, 0.265 ID, 0.063 THK, ALUMINUM
13	2	NAS1149F0616P	WASHER, 0.39 ID, 0.016 THK, STEEL

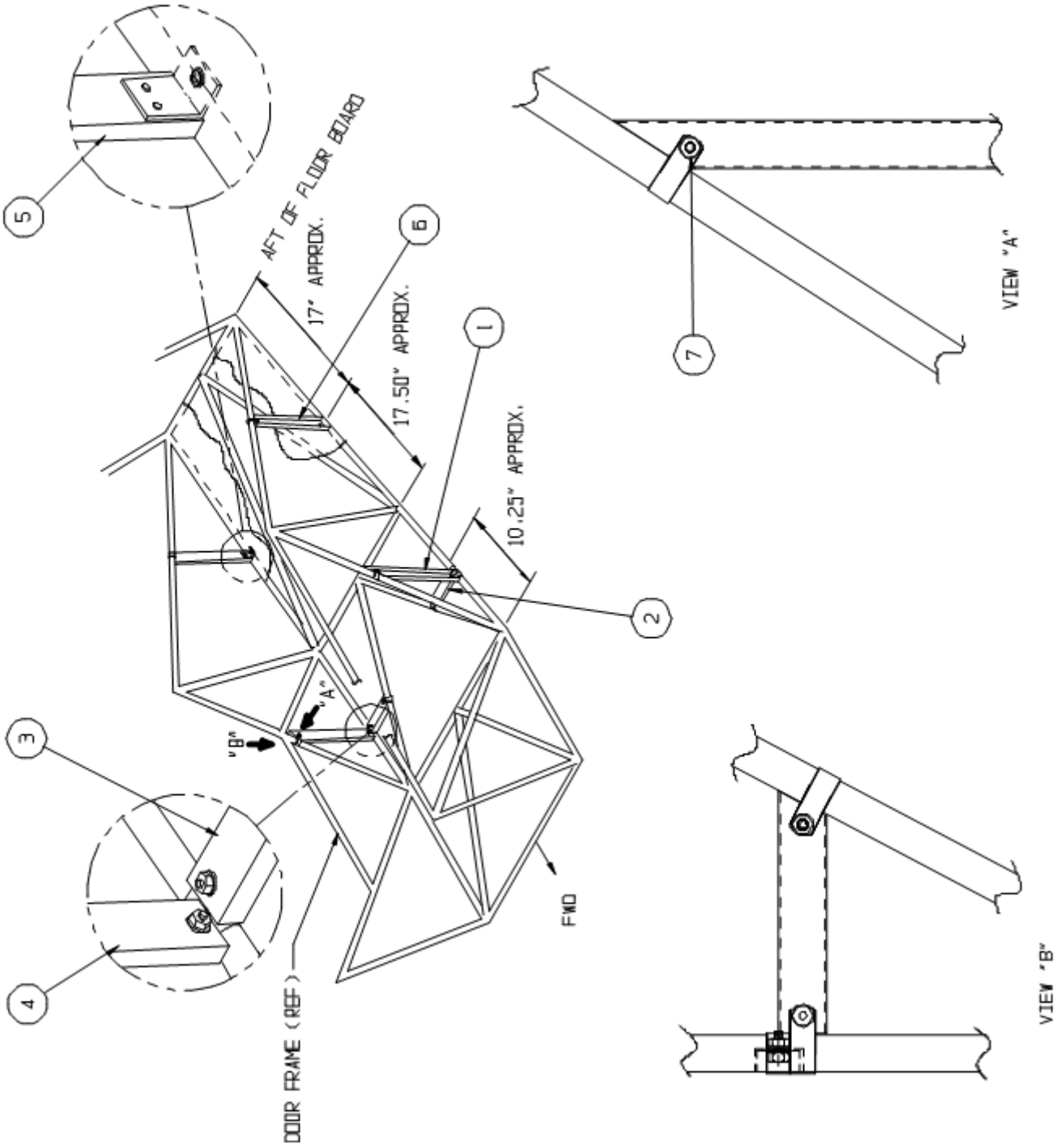
FUSELAGE STEPS INSTALLATION





ITEM	QTY	PART NO.	PART DESCRIPTION
1	1	21A02369-055	STEP - LEFT
	1	1002038	STEP, BOARDING, LEFT (OPTIONAL)
2	1	21A02369-053	STEP – RIGHT
3	4	AN3-20A	BOLT, 10-32, 1.625 GRIP, UNDRILLED, STEEL
	10	NAS1149D0316J	WASHER, 0.203 ID, 0.016 THK, ALUMINUM
	5	MS21044N 3	NUT, LOCKING, REGULAR HEIGHT, 10-32 UNF
	5	BPF	HOLE PLUG
	1	6A02273-006	SPACER (BETWEEN STEP AND R CENTER STRUT)
	1	AN3-22A	BOLT, 10-32, 1.875 GRIP (STEP ATTACH R. CENTER)

FUSELAGE MODIFICATION INSTALLATION



ITEM	QTY	PART NO.	PART DESCRIPTION
1	1	21A12008-145	REINFORCEMENT, FUSELAGE, LEFT, HUSKY
2	1	21A12008-143	REINFORCEMENT, FUSELAGE, LEFT, HUSKY
3	1	21A12008-144	REINFORCEMENT, FUSELAGE, RIGHT, HUSKY
4	1	21A12008-146	REINFORCEMENT, FUSELAGE, RIGHT, HUSKY
5	1	21A12000-040	ASSEMBLY, REINFORCEMENT, FUSELAGE, RIGHT
6	1	21A12000-039	ASSEMBLY, REINFORCEMENT, FUSELAGE, LEFT
7	10	AN742D10	CLAMP
	10	AN3-4A	BOLT, 10-32, 0.125 GRIP, UNDRILLED, STEEL
	20	NAS1149D0363J	WASHER, 0.203 ID, 0.063 THK, ALUMINUM
	10	MS21044N3	NUT, LOCKING, REGULAR HEIGHT, 10-32 UNF

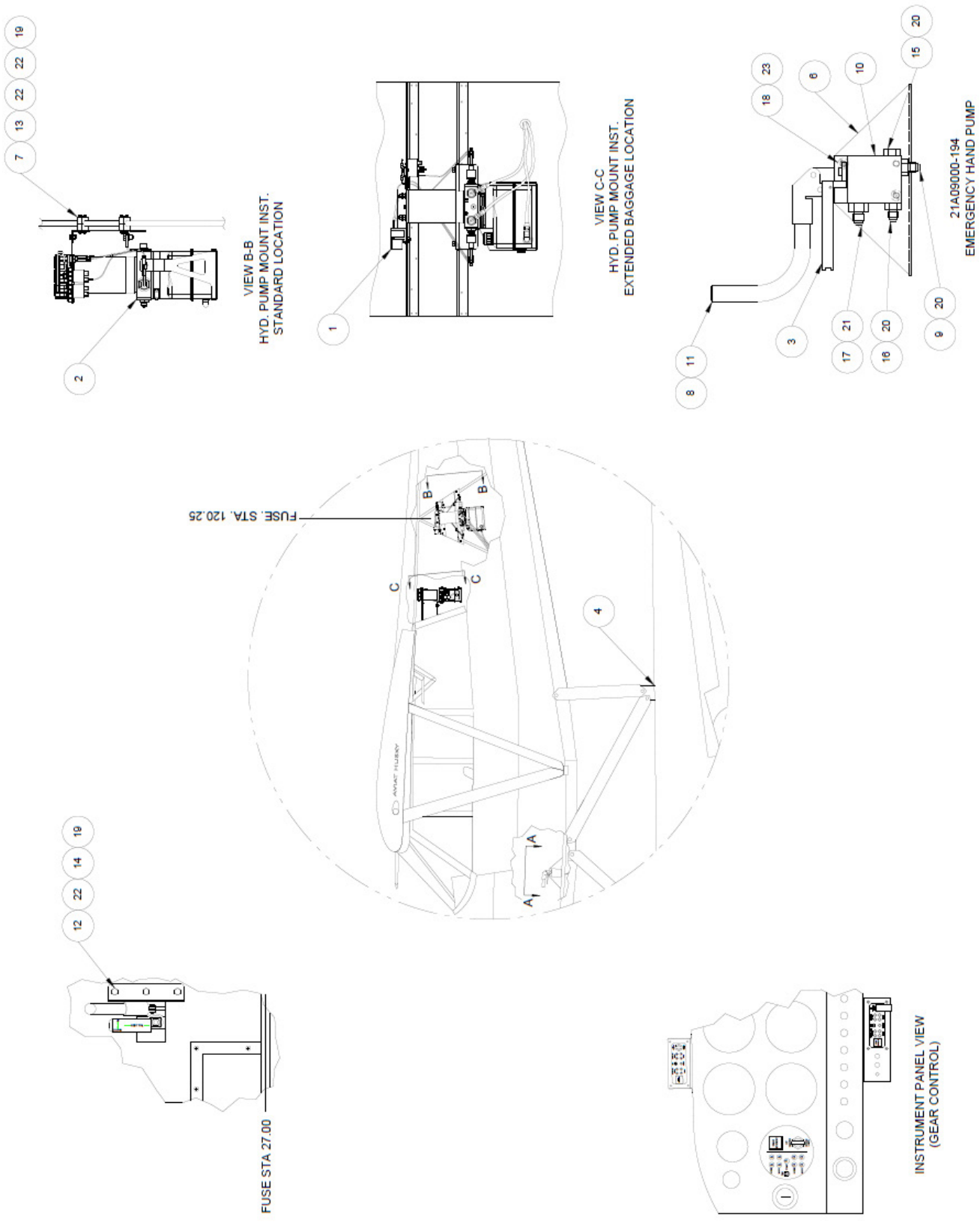
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SECTION 10
HYDRAULIC SYSTEM

CONTENTS

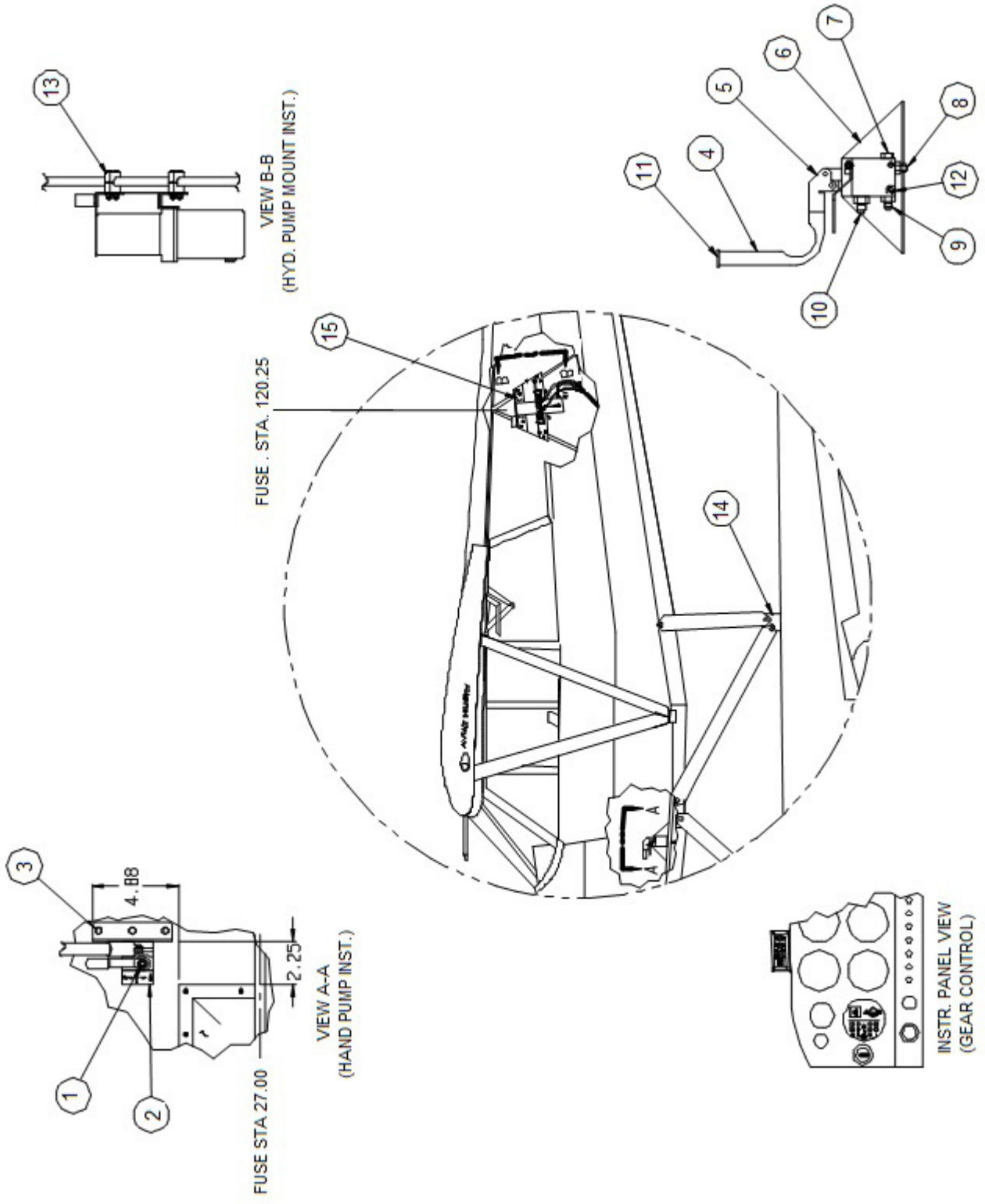
HYDRAULIC SYSTEM INSTALLATION POST SERVICE LETTER 220 100
HYDRAULIC SYSTEM INSTALLATION PRE SERVICE LETTER 220 102
HYDRAULIC PUMP ASSEMBLY (STANDARD LOCATION) POST SERVICE LETTER 220 104
HYDRAULIC PUMP ASSEMBLY (STANDARD LOCATION) PRE SERVICE LETTER 220 107
HYDRAULIC PUMP ASSEMBLY (EXTENDED BAGGAGE) POST SERVICE LETTER 220 109
HYDRAULIC PUMP SUPPORT PLATE ASSEMBLY, 12V POST SERVICE LETTER 220 112
HYDRAULIC PUMP ASSEMBLY (WITH BAGGAGE EXTENSION) PRE SERVICE LETTER 220 114
HYDRAULIC PUMP OVERVIEW POST SERVICE LETTER 220 117
HYDRAULIC PUMP OVERVIEW PRE SERVICE LETTER 220 119
HYDRAULIC SCHEMATIC 121

