



2150 SERIES

**FLEX-WING MECHANICAL LEVEL
LIFT ROTARY CUTTER/SHREDDER**

Published 08/16

Part No. 00790565P

PART'S MANUAL



An Operator's Manual was shipped with the equipment in the Manual Canister. This Operator's Manual is an integral part of the safe operation of this machine and must be maintained with the unit at all times. **READ, UNDERSTAND, and FOLLOW** the Safety and Operation Instructions contained in this manual before operating the equipment. If the Operator's Manual is not with the equipment, contact your dealer or Servis-Rhino (800-446-5158) to obtain a Free copy before operating the equipment.



RHINO ^É

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www.algqr.com/rwe



TO THE OWNER/OPERATOR/DEALER

All implements with moving parts are potentially hazardous. There is no substitute for a cautious, safe-minded operator who recognizes the potential hazards and follows reasonable safety practices. The manufacturer has designed this implement to be used with all its safety equipment properly attached to minimize the chance of accidents.

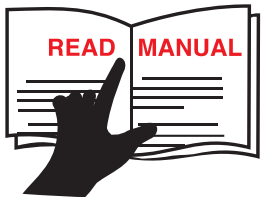
BEFORE YOU START!! Read the safety messages on the implement and shown in your manual.
Observe the rules of safety and common sense!



DANGER

FAILING TO FOLLOW SAFETY MESSAGES AND OPERATING INSTRUCTIONS CAN CAUSE SERIOUS BODILY INJURY OR EVEN DEATH TO OPERATOR AND OTHERS IN THE AREA.

1.



2. **NO RIDERS.
NO CHILDREN OPERATORS.**



3. **USE SAFETY SHOES,
HARD HAT, SAFETY
GLASSES, SEAT
BELTS, & ROPS.**



4. **BLOCK UP SECURELY
BEFORE WORKING
UNDER.**

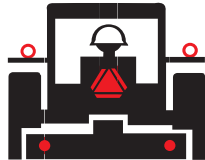


1. Study and understand Operator's Manuals, Safety Signs, and Instructional Decals for tractor & flail mower to prevent misuse, abuse, & accidents. Practice before operating mower in a confined area or near passersby.
 - Learn how to stop engine suddenly in an emergency. Be alert for passersby and especially children.
2. Allow no children on or near implement or tractor. Allow no riders on tractor or implement. Falling off can cause serious injury or death from being run over by tractor or mower or contact with Flail Mower Blades.
3. Operate only with tractor having Roll-Over Protective Structure (ROPS) and with seatbelt fastened securely and snugly to prevent injury and possible death from falling off or tractor overturn. Personal Protective Equipment such as Hard Hat, Safety Glasses, Safety Shoes, and Ear Plugs are recommended.
4. Block up or support raised machine and all lifted components securely before putting hands or feet under or working underneath any lifted component to prevent crushing injury or death from sudden dropping or inadvertent operation of controls. Make certain that area is clear before lowering or folding.
5. Before transporting, put Lift Lever in detent or full-lift position. Install Transport Safety Devices securely on folding implements. Slow down when turning and on hillsides.
 - Install Restrictor in folding circuit to slow down lowering and unfolding if action is faster than is desirable.
6. Make certain that SMV sign, Warning Lights, and Reflectors are clearly visible. Follow local traffic codes.
7. Never operate with Flail Mower or Folding Section raised if passersby, bystanders or traffic are in the area to reduce possibility of injury or death from objects thrown by Blades under Shields or implement structure.
8. Before dismounting, secure flail mower in transport position or lower to ground.
 - Put tractor in park or set brake, disengage PTO, stop engine, remove key, and wait until noise of rotation has ceased to prevent entanglement in rotating parts which may cause injury or death.
 - Never mount or dismount a moving vehicle. Crushing from run over may cause injury or death.

5. **TRANSPORT SAFELY,
LOCK UP.**



6. **USE SMV, LIGHTS, &
REFLECTORS.**



7. **DO NOT OPERATE
WITH MOWER OR
WING RAISED.**



8. **DO NOT MOUNT OR
DISMOUNT WHILE
MOVING.**



002369

WARRANTY INFORMATION:

Read and understand the complete Warranty Statement found in this Manual. Fill out the Warranty Registration Form in full and return it within 30 Days. Make certain the Serial Number of the Machine is recorded on the Warranty Card and on the Warranty Form that you retain. The use of "will-fit" parts will void your warranty and can cause catastrophic failure with possible injury or death.

PARTS SECTION

PARTS ORDERING GUIDE

The following instructions are offered to help eliminate needless delay and error in processing purchase orders for the equipment in this section.

1. The Parts Section is prepared in logical sequence and grouping of parts that belong to the basic machine featured in this manual. Part Numbers and Descriptions are given to help locate the parts and quantities required.
2. The Purchase Order must include the name and address of the person or organization ordering the parts, who should be charged, and if possible, the serial number of the machine for which the parts are ordered.
3. The Purchase Order must clearly list the quantity of each part, the complete and correct part number (be sure to include all periods), and the basic name of the part.
4. The Manufacturer reserves the right to substitute parts where applicable.
5. Some parts are unlisted items which are special production items not normally stocked and are subject to special handling. Request a quotation for such parts before sending a Purchase Order.
6. The Manufacturer reserves the right to change prices without prior notice.

NOTE: Please refer to The Safety Section in the front of this Manual for the proper Part Number when ordering Replacement Safety Decals.



For maximum safety and to guarantee optimum product reliability, always use genuine Servis-Rhino Parts. The use of inferior replacement parts may cause premature or catastrophic failure which could result in serious injury or death. Direct any questions regarding parts to:

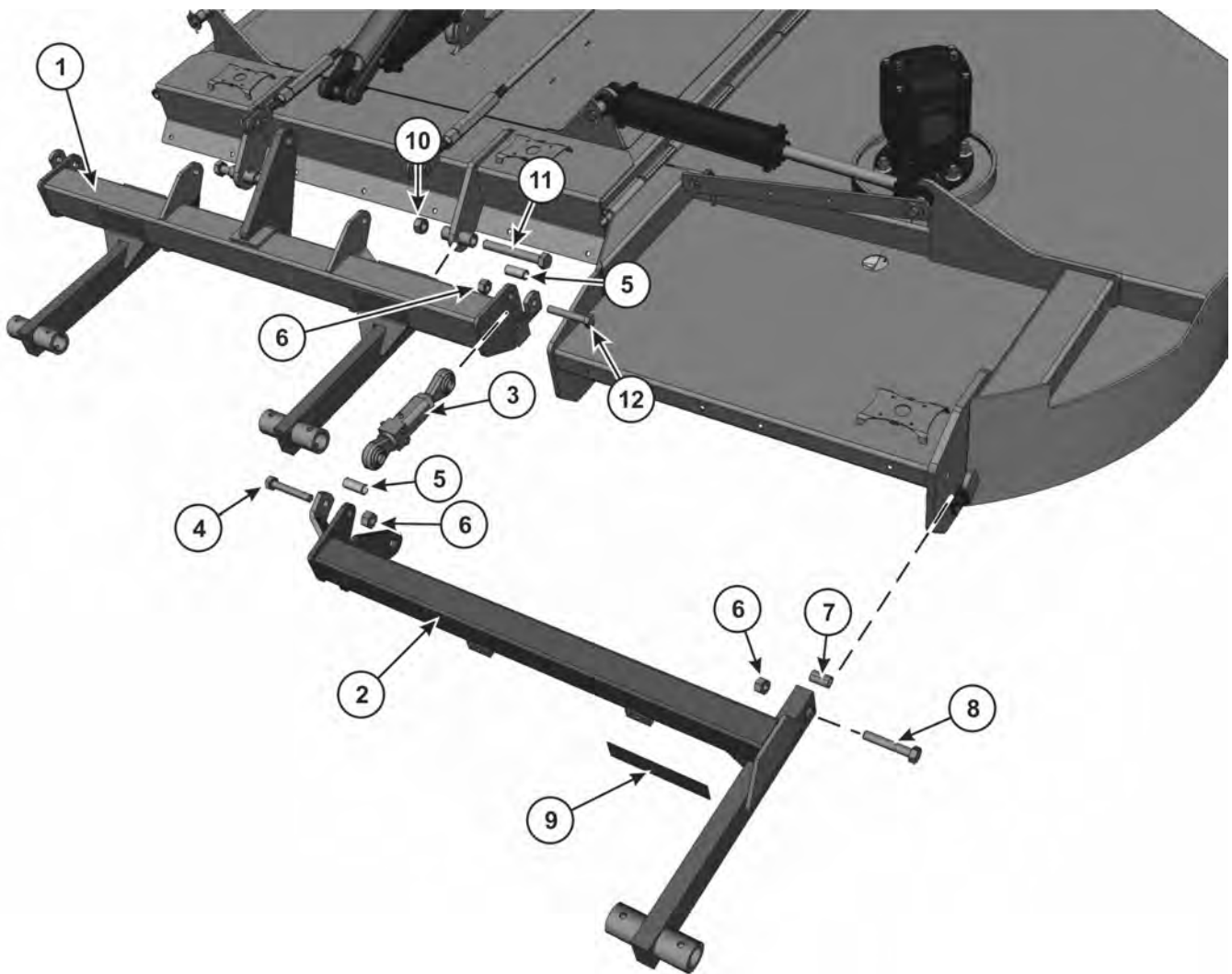


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PART NAME INDEX

AXLE ASSEMBLY.....	4
BLADE CARRIER ASSEMBLY - W/BOLT ON PAN OPTION.....	5
CHAINGUARD ASSEMBLY - FRONT.....	7
CHAINGUARD ASSEMBLY - REAR.....	8
CONTROL AND LEVEL ROD ASSEMBLIES.....	9
CYLINDER ASSEMBLY.....	11
DECAL LOCATION.....	12
DEFLECTOR ASSEMBLY - FRONT.....	14
DEFLECTOR ASSEMBLY - REAR.....	15
DRIVELINE - 1000 RPM CAT 5 CV 1-3/8-21 SPL - 00785545.....	17
DRIVELINE - 540 RPM CAT 5 CV 1 3/8-6 SPL - 00779504.....	18
DRIVELINE - INTERMEDIATE 540RPM & 1000RPM 00785897.....	19
DRIVELINE - WING 00775312.....	20
GEARBOX ASSEMBLY - 00791056 - 1:1.21 RATIO, 1000RPM RW.....	21
GEARBOX ASSEMBLY - 00791057 - 1:1.21 RATIO, 1000RPM LW.....	23
GEARBOX ASSEMBLY - 00791058 - 1:1.46 RATIO, 540RPM RW.....	25
GEARBOX ASSEMBLY - 00791059 - 1:1.46 RATIO, 540RPM LW & CENTER.....	27
GEARBOX ASSEMBLY - 00791061 - 1.21:1 RATIO, 1000RPM CENTER.....	29
GEARBOX ASSEMBLY - DIVIDER, 00786931 1-3/4-20 OUTPUT SPL, 540 RPM.....	31
GEARBOX ASSEMBLY - DIVIDER, 00786999 1000RPM.....	33
GEARBOX SHIELD ASSEMBLY - DIVIDER & CENTER.....	35
GEARBOX SHIELD ASSEMBLY - WING.....	36
GEARBOX, BLADES, & ROTATION CHART - 2150 (FOR REFERENCE ONLY).....	37
HUB AND SPINDLE ASSEMBLY - 00790220.....	38
HYDRAULIC HOSE LAYOUT.....	39
LIGHT KIT.....	41
SKID SHOE ASSEMBLY.....	42
SLIP CLUTCH ASSEMBLY - 00775315.....	44
SPRINGPOD ASSEMBLY.....	45
TIRE OPTIONS.....	46
TONGUE ASSEMBLY.....	48
TURNBUCKLE ASSEMBLY.....	49
WING HINGE ASSEMBLY.....	50

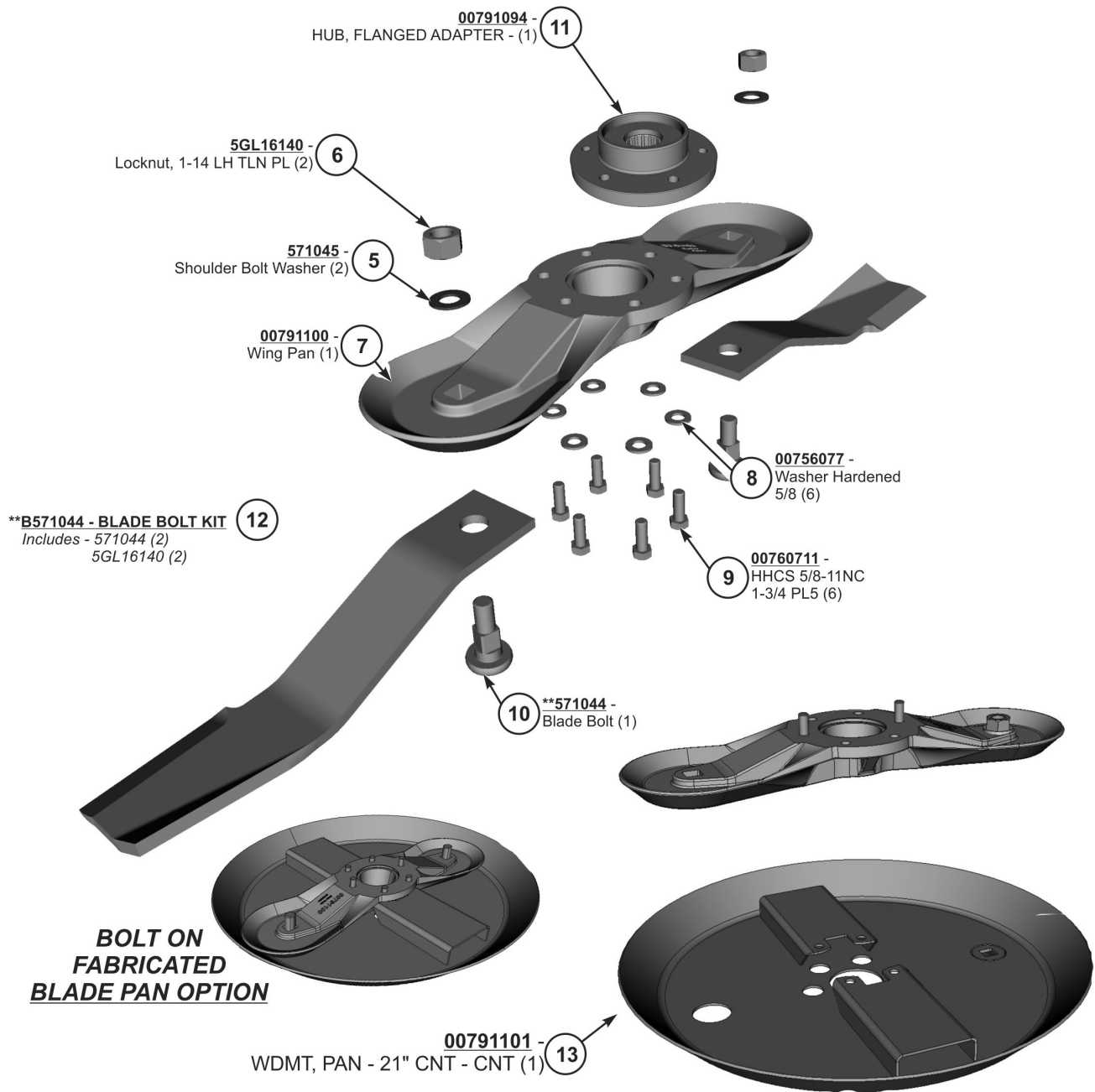
AXLE ASSEMBLY



ITEM	PART NO.	QTY.	DESCRIPTION
1	00779567	1	WELDMENT, CENTER AXLE
2	00777181	1	AXLE WELDMENT RH.
	00777182	1	AXLE WELDMENT LH. (NOT SHOWN)
3	00763449	2	ASY,SWIVEL TURNBUCKLE (SEE TURNBUCKLE ASSEMBLY PAGE FOR BREAKDOWN)
4	00007800	2	HEXB, 3/4 NCX 3 PL5
5	00751584	4	SPACER, TUBE
6	00037200	8	NUT,HEX TOPLOCK 3/4 NC GR.C PL
7	00777189	2	AXLE BUSHING
8	00003300	2	HHCS, 3/4 NC 4 PL5
9	1458392	2	DECAL, RED REFLECTOR
10	02030300	3	NUT TOPLOCK 1 NC PL5
11	317918H5C	2	HEX CAP 1" - 8 X 7-1/2" GR5
12	00009500	4	BOLT-HEX 3/4 NC 4-1/2 PL5

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BLADE CARRIER ASSEMBLY - W/BOLT ON PAN OPTION



LW Blades 3

- Blades, 00759339P CCW Updraft (2)

Center Blades 4

- Blades, 0582010330P CCW Updraft(2)

RW Blades 2

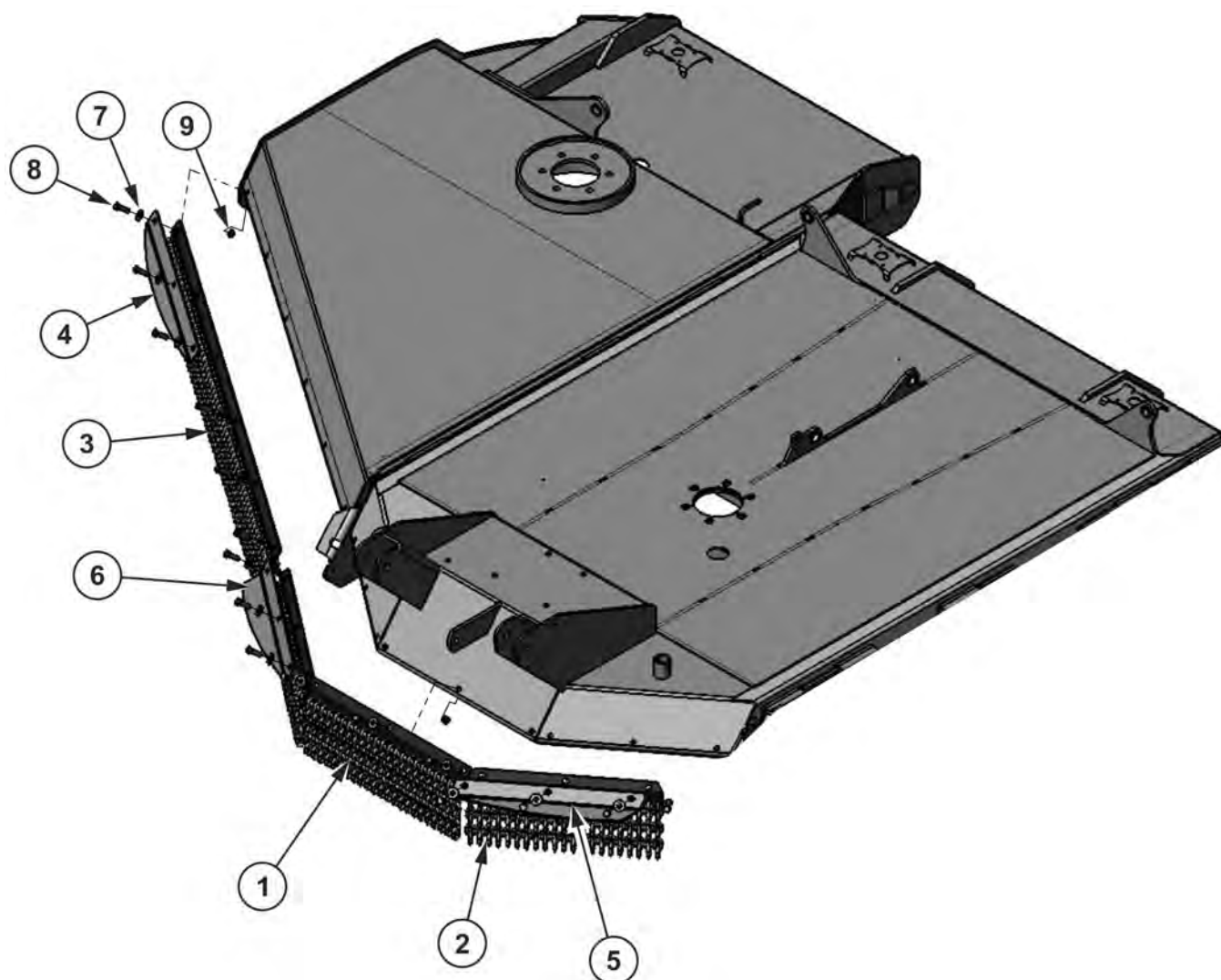
- Blades, 00759338P CW Fan (2)

