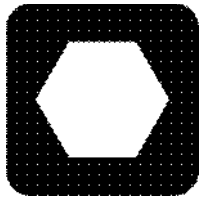


# RT115

## Quad

# Parts Manual



# ***Ditch Witch***<sup>®</sup>

## **RT115**


### **Quad**

ISSUE NO. 03PL-5/11

For Replacement Copy Order **P/N 053-2236**

This manual contains information concerning the following models:  
**RT115 Quad Tractor**

Copyright 2010, 2011 by The Charles Machine Works, Inc.

 **Ditch Witch**, Ditch Witch, CMW, AutoCrowd, Jet Trac, Roto Witch, Subsite, Fluid Miser, Power Pipe, Super Witch, Pierce Arrow, Zahn, The Underground, and The Underground Authority Worldwide are registered trademarks of The Charles Machine Works, Inc.

ID0254680



# FOREWORD

---

This manual contains illustrated parts lists to help you select quality ProTech<sup>®</sup> Replacement parts for your Ditch Witch<sup>®</sup> equipment. Using other replacement parts will lessen the productivity of your equipment.

- ◆ Part numbers enclosed in a box are no longer available from The Charles Machine Works, Inc. Your local Ditch Witch dealer may be able to locate the part for you.
- ◆ Footnotes provide more information to help you identify parts shown in the manual.
- ◆ Assembly instructions and Tech Bits articles referenced in footnotes are available through your local Ditch Witch dealer.
- ◆ Description and specifications in this book were current at publication. However, The Charles Machine Works, Inc. reserves the right to improve equipment, so this manual might not reflect the most current improvements.
- ◆ Instructions on recommended equipment use and maintenance are in the Operator's Manual that was shipped with your equipment.

## **Keep the following in mind when ordering ProTech replacement parts:**

- ◆ Specify parts you need by part number and description, not by illustration reference numbers.
- ◆ Have equipment model and serial number on hand to help ensure you get the right parts for your machine whether it's old or new.

**Thank you for buying and using Ditch Witch equipment and ProTech replacement parts.**

# WARRANTY

---

DW WARRANTY Policy  
July, 2005

## **POLICY 1: DITCH WITCH® EQUIPMENT AND REPLACEMENT PARTS LIMITED WARRANTY POLICY**

Subject to the limitation and exclusions herein, free replacement parts will be provided at any authorized Ditch Witch dealership for any Ditch Witch equipment or parts manufactured by The Charles Machine Works, Inc. (CMW) that fail due to a defect in material or workmanship within one (1) year of first commercial use (Exception: 2 years for all SK500 Attachments). Free labor will be provided at any authorized Ditch Witch dealership for installation of parts under this warranty during the first year following "initial commercial" use of the serial numbered Ditch Witch equipment on which it is installed. The customer is responsible for transporting their equipment to an authorized Ditch Witch dealership for all warranty work.

### **EXCLUSIONS FROM PRODUCT WARRANTY**

- All incidental or consequential damages.
- All defects, damages, or injuries caused by misuse, abuse, improper installation, alteration, neglect, or uses other than those for which products were intended.
- All defects, damages, or injuries caused by improper training, operation, or servicing of products in a manner inconsistent with manufacturer's recommendations.
- All engines and engine accessories (these are covered by original manufacturer's warranty).
- Tires, belts, and other parts which are subject to another manufacturer's warranty. (Such warranty will be available to purchaser.)
- ALL IMPLIED WARRANTIES NOT EXPRESSLY STATED HEREIN, INCLUDING ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY.

IF THE PRODUCTS ARE PURCHASED FOR COMMERCIAL PURPOSES, AS DEFINED BY THE UNIFORM COMMERCIAL CODE, THEN THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE FACE HEREOF AND THERE ARE NO IMPLIED WARRANTIES OF ANY KIND WHICH EXTEND TO A COMMERCIAL BUYER. ALL OTHER PROVISIONS OF THIS LIMITED WARRANTY APPLY INCLUDING THE DUTIES IMPOSED.

Ditch Witch products have been tested to deliver acceptable performance in most conditions. This does not imply they will deliver acceptable performance in all conditions. Therefore, to assure suitability, products should be operated under anticipated working conditions prior to purchase.

Defects will be determined by an inspection within thirty (30) days of the date of failure of the product or part by CMW or its authorized dealer. CMW will provide the location of its inspection facilities or its nearest authorized dealer upon inquiry. CMW reserves the right to supply remanufactured replacement parts under this warranty as it deems appropriate.

Extended warranties are available upon request from your local Ditch Witch dealer or CMW.

Some states do not allow exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply. Further, some states do not allow exclusion of or limitation of how long an implied warranty lasts, so the above limitation may not apply. This limited warranty gives product owner specific legal rights and the product owner may also have other rights which vary from state to state.

For information regarding this limited warranty, contact CMW's Product Support Department, P.O. Box 66, Perry, OK 73077-0066, or contact your local Ditch Witch dealer.

# CONTENTS

---

## Decals

Decal Location – RT115 Quad .....	8
-----------------------------------	---

## Engine Components

Air Barrier .....	24
Deere Engine (Tier 3) .....	14
Deere Engine Service (Tier 3).....	16
Muffler And Air Filter .....	18
Muffler Guard Kit (RT/HT115/RT95) .....	20
Muffler Support .....	22
Radiator/Charge Air Cooler.....	26
RT115Q Ship Kit – Pump Support .....	28

## Power Train

Axle, Axle Housing.....	36
Axle, Bvl Gear/Pinion Set.....	42
Axle, Diff Lock .....	44
Axle, Differential .....	46
Axle, Double Joint.....	48
Axle, Reduction Gears.....	38
Axle, Swvl Hsng & Steering Cylinder .....	50
Axle, Wheel Hub.....	40
Drive Line Front/Rear .....	56
Front Axle Assembly.....	34
Ground Drive Motor - RT115 Quad .....	32
Rear Axle - Non-Tilt .....	54
Rear Axle – Tilt.....	52
Rollers, Track & Fixed End .....	64
Steering Sensor Assembly.....	58
Tire & Wheel (38X18.00-20 E16TL).....	60
Track Drive .....	62
Track Tensioner.....	66

## Frame Components

Back Panel .....	88
Backfill Arm & Blade .....	72
Backfill Blade Cylinder Guard .....	74
Backfill Blade Pivot.....	70
Battery Installation .....	100
Canopy & Light Kit.....	104
Console .....	82
Counterweight/Grille .....	76
Covers & Blankets .....	106
Tape Dispenser .....	108
Engine Enclosure .....	80
Front Counterweight.....	78
Fuel Tank .....	92
Hyd Reservoir.....	94
Left Fender .....	84
Parking Brake.....	90

## Frame Components Continued

Right Fender .....	86
ROPS .....	102
Seat .....	96
Seat Swivel .....	98

## Control Components

Backfill Blade Controls .....	112
Cruise Foot Control.....	114
Control Arm.....	116
Gauge Panel Assembly .....	118
TDM Module .....	120
TDM/Odometer MT .....	122