HYDRAULIC SYSTEM INSTALLATION POST SERVICE LETTER 220



ITEM	QTY	PART NO.	PART DESCRIPTION
1	1	1011541	ASSEMBLY, HYDRAULIC POWER PACK, EXTENDED BAGGAGE
2	1	1011543	ASSEMBLY, HYDRAULIC POWER PACK, STANDARD LOCATION
3	1	12A3-7379-1	PLACARD, EMERGENCY HAND PUMP
4	2	21A04000-080	ASSEMBLY, HOSE, TOP DECK FLOAT TO FUSELAGE, BRAKES
5	1	21A09000-194	ASSEMBLY, HAND PUMP
6	1	21A09156-129	BRACKET, PUMP ATTACH
7	8	21A09215-002	CLAMP, MOUNTING
8	1	21A09396-001	HANDLE, HAND PUMP
9	1	21A09746-001	UNION
10	1	642873	HAND PUMP (ONLY)
11	1	9283K13	CAP PLUG
12	3	AN3-6A	BOLT, 10-32, 0.375 GRIP, UNDRILLED, STEEL
13	8	AN3-14A	BOLT, 10-32 THREAD, 1-1/8" GRIP, 1-17/32" LENGTH
14	3	AN970-3	WASHER, .203ID, .875OD, .063 THK
15	1	AN814-4D	PLUG
16	1	AN815-4D	UNION
17	1	AN919-6D	UNION
18	2	MS16997-77	SOCKET HEAD CAP SCREW
19	11	MS21044N3	NUT, LOCKING, REGULAR HEIGHT, 10-32 UNF
20	3	MS28775-012	O-RING, HYDRAULIC PACKING, .364 ID
21	1	MS28775-014	O-RING, HYDRAULIC PACKING, .489 ID
22	19	NAS1149F0363P	WASHER, 0.203 ID, 0.063 THK, STEEL
23	2	NAS1149F0563P	WASHER, 0.328 ID, 0.063 THK, STEEL

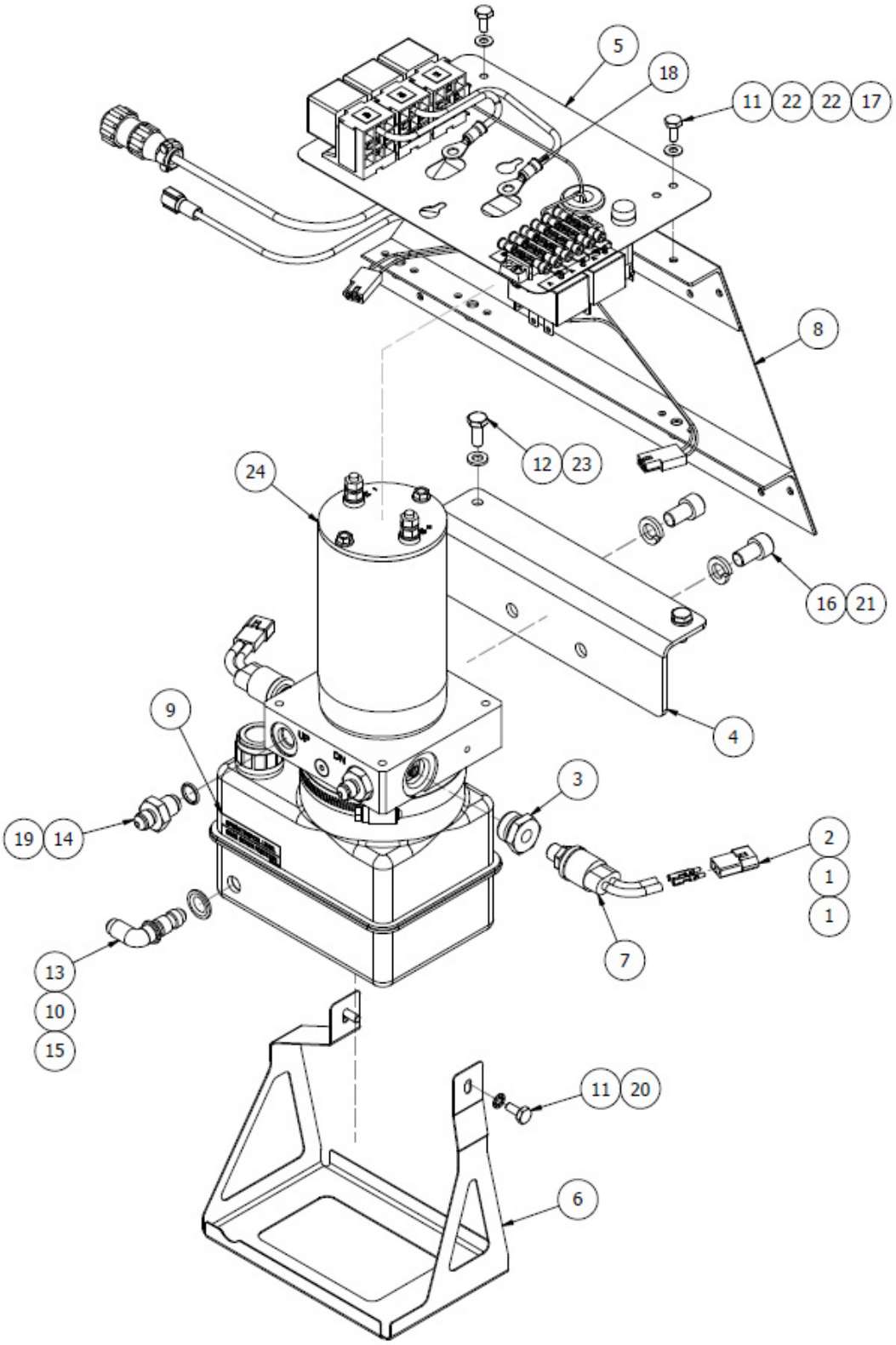
HYDRAULIC SYSTEM INSTALLATION PRE SERVICE LETTER 220

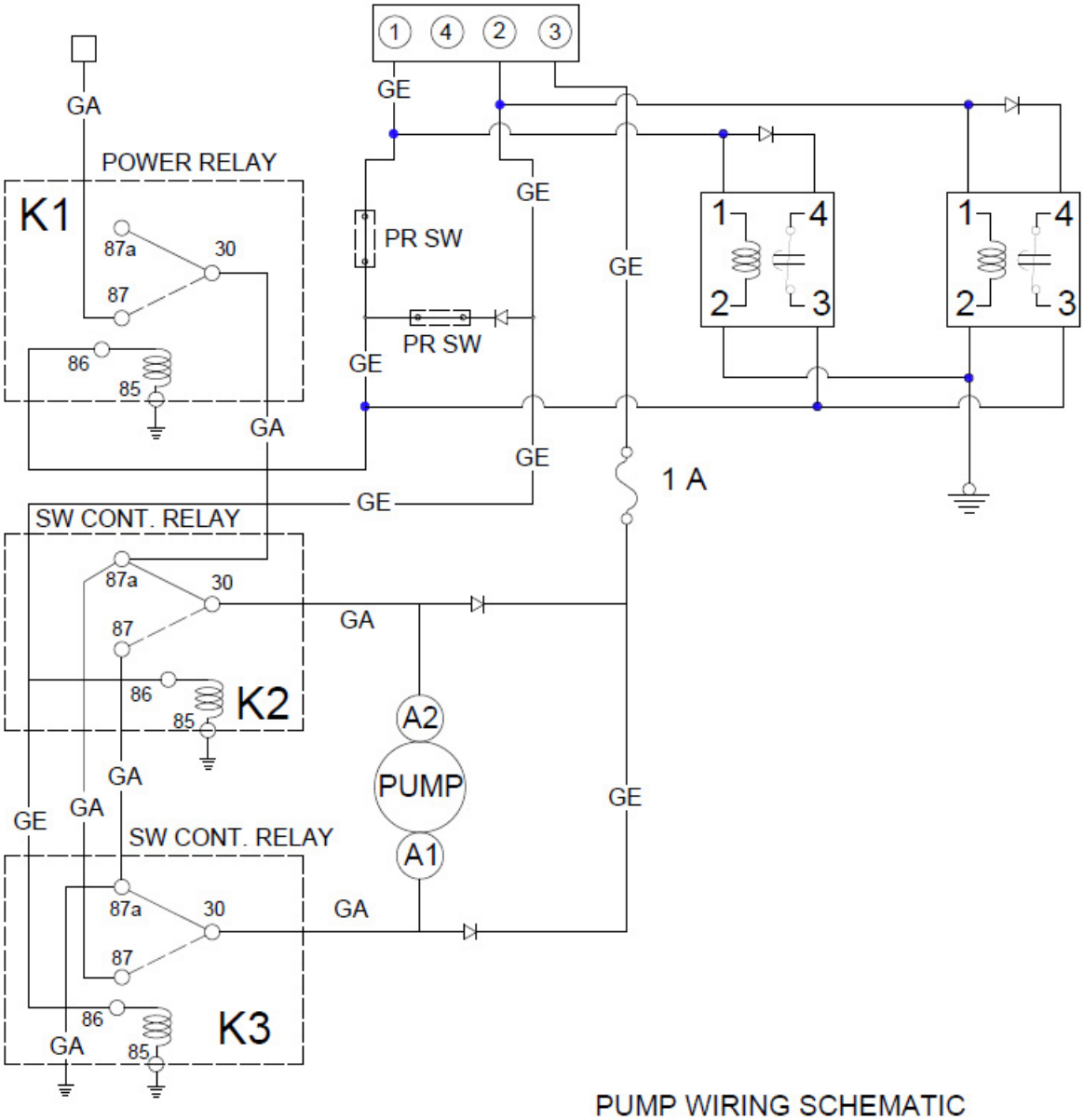


ITEM	QTY	PART NO.	PART DESCRIPTION
1	1	21A09000-194	ASS'Y - HAND PUMP
2	1	12A3-7379-1	PLACARD
3	3	AN3-6A	BOLT, 10-32, 0.375 GRIP, UNDRILLED, STEEL
	3	AN970-3	WASHER, .203 ID, .875 OD, .063 THK
	3	NAS1149F0363P	WASHER, 0.203 ID, 0.063 THK, STEEL
	3	MS21044N3	NUT, LOCKING, REGULAR HEIGHT, 10-32 UNF
4	1	21A09396-001	HANDLE
5	1	642873	HAND PUMP (ONLY)
6	1	21A09156-129	BRACKET – PUMP ATTACH
7	1	AN814-4D	PLUG
	1	MS28775-012	O RING, HYDRAULIC PACKING, .364 ID
8	1	21A09746-001	UNION
	1	MS28775-012	O RING, HYDRAULIC PACKING, .364 ID
9	1	21A09746-001	UNION
	1	MS28775-012	O RING, HYDRAULIC PACKING, .364 ID
10	1	AN919-6D	UNION
	1	MS28775-014	"O" RING, HYDRAULIC
11	1	9283K13	CAP PLUG
12	2	MS16997-77	SOCKET HEAD CAP SCREW
	2	NAS1149F0563P	WASHER, 0.328 ID, 0.063 THK, STEEL
13	8	21A09215-002	CLAMP – MOUNTING
	8	AN3-14A	BOLT, 10-32 THREAD, 1-1/8" GRIP, 1-17/32" LENGTH
	16	NAS1149D0363J	WASHER, 0.203 ID, 0.063 THK, ALUMINUM
	8	MS21044N3	NUT, LOCKING, REGULAR HEIGHT, 10-32 UNF
14	2	21A04000-080	TOP DECK FLOAT TO FUS., BRAKE (NOT SHOWN)
	2	63-190600-3	FITTING, AERO QUIP HOSE #3
15	1	21A09000-195	ASSEMBLY, HYDRAULIC POWER PACK, HUSKY (SEE DETAIL)

HYDRAULIC PUMP ASSEMBLY (STANDARD LOCATION)