BLADE CARRIER ASSEMBLY - W/BOLT ON PAN OPTION

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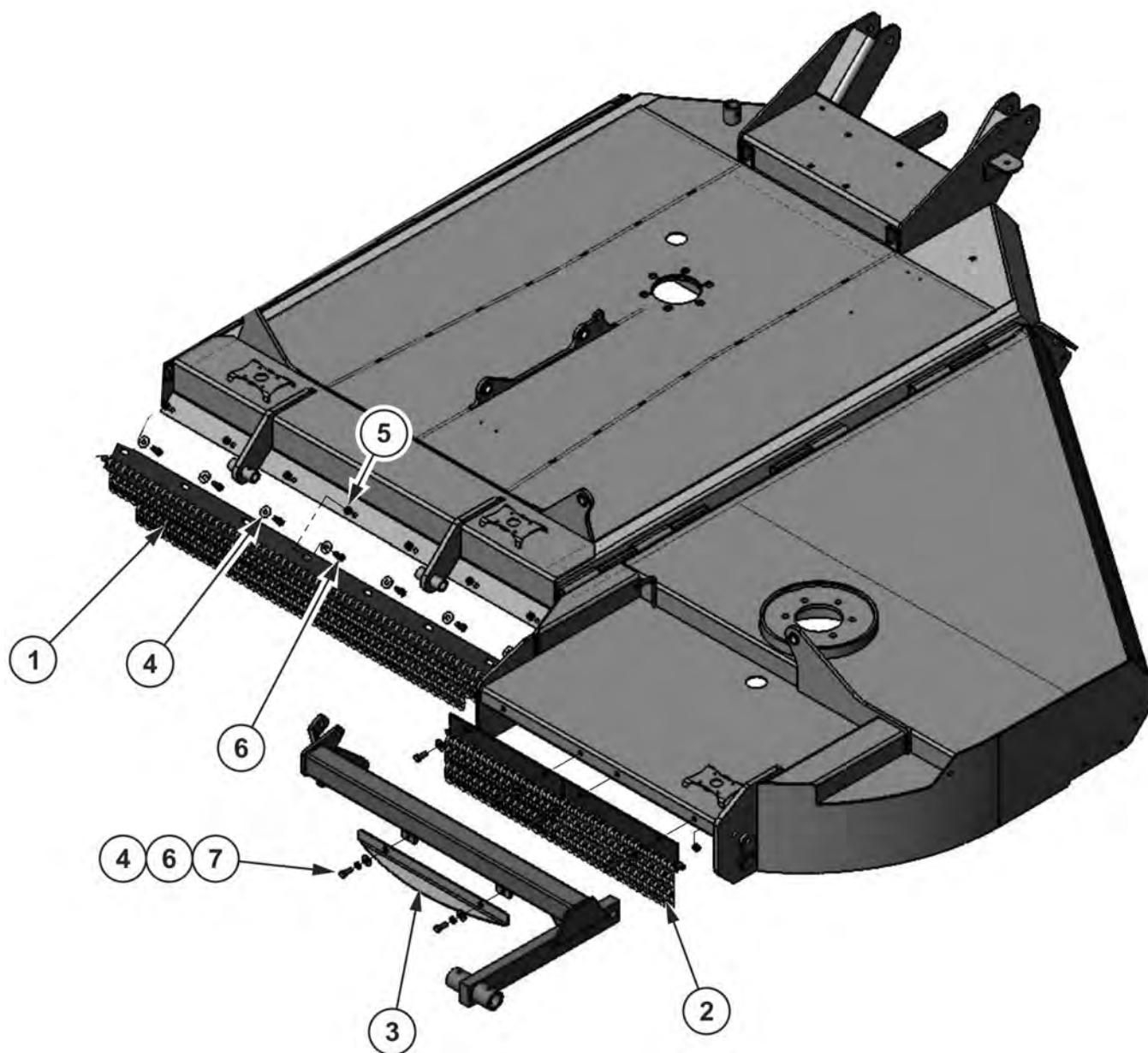
ITEM	PART NO.	QTY.	DESCRIPTION
2	00759338	2	BLADES, CW FAN
3	00759339	2	BLADES, CCW UPDRAFT
4	0582010330	2	BLADES, CCW UPDRAFT
5	571045	2	SHOULDER BOLT WASHER
6	5GL16140	2	LOCKNUT, 1-14 LH TLN PL
7	00791100	1	WING PAN
8	00756077	6	WASHER HARDENED 5/8
9	00760711	6	HHCS 5/8-11NC 1-3/4 PL5
10	571044	1	BLADE BOLT
11	00791094	1	HUB, FLANGED ADAPTER
12	B571044	1	BLADE BOLT KIT
13	00791101	1	WDMT, PAN - 21" CNTR-CNTR (OPTIONAL)

CHAINGUARD ASSEMBLY - FRONT



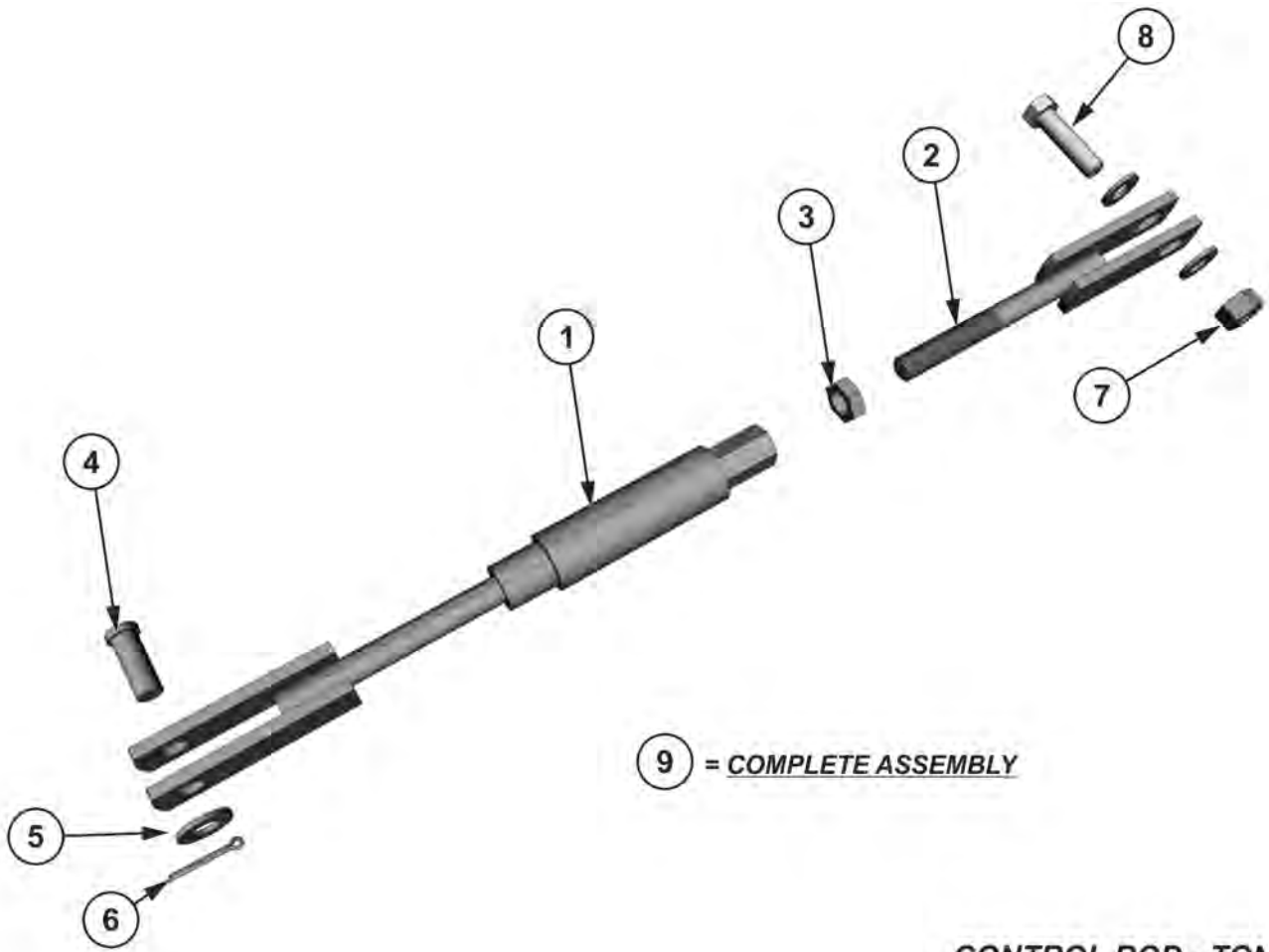
ITEM	PART NO.	QTY.	DESCRIPTION
1	00785876	1	ASSY, CENTER FRONT CHAIN GUARD
2	00785875	2	ASSY, CHAIN GUARD CENTER SIDES
3	00790544	2	ASSY, FRONT WING SINGLE CHAIN GUARD
4	00790543	2	BRACKET, 2150 FOOT PROBE
5	00790579	1	GUARD, LEFT FRONT FOOT PROBE
6	00790580	1	GUARD, RIGHT FRONT FOOT PROBE
7	00002700	21	FLATWASHER 1/2 PL STD
8	00748823	21	HHCS 1/2-13 UNC X 1-1/2 GR.5 PL
9	00001800	21	LOCKNUT TLM 1/2 NC PLC

CHAINGUARD ASSEMBLY - REAR



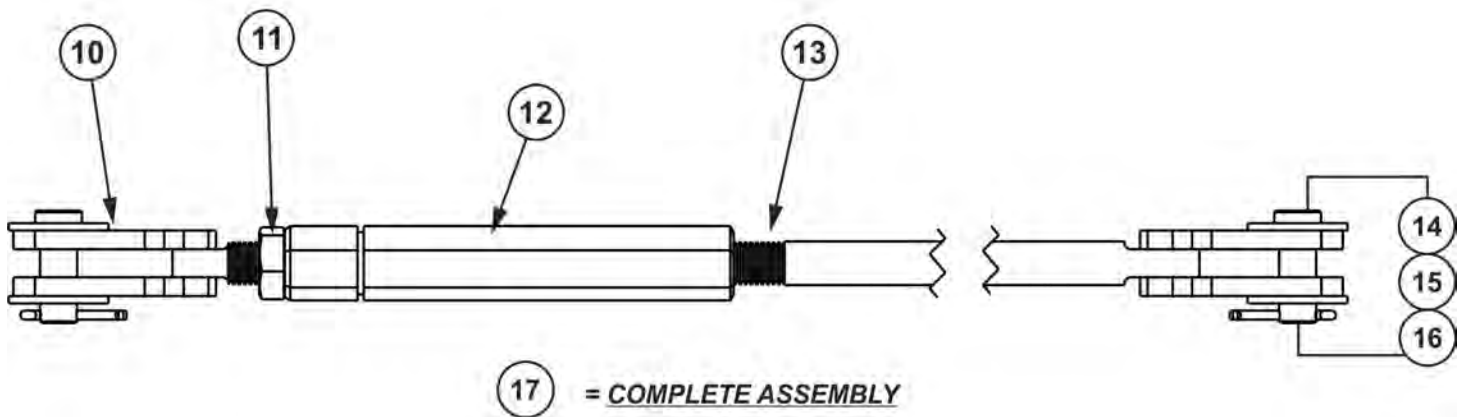
ITEM	PART NO.	QTY.	DESCRIPTION
1	00785877	1	ASSY, CHAIN GUARD CENTER REAR
2	00773018	4	ASSY, CHAIN GUARD 19"
3	00790581	2	GUARD, REAR WING FOOT PROBE
4	00002700	19	FLATWASHER 1/2 PL STD
5	00001800	15	LOCKNUT TLM 1/2 NC PLC
6	02030700	19	HHCS 1/2-13NC X 1-1/4 GR5 PL
7	00001300	4	WASHER, LOCK 1/2 GD8 YDP

CONTROL AND LEVEL ROD ASSEMBLIES



CONTROL ROD - TONGUE

LEVEL ROD - CENTER DECK

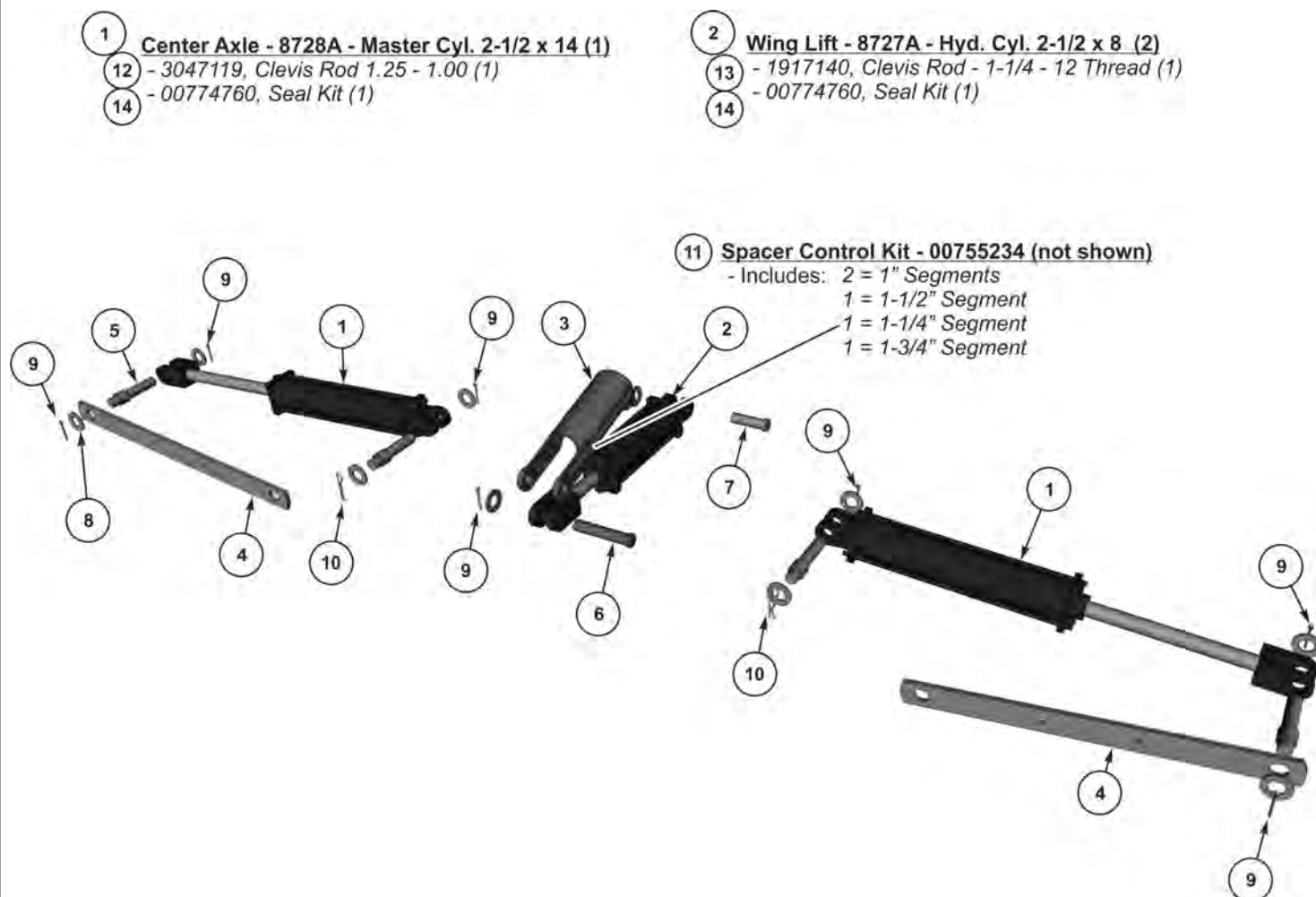


CONTROL AND LEVEL ROD ASSEMBLIES

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	00764537	1	WDMT,CONTROL ROD THREADED
2	5C1490	1	NUT,HEX JAM 7/8 NC PLT
3	00764537A	1	WLDMT, SHORT CONTRL ROD
4	651102	1	PIN, DRILLED
5	15B1200	4	WASHER 3/4 P SAE
6	00755153	1	PIN,COTTER 3/16 X 1-1/2 PLATED
7	00037200	1	NUT,HEX TOPLOCK 3/4 NC GR.C PL
8	03200269	1	HHCS 3/4 NC 3 PL8
9	00768497	1	CONTROL ROD, COMPLETE
10	00778164	1	WLDMT, SHORT LEVEL ROD
11	00778160	1	HEXNUT 7/8" JAM LH ZP
12	00788159	1	NUT, 9" ADJUSTING
13	00778164	1	WLDMT, LONG LEVEL ROD
14	651102	2	PIN, DRILLED
15	15B1200	4	WASHER 3/4" SAE
16	00755153	2	PIN-COTTER 3/16"X1-1/2" PLATED
17	00778165	1	ASY., LEVEL ROD COMPLETE

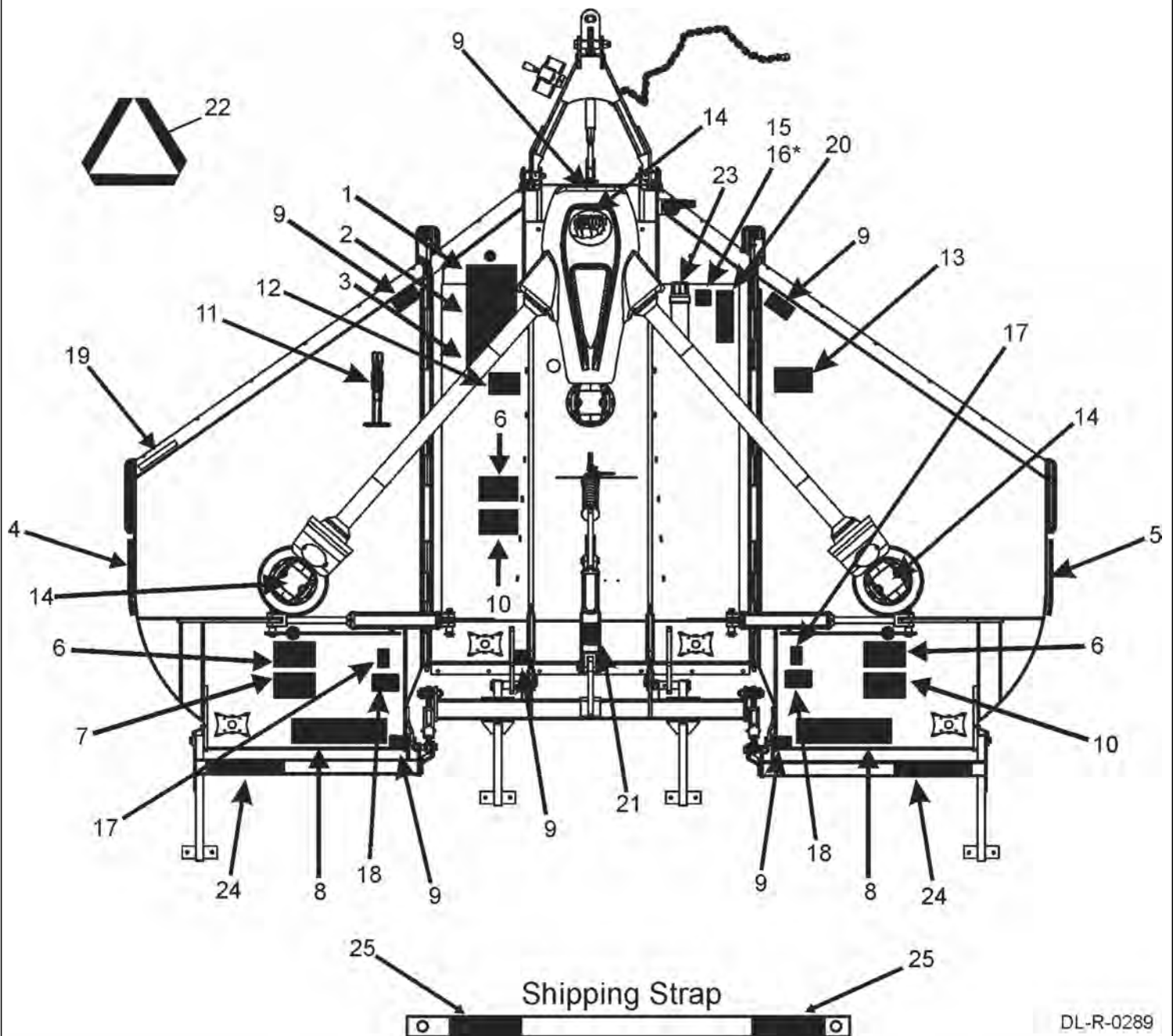
CYLINDER ASSEMBLY



ITEM	PART NO.	QTY.	DESCRIPTION
1	8728A	2	CYLINDER, HYD 2-1/2 X 14
2	8727A	1	CYLINDER, HYD 2-1/2 X 8
3	00791366	1	CASTING, 8IN CYLINDER LOCK
4	8345	2	TRANSPORT BAR
5	8352	4	PIN ASSEMBLY
6	420011	1	PIN, CLEVIS 1 X 5 PL
7	8354	1	PIN, HYD. CYLINDER
8	02822500	12	FLATWASHER 1 PL STD
9	00606000	10	PIN, COTTER 3/16 X 2"
10	37107B13	2	HAIRPIN, COTTER .148 X 2-15/16"
11	00755234	1	SPACER CONTROL KIT -(NOT SHOWN)
12	3047119	1	CLEVIS ROD 1.25-1.00
13	1917140	1	CLEVIS ROD 1-1/4-12 THREAD
14	00774760	1	SEAL KIT