## Hydraulics

Attachment Drive Hyd .....	156
Auxiliary Hydraulics.....	136
Backfill Blade Cylinder Plumbing.....	130
Backfill Blade Valve Plumbing.....	128
Cooler & Filter Plumbing .....	140
Diff Lock Hyd .....	138
Frame Tilt Hydraulics .....	152
Hyd Cntrl Valve (3-Spl Upper Valve) .....	154
Hyd Cylinder (2 X 1.0 X 3.38) .....	158
Hyd Cylinder (2.0 X 1.25 X 8.0) .....	160
Hyd Cylinder (3.0 X 1.75 X 8.0) .....	162
Hydraulic Filter Guard .....	146
Power Steering Valve .....	148
Pump Case Drain.....	142
Pump Fittings.....	134
Pump Mount .....	132
Rear Steer Hydraulics .....	150
Return Hydraulics .....	144

## Electrical

Backup Alarm Kit.....	166
-----------------------	-----

**\*See technical supplement for further electrical information ..... #053-2260**

## Miscellaneous

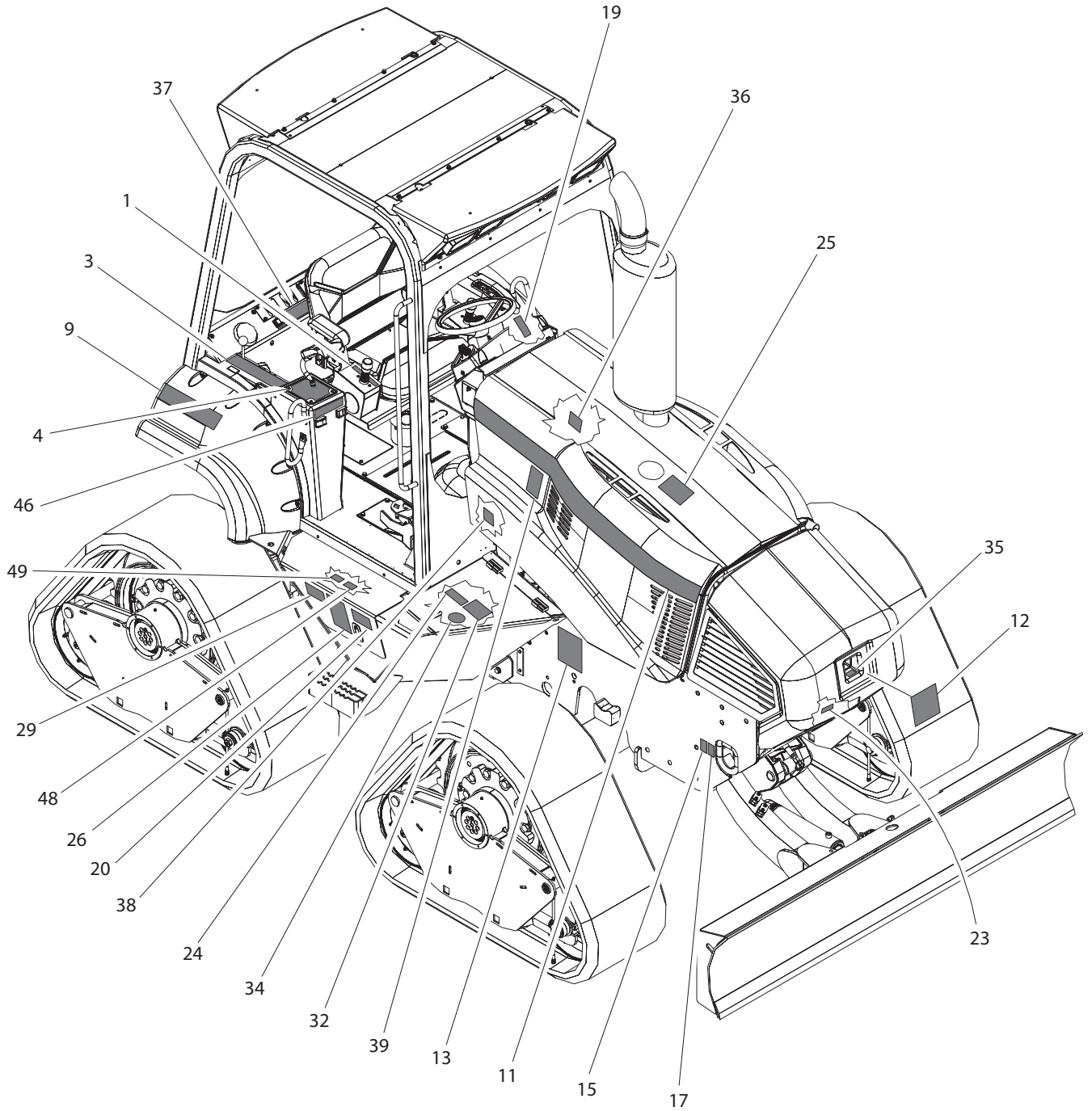
Bolt/Nut Torque Chart .....	170
Filters .....	174
Optional Kits .....	174
Parts Manual Change Request .....	175
Related Publications .....	174
Replacement O-Ring Chart.....	173
Warranty Registration .....	176