POST SERVICE LETTER 220





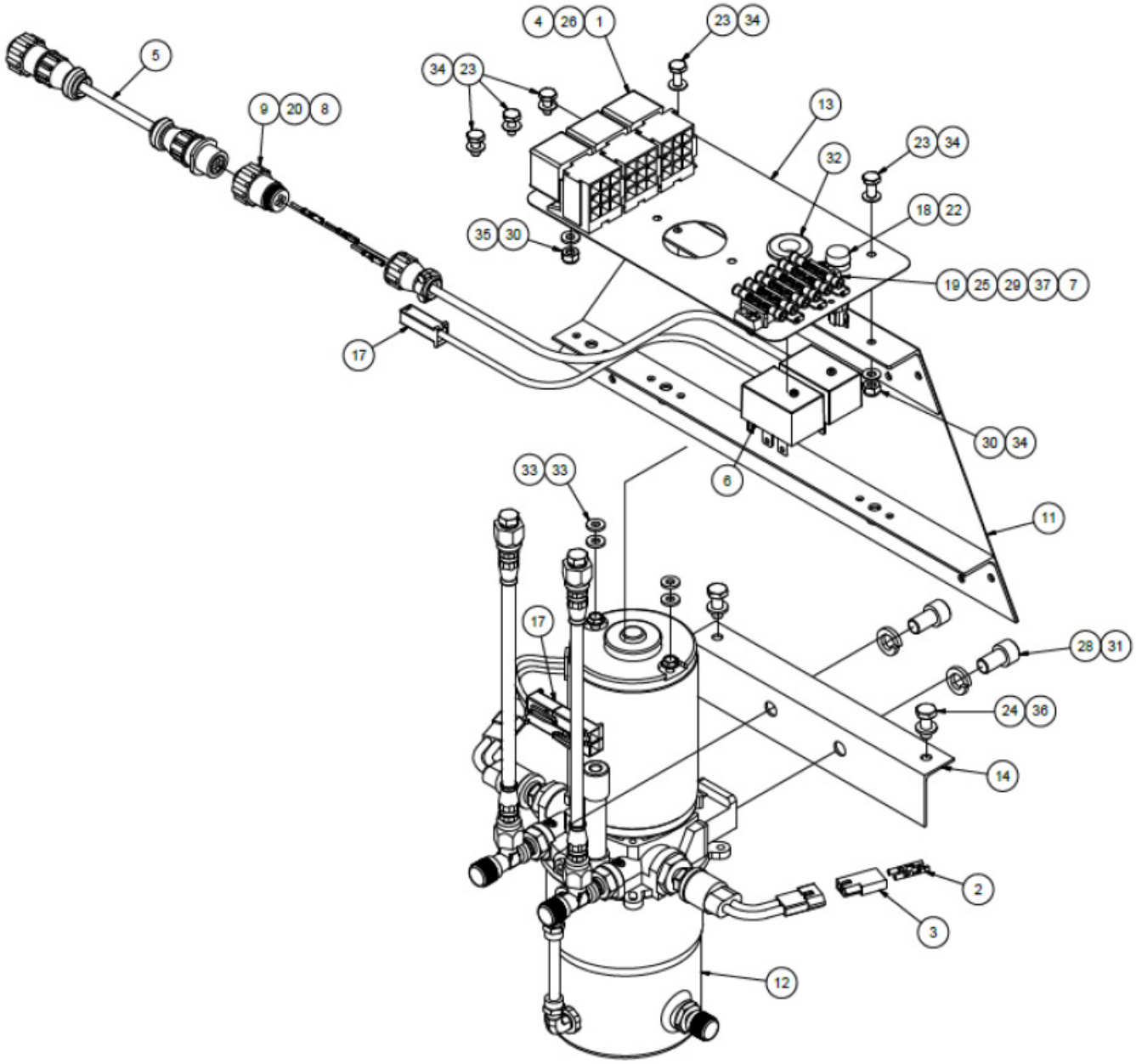
PUMP WIRING SCHEMATIC
(RELAYS SHOWN IN RELAXED CONDITION)
1. GE WIRES 20 GA
2. GA WIRES 12 GA

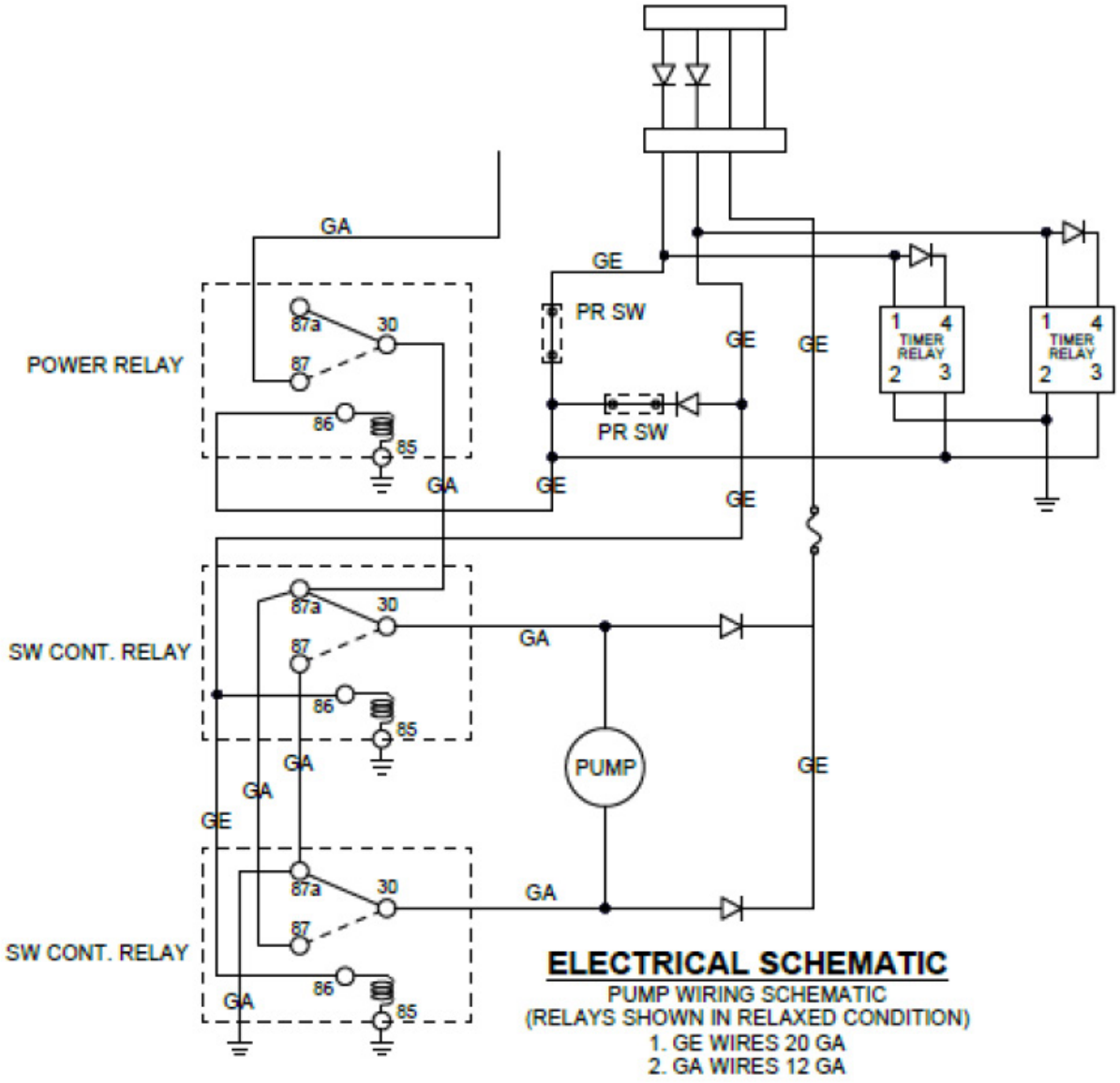
ITEM	QTY	PART NO.	PART DESCRIPTION
-	1	1011543	ASS'Y, HYDRAULIC POWER PACK, 12V STANDARD LOCATION
1	4	02-09-2118	PIN, CRIMP MALE, 1/8" DIA
2	2	03-09-2022	CONNECTOR PLUG, FEMALE
3	2	1011062	ASSEMBLY, PLUG, PRESSURE SWITCH PORT
4	1	1011447	ANGLE, MOUNT, LOWER
5	1	1011449	ASSEMBLY, SUPPORT PLATE, HYDRAULIC PUMP, 12V

ITEM	QTY	PART NO.	PART DESCRIPTION
6	1	1011542	SUPPORT, HYDRAULIC RESERVOIR, SIDE MOUNT
7	2	20PS001EB 700W500W	PRESSURE SWITCH
8	1	21A09000-196	ASSEMBLY, BRACKET, HYDRAULIC PUMP
9	1	6A3-2199	PLACARD, OIL LEVEL
10	1	93783A032	SEALING WASHER
11	4	AN3-3A	BOLT, 10-32, 0.0625 GRIP, UNDRILLED, STEEL
12	2	AN4-5A	BOLT, 1/4-28, 0.1875 GRIP, UNDRILLED, STEEL
13	1	AN833-4D	FITTING, HYDRAULIC, 90 DEGREE ELBOW
14	2	AN919-3D	FITTING, REDUCER
15	1	AN924-4D	JAM NUT
16	2	MS16997-96	SOCKET HEAD CAP SCREW
17	2	MS21044N3	NUT, LOCKING, REGULAR HEIGHT, 10-32 UNF
18	2	MS25036-157	RING TERNMINAL, #10 STUD, 10-12 AWG, YELLOW
19	2	MS28775-013	"O" RING, HYDRAULIC
20	2	MS35333-39	STAR WASHER
21	2	MS35338-46	WASHER, SPLIT
22	4	NAS1149F0332P	WASHER, 0.203 ID, 0.032 THK, STEEL
23	2	NAS1149F0463P	WASHER, 0.265 ID, 0.063 THK, STEEL
24	1	YBZS-C0.63W1T100K/ UVZOT2	HYDRAULIC POWER PACK, 12VDC, .64 PUMP

HYDRAULIC PUMP ASSEMBLY (STANDARD LOCATION)