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DECAL LOCATION



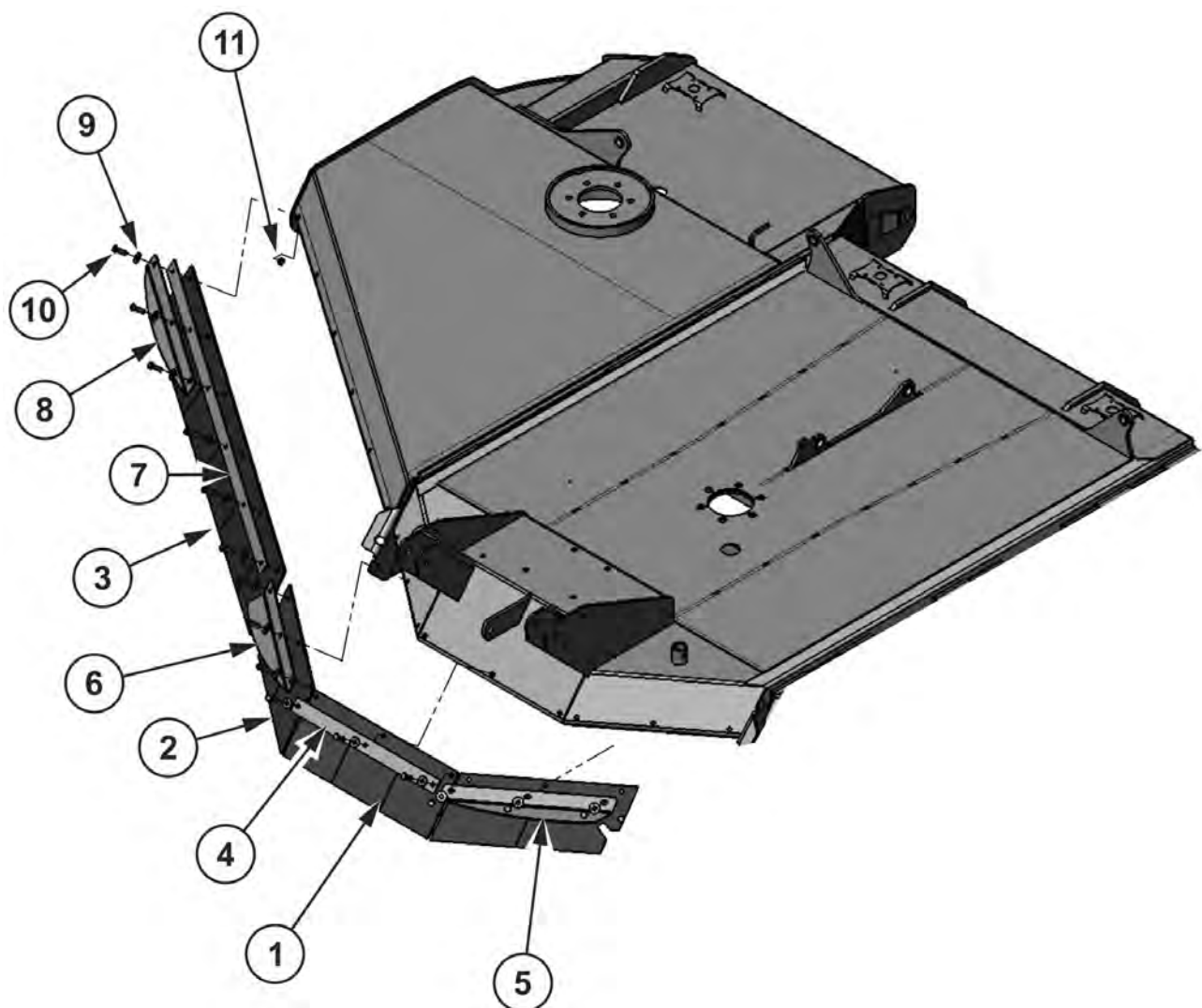
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DECAL LOCATION

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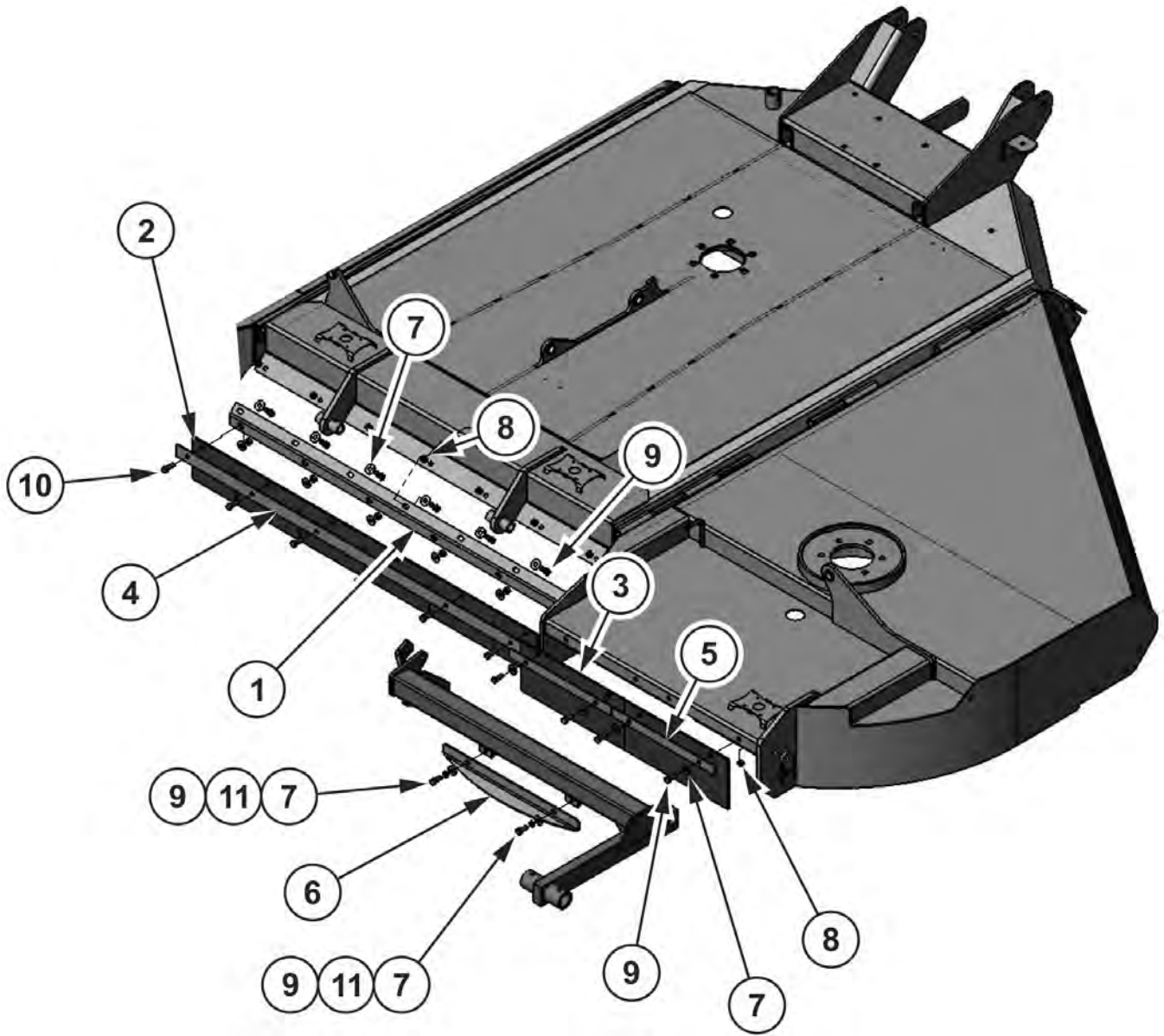
ITEM	PART NO.	QTY.	DESCRIPTION
1	D899	1	LUBRICATION CHART
2	D814	1	MULTI-LANGUAGE
3	D389	1	MULTI-HAZARD
4	00790563	1	RHINO 2150 LOGO (LEFT SIDE)
5	00790562	1	RHINO 2150 LOGO (RIGHT SIDE)
6	D534	3	BLADE BOLT TORQUE
7	D138	1	BLADE ROTATION-CCW
8	00790564	1	2150
9	D614	6	THROWN OBJECTS
10	D137	2	BLADE ROTATION-CW
11	D518	1	JACKSTAND POSITIONING
12	00786507	1	6-YEAR GEARBOX WARRANTY
13	00760657	1	GENUINE RHINO PARTS
14	00756004	3	SHIELD MISSING
15	D388	1	DRIVELINE HAZARD
16	D401	1	1000 RPM
17	D539	2	CRUSHING HAZARD - FALLING
18	00753840	2	WING LOWERING SAFETY
19	1458393	1	YELLOW REFLECTOR
20	D390	1	PULL TYPE UNIT HAZARD
21	D520	1	TRANSPORT LATCH
22	03200347	1	SMV SIGN
23	00776031	1	CANISTER W/ MANUAL #00790565C
24	1458392	2	RED REFLECTOR
25	D519	2	CRUSHING HAZARD - LOCK
26	1006348	6	TIRE EXPLOSION HAZARD (NOT SHOWN)
27	-----	1	SERIAL NUMBER PLATE (NOT SHOWN)

DEFLECTOR ASSEMBLY - FRONT

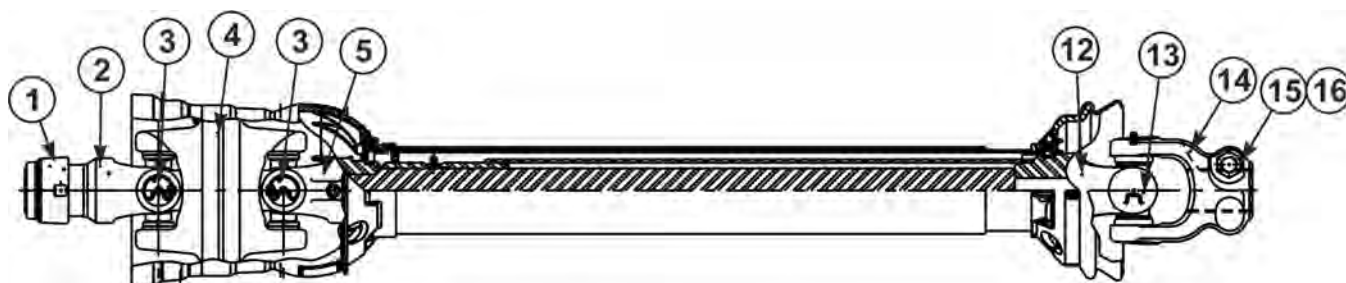


ITEM	PART NO.	QTY.	DESCRIPTION
1	00785884	1	PANEL, CENTER FRONT RUBBER DEFLECTOR
2	00785882	2	PANEL, CENTER SIDE RUBBER DEFLECTOR
3	00790546	2	PANEL, FRONT WING RUBBER DEFLECTOR
4	00759856	1	BAND, DEBRIS DEFLECTOR
5	00790579	1	GUARD, LEFT FRONT FOOT PROBE
6	00790580	1	GUARD, RIGHT FRONT FOOT PROBE
7	00790547	2	STRAP, FRONTWING DEFLECTOR
8	00790543	2	BRACKET, 2150 FOOT PROBE
9	00002700	21	FLATWASHER 1/2 PL STD
10	00748823	21	HHCS 1/2-13 UNC X 1-1/2 GR.5 PL
11	00001800	21	LOCKNUT TLM 1/2 NC PLC

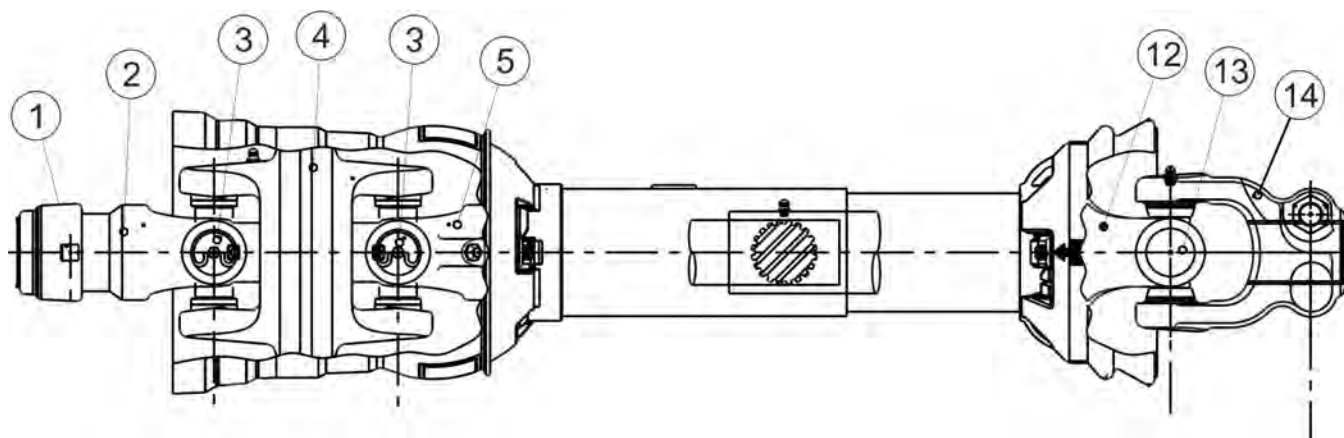
DEFLECTOR ASSEMBLY - REAR



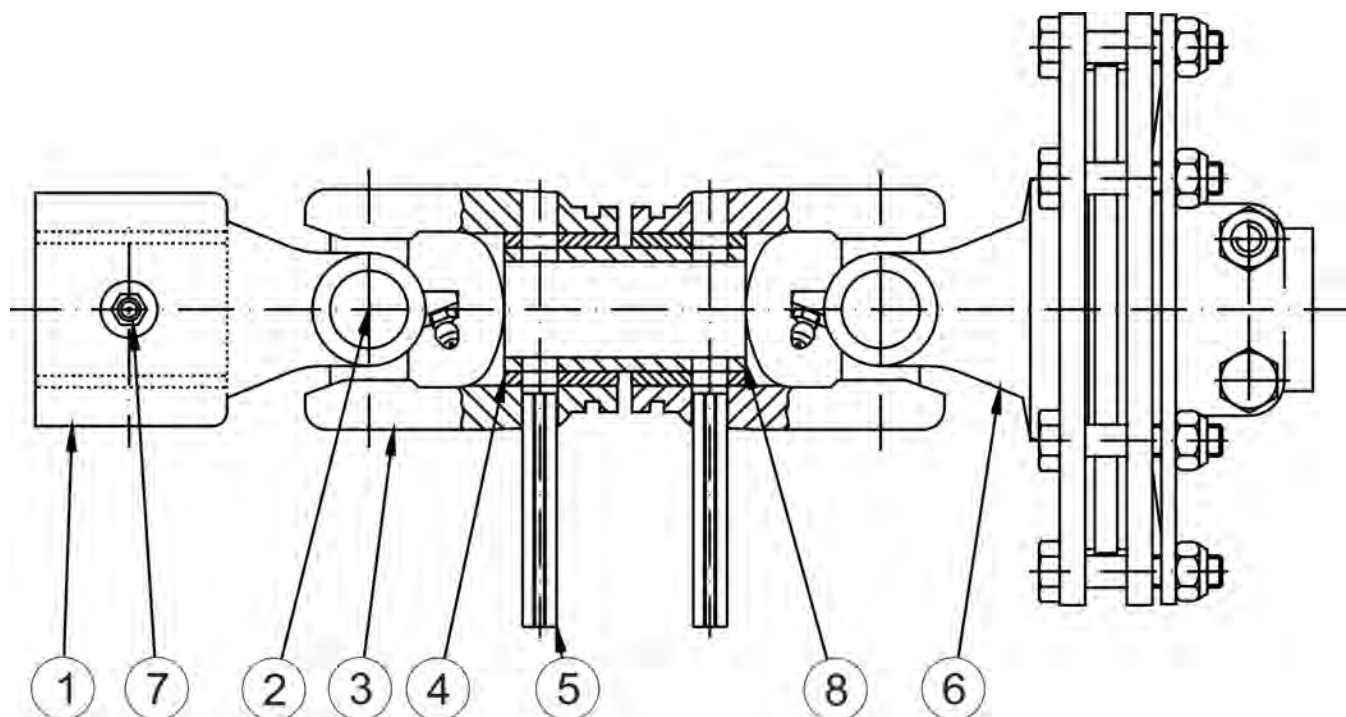
ITEM	PART NO.	QTY.	DESCRIPTION
1	00785881	1	BRACKET, REAR DEFLECTOR MOUNT
2	00785883	1	PANEL, CENTER REAR RUBBER DEFLECTOR
3	00773014	4	SHIELD, DEFLECTOR
4	00785880	1	STRAP, SD CENTER REAR DEFLECTOR
5	00773015	4	BAR SUPPORT DEFLECTOR
6	00790581	2	GUARD, REAR WING FOOT PROBE
7	00002700	25	FLATWASHER 1/2 PL STD
8	00001800	21	LOCKNUT TLM 1/2 NC PLC
9	02030700	19	HHCS 1/2-13NC X 1-1/4 GR5 PL
10	00748823	6	HHCS 1/2-13 UNC X 1-1/2 GR.5 PL
11	00001300	4	WASHER, LOCK 1/2 GD8 YDP



ITEM	PART NO.	QTY.	DESCRIPTION
1	2716820	1	REPAIR KIT-SAFETY SLIDE LOCK YOKE
2	00785556	1	ASY SAFETY SLIDE LOCK YOKE 1-3/8 - 21 SPLINE
3	00779521	2	KIT CROSS AND BEARING
4	00779520	1	HOUSING CENTER
5	00786380	1	WDMT YOKE AND SHAFT (SPLINED)
12	00786381	1	WDMT YOKE.TUBE & SLEEVE
13	00779519	1	KIT CROSS & BEARING
14	00779518	1	YOKE
15	02956948	1	LOCKNUT 5/8 NC PLC
16	00765690	1	HHCS 5/8-11 UNC 3LG GR8 PL BOLT HEX HD
17	00779525	1	ASY GUARD SET