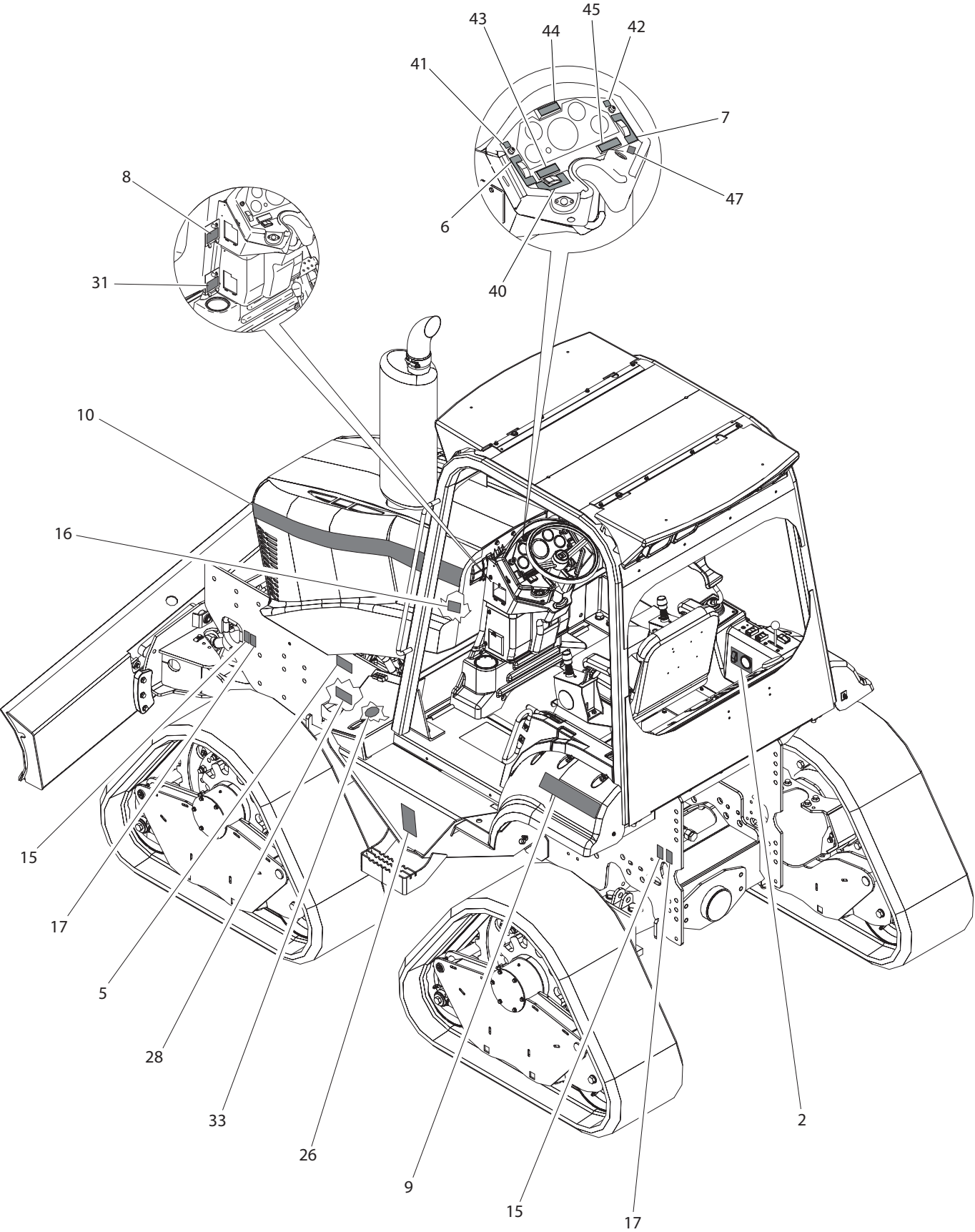
# DECALS



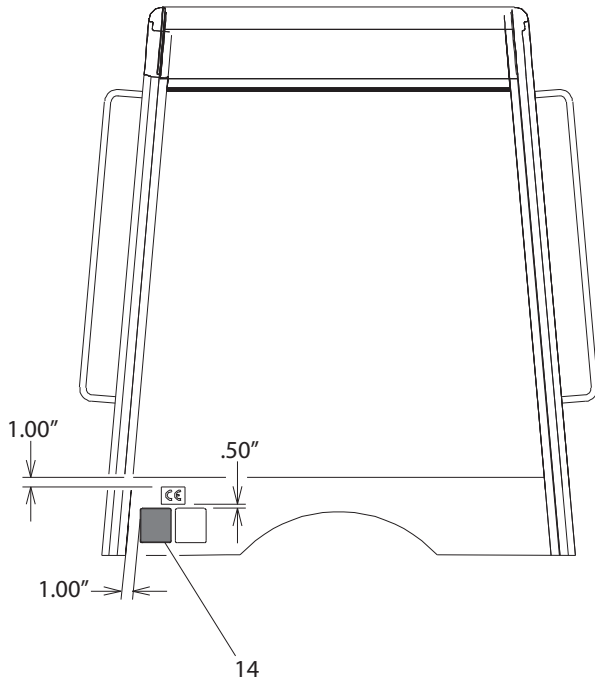
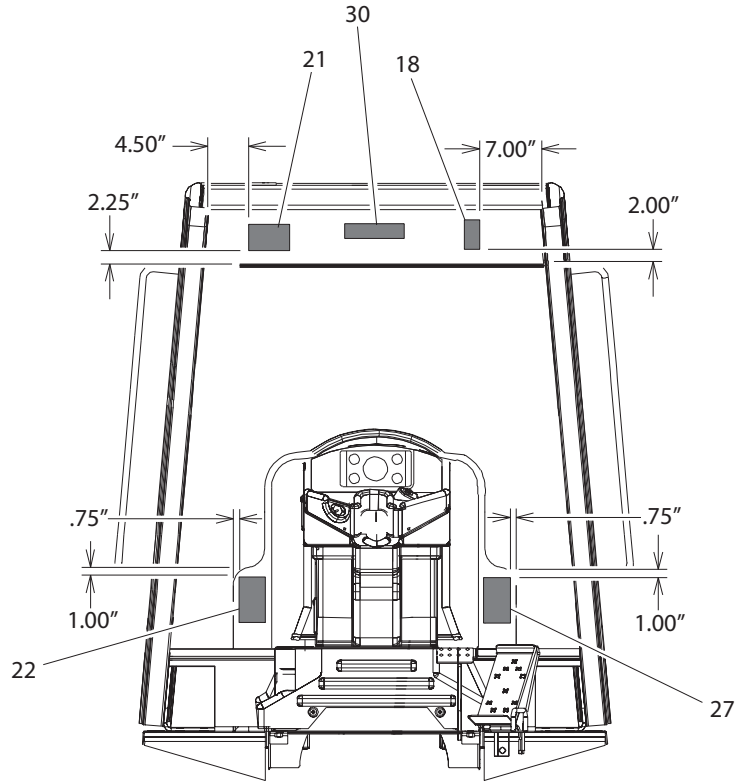
# DECAL LOCATION RT115Q



# DECAL LOCATION RT115Q



# DECAL LOCATION RT115Q



# DECAL LOCATION

## RT115Q

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	270-4849		RT115Q SERVICE DECAL KIT	
1	273-092	1	GROUND DRIVE CONTROL	
2	273-094	1	AXLE LOCK/AUXILIARY	
3	270-4845	1	STEER/TILT/THROTTLE	
4	273-100	1	BFB FUNCTIONS	
5	275-400	1	NOTICE OIL LEVEL	
6	270-1865	1	REEL CARRIER	
7	270-1864	1	ROTATION DIRECTION	
8	273-454	1	FUSE PANEL	
9	270-1268	2	DITCH WITCH LOGOTYPE	
10	270-4671	1	LEFT RT115Q MODEL ID	
11	270-4670	1	RIGHT RT115Q MODEL ID	
12	273-246	1	RIGID LOGO PLACARD	
13	270-4846	1	LUBRICATION CHART	
14	273-016	1	SOUND POWER II	SEE FOOTNOTE 1
15	274-318	4	TIE DOWN LOCATION	
16	274-375	1	MASTER DISCONNECT SWITCH	
17	274-442	4	LIFT LOCATION	
18	274-724	1	ONE CALL NOTIFICATION	
19	275-361	1	PARKING BRAKE	
20	275-033	1	NOTICE ELECTRICAL SYSTEM	
21	275-048	1	IMPORTANT SAFETY RULES	
22	275-070	1	WARNING RUNAWAY	
23	700-064	1	POWER BEYOND/RETURN/PRESSURE	
24	275-120	1	RESERVOIR (THF)	
25	273-452	1	NOTICE COOLANT	
26	275-185	2	WARNING SINGLE OPERATOR	
27	275-303	1	WARNING ROLLOVER	
28	275-497	1	OIL DRAIN-ID	
29	275-203	1	BATTERY	
30	273-197	1	OVERHEAD CONSOLE	SEE FOOTNOTE 2
31	273-456	1	RELAY PANEL	
32	274-198	1	NOTICE OIL LEVEL	
33	700-062	1	DIESEL FUEL CAP	
34	700-063	1	HYDRAULIC OIL CAP	
35	273-292	1	FRAME NOSE CASTING WEIGHT	
36	273-459	1	NOTICE EXPLOSION POSSIBLE	
37	270-1934	1	CRUISE CONTROL	
38	270-1681	1	PREHEAT SOLENOID	
39	274-206	1	STARTING FLUID HAZARD ALERT	
40	270-1866	1	GROUND DRIVE SPEED	
41	270-1863	1	IGNITION	
42	270-1862	1	HORN	
43	270-1539	1	LED DISPLAY	
44	270-1538	1	LED DISPLAY	
45	270-1540	1	LED DISPLAY	
46	270-4537	1	REAR STEER	
47	275-087	1	IGNITION SWITCH DECAL	
48	270-4890	1	PUMP CONTROLLER	
49	270-4891	1	GROUND SPEED CONTROLLER	