PRE SERVICE LETTER 220

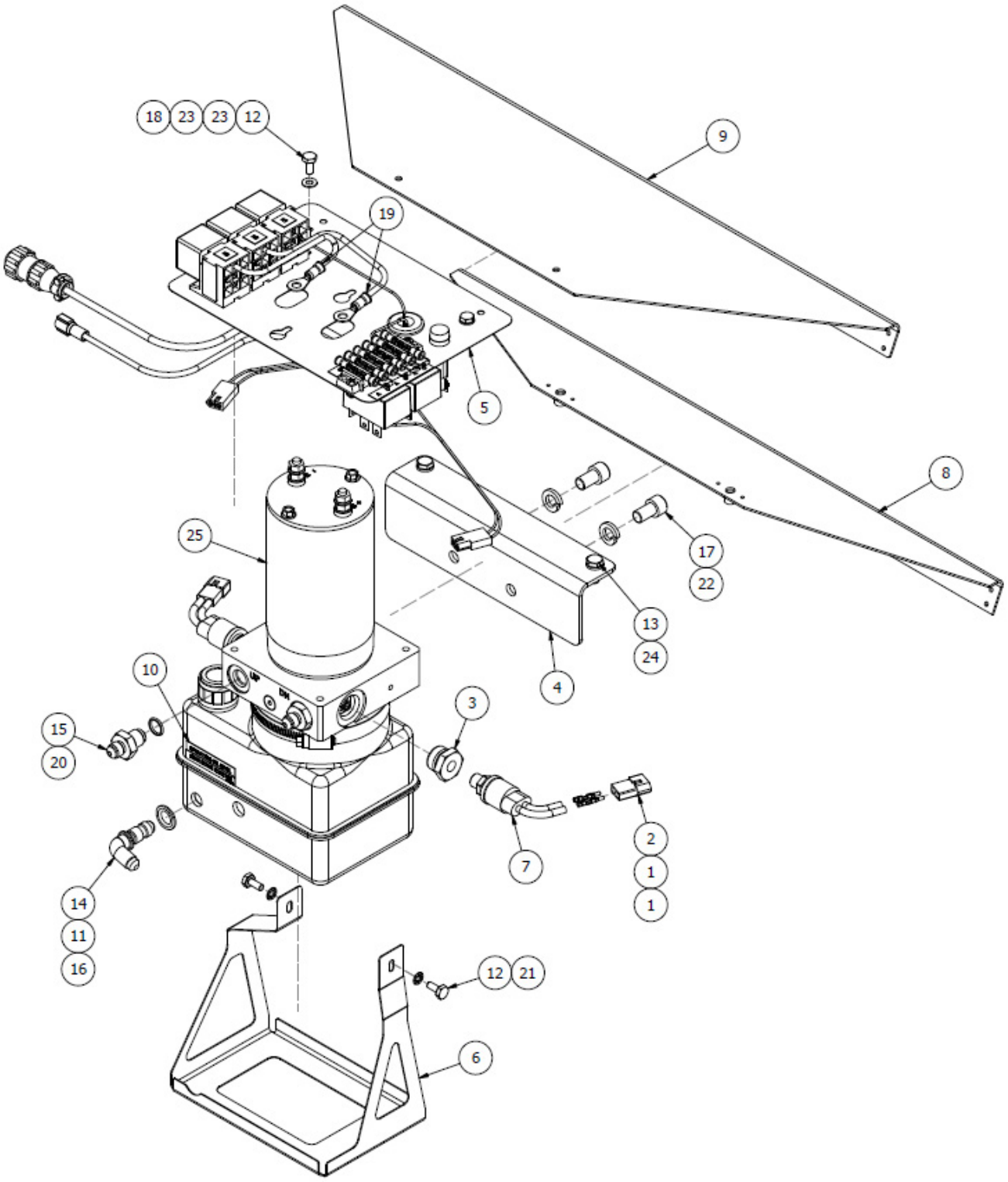


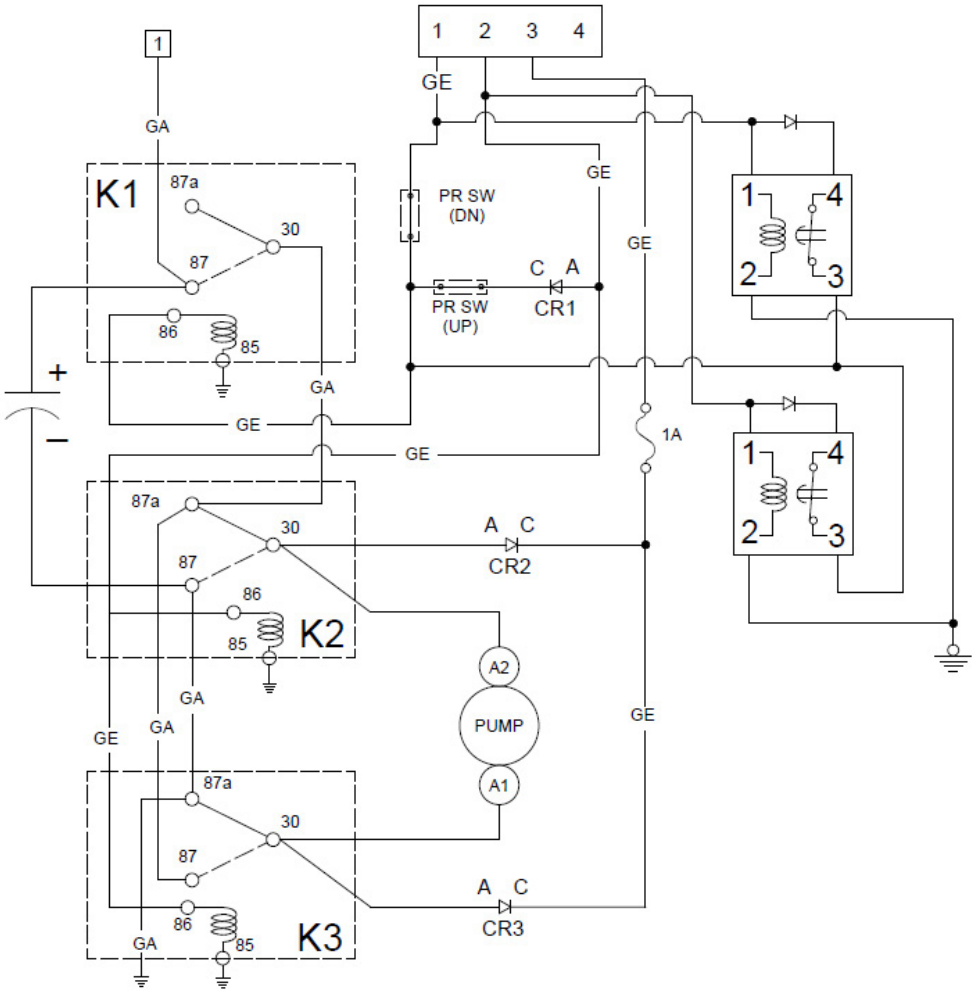


ITEM	QTY	PART NO.	PART DESCRIPTION
1	3	0-332-209-137	RELAY, 12V, 5 PRONG
2	4	02-09-1104	PIN, CRIMP FEMALE, 1/8" DIA
3	2	03-09-1022	CONNECTOR PLUG, MALE, 2 CONN.
4	14	1-901-355-917	TERMINAL
5	1	1004949	CABLE, DIODE ADAPTOR
6	1	1012411	ASSEMBLY, RELAY, TIME DELAY RELEASE, 6-48 VDC
7	3	1N4004	DIODE, 2-1/2"
8	2	206062-3	CLAMP, CABLE, CPC SIZE 11
9	1	206429-1	PLUG, MALE, CPC SIZE 1, 4 PIN
10	1	206430-2	CPC FREE HANG, 4 PIN, FEMALE
11	1	21A09000-196	ASSEMBLY, BRACKET, HYDRAULIC PUMP

HYDRAULIC PUMP ASSEMBLY (EXTENDED BAGGAGE)

POST SERVICE LETTER 220





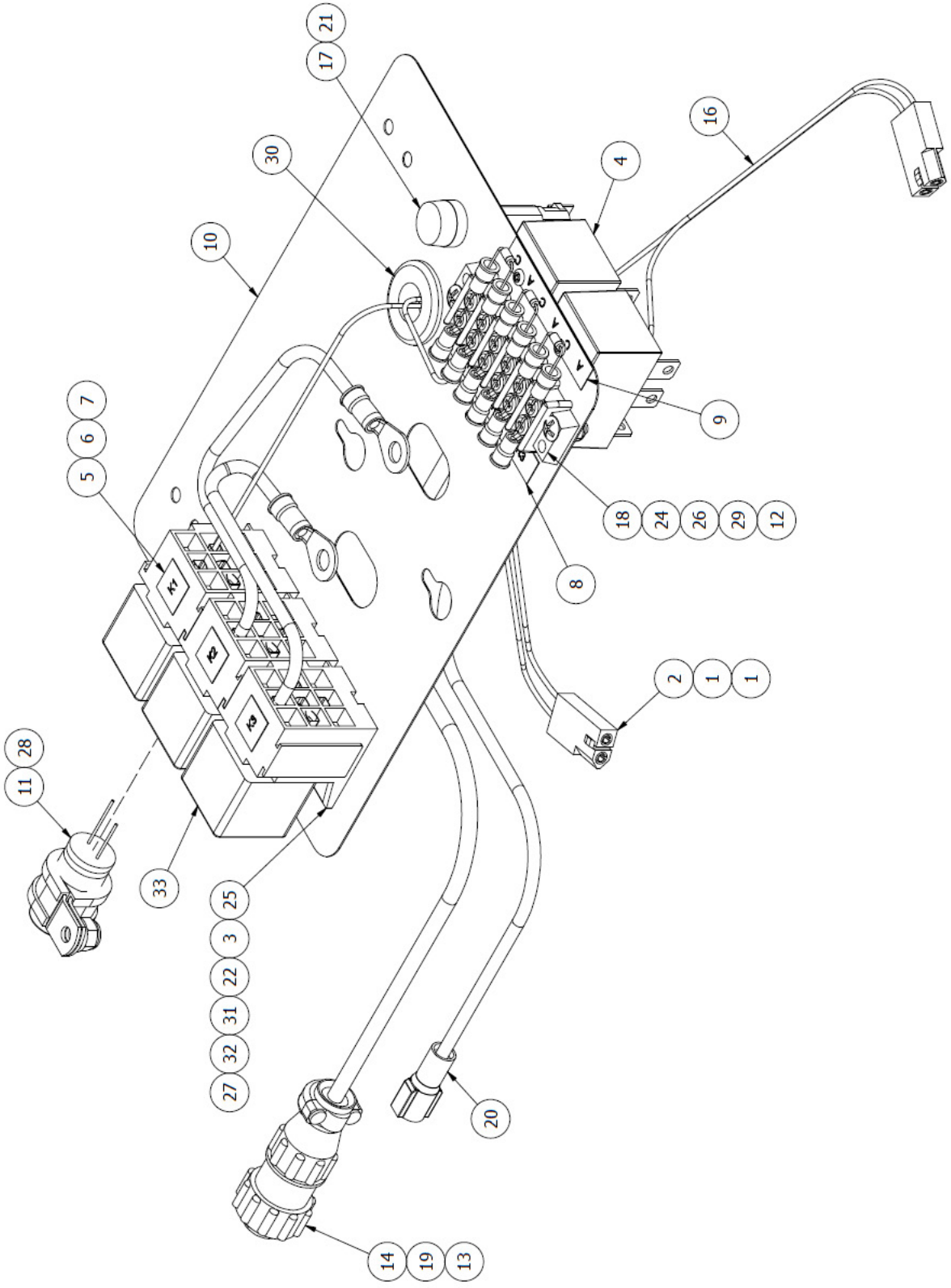
POWER PACK SCHEMATIC
(RELAYS SHOWN IN RELAXED CONDITION)
1. GE WIRES 20 GA
2. GA WIRES 12 GA

ITEM	QTY	PART NO.	PART DESCRIPTION
-	1	1011541	ASSEMBLY, HYDRAULIC POWER PACK, 12V EXTENDED BAGGAGE
1	4	02-09-2118	PIN, CRIMP MALE, 1/8" DIA
2	2	03-09-2022	CONNECTOR PLUG, FEMALE
3	2	1011062	ASSEMBLY, PLUG, PRESSURE SWITCH PORT
4	1	1011447	ANGLE, MOUNT, LOWER
5	1	1011449	ASSEMBLY, SUPPORT PLATE, HYDRAULIC PUMP, 12V
6	1	1011542	SUPPORT, HYDRAULIC RESERVOIR, SIDE MOUNT
7	2	20PS001EB 700W500W	PRESSURE SWITCH

ITEM	QTY	PART NO.	PART DESCRIPTION
8	1	21A09000-290	ASSY - ANGLE PUMP MT.
9	1	21A09163-095	ANGLE, UPPER, HYD PUMP MOUNT (HUSKY)
10	1	6A3-2199	PLACARD, OIL LEVEL
11	1	93783A032	SEALING WASHER
12	4	AN3-3A	BOLT, 10-32, 0.0625 GRIP, UNDRILLED, STEEL
13	2	AN4-5A	BOLT, 1/4-28, 0.1875 GRIP, UNDRILLED, STEEL
14	1	AN833-4D	FITTING, HYDRAULIC, 90 DEGREES ELBOW
15	2	AN919-3D	FITTING, REDUCER
16	1	AN924-4D	JAM NUT
17	2	MS16997-96	SOCKET HEAD CAP SCREW
18	2	MS21044N3	NUT, LOCKING, REGULAR HEIGHT, 10-32 UNF
19	2	MS25036-157	RING TERNMINAL, #10 STUD, 10-12 AWG, YELLOW
20	2	MS28775-013	"O" RING, HYDRAULIC
21	2	MS35333-39	STAR WASHER
22	2	MS35338-46	WASHER, SPLIT
23	4	NAS1149F0332P	WASHER, 0.203 ID, 0.032 THK, STEEL
24	2	NAS1149F0463P	WASHER, 0.265 ID, 0.063 THK, STEEL
25	1	YBZS-C0.63W1T100K/UVZOT2	HYDRAULIC POWER PACK, 12VDC, .64 PUMP