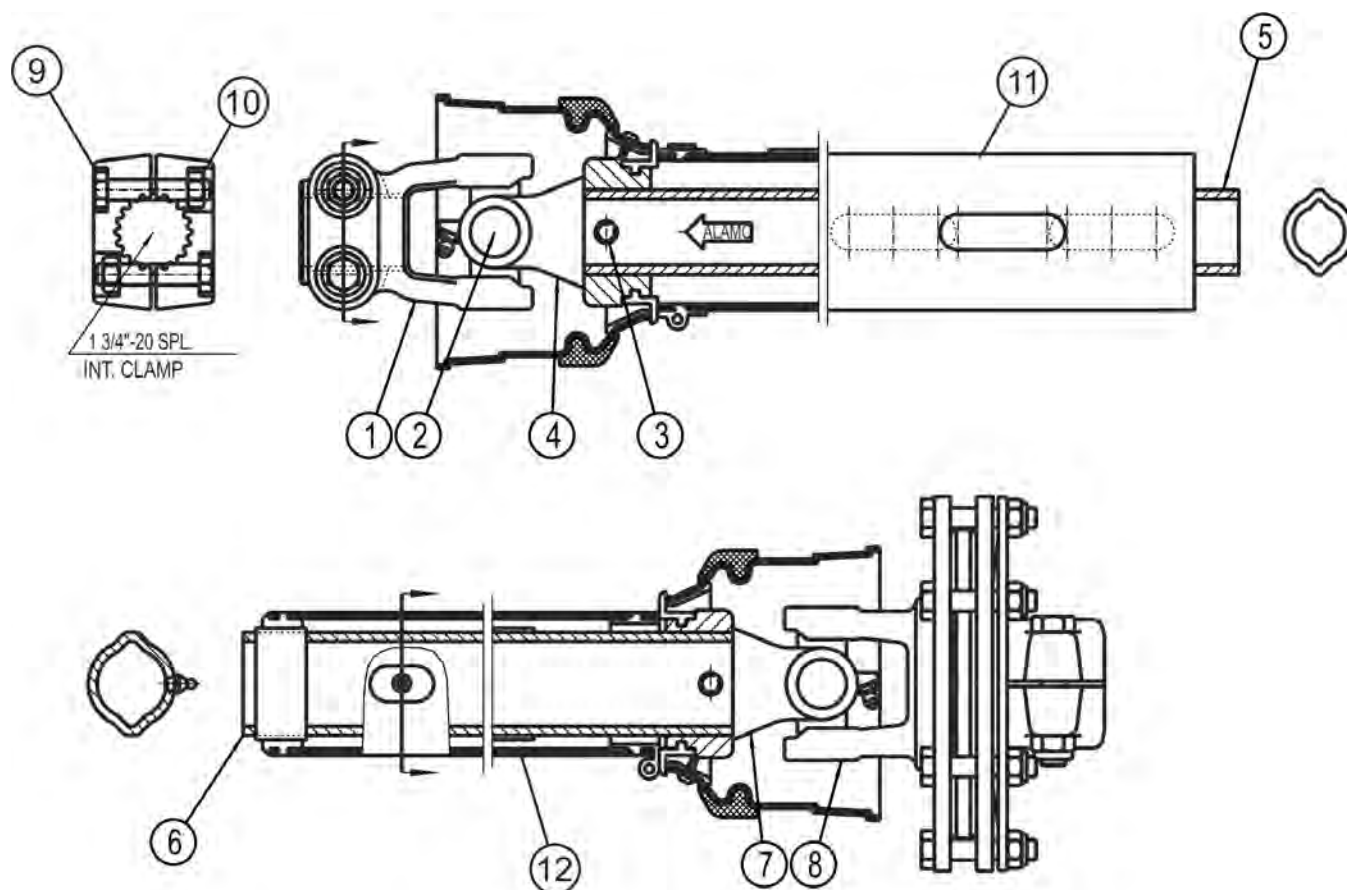


ITEM	PART NO.	QTY.	DESCRIPTION
1	2716820	1	REPAIR KIT, SAFTEY SLIDE LOCK YOKE
2	00779522	1	ASSEMBLY, SAFTEY SLIDE LOCK YOKE
3	00779521	1	KIT CROSS AND BEARING
4	00779520	1	CENTER HOUSING
5	00786380	1	WLDMT, YOKE AND SHAFT
12	00786381	1	WLDMT, YOKE TUBE AND SLEEVE
13	00779519	1	KIT, CROSS AND BEARING
14	00779518	1	YOKE
15	02956948	1	LOCKNUT 5/8" NC PLC (NOT SHOWN)
16	00775690	1	HHCS 5/8"-11 UNC 3LG GR8 PL (NOT SHOWN)
17	00779525	1	ASSEMBLY, GUARD SET (NOT SHOWN)



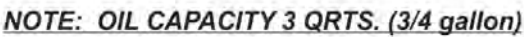
ITEM	PART NO.	QTY.	DESCRIPTION
1	00775341	1	YOKE 1 3/4"-20 SPL
2	TF1302	2	CROSS AND BEARING KIT
3	00775318	2	INBOARD YOKE
4	00786275	2	OUTER PROFILE
5	00756934	2	SPRING PING
6	00775315	1	FRICTION CLUTCH
7	00775463	1	GREASE ZERK
8	00786276	1	INNER PROFILE

DRIVELINE - WING 00775312



ITEM	PART NO.	QTY.	DESCRIPTION
	00775312	1	DRIVELINE ASSEMBLY
1	00775316	1	YOKE
2	W279R	2	CROSS & BEARING KIT
3	8384	2	SPRING PIN
4	00775317	1	INBOARD YOKE
5	00775375	1	INNER PROFILE
6	00775376	1	PROFILE & SLEEVE W.A.
7	00775318	1	INBOARD YOKE
8	00775315	1	FRICTION CLUTCH
9	8393	2	BEARING RING
10	4797	2	SCREW
11	8974	1	SUPPORT BEARING
12	1416601	1	ZERK
14	00775327	2	NUT
15	00775384	2	BOLT

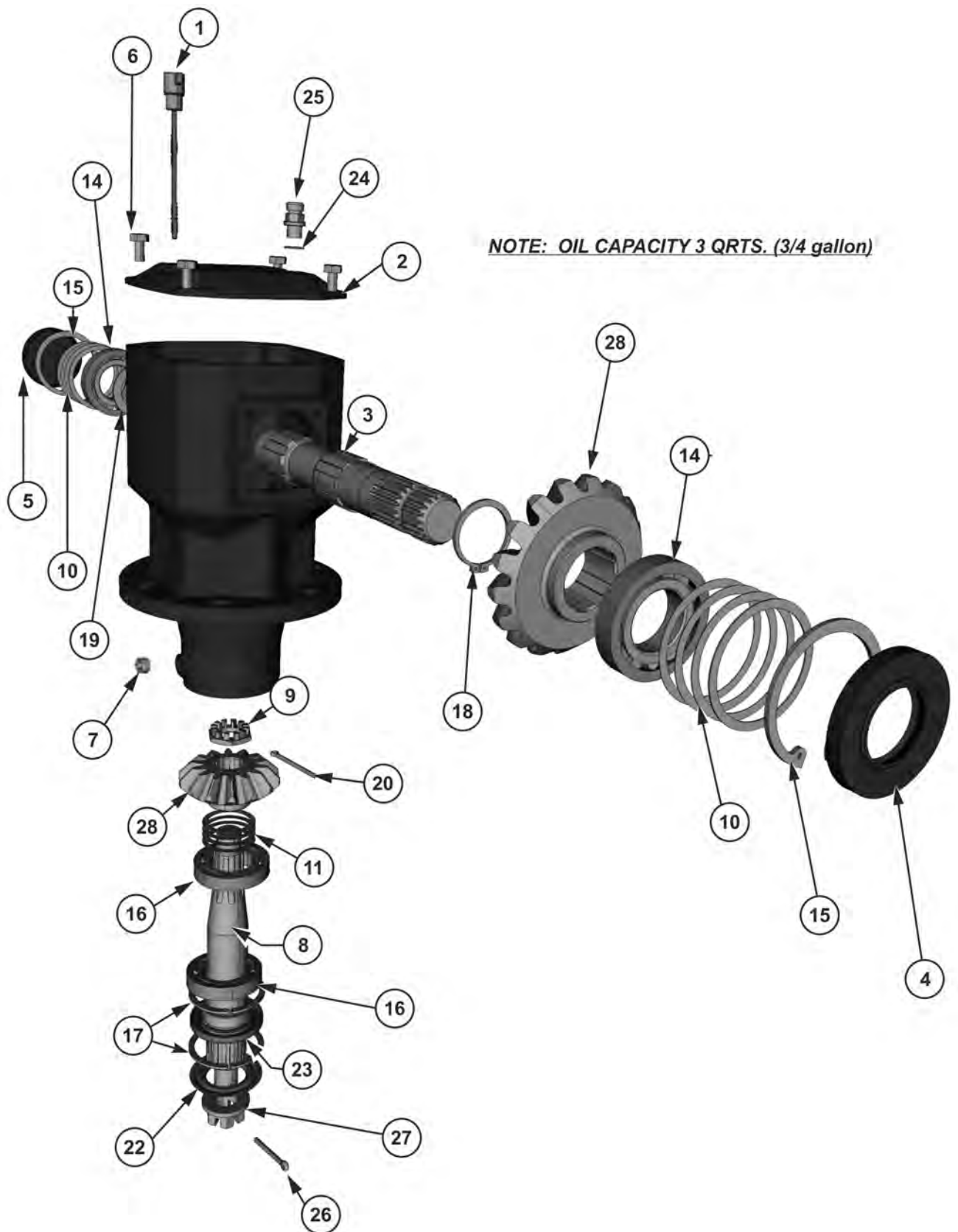
GEARBOX ASSEMBLY - 00791056 - 1:1.21 RATIO, 1000RPM RW



GEARBOX ASSEMBLY - 00791056 - 1:1.21 RATIO, 1000RPM RW**Continued...**

ITEM	PART NO.	QTY.	DESCRIPTION
1	4038611	1	DIPSTICK, OIL
2	00791063	1	CAP, HOUSING
3	00791064	1	SHAFT, INPUT 1-3/4 20-SPL
4	00753238	1	SEAL, OIL (45 X 85 X 10)
5	00755634	1	CAP, OIL (85 X 10)
6	00754764	4	HHCS, M10-1.5 X 20
7	00791032	1	PLUG, SOCKET HEAD-6MB
8	00791065	1	SHAFT, OUTPUT
9	00755621	1	NUT, CASTLE M30-1.5
10	00791066	2	KIT, INPUT SHIM
11	00791067	1	KIT, OUTPUT SHIM
14	00755615	2	BEARING, ROLLER - 45X85X20.75
15	00755618	2	RING, SNAP DIN 472 (85 X 88.5 X 3)
16	00769938	2	BEARING, ROLLER - 50X90X21.75
17	00791083	2	RING, SNAP DIN 472 (90 X 93.5 X 3)
18	2516460	1	RING, SNAP EXT. (50X47X3)
19	00755632	1	SHIM, (45.3X65.3X2.5)
20	70499	1	PIN, COTTER M5 X 63
21	00791082	1	TAG, GEARBOX
22	00791085	1	SHIELD, PROTECTIVE
23	00791084	1	SEAL, OIL DBL LIP 60 X 90 X 10
24	00790983	1	WASHER, SEALING M16
25	00790985	1	PLUG, VENT M16-1.5
26	2716423	1	PIN, COTTER M6 X 60
27	00791093	1	NUT, CASTLE M30-2.0
28	00791079	1	GEAR KIT

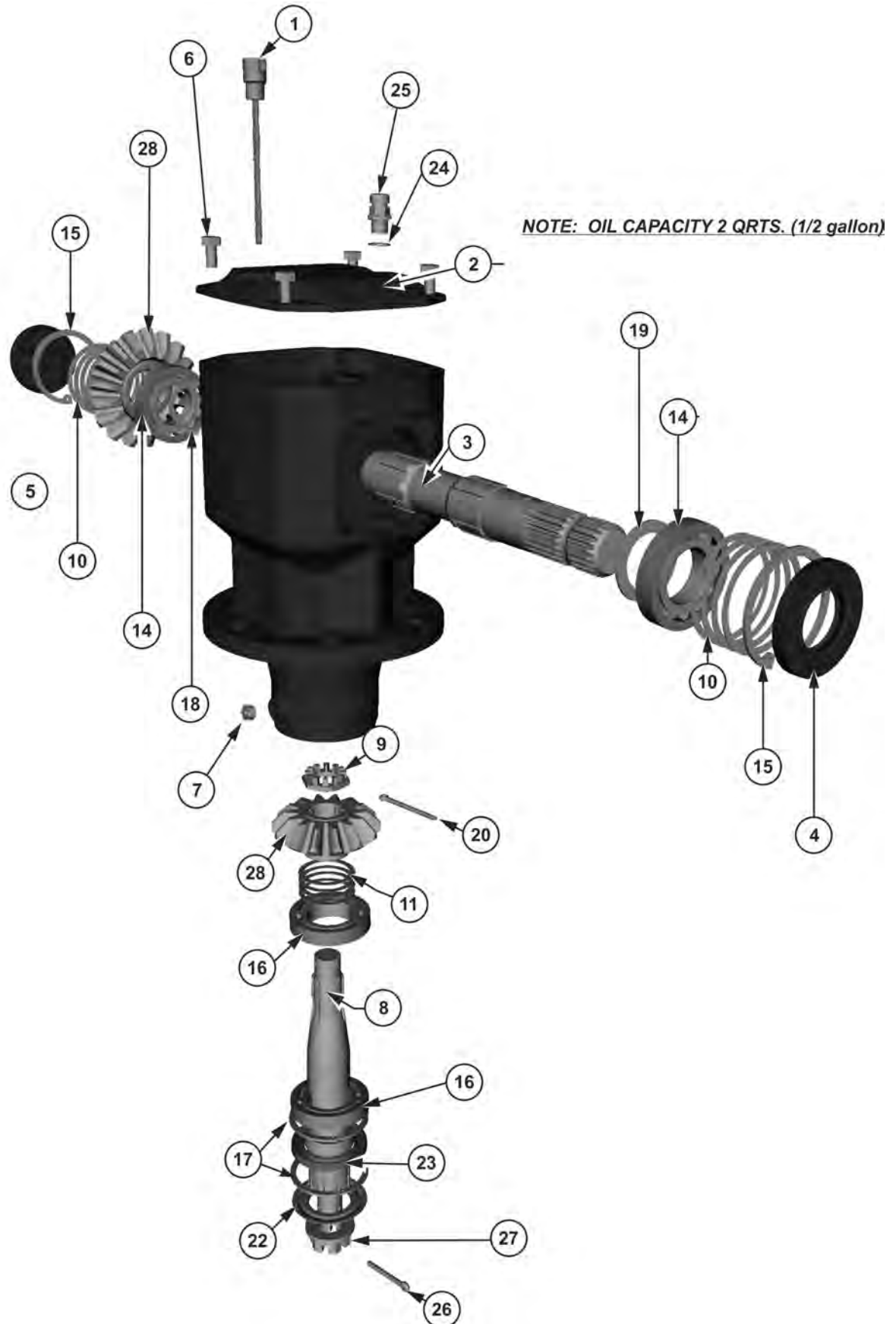
GEARBOX ASSEMBLY - 00791057 - 1:1.21 RATIO, 1000RPM LW



GEARBOX ASSEMBLY - 00791057 - 1:1.21 RATIO, 1000RPM LW**Continued...**

ITEM	PART NO.	QTY.	DESCRIPTION
1	4038611	1	DIPSTICK, OIL
2	00791063	1	CAP, HOUSING
3	00791064	1	SHAFT, INPUT 1-3/4 20-SPL
4	00753238	1	SEAL, OIL (45 X 85 X 10)
5	00755634	1	CAP, OIL (85 X 10)
6	00754764	4	HHCS, M10-1.5 X 20
7	00791032	1	PLUG, SOCKET HEAD-6MB
8	00791065	1	SHAFT, OUTPUT
9	00755621	1	NUT, CASTLE M30-1.5
10	00791066	2	KIT, INPUT SHIM
11	00791067	1	KIT, OUTPUT SHIM
12	00791087	1	GEAR, 13 TOOTH
13	00791088	1	GEAR, 19 TOOTH
14	00755615	2	BEARING, ROLLER - 45X85X20.75
15	00755618	2	RING, SNAP DIN 472 (85 X 88.5 X 3)
16	00769938	2	BEARING, ROLLER - 50X90X21.75
17	00791083	2	RING, SNAP DIN 472 (90 X 93.5 X 3)
18	2516460	1	RING, SNAP EXT. (50X47X3)
19	00755632	1	SHIM, (45.3X65.3X2.5)
20	70499	1	PIN, COTTER M5 X 63
22	00791085	1	SHIELD, PROTECTIVE
23	00791084	1	SEAL, OIL DBL LIP 60 X 90 X 10
24	00790983	1	WASHER, SEALING M16
25	00790985	1	PLUG, VENT M16-1.5
26	2716423	1	PIN, COTTER M6 X 60
27	00791093	1	NUT, CASTLE M30-2.0
28	00791079	1	GEAR KIT

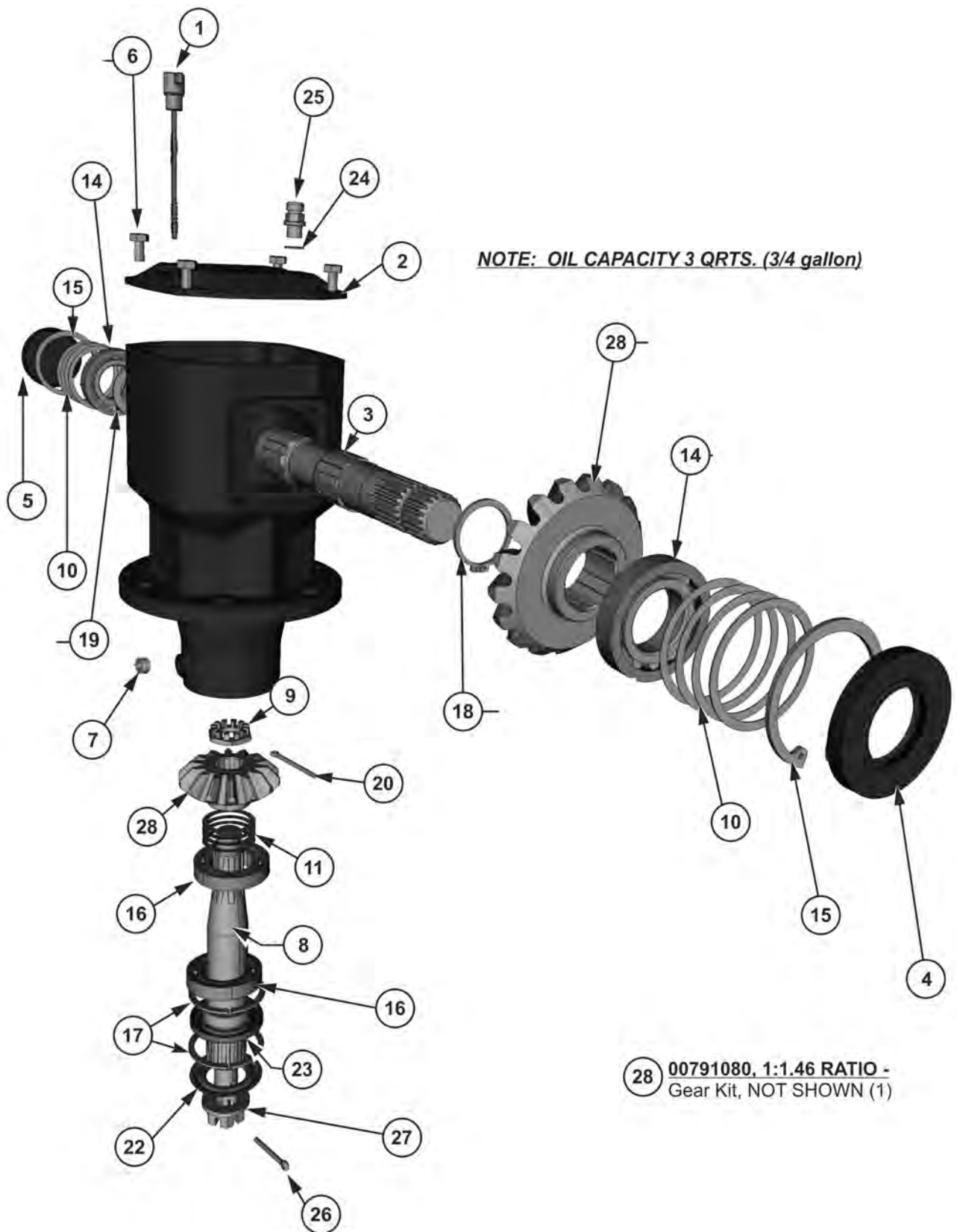
GEARBOX ASSEMBLY - 00791058 - 1:1.46 RATIO, 540RPM RW



GEARBOX ASSEMBLY - 00791058 - 1:1.46 RATIO, 540RPM RW**Continued...**

ITEM	PART NO.	QTY.	DESCRIPTION
1	4038611	1	DIPSTICK, OIL
2	00791063	1	CAP, HOUSING
3	00791064	1	SHAFT, INPUT 1-3/4 20-SPL
4	00753238	1	SEAL, OIL (45 X 85 X 10)
5	00755634	1	CAP, OIL (85 X 10)
6	00754764	4	HHCS, M10-1.5 X 20
7	00791032	1	PLUG, SOCKET HEAD-6MB
8	00791065	1	SHAFT, OUTPUT
9	00755621	1	NUT, CASTLE M30-1.5
10	00791066	2	KIT, INPUT SHIM
11	00791067	1	KIT, OUTPUT SHIM
14	00755615	2	BEARING, ROLLER - 45X85X20.75
15	00755618	2	RING, SNAP DIN 472 (85 X 88.5 X 3)
16	00769938	2	BEARING, ROLLER - 50X90X21.75
17	00791083	2	RING, SNAP DIN 472 (90 X 93.5 X 3)
18	2516460	1	RING, SNAP EXT. (50X47X3)
19	00755632	1	SHIM, (45.3X65.3X2.5)
20	70499	1	PIN, COTTER M5 X 63
22	00791085	1	SHIELD, PROTECTIVE
23	00791084	1	SEAL, OIL DBL LIP 60 X 90 X 10
24	00790983	1	WASHER, SEALING M16
25	00790985	1	PLUG, VENT M16-1.5
26	2716423	1	PIN, COTTER M6 X 60
27	00791093	1	NUT, CASTLE M30-2.0
28	00791080	1	GEAR KIT