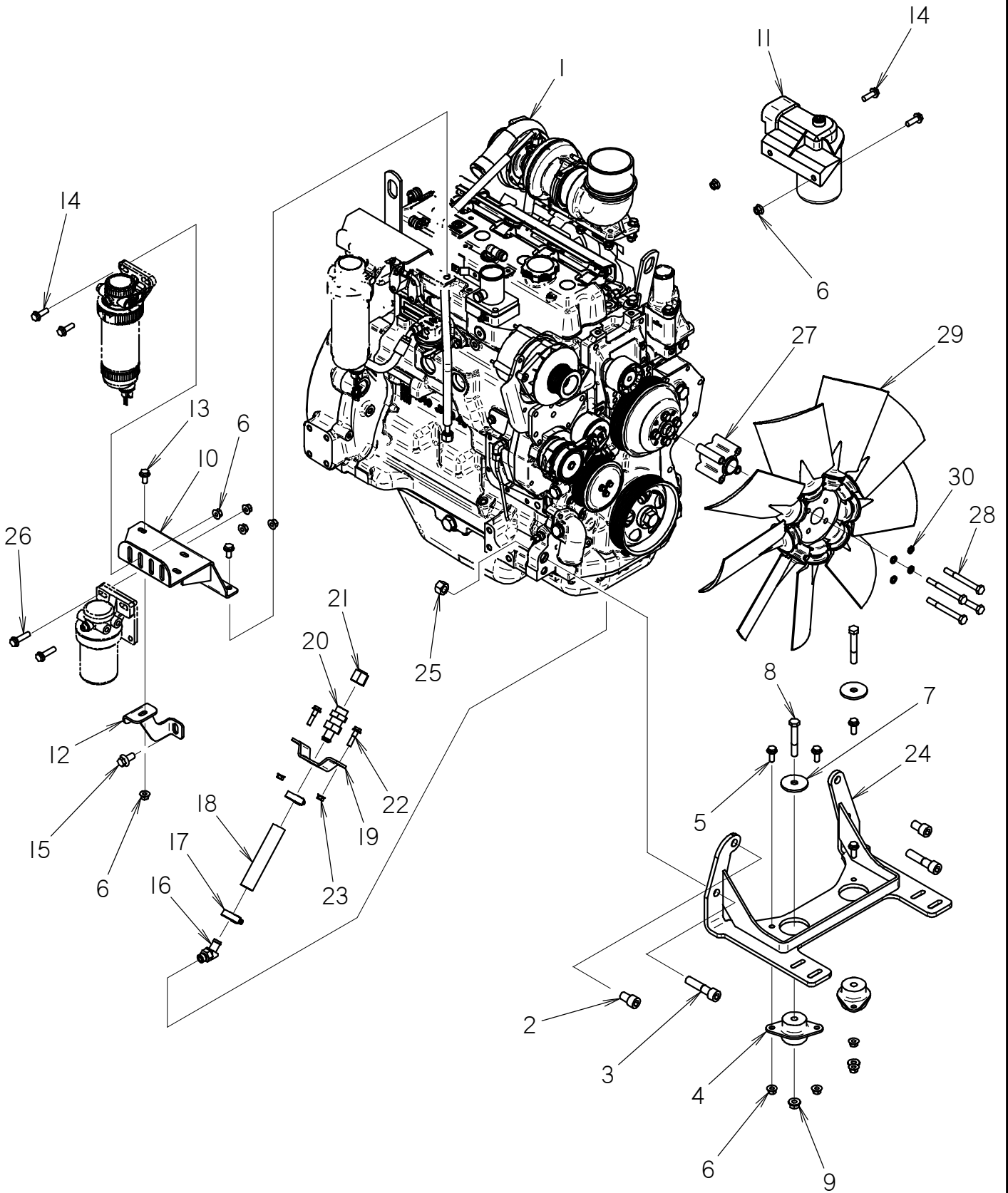
### FOOTNOTES

1. NOT PART OF KIT.
2. NOT PART OF KIT. SEE LIGHT KIT 601-329.



# **ENGINE COMPONENTS**

# DEERE ENGINE TIER 3



# DEERE ENGINE

## TIER 3

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	195-1087	1	JD Tier 3 Engine	
2	106-643	2	SCREW (M16-2.00 X 25MM, SOC)	
3	107-723	2	SCREW (M16-2.00 X 70MM, SOC)	
4	116-946	2	ENGINE SHOCK MOUNT	
5	107-001	4	FLG LK SCREW (M10-1.50 X 25MM)	
6	106-266	11	FLG NUT (M10-1.50)	
7	105-475	2	WASHER (1/2")	
8	106-700	2	SCREW (M12-1.75 X 80MM)	
9	106-709	2	FLG LK NUT (M12-1.75)	
10	323-634	1	FILTER MOUNT	
11	194-478	1	ENGINE OIL FILTER	
12	323-365	1	FILTER MOUNT SUPPORT	
13	106-382	2	FLG LK SCREW (M10-1.50 X 20MM)	
14	107-002	4	FLG LK SCREW (M10-1.50 X 30MM)	
15	107-009	1	FLG LK SCREW (M12-1.75 X 25MM)	
16	153-160	1	S/O COUPLER (18M-10H45)	
17	110-353	2	WORM CLAMP (3/4" TO 1-1/2")	
18	116-044	1	BULK HOSE (5/8", SOLD PER 1')	
19	310-599	1	MOUNT	
20	149-624	1	BK S/O COUPLER (100-10H)	
21	154-324	1	CAP (100F)	
22	106-989	2	FLG LK SCREW (M8-1.25 X 35MM)	
23	106-386	2	FLG LOCKNUT (M8-1.25)	
24	337-369	1	FRONT ENGINE BRACKET	
25	106-545	1	LOCKNUT (M16-2.0,PRV TRQ,10.9)	
26	106-994	2	FLG LK SCREW (M10-1.50 X 40MM)	
27	194-052	1	FAN SPACER	
28	106-564	4	SCREW (M10-1.50 X 100MM)	
29	195-1116	1	FAN	
30	106-090	4	LOCK WASHER (M10)	