HYDRAULIC PUMP SUPPORT PLATE ASSEMBLY, 12V

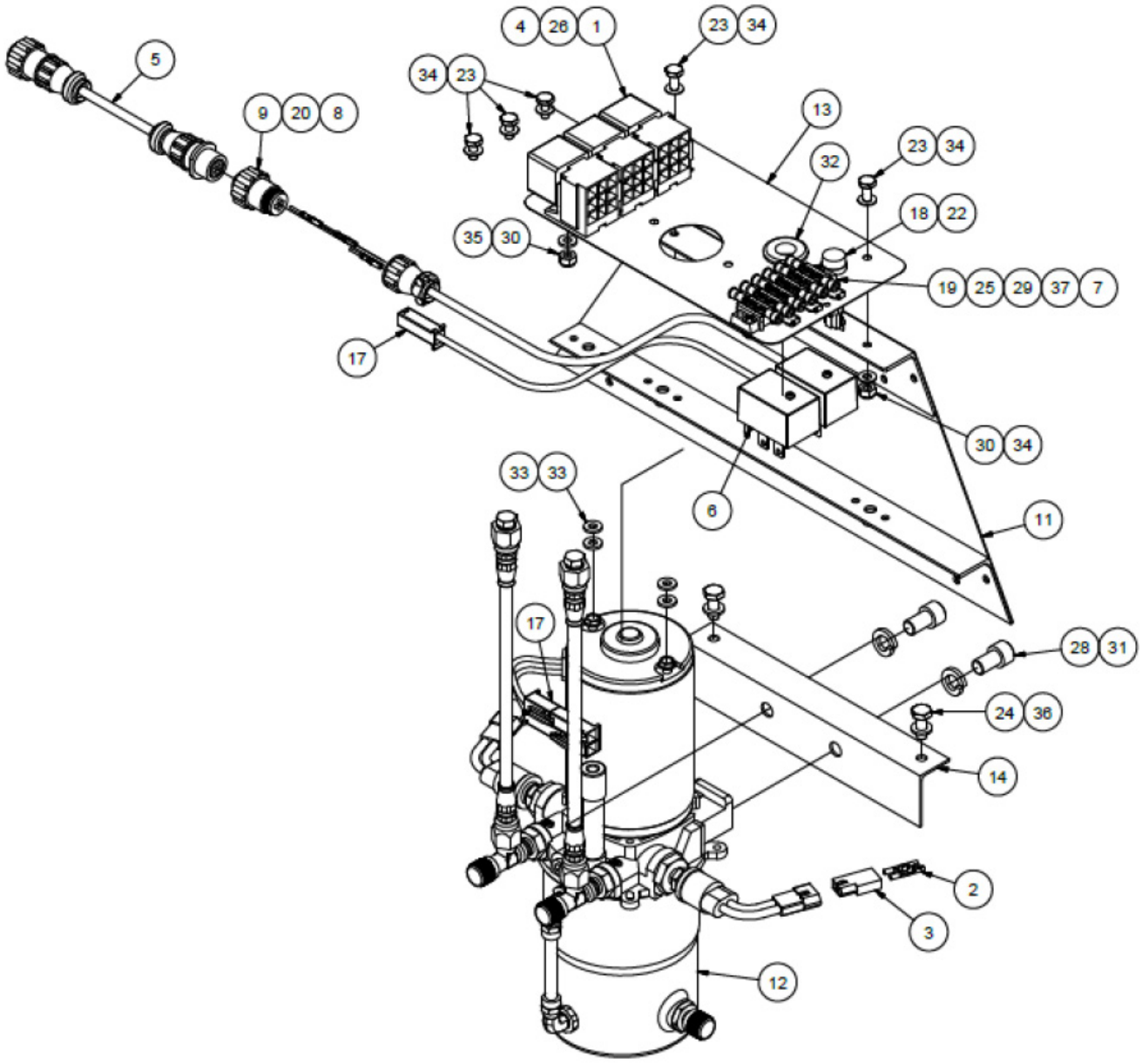
POST SERVICE LETTER 220

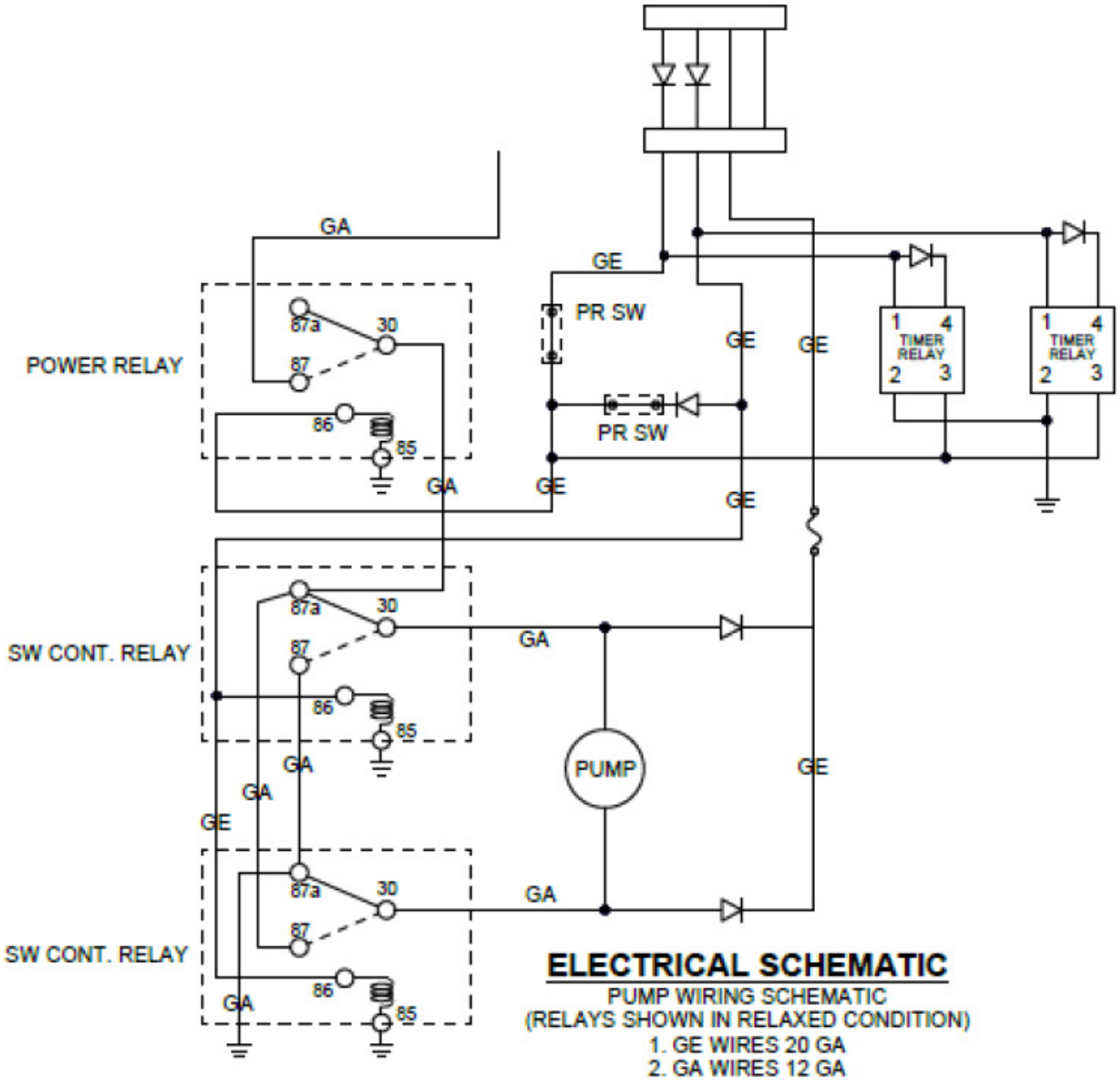


ITEM	QTY	PART NO.	PART DESCRIPTION
-	1	1011449	ASSEMBLY, SUPPORT PLATE, HYDRAULIC PUMP, 12V
1	4	02-09-1104	PIN, CRIMP FEMALE, 1/8" DIA
2	2	03-09-1022	CONNECTOR PLUG, MALE, 2 CONN.
3	14	1-901-355-917	TERMINAL
4	1	1012411	ASSEMBLY, RELAY, TIME DELAY RELEASE, 6-48 VDC
5	1	1009143-01	PLACARD, K1 INDICATOR
6	1	1009143-02	PLACARD, K2 INDICATOR
7	1	1009143-03	PLACARD, K3 INDICATOR
8	1	1009144-01	PLACARD, CR INDICATOR
9	1	1009144-02	PLACARD, AC INDICATOR
10	1	1011448	TOP PLATE, HYDRAULIC PUMP
11	1	1011798	ASSEMBLY, CAPACITOR
12	3	1N4004	DIODE, 2-1/2"
13	1	206062-3	CLAMP, CABLE, CPC SIZE 11
14	1	206429-1	PLUG, MAL, CPC SIZE 1, 4 PIN
15	6 FT	22759-16-12-9	WIRE, 12 AWG, WHITE
16	10 FT	22759-16-20-9	WIRE, 20 AWG, WHITE
17	1	3453LF2A	FUSE HOLDER
18	1	6-140	TERMINAL BLOCK, 6 CONNECTOR
19	3	66103-4	PIN, CRIMP SOCKET, 24-20G
20	1	73M-250-32-NL	CONNECTOR, MALE, 10-12 AWG, FULLY INSULATED
21	1	AGC-1	FUSE, 250V, (S2565-1)
22	2	AN3-3A	BOLT, 10-32, 0.0625 GRIP, UNDRILLED, STEEL
23	1	AN3-5A	BOLT, 10-32, 0.25 GRIP, UNDRILLED, STEEL
24	2	AN526C632R8	SCREW, MACHINE, TRUSS HEAD
25	3	BR05-FW	SOCKET, 5 PRONG, PLASTIC
26	2	MS21044N06	NUT, LOCKING, REGULAR HEIGHT, 6-32 UNC
27	3	MS21044N3	NUT, LOCKING, REGULAR HEIGHT, 10-32 UNF
28	1	MS21919WDG10	CLAMP, LOOP, CUSHIONED, 5/8 TUBE OD
29	12	MS25036-102	RING TERMINAL, #6 STUD, 16-22 AWG, RED
30	1	MS35489-14	GROMMET, RUBBER
31	3	NAS1149F0332P	WASHER, 0.203 ID, 0.032 THK, STEEL
32	3	NAS1149F0363P	WASHER, 0.203 ID, 0.063 THK, STEEL
33	3	V23234-A0001-X032	RELAY, 12V, 5 PRONG

HYDRAULIC PUMP ASSEMBLY (WITH BAGGAGE EXTENSION)

PRE SERVICE LETTER 220





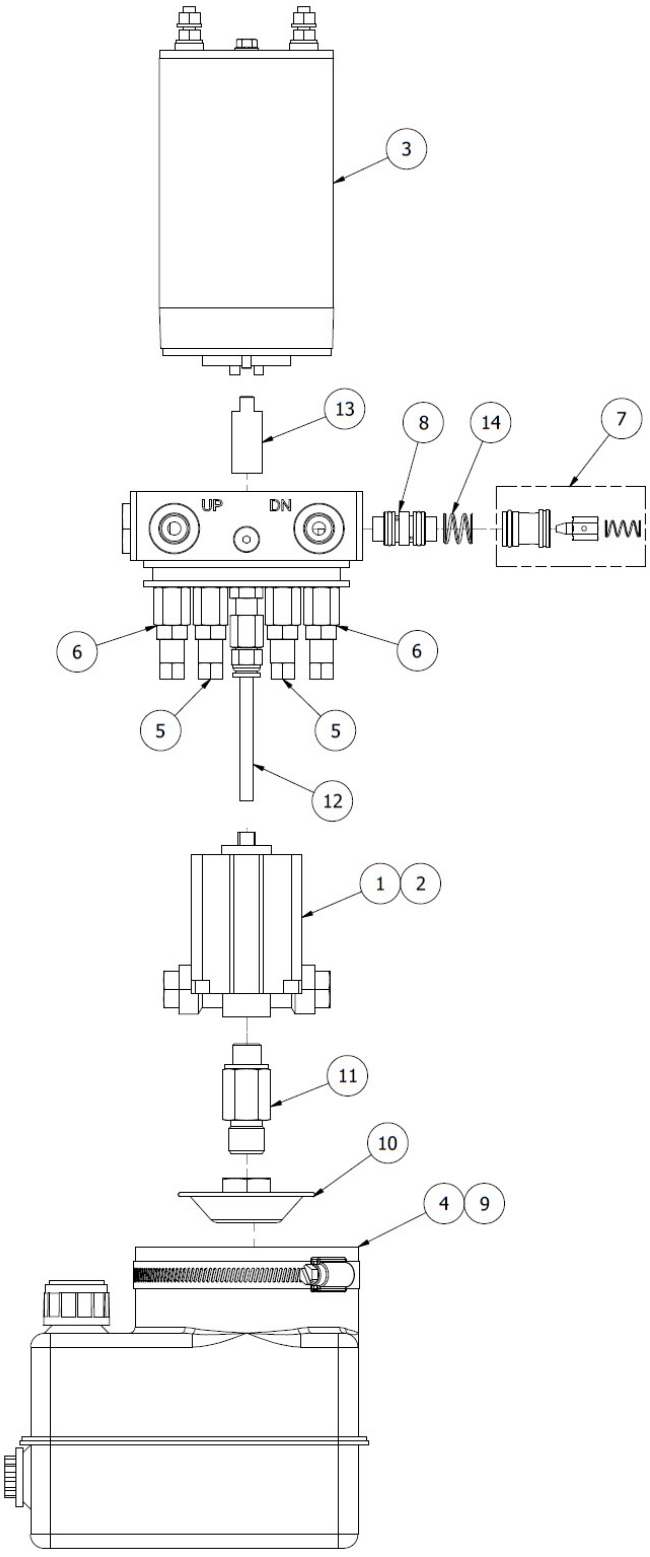
ELECTRICAL SCHEMATIC

PUMP WIRING SCHEMATIC
(RELAYS SHOWN IN RELAXED CONDITION)
1. GE WIRES 20 GA
2. GA WIRES 12 GA

ITEM	QTY	PART NO.	PART DESCRIPTION
1	3	0-332-209-137	RELAY, 12V, 5 PRONG
2	4	02-09-1104	PIN, CRIMP FEMALE, 1/8" DIA
3	2	03-09-1022	CONNECTOR PLUG, MALE, 2 CONN.
4	14	1-901-355-917	TERMINAL
5	1	1004949	CABLE, DIODE ADAPTOR
6	1	1012411	ASSEMBLY, RELAY, TIME DELAY RELEASE, 6-48 VDC
7	3	1N4004	DIODE, 2-1/2"
8	2	206062-3	CLAMP, CABLE, CPC SIZE 11
9	1	206429-1	PLUG, MALE, CPC SIZE 1, 4 PIN