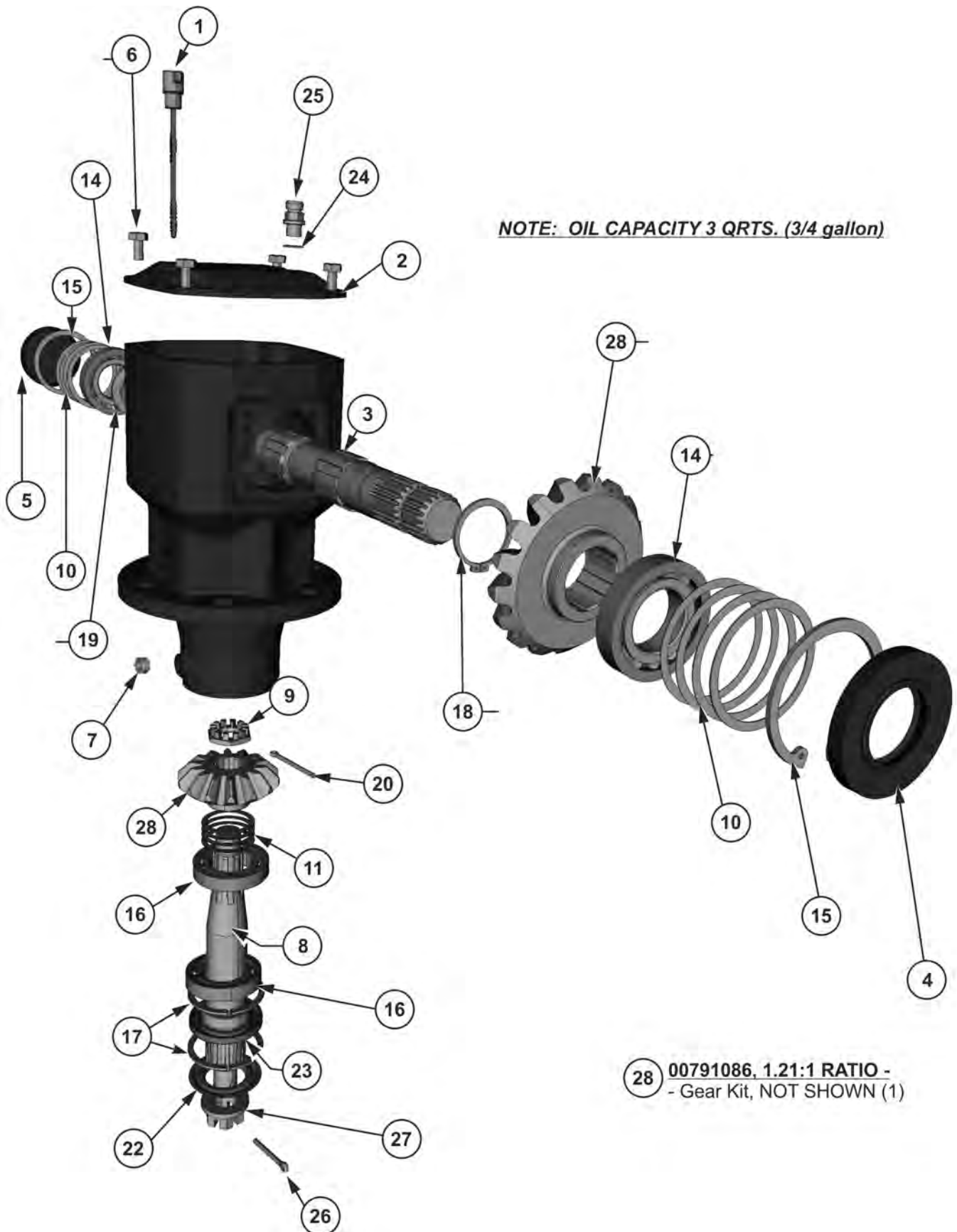
GEARBOX ASSEMBLY - 00791059 - 1:1.46 RATIO, 540RPM LW & CENTER



GEARBOX ASSEMBLY - 00791059 - 1:1.46 RATIO, 540RPM LW & CENTER**Continued...**

ITEM	PART NO.	QTY.	DESCRIPTION
1	4038611	1	DIPSTICK, OIL
2	00791063	1	CAP, HOUSING
3	00791064	1	SHAFT, INPUT 1-3/4 20-SPL
4	00753238	1	SEAL, OIL (45 X 85 X 10)
5	00755634	1	CAP, OIL (85 X 10)
6	00754764	4	HHCS, M10-1.5 X 20
7	00791032	1	PLUG, SOCKET HEAD-6MB
8	00791065	1	SHAFT, OUTPUT
9	00755621	1	NUT, CASTLE M30-1.5
10	00791066	2	KIT, INPUT SHIM
11	00791067	1	KIT, OUTPUT SHIM
14	00755615	2	BEARING, ROLLER - 45X85X20.75
15	00755618	2	RING, SNAP DIN 472 (85 X 88.5 X 3)
16	00769938	2	BEARING, ROLLER - 50X90X21.75
17	00791083	2	RING, SNAP DIN 472 (90 X 93.5 X 3)
18	2516460	1	RING, SNAP EXT. (50X47X3)
19	00755632	1	SHIM, (45.3X65.3X2.5)
20	70499	1	PIN, COTTER M5 X 63
22	00791085	1	SHIELD, PROTECTIVE
23	00791084	1	SEAL, OIL DBL LIP 60 X 90 X 10
24	00790983	1	WASHER, SEALING M16
25	00790985	1	PLUG, VENT M16-1.5
26	2716423	1	PIN, COTTER M6 X 60
27	00791093	1	NUT, CASTLE M30-2.0
28	00791080	1	GEAR KIT

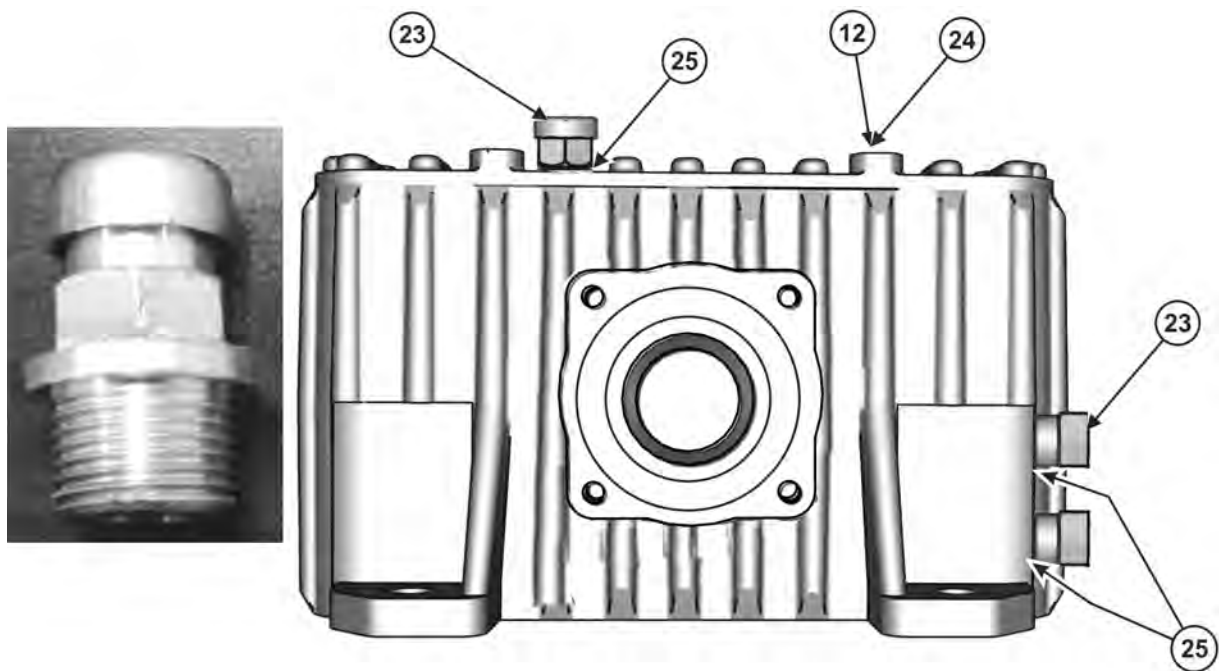
GEARBOX ASSEMBLY - 00791061 - 1.21:1 RATIO, 1000RPM CENTER



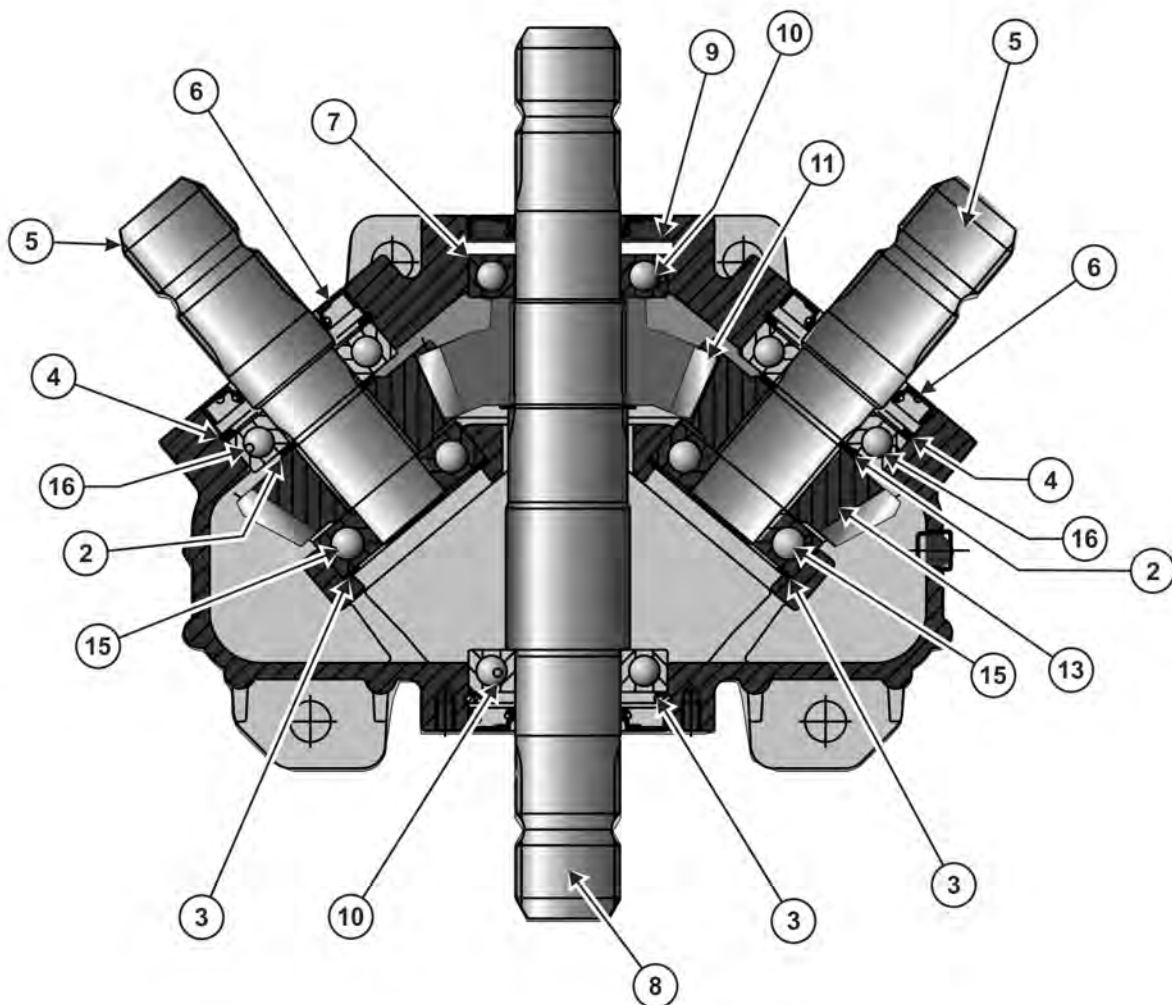
GEARBOX ASSEMBLY - 00791061 - 1.21:1 RATIO, 1000RPM CENTER**Continued...**

ITEM	PART NO.	QTY.	DESCRIPTION
1	4038611	1	DIPSTICK, OIL
2	00791063	1	CAP, HOUSING
3	00791064	1	SHAFT, INPUT 1-3/4 20-SPL
4	00753238	1	SEAL, OIL (45 X 85 X 10)
5	00755634	1	CAP, OIL (85 X 10)
6	00754764	4	HHCS, M10-1.5 X 20
7	00791032	1	PLUG, SOCKET HEAD-6MB
8	00791065	1	SHAFT, OUTPUT
9	00755621	1	NUT, CASTLE M30-1.5
10	00791066	2	KIT, INPUT SHIM
11	00791067	1	KIT, OUTPUT SHIM
14	00755615	2	BEARING, ROLLER - 45X85X20.75
15	00755618	2	RING, SNAP DIN 472 (85 X 88.5 X 3)
16	00769938	2	BEARING, ROLLER - 50X90X21.75
17	00791083	2	RING, SNAP DIN 472 (90 X 93.5 X 3)
18	2516460	1	RING, SNAP EXT. (50X47X3)
19	00755632	1	SHIM, (45.3X65.3X2.5)
20	70499	1	PIN, COTTER M5 X 63
22	00791085	1	SHIELD, PROTECTIVE
23	00791084	1	SEAL, OIL DBL LIP 60 X 90 X 10
24	00790983	1	WASHER, SEALING M16
25	00790985	1	PLUG, VENT M16-1.5
26	2716423	1	PIN, COTTER M6 X 60
27	00791093	1	NUT, CASTLE M30-2.0
28	00791086	1	GEAR KIT

GEARBOX ASSEMBLY - DIVIDER, 00786931 1-3/4-20 OUTPUT SPL, 540 RPM



NOTE: OIL CAPACITY 2QRTS.(1/2 GALLON)

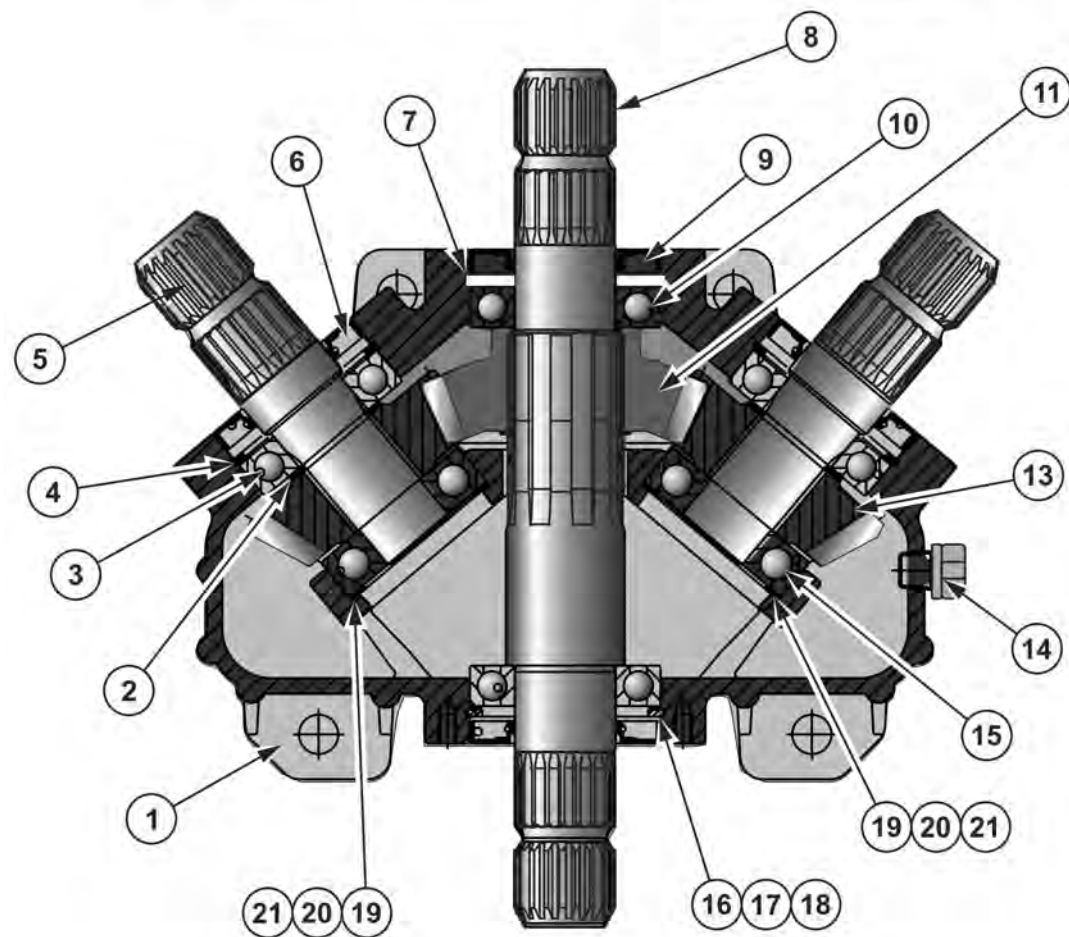
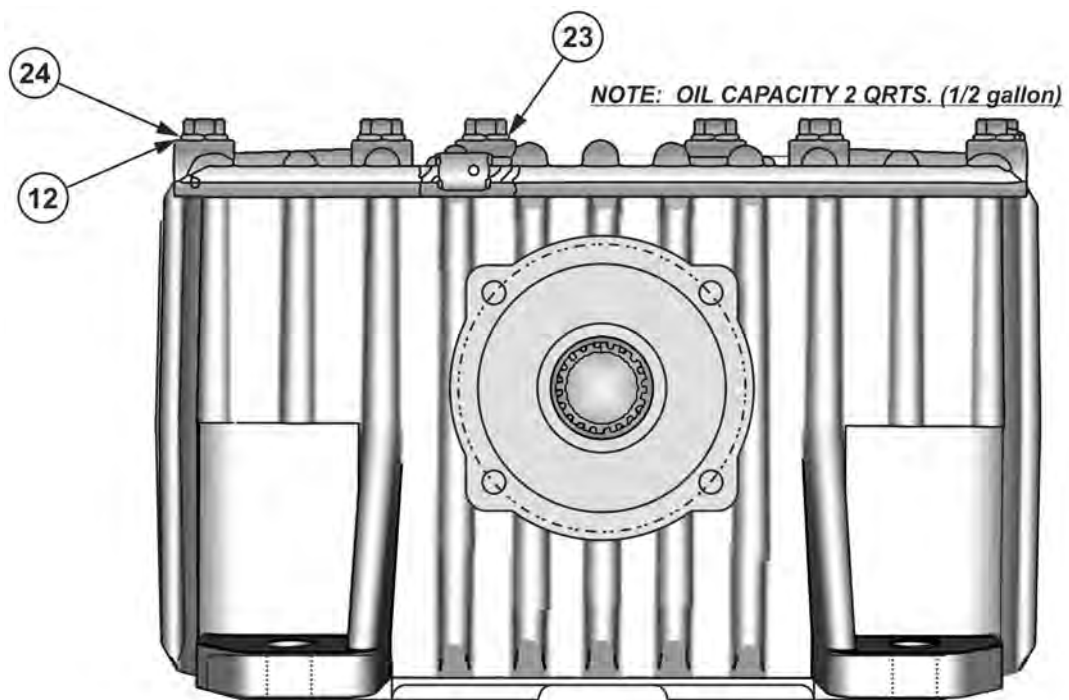