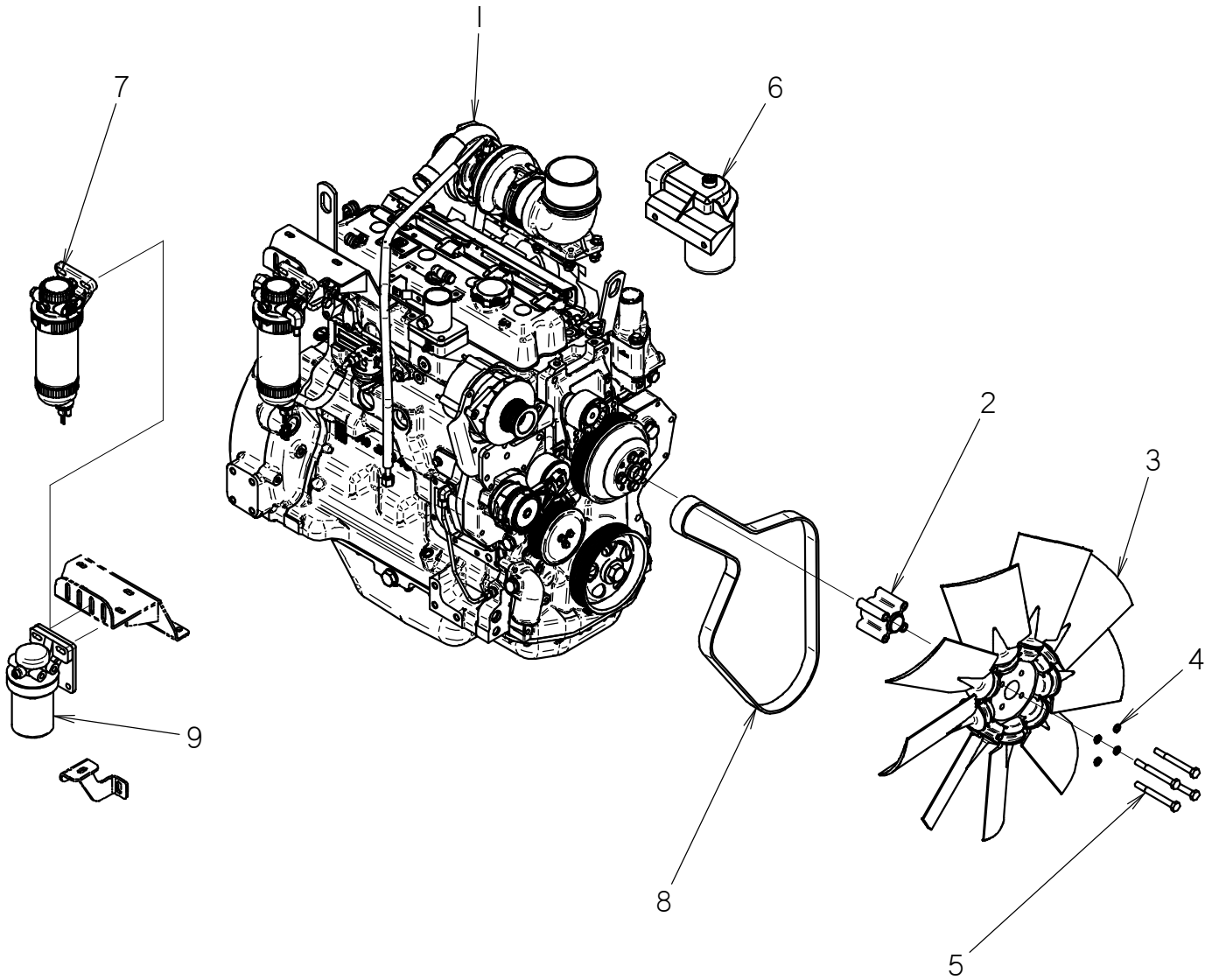
NOT SHOWN:

FOOTNOTES:

NOTE:



# DEERE ENGINE SERVICE PARTS TIER 3



# DEERE ENGINE SERVICE PARTS TIER 3

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	195-1087	1	JD Tier 3 Engine	
2	194-052	1	FAN SPACER	
3	195-1116	1	FAN	
4	106-090	4	LOCK WASHER (M10)	
5	106-564	4	SCREW (M10-1.50 X 100MM)	
6	194-478	1	ENGINE OIL FILTER	
7	195-1171	1	FUEL FILTER JD Tier 3 Engine	
8	195-1170	1	FAN BELT	
9	195-1172	1	FUEL FILTER (SECONDARY) JD TIER 3	

**NOT SHOWN:**

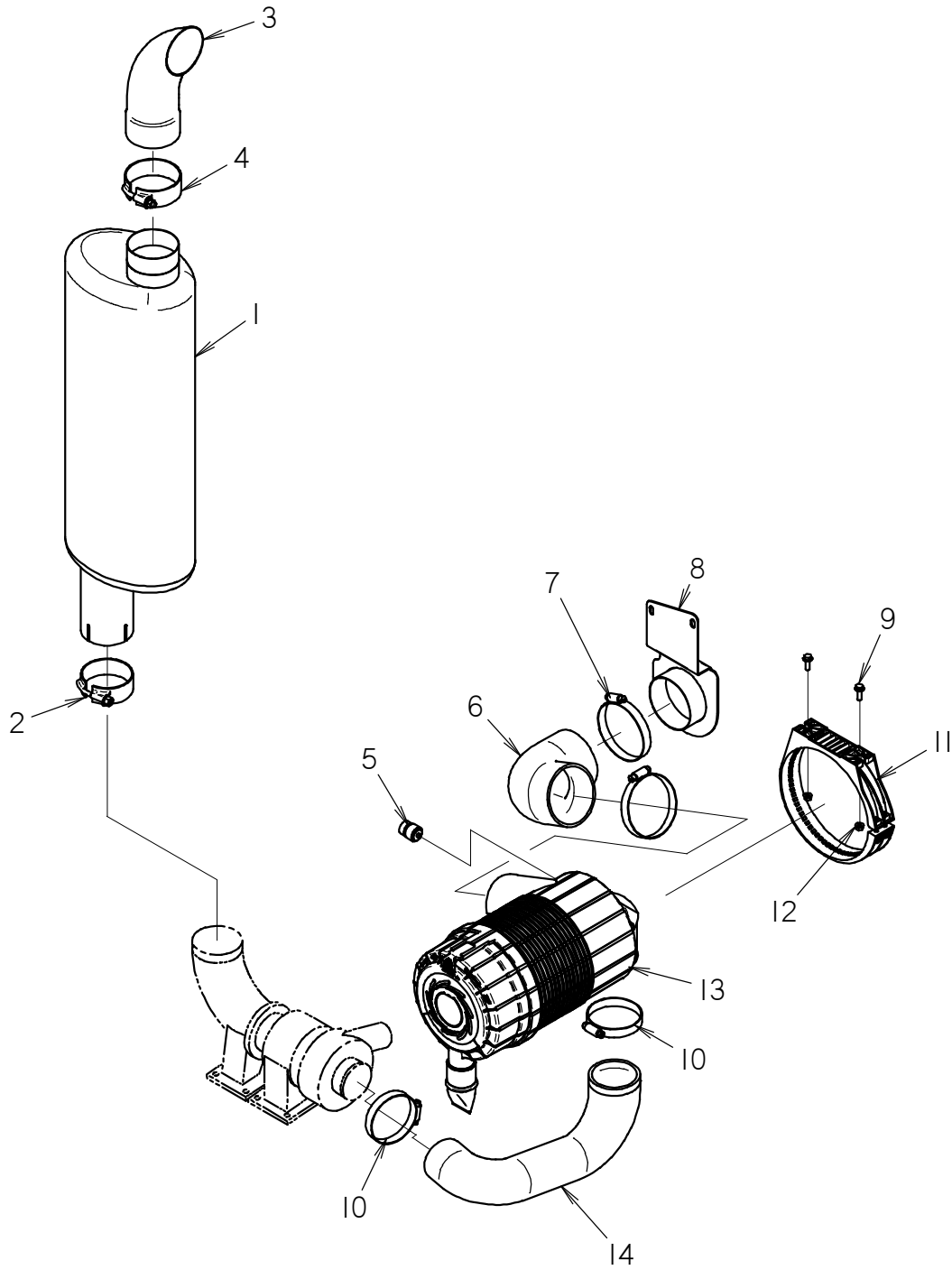
053-0115	1	JOHN DEERE TIER 3 OPER MANUAL
194-254	1	STARTER
195-1173	1	THERMOSTAT
195-1174	1	GASKET, THERMOSTAT
213-080	2	WHEEL SPEED SENSOR
213-081	1	COOLANT TEMPERATURE SENSOR
195-1175	1	ENGINE HEAD TEMPERATURE SENSOR
159-586	-	SPEED SENSOR O-RING
195-1176	1	OIL PRESSURE SENSOR
195-1177	1	DIODE HARNESS