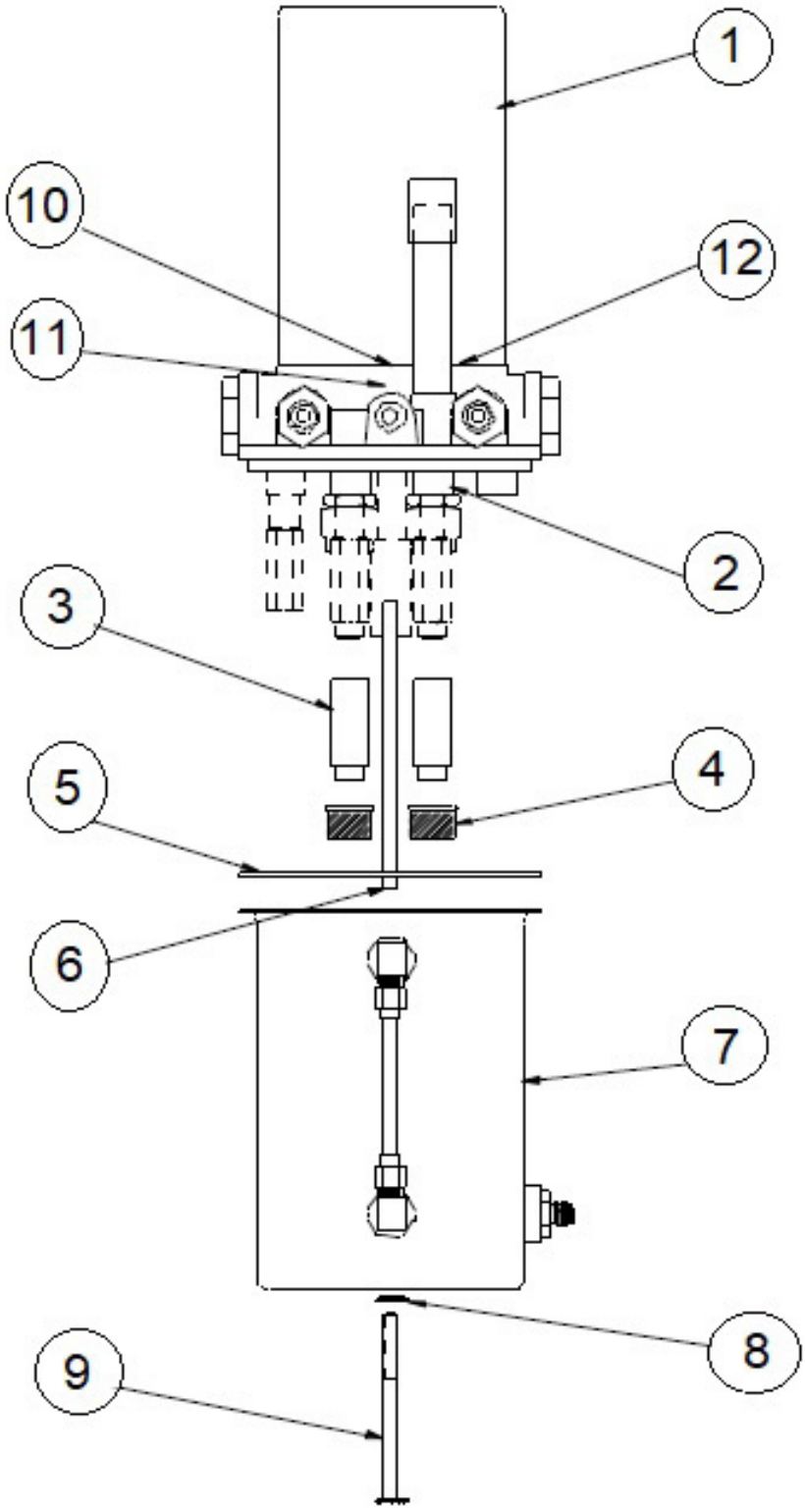
ITEM	QTY	PART NO.	PART DESCRIPTION
10	1	206430-2	CPC FREE HANG, 4 PIN, FEMALE
11	1	21A09000-196	ASSEMBLY, BRACKET, HYDRAULIC PUMP
12	1	21A09000-215	ASSEMBLY, HYDRAULIC PUMP, 12V
13	1	21A09010-013	PLATE, SUPPORT, HYDRAULIC PUMP
14	1	21A09352-030	ANGLE, MOUNTING, HYD. PUMP
15	6 FT	22759-16-12-9	WIRE, 12 AWG, WHITE
16	10.1 FT	22759-16-20-9	WIRE, 20 AWG, WHITE
17	1	73F-250-32-NL	CONNECTOR, FEMALE, 10-12 AWG
	1	73M-250-32-NL	CONNECTOR, MALE, 10-12 AWG
18	1	3453LF2A	FUSE HOLDER
19	1	6-140	TERMINAL BLOCK, 6 CONNECTOR
20	3	66103-4	PIN, CRIMP SOCKET, 24-20G
21	3	66105-4	CRIMP SOCKET, FEMALE
22	1	AGC-1	FUSE, 250V
23	5	AN3-3A	BOLT, 10-32, 0.0625 GRIP, UNDRILLED, STEEL
24	2	AN4-5A	BOLT, 1/4-28, 0.1875 GRIP, UNDRILLED, STEEL
25	2	AN526-632R8	SCREW, MACHINE, TRUSS HEAD
26	3	BR05FW	SOCKET, 5 PRONG, PLASTIC
27	1.5 FT	HS105-3/16-0	HEAT SHRINK, TUBING, BLACK
28	2	MS16997-96	SOCKET HEAD CAP SCREW
29	2	MS21044N06	NUT, LOCKING, REGULAR HEIGHT, 6-32 UNC
30	5	MS21044N3	NUT, LOCKING, REGULAR HEIGHT, 10-32 UNF
31	2	MS35338-46	WASHER, SPLIT, CARBON STEEL
32	1	MS35489-14	GROMMET, RUBBER
33	4	NAS1149D0363J	WASHER, 0.203 ID, 0.063 THK, ALUMINUM
34	7	NAS1149F0332P	WASHER, 0.203 ID, 0.032 THK, STEEL
35	3	NAS1149F0363P	WASHER, 0.203 ID, 0.063 THK, STEEL
36	2	NAS1149F0463P	WASHER, 0.265 ID, 0.063 THK, STEEL
37	12	R-3	RING CONNECTOR

HYDRAULIC PUMP OVERVIEW POST SERVICE LETTER 220



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	610-0010	DC MOTOR, 12V, .8KW
4	1	622-0016	RESERVOIR, 1 QT.
5	2	631-0005	PRESSURE RELIEF VALVE
6	2	631-0006	THERMAL RELIEF VALVE
7	2	632-0004	ASSEMBLY, PILOT OPERATED CHECK VALVE
8	1	637-0024	SHUTTLE VALVE
9	1	681-0050	CLAMP, HOSE, 1 LITER PLASTIC RESERVOIR
10	1	682-0019	FILTER, PICKUP TUBE, HYDRAULIC PUMP
11	1	682-0055	SUCTION HEX TUBE
12	1	682-0056	RETURN TUBE
13	1	683-0011	COUPLING, MOTOR TO PUMP
14	2	685-0012	SPRING, SHUTTLE VALVE
15	1	687-0001	SEAL KIT, RESERVIOR O-RING, PILOT OPERATED RELIEF VALVE O-RING, THERMAL AND PRESSURE RELIEF VALVE O-RING (NOT SHOWN)

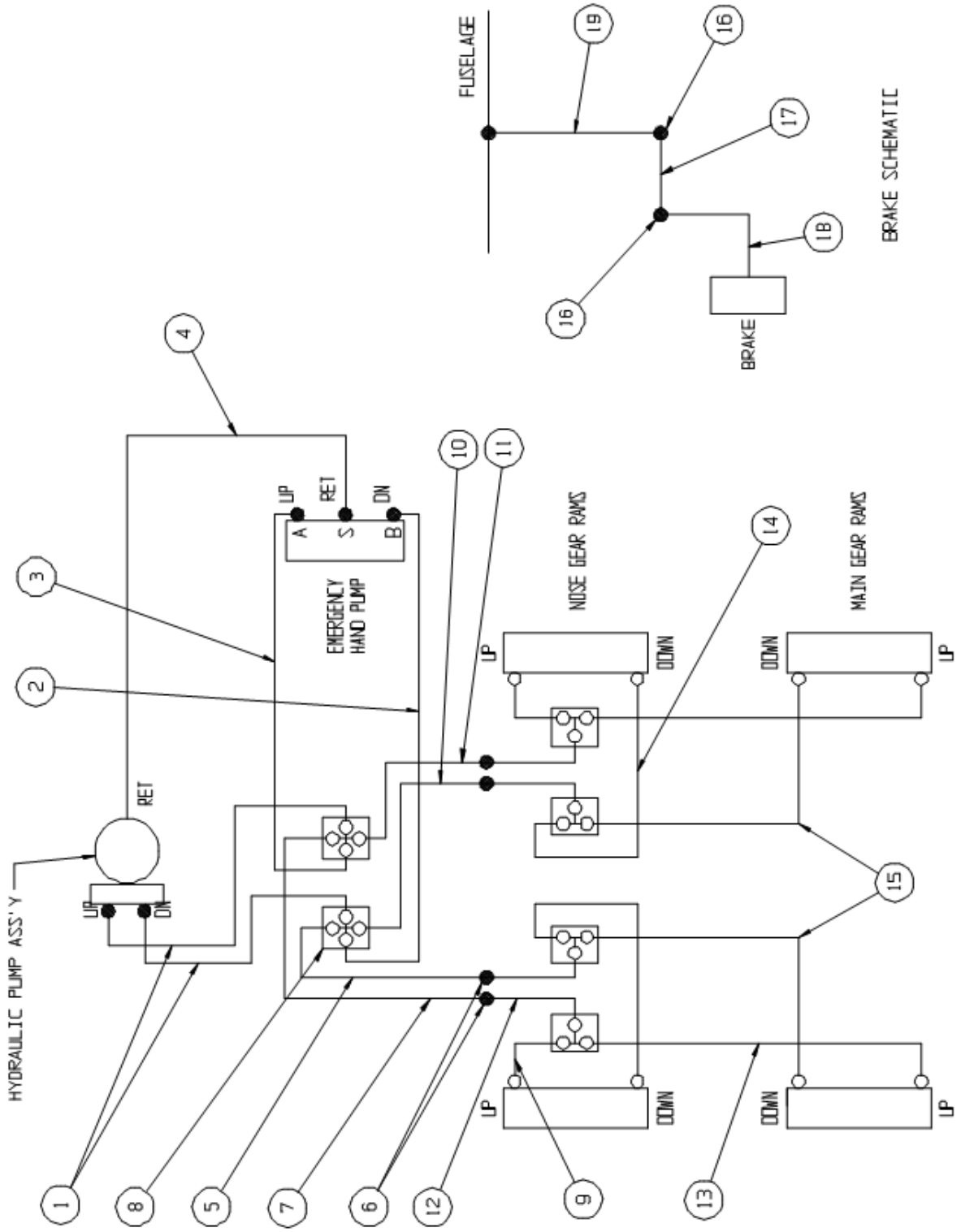
HYDRAULIC PUMP OVERVIEW PRE SERVICE LETTER 220



ITEM	QTY	PART NO.	PART DESCRIPTION
1	1	21A09000-215	HYDRAULIC PUMP ASSY. (12V)
	1	640661	MOTOR (12V)
2	1	634873	BASIC PUMP
3	2	362136	TUBE EXTENSIONS
4	2	410521*	FILTER
5	1	410578*	SEAL RESERVIOR
6	1	365047	RETURN TUBE
7	1	775260	RESERVIOR – GAUGE ASSY.
8	1	415067	SEAL THREAD
9	1	409715*	SCREW – RESERVIOR ATTACH
10	1	361183*	COUPLING – MOTOR TO PUMP
11	1	410512	SEAL – PUMP SHAFT
12	1	405673	O-RING, BI-DIRECTIONAL MOTOR TO ADAPTOR

* Reference Wipaire drawing 1011065 for alternate part numbers.