GEARBOX ASSEMBLY - DIVIDER, 00786931 1-3/4-20 OUTPUT SPL, 540 RPM

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
	00786931	1	COMPLETE GEARBOX
3	00786952	1	KIT,SHIM
5	00786950	2	SHAFT,OUTPUT - 1-3/4-20 SPL.
6	00756644	2	SEAL,OIL 45 X 80 X 10
8	00786949	1	SHAFT,INPUT THRU - 1-3/4-20 SPL.
9	00753238	2	SEAL,OIL 45 X 85 X 10
10	00755070	2	BEARING,ROLLER - 6209
11	00786953	1	GEAR - 24 TOOTH
12	701611C	6	LOCKWASHER M8
13	00786954	2	GEAR - 20 TOOTH
14	00770737	3	PLUG,DRAIN - M18 X 1.5
15	00753223	2	BEARING,ROLLER - 6307
16	00563700	2	BEARING,ROLLER - 6208
23	00762114	1	PLUG,VENT - M18 X 1.5 (5-8 PSI)
24	613512C8	6	HEXB M8 X 1.25 X 40 PL.8.8
25	00769321	3	WASHER,SEALING - 23 X 18 X 1.5

GEARBOX ASSEMBLY - DIVIDER, 00786999 1000RPM

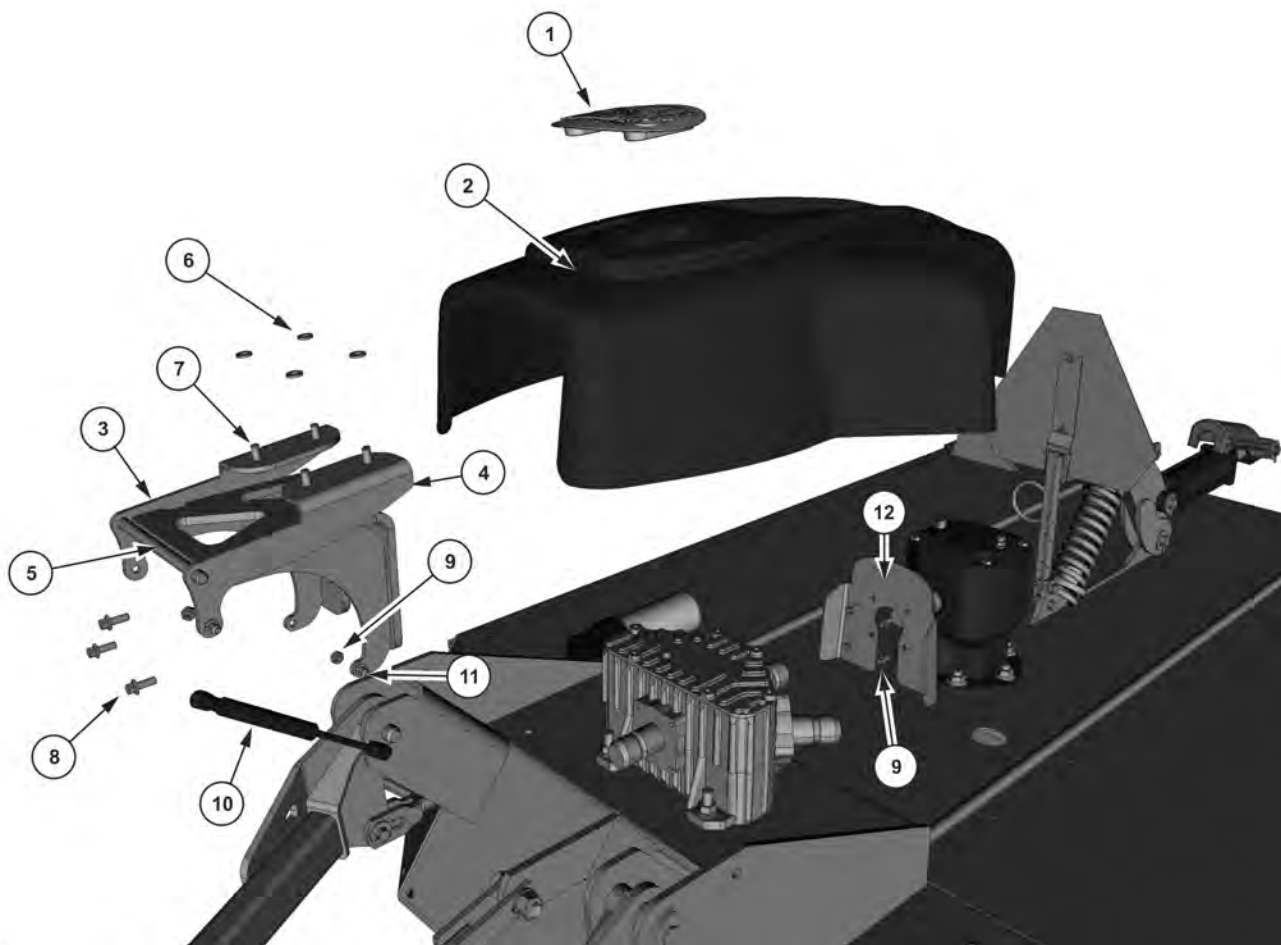


GEARBOX ASSEMBLY - DIVIDER, 00786999 1000RPM

Continued...

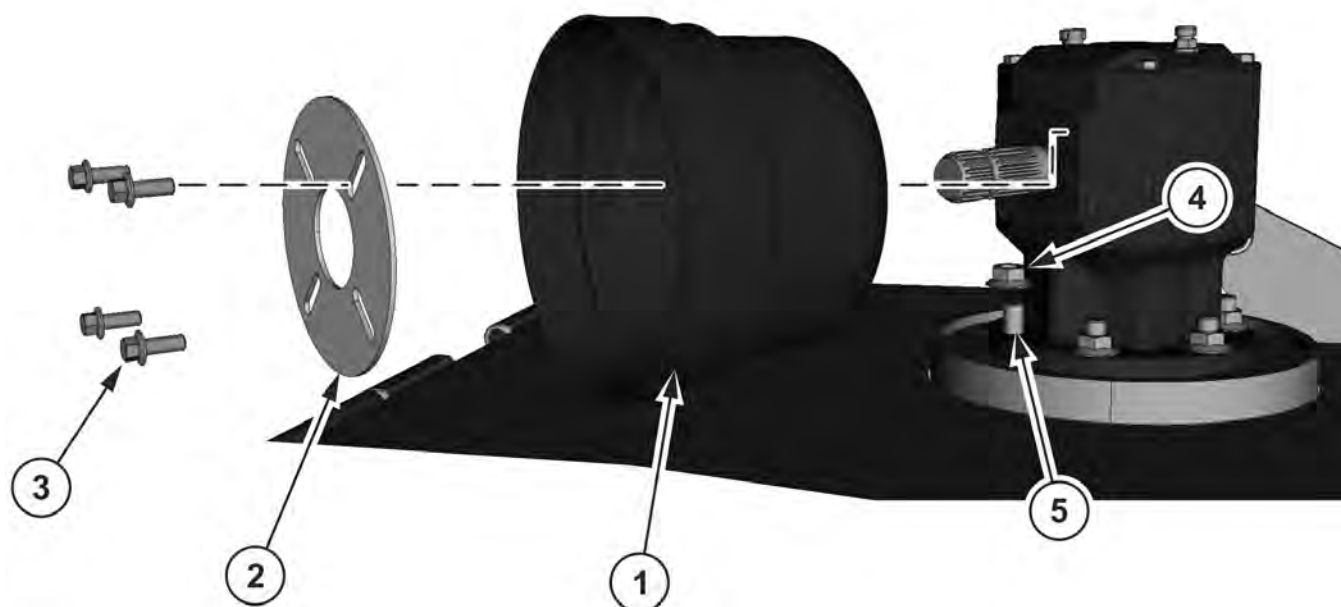
ITEM	PART NO.	QTY.	DESCRIPTION
2	00786957	2	RING,RETAINING - 40MM
3	00563700	2	BEARING,ROLLER - 6208
4	00786955	2	RING,RETAINING - 80MM
5	00786950	2	SHAFT,OUTPUT - 1-3/4-20 SPL.
6	00756644	2	SEAL,OIL 45 X 80 X 10
7	00786956	2	RING,RETAINING - 85MM
8	00786949	1	SHAFT,INPUT THRU - 1-3/4-20 SPL.
9	00753238	2	SEAL,OIL 45 X 85 X 10
10	00755070	2	BEARING,ROLLER - 6209
11	00786996	1	GEAR - 20 TOOTH
12	701611C	6	LOCKWASHER M8
13	00786997	2	GEAR - 24 TOOTH
14	00770737	3	PLUG,DRAIN - M18 X 1.5
15	00753223	2	BEARING,ROLLER - 6307
16	00786952	1	KIT,SHIM
23	00762114	1	PLUG,VENT - M18 X 1.5 (5-8 PSI)
24	613512C8	6	HEXB M8 X 1.25 X 40 PL.8.8
25	00769321	3	WASHER,SEALING - 23 X 18 X 1.5

GEARBOX SHIELD ASSEMBLY - DIVIDER & CENTER



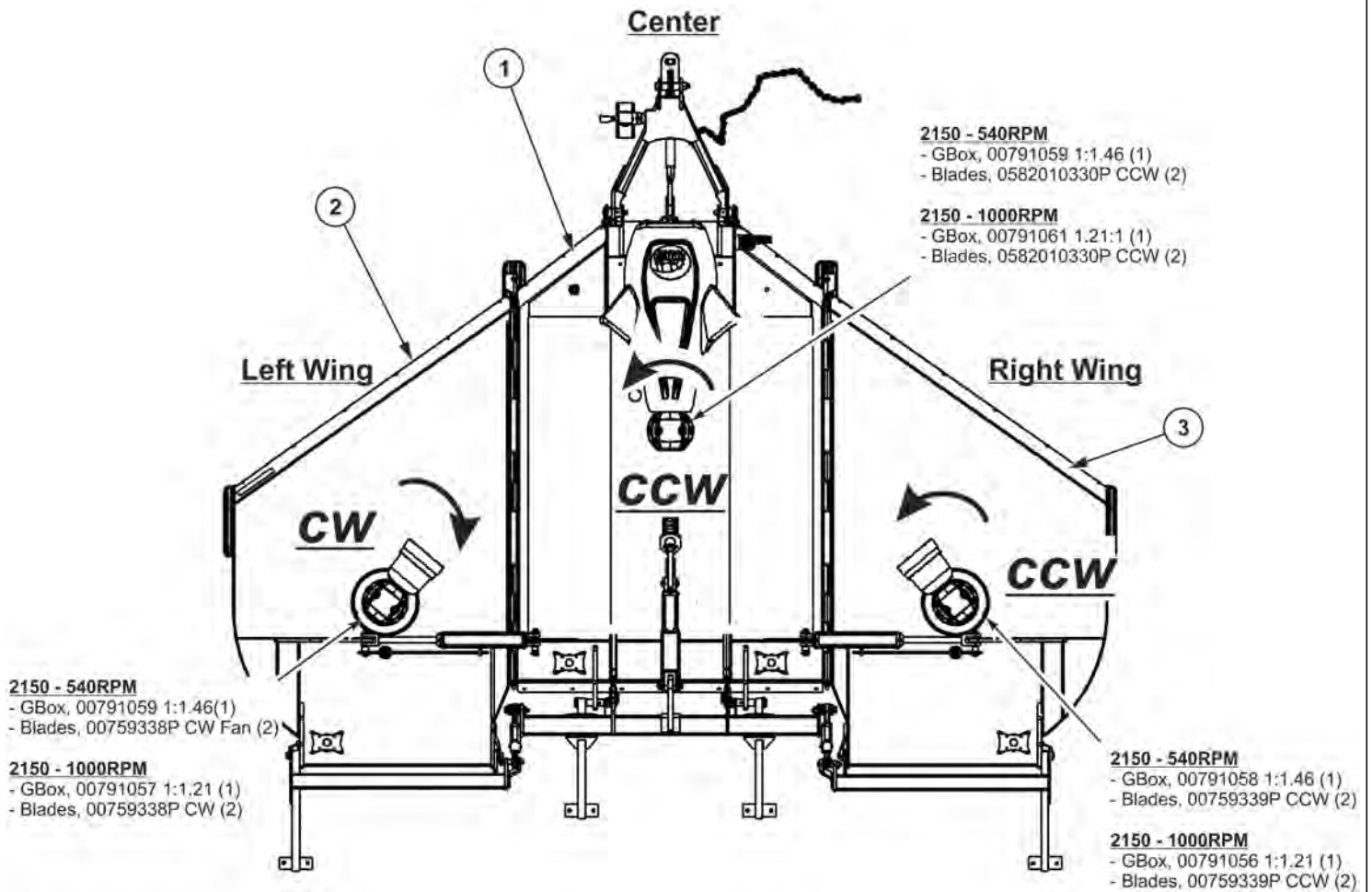
ITEM	PART NO.	QTY.	DESCRIPTION
1	00791182	1	EMBLEM, DIVIDER SHIELD RHINO
2	00790540	1	COMPOSITE DIVIDER SHIELD
3	00791239	1	BRACKET, RIGHT SHIELD PIVOT MOUNT
4	00791238	1	BRACKET, LEFT SHIELD PIVOT MOUNT
5	00791234	1	WELDMENT, COMER FRONT SHIELD PIVOT
6	03101646	4	HIGH ALLOY, L/W 3/8 YZ
7	00011400	4	HEXB 3/8" NC X 1" PL5
8	00791651	15	HEXB SER FLG M8-20MM 1.25 P 10.9
9	00750940	4	NUT, TOPLOCK 5/16 NC PLB
10	00791353	1	GAS SPRING
11	00791441	2	BALL STUD, 10MM
12	00790539	1	BRACKET, REAR SHIELD SUPPORT

GEARBOX SHIELD ASSEMBLY - WING



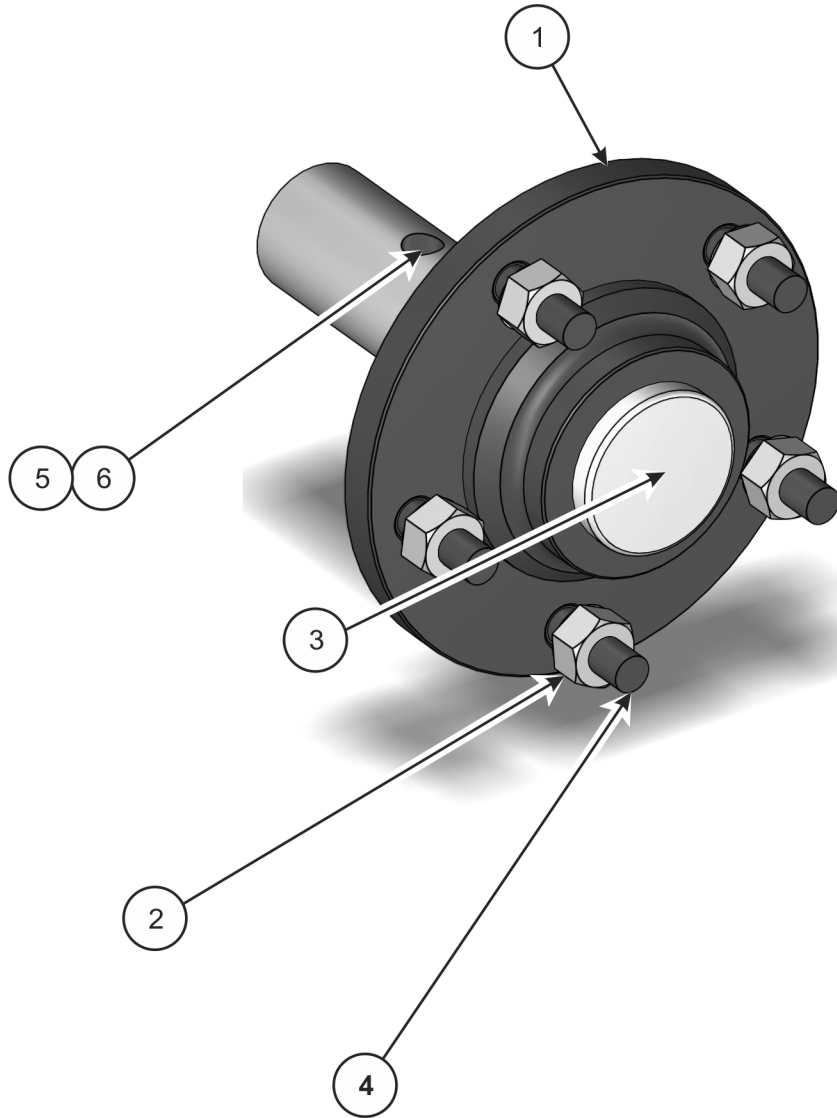
ITEM	PART NO.	QTY.	DESCRIPTION
1	00789007	1	DRIVELINE SHIELD, BLACK
2	00785574	1	SHIELD INNER SUPPORT RING
3	00791651	4	HEXSERRATED FLANGE BOLT M8X1.25X20 PL10.9
4	329915H8C	6	NUT, HEX FLANGE SPIRALOCK 3/4-10
5	00760711	6	HHCS 5/8-11 NC X 1-3/4 PL5

GEARBOX, BLADES, & ROTATION CHART - 2150 (FOR REFERENCE ONLY)



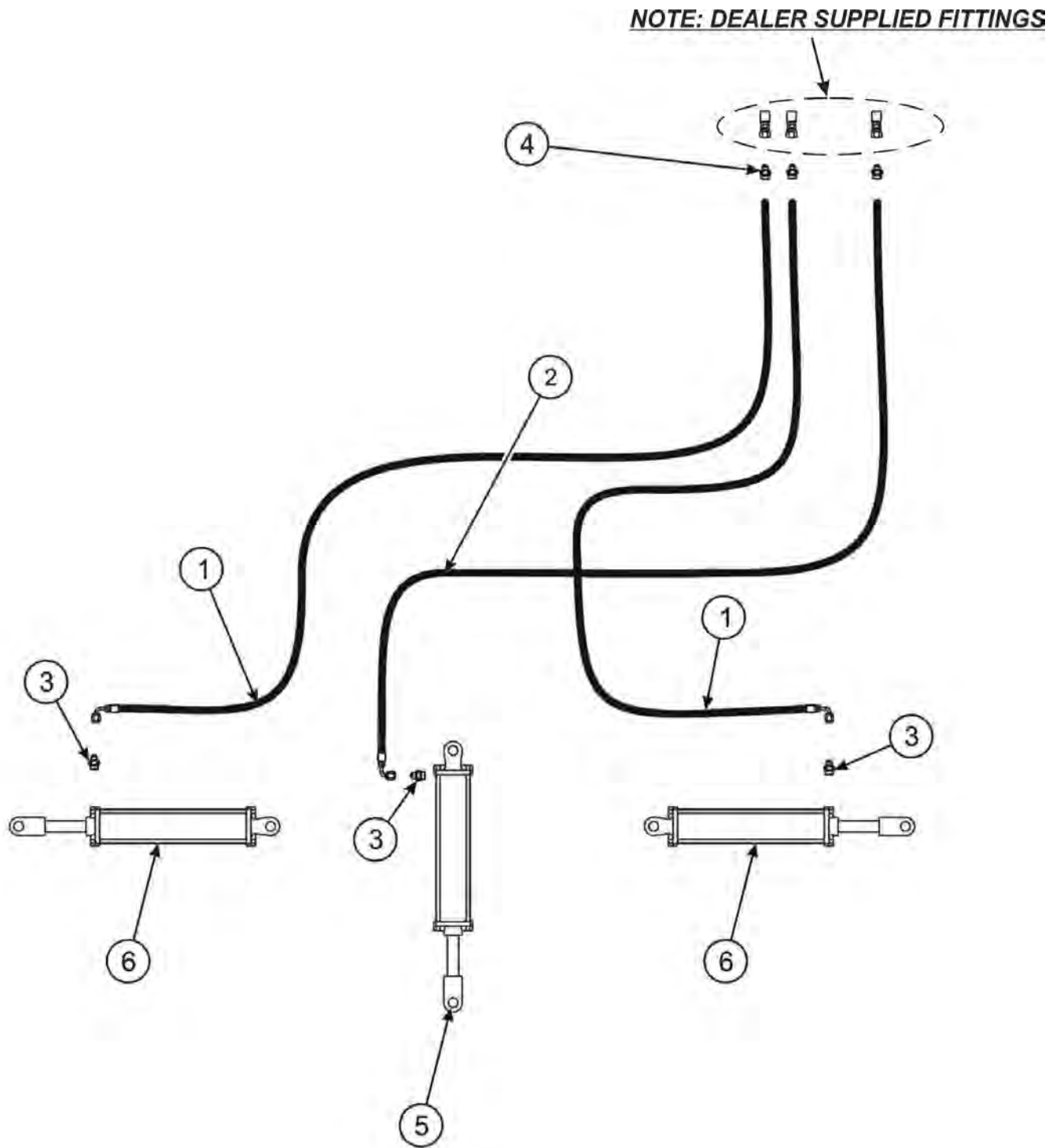
ITEM	PART NO.	QTY.	DESCRIPTION
1	00790500	1	CNTR DECK WLDMT
2	00790510	1	LEFT WING DECK WLDMT
3	00790511	1	RIGHT WING DECK WLDMT