**FOOTNOTES:**

**NOTE:**

# MUFFLER AND AIR FILTER

## RT115 QUAD



# MUFFLER AND AIR FILTER

## RT115 QUAD

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	194-201	1	MUFFLER	
2	111-138	1	MUFFLER CLAMP (3.59" TO 4.06")	
3	196-351	1	EXHAUST TUBE (4" X 12")	
4	194-027	1	MUFFLER CLAMP	
5	194-788	1	RESTRICTION INDICATOR (25"H2O)	
6	117-852	1	INTAKE ELBOW (4.5")	
7	110-170	2	WORM CLAMP (4-1/8" TO 5")	
8	320-175	1	INLET MOUNT	BOLTS TO MID-HOOD
9	106-992	2	FLG LK SCREW (M8-1.25 X 25MM)	
10	110-367	2	WORM CLAMP (3-1/4" TO 4-1/8")	
11	309-877	1	MOUNTING BAND (9.330")	BOLTS TO MID-HOOD
12	106-386	2	FLG LOCKNUT (M8-1.25)	
13	194-121	1	AIR CLEANER ASSEMBLY	
14	195-1110	1	ELBOW HOSE (3.000" X 3.500")	

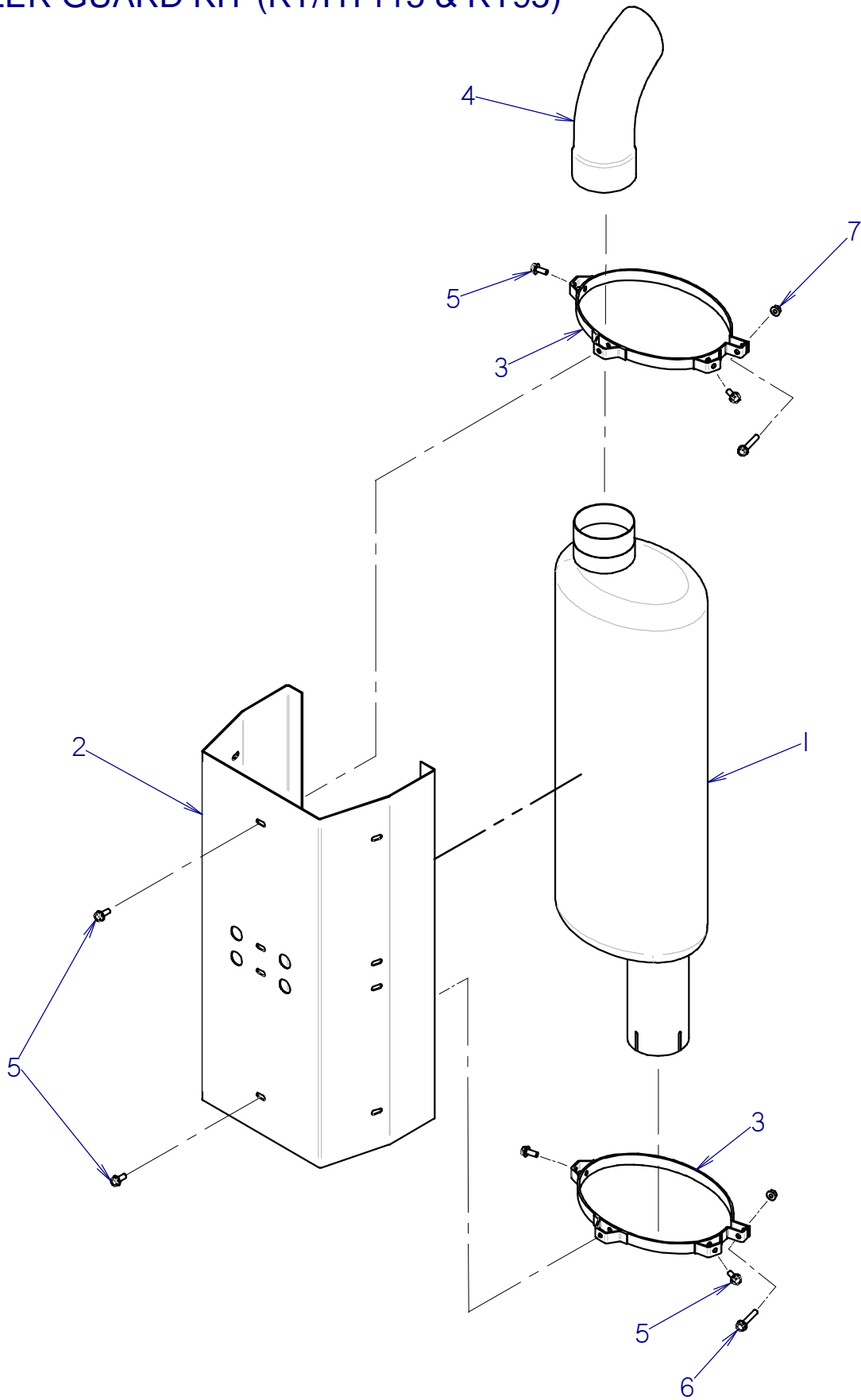
## NOT SHOWN:

194-147 1 ELEMENT (PRIMARY)  
194-148 1 ELEMENT (SECONDARY)

## FOOTNOTES:

## NOTE:

# MUFFLER GUARD KIT (RT/HT115 & RT95)



## MUFFLER GUARD KIT (RT/HT115 & RT95)

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	191-308		MUFFLER GUARD KIT (RT115)	INCLUDES REF. NO'S 2 & 3
1	194-201	1	MUFFLER	
2	320-491	1	MUFFLER GUARD	
3	111-136	2	MOUNTING CLAMP	INCLUDES REF. NO'S 5, 6 & 7 SEE FOOTNOTE 1
4	196-351	1	EXHAUST TUBE (4" X 12")	
5	105-823	6	FLG LK BOLT (5/16-NC X 3/4")	
6	105-562	2	FLG BOLT (5/16-NC X 1-3/4")	
7	105-003	2	FLG LOCKNUT (5/16-NC)	