HYDRAULIC SCHEMATIC



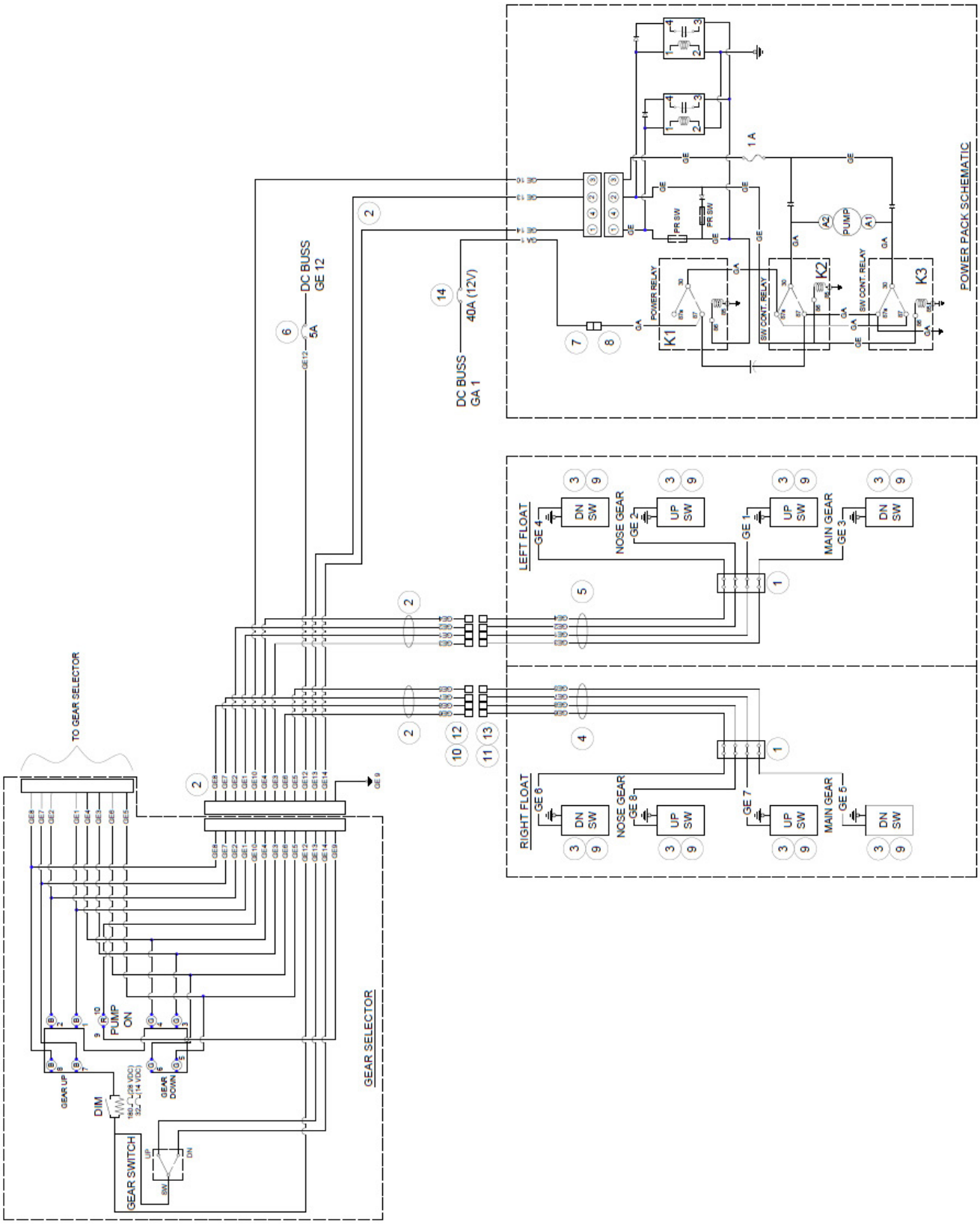
ITEM	QTY	PART NO.	PART DESCRIPTION
1	2	21A09000-204	ASSEMBLY, HOSE – PUMP TO 4 WAY TO TEE
2	1	21A09000-223	ASSEMBLY, HOSE – 4 WAY TEE L. TO H. PUMP
3	1	21A09000-207	ASSEMBLY, HOSE – 4 WAY TEE R. TO H. PUMP
4	1	21A09000-208	ASS'Y HOSE-PUMP TANK TO HAND PUMP
5	1	21A09000-206	ASSEMBLY, HOSE – 4 WAY TEE R. FLOAT
6	4	AN833-4D	FITTING, ELBOW (DECK FITTING)
	4	AN924-4D	NUT, TUBE, 7/16-20 THREAD
	4	NAS1149D0763J	WASHER, 0.453 ID, 0.063 THK, ALUMINUM
7	1	21A09000-205	ASSEMBLY, HOSE – 4 WAY TEE TO L. FLOAT
8	2	AN827-4D	CROSS FITTING, FLARED TUBE, 1/4" TUBE, 7/16-20 THREAD
9	2	21A09000-218	ASSEMBLY, HOSE – NOSE UP TO TEE
10	1	21A09000-205	ASSEMBLY, HOSE – 4 WAY TEE TO L. FLOAT
11	1	21A09000-206	ASSEMBLY, HOSE – 4 WAY TEE R. FLOAT
12	4	21A09000-222	ASSEMBLY, HOSE – TEE TO TOP UP – DN
13	2	21A09000-220	ASSEMBLY, HOSE – MAIN UP TO TEE
14	2	21A09000-219	ASSEMBLY, HOSE – NOSE DN TO TEE
15	2	21A09000-221	ASSEMBLY, HOSE – MAIN DN TO TEE
16	2	AN833-3D	FITTING, HYDRAULIC, 90° ELBOW
	4	NAS1149D0663J	WASHER, 0.39 ID, 0.063 THK, ALUMINUM
	2	AN924-3D	NUT, TUBE, 3/8-24 THREAD
17	1	21A04000-079	ALUM BRAKE LINE
18	1	21A04000-078	HYD. LINE ASSY. WHEEL WELL BRAKE LINE
19	2	21A04000-080	ASS'Y., BRAKE LINE (FUSELAGE TO DECK)

SECTION 11
ELECTRICAL

CONTENTS

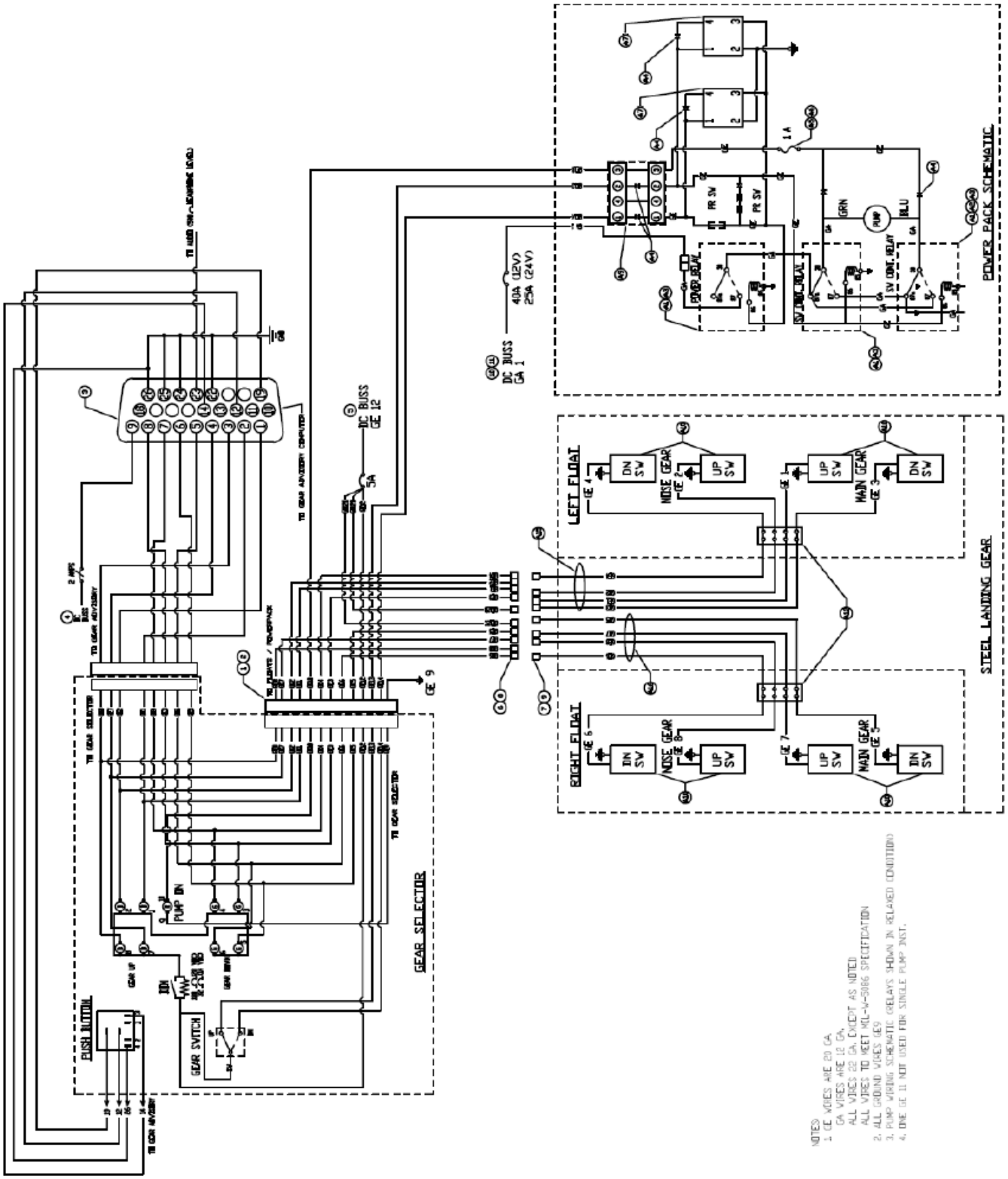
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ELECTRICAL SCHEMATIC PRE SERVICE LETTER 220 126
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GEAR CONTROL (RECTANGLE) 131

ELECTRICAL SCHEMATIC POST SERVICE LETTER 220



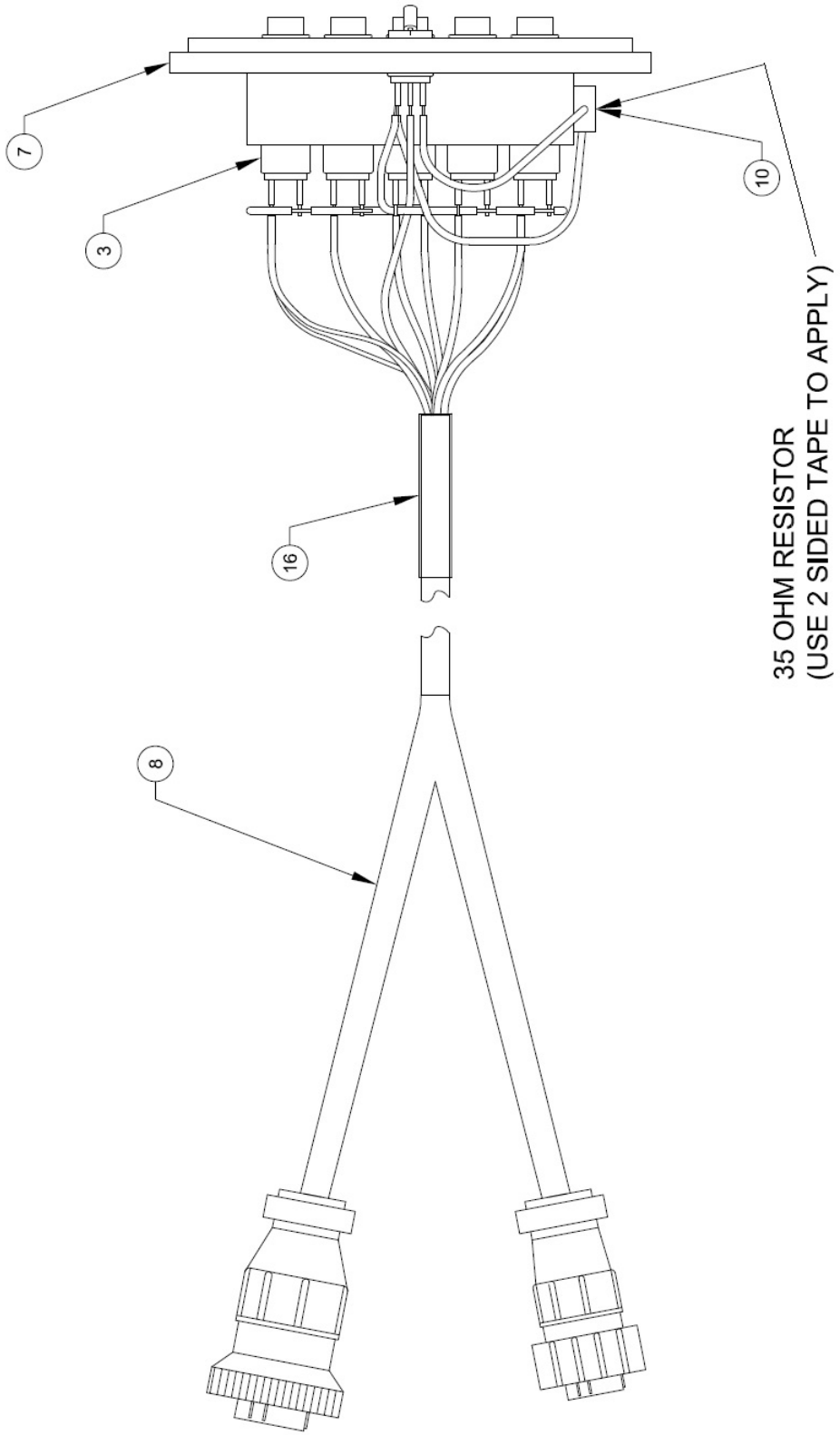
ITEM	QTY	PART NO.	PART DESCRIPTION
1	2	4-140	TERMINAL BLOCK, 4 POSITION
2	1	4A11000-012	WIRE HARNESS, GEAR SELECTOR, FLOATS, HYD. PUMP
3	8	5801	GEAR POSITION SWITCH, PROXIMITY, MAGNETIC
4	1	6A10000-004	WIRE HARNESS, LEFT FLOAT
5	1	6A10000-005	WIRE HARNESS, RIGHT FLOAT
6	1	7277-2-5	CIRCUIT BREAKER, 5 AMP
7	1	73F-250-32-NL	CONNECTOR, FEMALE, 12-10 AWG
8	1	73M-250-32-NL	CONNECTOR, MALE, 12-10 AWG
9	8	21A09005-262	CLIP, GEAR POSITION SWITCH HOLDER
10	8	S1635-1	PIN
11	8	S1636-1	SOCKET
12	8	S1637-1	HOUSING
13	8	S1637-2	HOUSING
14	1	W23-X1A1G-40	CIRCUIT BREAKER, 40 AMP, 12VDC