HUB & SPINDLE ASSEMBLY - 00790220



ITEM	PART NO.	QTY.	DESCRIPTION
1	00790220	1	HUB-SPINDLE
2	00750614	5	NUT, 1/2-20NF 90° CONE LUG PL
3	00790292	1	CAP, HUB
4	13198	5	STUD BOLT, 1/2-20 X 1-7/8
5	00605600	1	HHCS ½ NC 3-1/4 PL5
6	00001800	1	LOCKNUT, TLM ½ NC PLC

HYDRAULIC HOSE LAYOUT

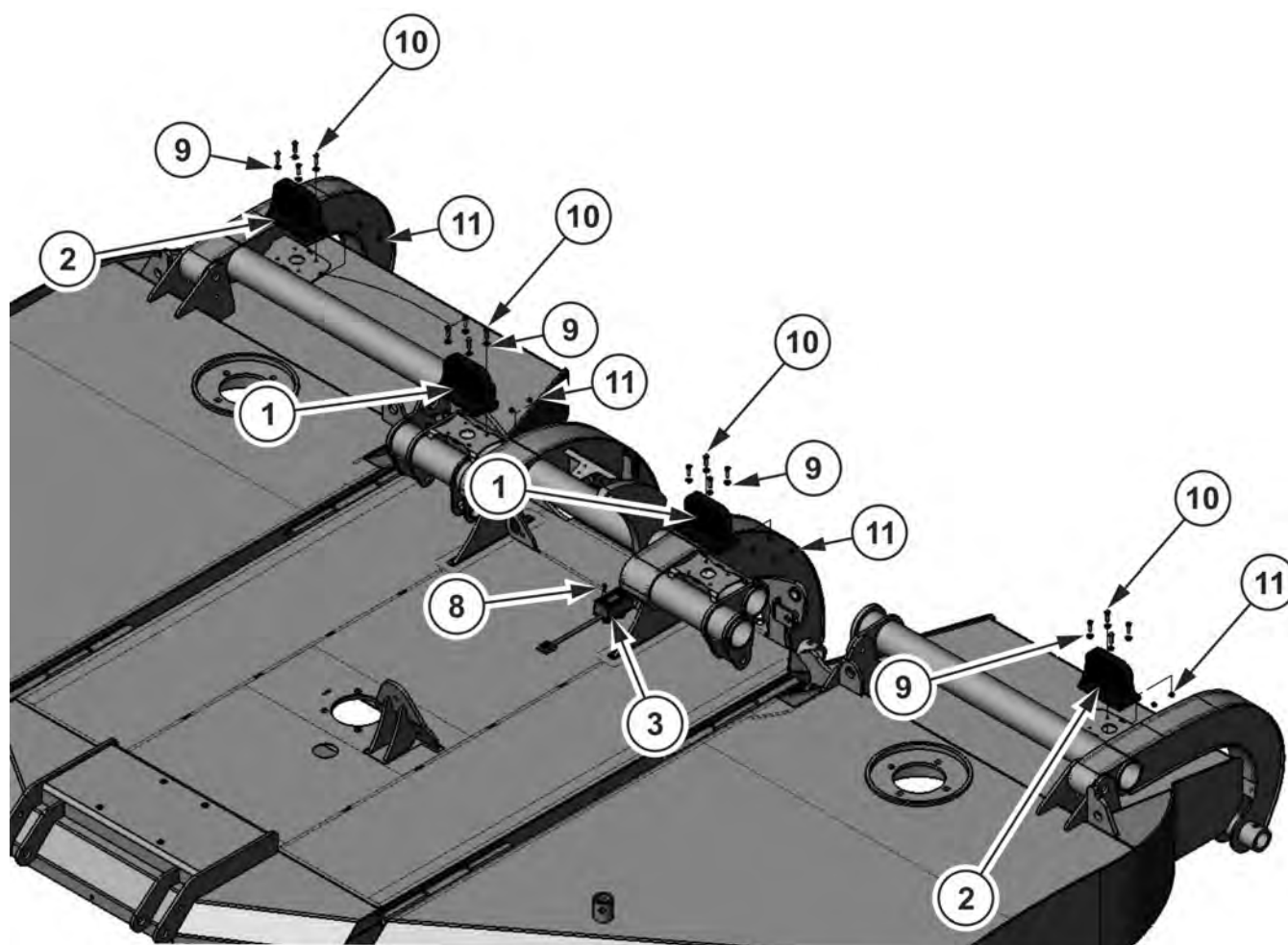


HYDRAULIC HOSE LAYOUT

Continued...

ITEM	PART NO.	QTY.	DESCRIPTION
1	00786769	2	HOSE #4 - 6FJX90 - 6FJX- 240LG
2	00786768	1	HOSE #4 - 6FJX90 - 6FJX- 204LG
3	00786767	3	ADP HYD STGHT 8MB - 6MJ W/.062
4	02968850	3	ADP HYD STGHT 8MB-6MJ
5	8727A	1	CYLINDER, HYD 2-1/2 X 8
6	8728A	2	CYLINDER, HYD 2-1/2 X 14

LIGHT KIT

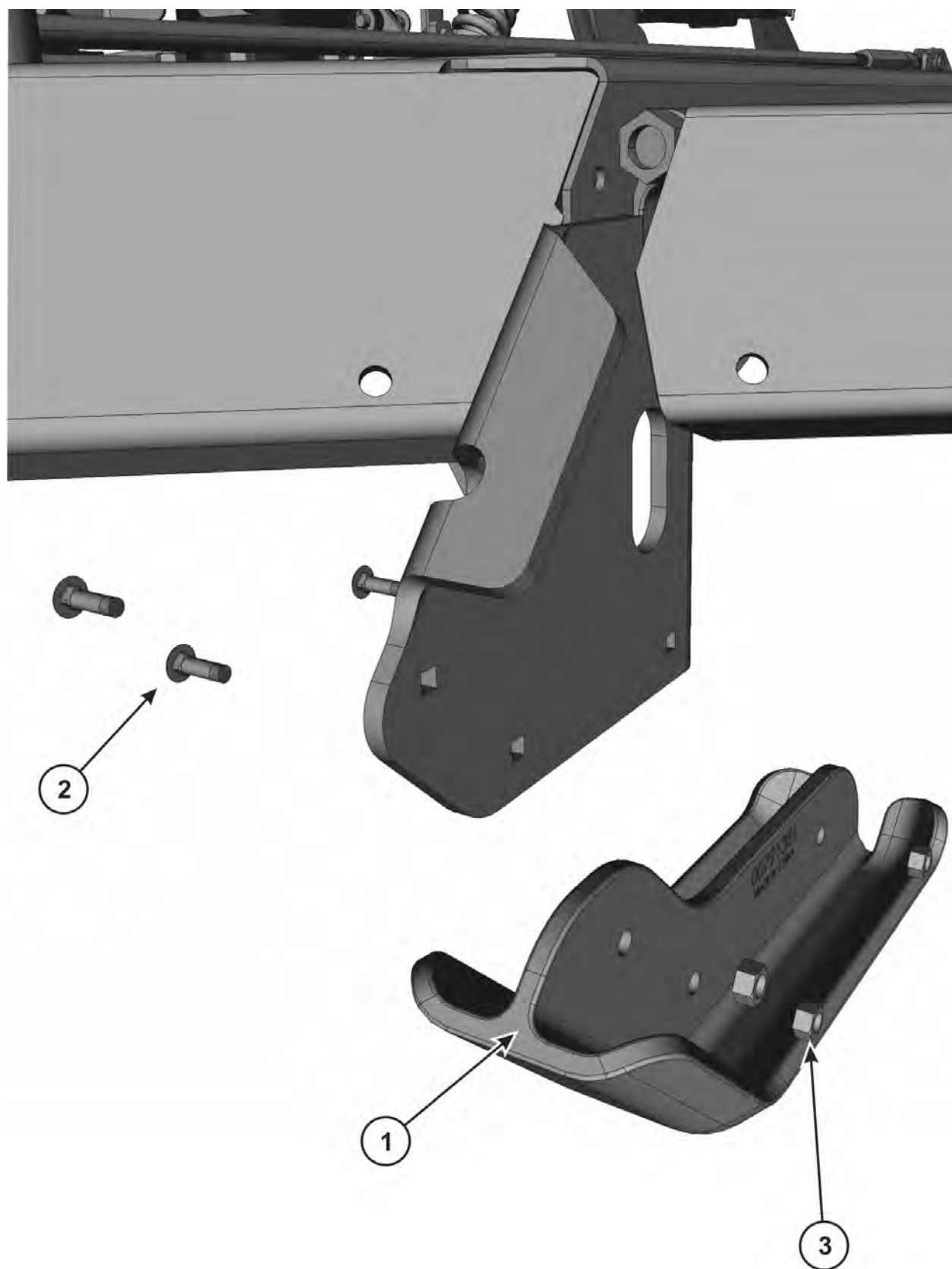


RED & AMBER LENSES FACE REARWARD
WIRE HARNESSSES NOT SHOWN

ITEM	PART NO.	QTY.	DESCRIPTION
0	00790329	1	KIT, LIGHT
1	00791723	2	LIGHT, SINGLE LED - RED/BLACK
2	00791722	2	LIGHT, SINGLE LED - AMBER/BLACK
3	00791726	1	MODULE, AG ENHANCE FLASHER
4	00791724	1	HARNESS, RH WISHBONE WIRING
5	00791725	1	HARNESS, LH WISHBONE WIRING
6	00791727	1	HARNESS, MAIN WIRING
7	6B1700	1	BOLT BOX
8	00790328	2	SCREW, #10-16 X 3/4 SELF TAPPING
9	00024100	16	FLAT WASHER STD 1/4 PL
10	10058000	16	HHCS 1/4 NC 1 PL5
11	02959924	16	NUT, LOCK TLM 1/4-20 NC PLB

BLANK INTENTIONALLY

SKID SHOE ASSEMBLY

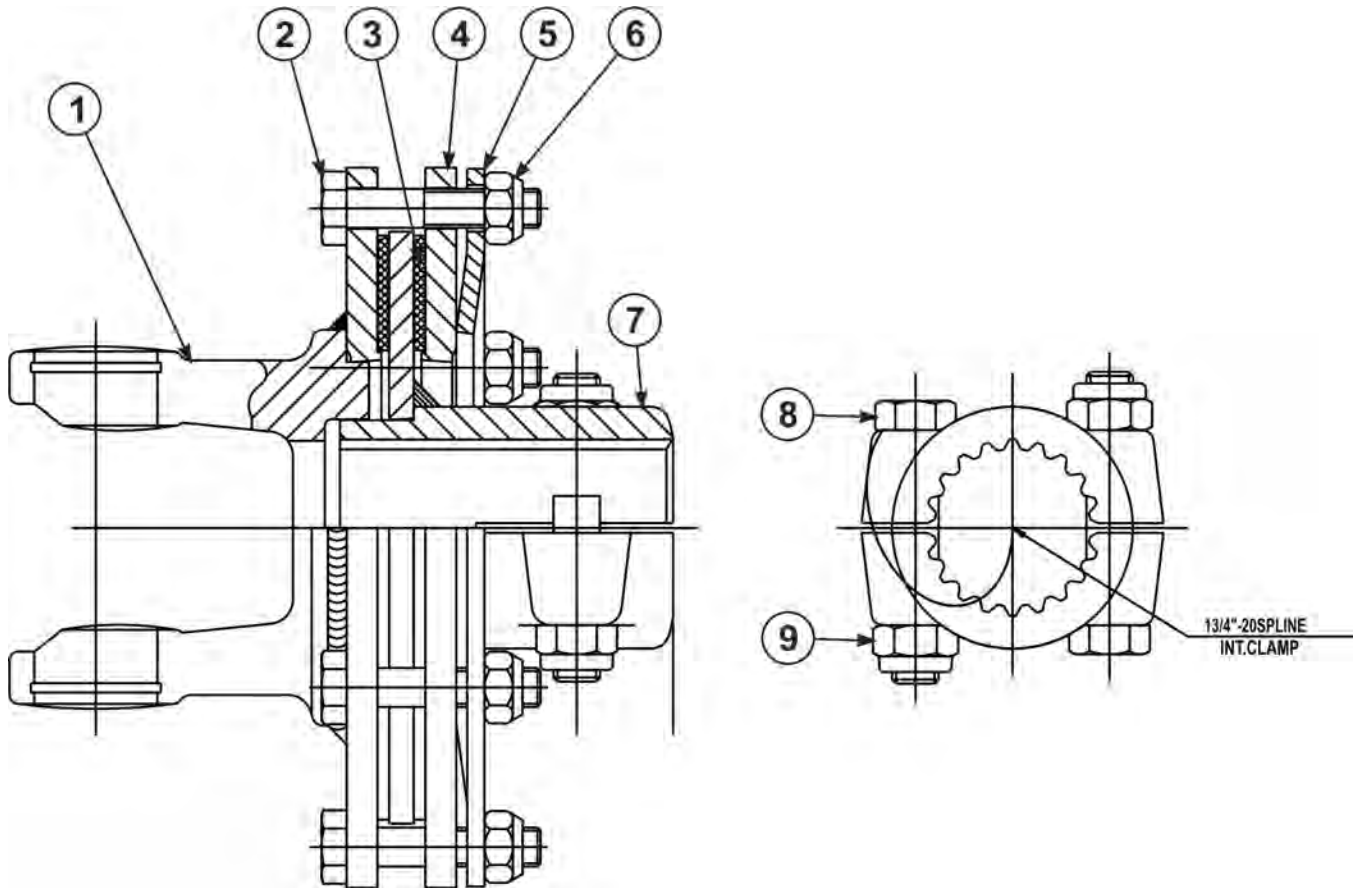


SKID SHOE ASSEMBLY

Continued...

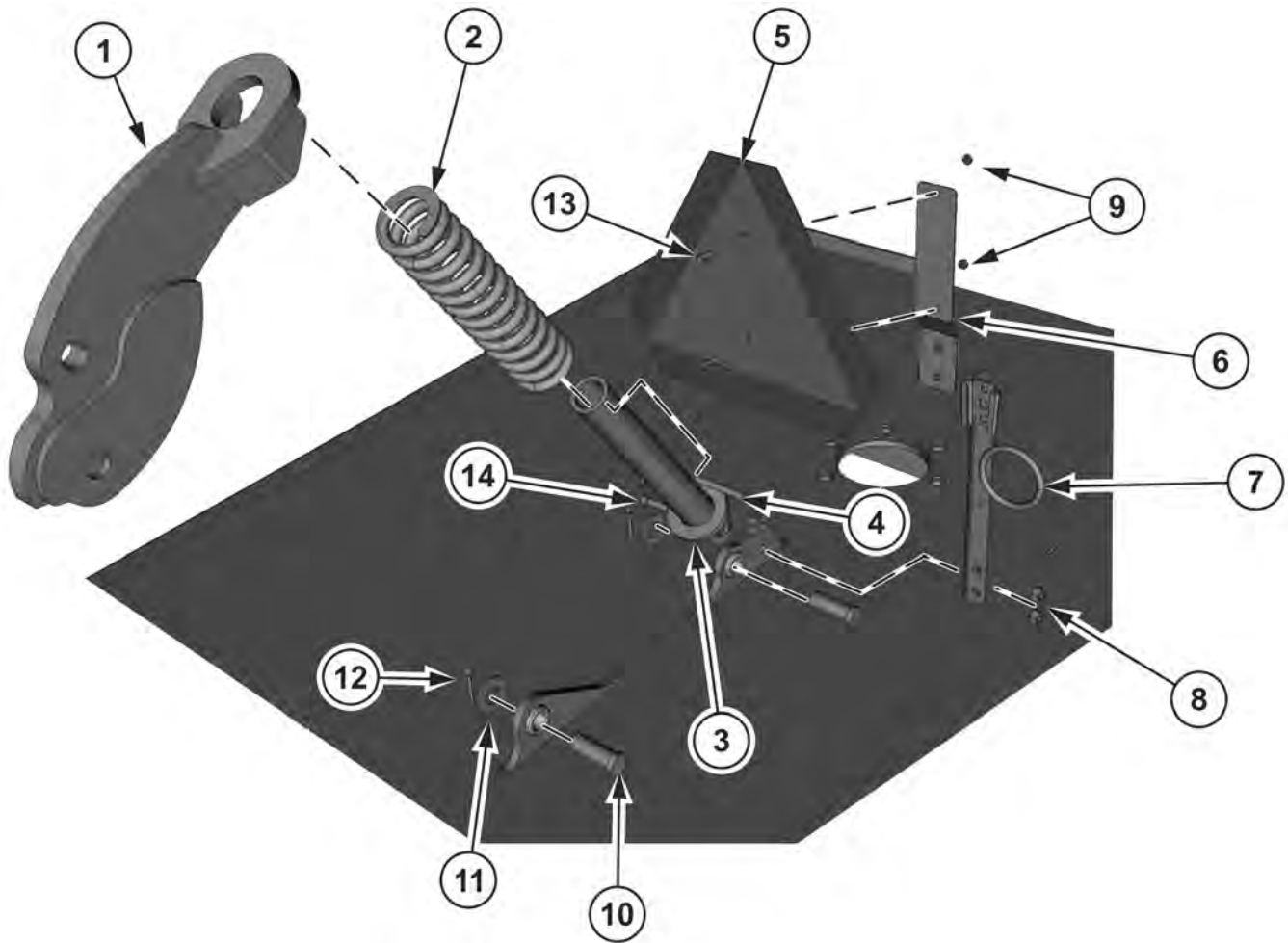
ITEM	PART NO.	QTY.	DESCRIPTION
1	00791381	4	CASTING, WING SKID SHOE
2	000644	12	CARB-3/8 NCK 1-1/4 PL5
3	00015800	12	NUT/HEX LOCK TLM 3/8 NC PLC

SLIP CLUTCH ASSEMBLY - 00775315



ITEM	PART NO.	QTY.	DESCRIPTION
1	00775321	1	FLANGE YOKE
2	61064C8	6	HEX BOLT-M10X50
3	00754202	2	FRICTION DISC
4	00775323	1	THRUST PLATE
5	00775324	1	BELLEVILLE SPRING
6	00765961	6	HEX LOCKNUT M10
7	00775322	1	HUB-1 3/4-20 I.C.
8	61076C8	2	HEX BOLT M12X65
9	00772648	2	HEX LOCKNUT M12

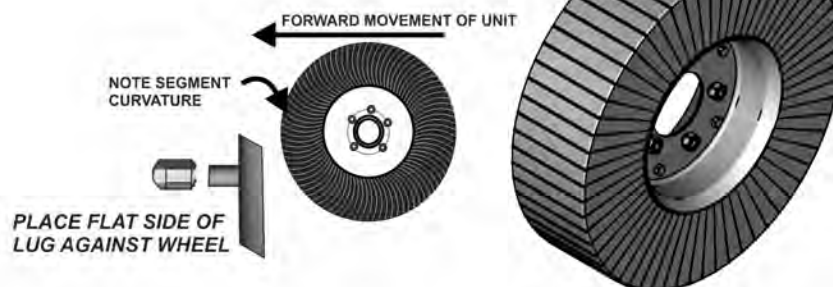
SPRINGPOD ASSEMBLY



ITEM	PART NO.	QTY.	DESCRIPTION
1	00790585	1	WELDMENT, SUSPENSION TOGGLE
2	8306	1	SPRING, COMPRESSION
3	00790582	1	WELDMENT, SPRING GUIDE
4	421011	1	PIN, ROLL 3/8 X 3
5	3200347	1	EMBLEM, SMV
6	6B905	1	BAG, PARTS-SMV SPADE
7	00790541	1	WELDMENT, FORMED SMV MOUNT
8	00001800	5	LOCKNUT TLM 1/2 NC PLC
9	32901C	2	HEX LOCKNUT 1/4-20 2-WAY ZINC
10	42002	2	CLEVIS PIN 1X2-1/2 PLATED
11	02822500	12	FLATWASHER 1 PL STD
12	00606000	10	PIN, COTTER 3/16 X 2"
13	00021400	2	HHCS 1/4 NC 3/4 PL5
14	00748823	5	HHCS 1/2-13 UNC X 1-1/2 GR.5 PL

TIRE OPTIONS

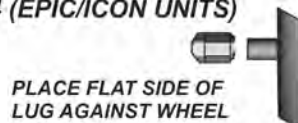
1 Laminated Tire & Wheel
00025200 - 6:00 x 9 (ALL UNITS)