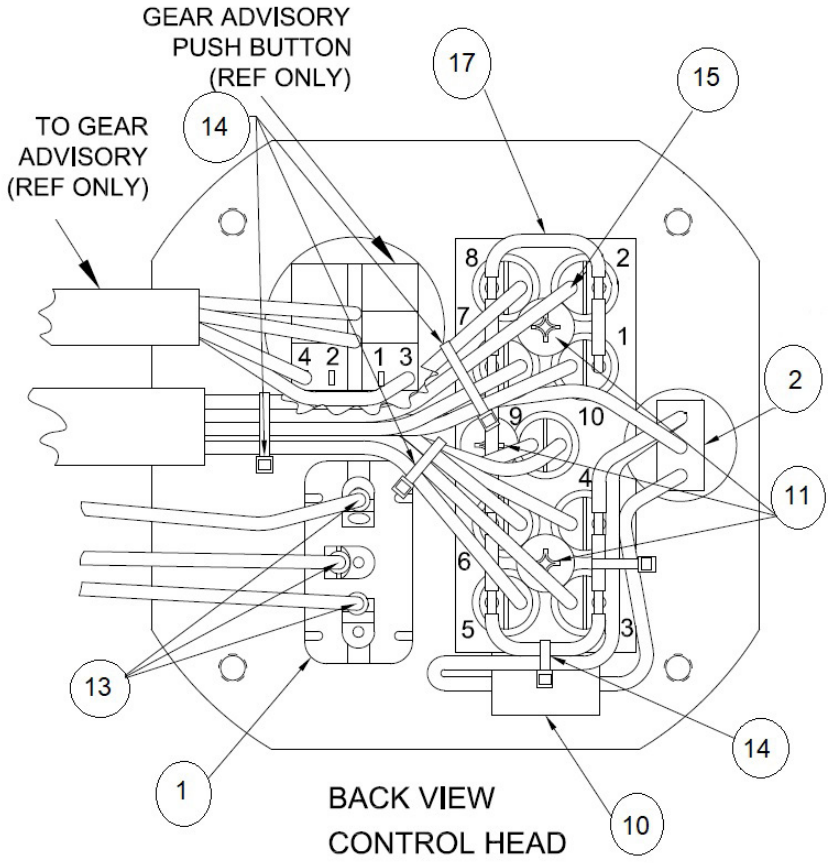
ELECTRICAL SCHEMATIC PRE SERVICE LETTER 220

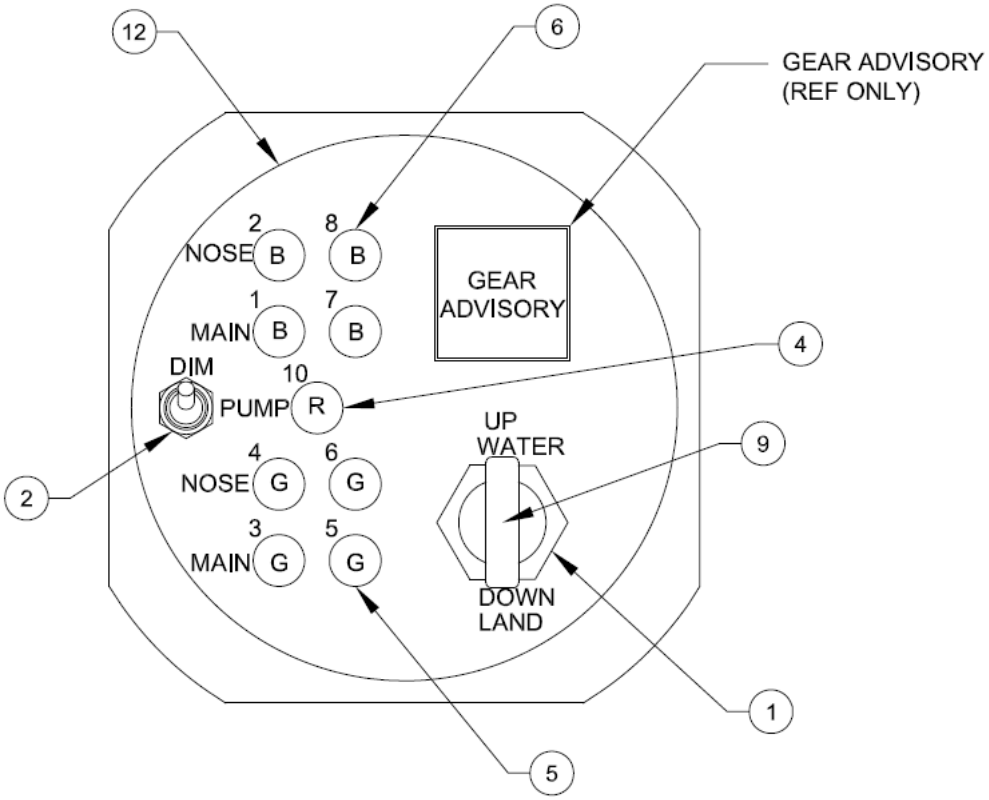


ITEM	QTY	PART NO.	PART DESCRIPTION
1	1	4A11000-011	ASSEMBLY, GEAR SELECTOR WIRING HARNESS
3	1	4A11000-014	ASSEMBLY, WIRING HARNESS, GEAR ADVISORY
4	1	7277-2-2	KLIXON CIRCUIT BREAKER, 2 AMP
5	1	7277-2-5	KLIXON CIRCUIT BREAKER, 5 AMP
6	8	S1635-1SF	PIN
7	8	S1636-1	SOCKET
8	8	S1637-1	HOUSING
9	8	S1637-2	HOUSING
11	1	W-23-X1A1G-40	BREAKER, CIRCUIT, 40AMP
A1	3	0-332-209-211	RELAY, 24V, 5 PRONG
A3	3	BR05FW	SOCKET, 5 PRONG, PLASTIC
A4	7	1N4004	DIODE, 2-1/2"
A5	1	AGC-1	FUSE, 250V, (S2565-1)
A6	1	3453LF2A	FUSE HOLDER
A7	2	1012411	ASSEMBLY, RELAY, TIME DELAY RELEASE, 6-48 VDC
A9	1	1004949	CABLE, DIODE ADAPTER
A10	8	5801	SWITCH, SENSOR
A12	2	4-140	4 LUG TERMINAL BLOCK
A15	1	6A10000-004	ASSEMBLY, WIRE HARNESS, LEFT FLOAT
A16	1	6A10000-005	ASSEMBLY, WIRE HARNESS, RIGHT FLOAT

GEAR CONTROL (ROUND)

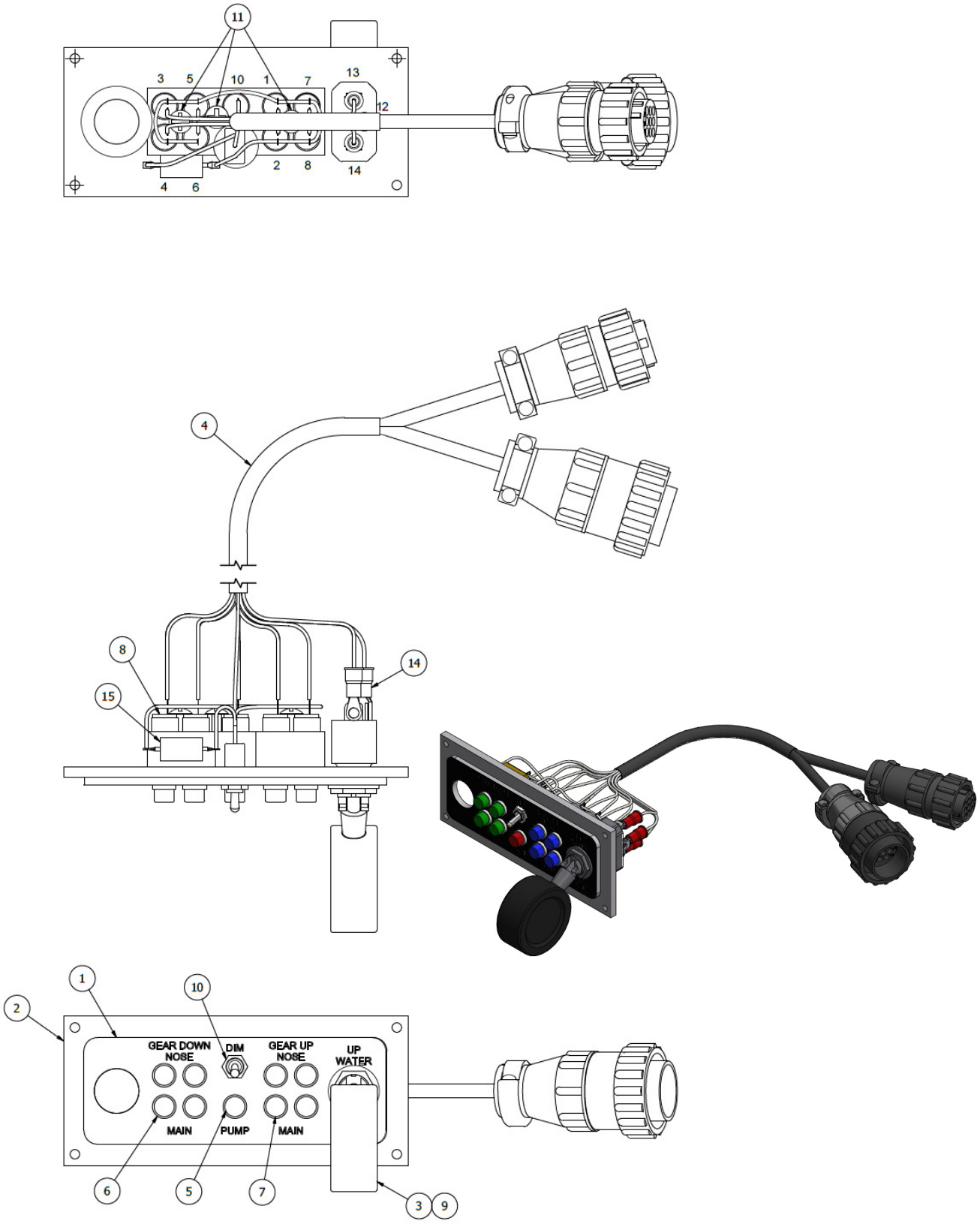



GEAR ADVISORY
PUSH BUTTON
(REF ONLY)
TO GEAR
ADVISORY
(REF ONLY)
14
17
15
8
2
7
1
4 2
1 3
2
9
10
4
11
6
5
3
13
1
14
10
BACK VIEW
CONTROL HEAD


12
6
GEAR ADVISORY
(REF ONLY)
2
NOSE
B
8
B
GEAR
ADVISORY
1
MAIN
B
7
B
4
DIM
10
PUMP
R
UP
WATER
9
2
4
NOSE
G
6
G
3
MAIN
G
5
G
DOWN
LAND
1
5

ITEM	QTY	PART NO.	PART DESCRIPTION
-	1	21A11000-009	GEAR SELECTOR ASSY. ROUND (12V)
1	1	8857K44	SWITCH
2	1	A101SYCB	TOGGLE SWITCH, SPDT, ON-ON
3	9	515-0012	SOCKET
4	1	507-3914-1431-600F	INDICATOR LAMP, 14V, RED
5	4	507-3914-1432-600F	INICATOR LAMP, 14V, GREEN
6	4	507-3914-1434-600F	INDICATOR LAMP, 14V, BLUE
7	1	21A11179-001	BLOCK, GEAR CONTROL
8	1	4A11000-008	HARNESS ASSEMBLY, GEAR SELECTOR
9	1	21A11259-003	GEAR SWITCH KNOB
10	1	RH-5-35	RESISTOR, 14V, DALE RH5 5W
11	3	AN526-632R8	SCREW, TRUSS HEAD, 6-32
12	1	10B3-6202	PLACARD, ROUND 2100 GEAR SELECTOR
13	3	R-3	RING CONNECTOR, #6, 20 AWG, RED
14	5	PLT1M-M	CABLE TIE
15	16 IN	HIXR-3/16	SHRINK WRAP, 3/16, WHITE
16	3 IN	HS105-1/2-0	HEAT SHRINK TUBING
17	6 IN	22759-16-20-9	WIRE, 20 AWG, WHITE

GEAR CONTROL (RECTANGLE)



ITEM	QTY	PART NO.	PART DESCRIPTION
-	1	21A11000-010	ASSEMBLY, INDICATOR, GEAR CONTROL, SQUARE, 12V
1	1	10B3-6277	PLACARD, GEAR CONTROL SQUARE
2	1	21A11179-002	BLOCK GEAR CONTROL SQUARE
3	1	21A11259-003	GEAR SWITCH KNOB
4	1	4A11000-008	WIRING HARNESS ASSY. SELECTOR
	3 IN	HS105-1/2-0	HEAT SHRINK TUBING
5	1	507-3914-1431-600F	LAMP LIGHT, RED 14V
6	4	507-3914-1432-600F	LAMP LIGHT, GREEN 14V
7	4	507-3914-1434-600F	LAMP LIGHT, BLUE, 14V
8	9	515-0012	SOCKET
9	1	8857K44	SWITCH
10	1	A101SYCB	TOGGLE SWITCH
11	3	AN526-632R8	SCREW, TRUSS HEAD MACHINE, 6-32 THREAD, 1/2" LENGTH
12	12"	HS105-3/32-0	HEAT SHRINK, TUBING - BLACK
13	3	PLT1M-M	CABLE TIE, NYLON, WHITE, 4" (SMALL)
14	3	R-3	TERMINAL, RING #6 STUD, 16-22 AWG, RED
15	1	RH-5-35	RESISTOR, 14V, DALE RH5 5W
16	6 IN	22759-16-20-9	WIRE, 20AWG, WHITE (NOT SHOWN)
17	16 IN	HIXR-3/16	SHRINK WRAP, 3/16, WHITE (NOT SHOWN)