2 Pneumatic Used Airplane Tire
00791638 - 25.5 X 8-14 20 PLY



3 Foam Filled Used Airplane Tire
00787512 - Tire & Wheel 21 X 7 - 12 PLY
4 00788719 - 25.5x8x14 (EPIC/ICON UNITS)



5 Rhinotrax - Foam Filled
00791365 - Tire & Wheel - 25 X 7-18

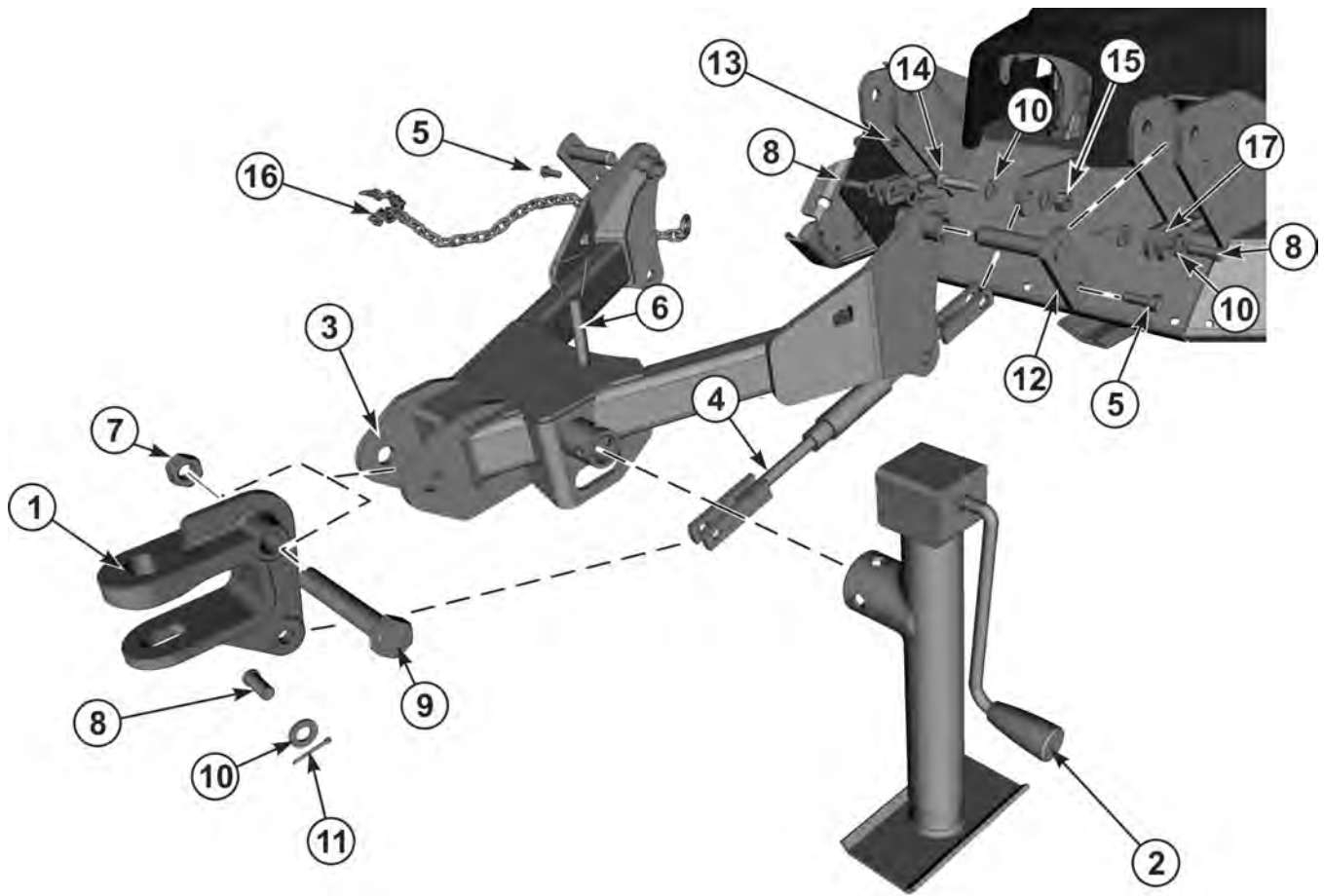


TIRE OPTIONS

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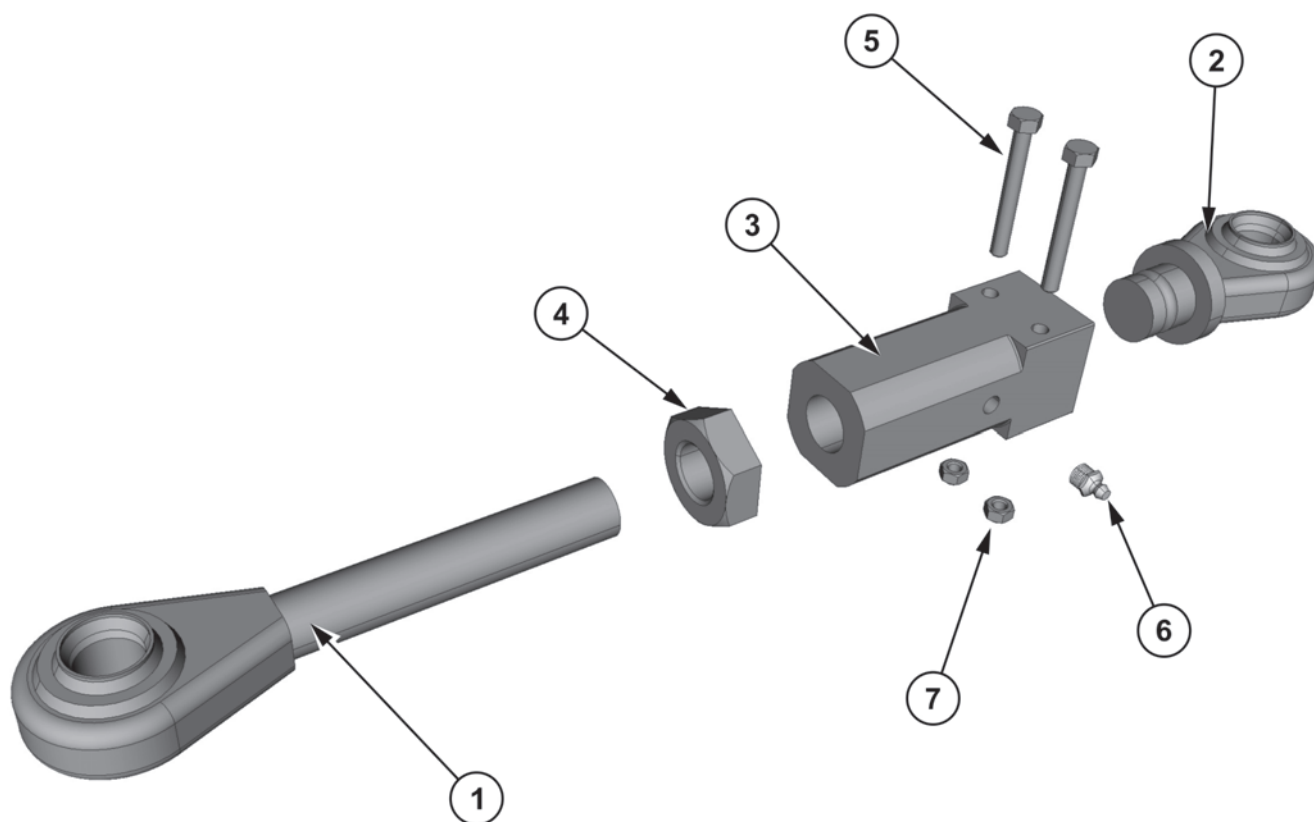
ITEM	PART NO.	QTY.	DESCRIPTION
1	00025200	1	LAMINATED TIRE & WHEEL 6:00 X 9
2	00791638	1	PNEUMATIC 25.5 X 8-20 PLY
3	00787512	1	FOAM FILLED 21 X 7-12 PLY
4	00788719	1	LAMINATED TIRE & WHEEL 25.5 X 8-20 PLY
5	00791365	1	RHINOTRAX - FOAM FILLED, 25 X 7-18

TONGUE ASSEMBLY



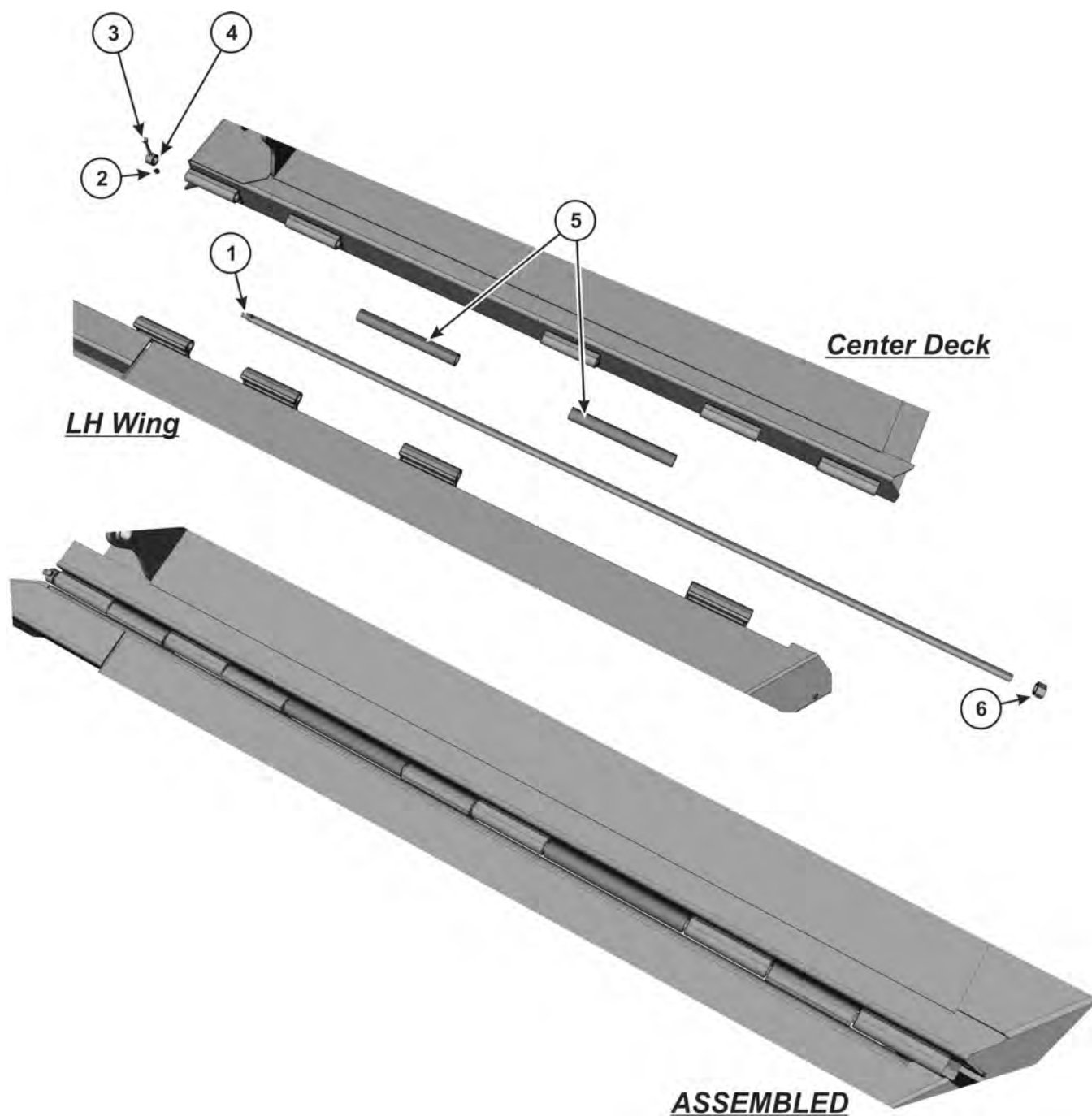
ITEM	PART NO.	QTY.	DESCRIPTION
1	00779468	1	CLEVIS
2	00772391	1	PARKING JACK 3000# SIDEWIND
3	00790530	1	WELDMENT, 2150 TONGUE
4	00768497	1	ASSY, CONTROL ROD - SHORT (SEE CONTROL & LEVEL ROD ASSEMBLIES PAGE FOR BREAKDOWN)
5	00748823	5	HHCS 1/2-13 UNC X 1-1/2 GR.5 PL
6	700005	1	PULL P&C-5/8 X 3.5" LG
7	02030300	3	NUT TOPLOCK 1 NC PL5
8	651102	1	PIN, DRILLED
9	00754107	1	BOLT 1 - 8UNC X 6-1/2 PL8
10	15B1200	4	WASHER 3/4 P SAE
11	00755153	1	PIN,COTTER 3/16 X 1-1/2 PLATED
12	00760895	2	TONGUE PIVOT PIN WELDMENT
13	00001800	5	LOCKNUT TLM 1/2 NC PLC
14	03200269	1	HHCS 3/4 NC 3 PL8
15	00037200	1	NUT,HEX TOPLOCK 3/4 NC GR.C PL
16	00764515	1	CHAIN, SAFETY TOW, 6400LBS.
17	00778165	2	ASSY, LEVEL ROD COMPLETE

TURNBUCKLE ASSEMBLY - 00763449



ITEM	PART NO.	QTY.	DESCRIPTION
	00763449	1	COMPLETE ASSEMBLY
1	00763447	1	TOP LINK - THREADED
2	00763962	1	TOP LINK - WLDMT
3	00763450A	1	TURNBUCKLE
4	02012200	1	NUT, 1 1/8 NC JAM NUT
5	02152800	2	5/16 X 2-1/2 NC GR 5 PL
6	00780848	1	GREASE FITTING 1/8" BSP
7	00750940	2	5/16 NC LOCK NUT

WING HINGE ASSEMBLY



ITEM	PART NO.	QTY.	DESCRIPTION
1	651091	1	WDMT, HINGE PIN
2	00785351	1	CAP, HEX END - 1-1/8"
3	00021900	1	HEXB 5/16-NC X 1-3/4 PL5
4	00777186	1	HINGE ROD CAP
5	00786277	2	SPACER, HINGE ROD
6	00750940	1	NUT, TOPLOCK 5/16 NC PLB

SERVIS-RHINO

LIMITED WARRANTY

1. LIMITED WARRANTIES

- 1.01. Servis-Rhino warrants for one year from the purchase date to the original non-commercial, governmental, or municipal purchaser ("Purchaser") and warrants for six months to the original commercial or industrial purchaser ("Purchaser") that the goods purchased are free from defects in material or workmanship.
- 1.02. Manufacturer will replace for the Purchaser any part or parts found, upon examination at one of its factories, to be defective under normal use and service due to defects in material or workmanship.
- 1.03. This limited warranty does not apply to any part of the goods which has been subjected to improper or abnormal use, negligence, alteration, modification, or accident, damaged due to lack of maintenance or use of wrong fuel, oil, or lubricants, or which has served its normal life. This limited warranty does not apply to any part of any internal combustion engine, or expendable items such as blades, shields, guards, or pneumatic tires except as specifically found in your Operator's Manual.
- 1.04. Except as provided herein, no employee, agent, Dealer, or other person is authorized to give any warranties of any nature on behalf of Manufacturer.

2. REMEDIES AND PROCEDURES.

- 2.01. This limited warranty is not effective unless the Purchaser returns the Registration and Warranty Form to Manufacturer within 30 days of purchase.
- 2.02. Purchaser claims must be made in writing to the Authorized Dealer ("Dealer") from whom Purchaser purchased the goods or an approved Authorized Dealer ("Dealer") within 30 days after Purchaser learns of the facts on which the claim is based.
- 2.03. Purchaser is responsible for returning the goods in question to the Dealer.
- 2.04. If after examining the goods and/or parts in question, Manufacturer finds them to be defective under normal use and service due to defects in material or workmanship, Manufacturer will:
 - (a) Repair or replace the defective goods or part(s) or
 - (b) Reimburse Purchaser for the cost of the part(s) and reasonable labor charges (as determined by Manufacturer) if Purchaser paid for the repair and/or replacement prior to the final determination of applicability of the warranty by Manufacturer.The choice of remedy shall belong to Manufacturer.
- 2.05. Purchaser is responsible for any labor charges exceeding a reasonable amount as determined by Manufacturer and for returning the goods to the Dealer, whether or not the claim is approved. Purchaser is responsible for the transportation cost for the goods or part(s) from the Dealer to the designated factory.

3. LIMITATION OF LIABILITY.

- 3.01. MANUFACTURER DISCLAIMS ANY EXPRESS (EXCEPT AS SET FORTH HEREIN) AND IMPLIED WARRANTIES WITH RESPECT TO THE GOODS INCLUDING, BUT NOT LIMITED TO, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
- 3.02. MANUFACTURER MAKES NO WARRANTY AS TO THE DESIGN, CAPABILITY, CAPACITY, OR SUITABILITY FOR USE OF THE GOODS.
- 3.03. EXCEPT AS PROVIDED HEREIN, MANUFACTURER SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO PURCHASER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS, OR DAMAGE CAUSED OR ALLEGED TO BE CAUSED DIRECTLY OR INDIRECTLY BY THE GOODS INCLUDING, BUT NOT LIMITED TO, ANY INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES RESULTING FROM THE USE OR OPERATION OF THE GOODS OR ANY BREACH OF THIS WARRANTY. NOTWITHSTANDING THE ABOVE LIMITATIONS AND WARRANTIES, MANUFACTURER'S LIABILITY HEREUNDER FOR DAMAGES INCURRED BY PURCHASER OR OTHERS SHALL NOT EXCEED THE PRICE OF THE GOODS.
- 3.04. NO ACTION ARISING OUT OF ANY CLAIMED BREACH OF THIS WARRANTY OR TRANSACTIONS UNDER THIS WARRANTY MAY BE BROUGHT MORE THAN TWO (2) YEARS AFTER THE CAUSE OF ACTION HAS OCCURRED.

4. MISCELLANEOUS.

- 4.01. Proper Venue for any lawsuits arising from or related to this limited warranty shall be only in Guadalupe County, Texas.
- 4.02. Manufacturer may waive compliance with any of the terms of this limited warranty, but no waiver of any terms shall be deemed to be a waiver of any other term.
- 4.03. If any provision of this limited warranty shall violate any applicable law and is held to be unenforceable, then the invalidity of such provision shall not invalidate any other provisions herein.
- 4.04. Applicable law may provide rights and benefits to purchaser in addition to those provided herein.

KEEP FOR YOUR RECORDS

ATTENTION: Purchaser should fill in the blanks below for his reference when buying repair parts and/or for proper machine identification when applying for warranty.

Servis-Rhino Implement Model _____ Serial Number _____

Date Purchased _____ Dealer _____

ATTENTION:
READ YOUR OPERATOR'S MANUAL

RHINO®
1020 S. Sangamon Ave.
Gibson City, IL 60936
800-446-5158
Email: parts@servis-rhino.com





TO THE OWNER/OPERATOR/DEALER

To keep your implement running efficiently and safely, read your manual thoroughly and follow these directions and the Safety Messages in this Manual. The Table of Contents clearly identifies each section where you can easily find the information you need.

The OCCUPATIONAL SAFETY AND HEALTH ACT (1928.51 Subpart C) makes these minimum safety requirements of tractor operators:

REQUIRED OF THE OWNER:

1. Provide a Roll-Over-Protective Structure that meets the requirements of this Standard; and
2. Provide Seatbelts that meet the requirements of this paragraph of this Standard and SAE J4C; and
3. Ensure that each employee uses such Seatbelt while the tractor is moving; and
4. Ensure that each employee tightens the Seatbelt sufficiently to confine the employee to the protected area provided by the ROPS.

REQUIRED OF THE OPERATOR

1. Securely fasten seatbelt if the tractor has a ROPS.
2. Where possible, avoid operating the tractor near ditches, embankments, and holes.
3. Reduce speed when turning, crossing slopes, and on rough, slick, or muddy surfaces.
4. Stay off slopes too steep for safe operation.
5. Watch where you are going - especially at row ends, on roads, and around trees.
6. Do not permit others to ride.
7. Operate the tractor smoothly - no jerky turns, starts, or stops.
8. Hitch only to the drawbar and hitch points recommended by the tractor manufacturer.
9. When the tractor is stopped, set brakes securely and use park lock, if available.



Keep children away from danger all day, every day...



Equip tractors with rollover protection (ROPS) and keep all machinery guards in place...



Please work, drive, play and live each day with care and concern for your safety and that of your family and fellow citizens.