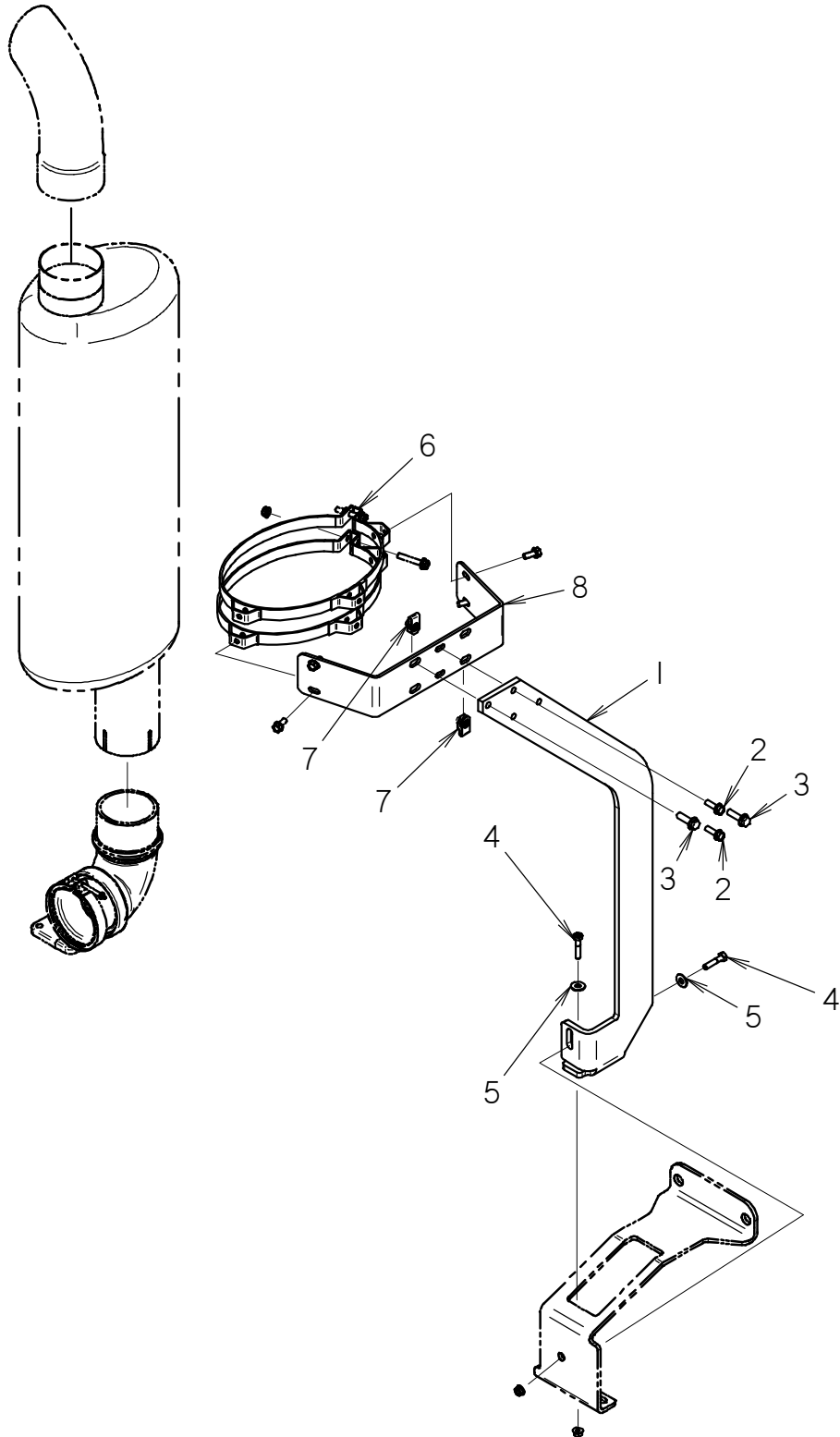
### FOOTNOTES

- I. MOUNTING CLAMP NEEDS TO BE SHAPED TO FIT MUFFLER.

NOTE:

# MUFFLER SUPPORT

RT115 TIER 3



# MUFFLER SUPPORT

## RT115 TIER 3

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	190-1185		MUFFLER SUPPORT KIT	INCLUDES REF NO'S 1-8
1	300-4460	1	MUFFLER SUPPORT	
2	105-873	2	FLG LK BOLT (5/16-NC X 1")	
3	105-827	2	FLG LK BOLT (3/8-NC X 1-1/4")	
4	105-109	2	BOLT (5/16-NC X 1-1/2")	
5	105-117	2	WASHER (5/16")	
6	111-136	1	MOUNTING CLAMP	
7	106-719	2	CLIP NUT (3/8-NC)	
8	320-932	1	MUFFLER MOUNT PLATE	

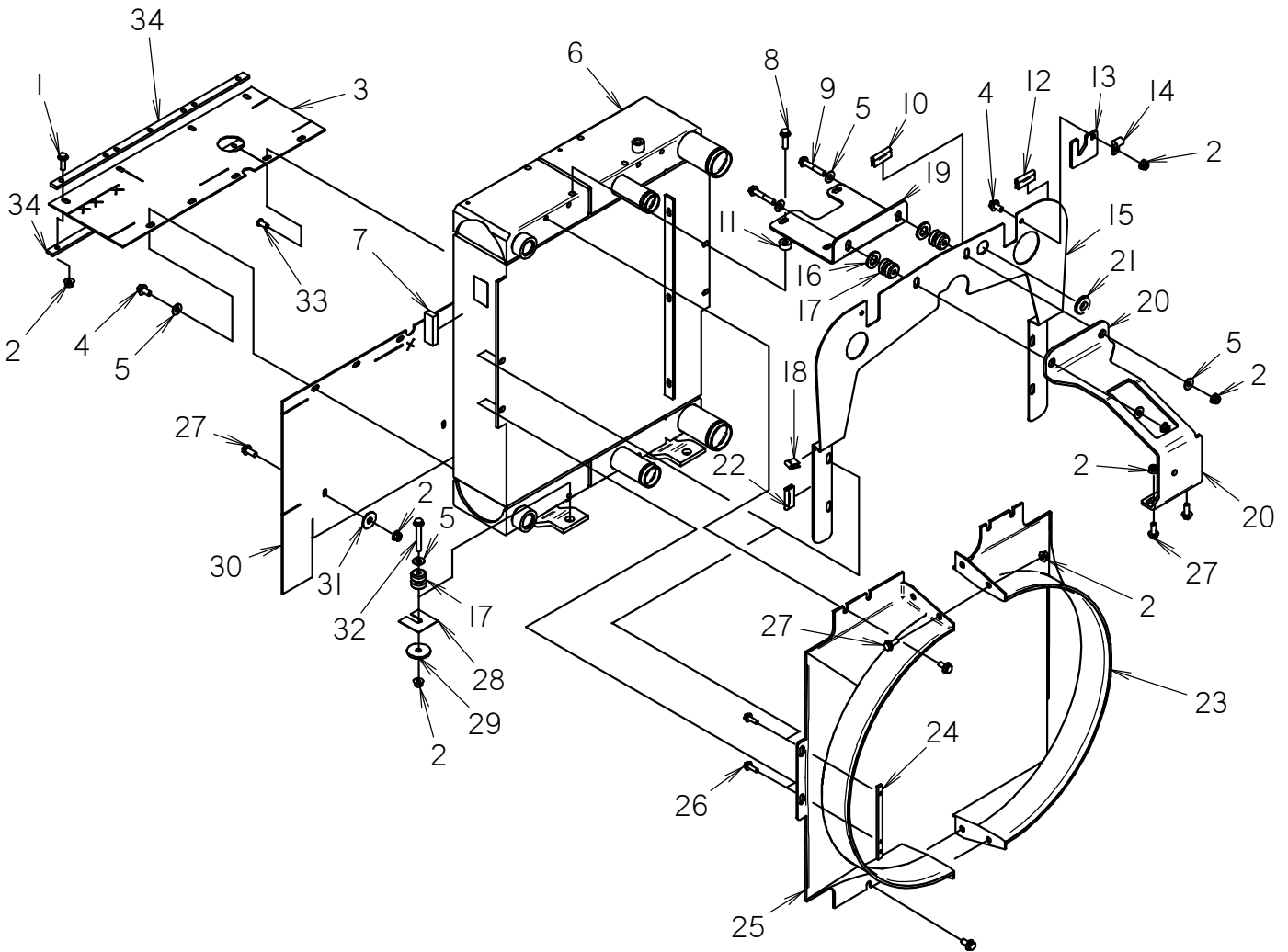
NOT SHOWN:

FOOTNOTES:

NOTE:



# AIR BARRIER RT115 QUAD



# AIR BARRIER

## RT115 QUAD

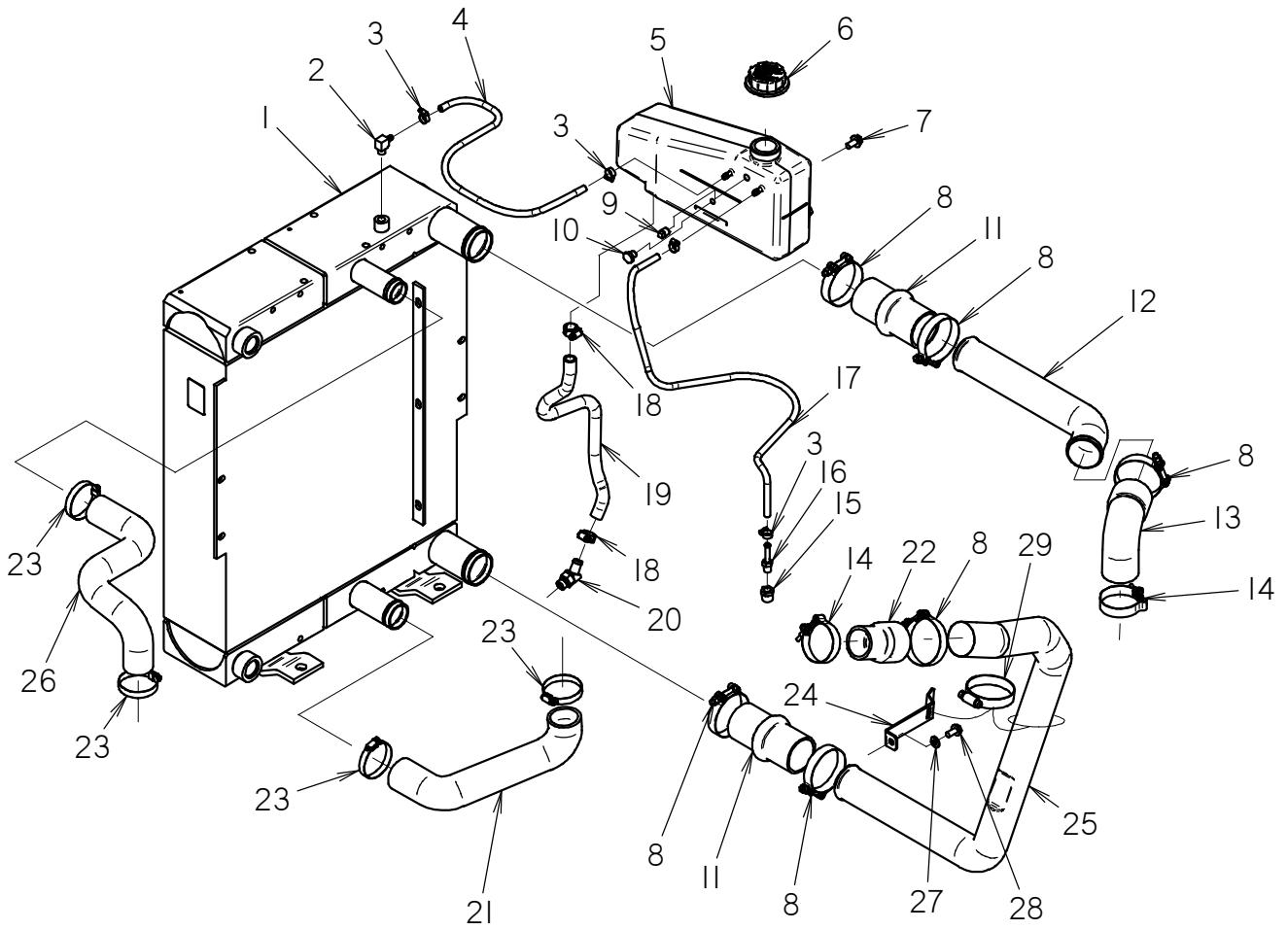
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	107-002	4	FLG LK SCREW (M10-1.50 X 30MM)	
2	106-266	18	FLG NUT (M10-1.50)	
3	362-1242	1	AIR BARRIER	RUBBER FLAP FOLDS HORIZONTALLY GOING FORWARD IN FRAME
4	106-999	12	FLG LK SCREW (M10-1.50 X 20MM)	
5	105-118	11	WASHER (3/8")	
6	195-1115	1	CAC/RAD/HOC	LOWER MOUNTING HOLES CONNECT TO FRONT ENGINE MOUNT
7	117-888	24	BULK STRIP (1/2", SOLD PER 1')	2 @ 12"
8	106-497	4	FLG SCREW (M10-1.50 X 35MM)	
9	106-997	2	FLG LK SCREW (M10-1.50 X 60MM)	
10	116-421	15	BULK EDGE (1/8", SOLD PER FT)	1 @ 15"
11	184-317	4	ENGINE MOUNT SPACER	
12	116-421	34	BULK EDGE (1/8", SOLD PER FT)	2 @ 17"
13	117-819	2	FLAP	
14	110-259	2	BOLT-ON CLAMP (.625")	
15	362-1090	1	BARRIER	
16	105-975	2	WASHER (3/4")	
17	116-128	4	SHOCK MOUNT	
18	116-421	2	BULK EDGE (1/8", SOLD PER FT)	2 @ 1"
19	300-4469	1	FRONT SUPPORT	
20	300-4456	1	RADIATOR MOUNT	BOLTS TO ENGINE
21	502-046	1	GROMMET (3/4")	
22	116-421	20	BULK EDGE (1/8", SOLD PER FT)	2 @ 10"
23	362-1209	1	FAN SHROUD RH	
24	111-134	2	BOLT STRAP	
25	362-1208	1	FAN SHROUD LH	
26	106-992	4	FLG LK SCREW (M8-1.25 X 25MM)	
27	107-001	7	FLG LK SCREW (M10-1.50 X 25MM)	
28	331-555	2	SHIM	
29	179-608	2	SPACER	
30	362-1243	1	AIR BARRIER	RUBBER FLAP FOLDS HORIZONTALLY GOING UNDER THE ENGINE
31	105-884	2	WASHER (1/2")	
32	106-998	2	FLG LK SCREW (M10-1.50 X 70MM)	
33	105-1295	1	SOCKET HEAD CAP SCREW	
34	323-461	2	STRAP	

NOT SHOWN:

FOOTNOTES:

NOTE:

# RADIATOR/CHARGE AIR PLUMBING RT115 QUAD



# RADIATOR/CHARGE AIR PLUMBING RT115 QUAD

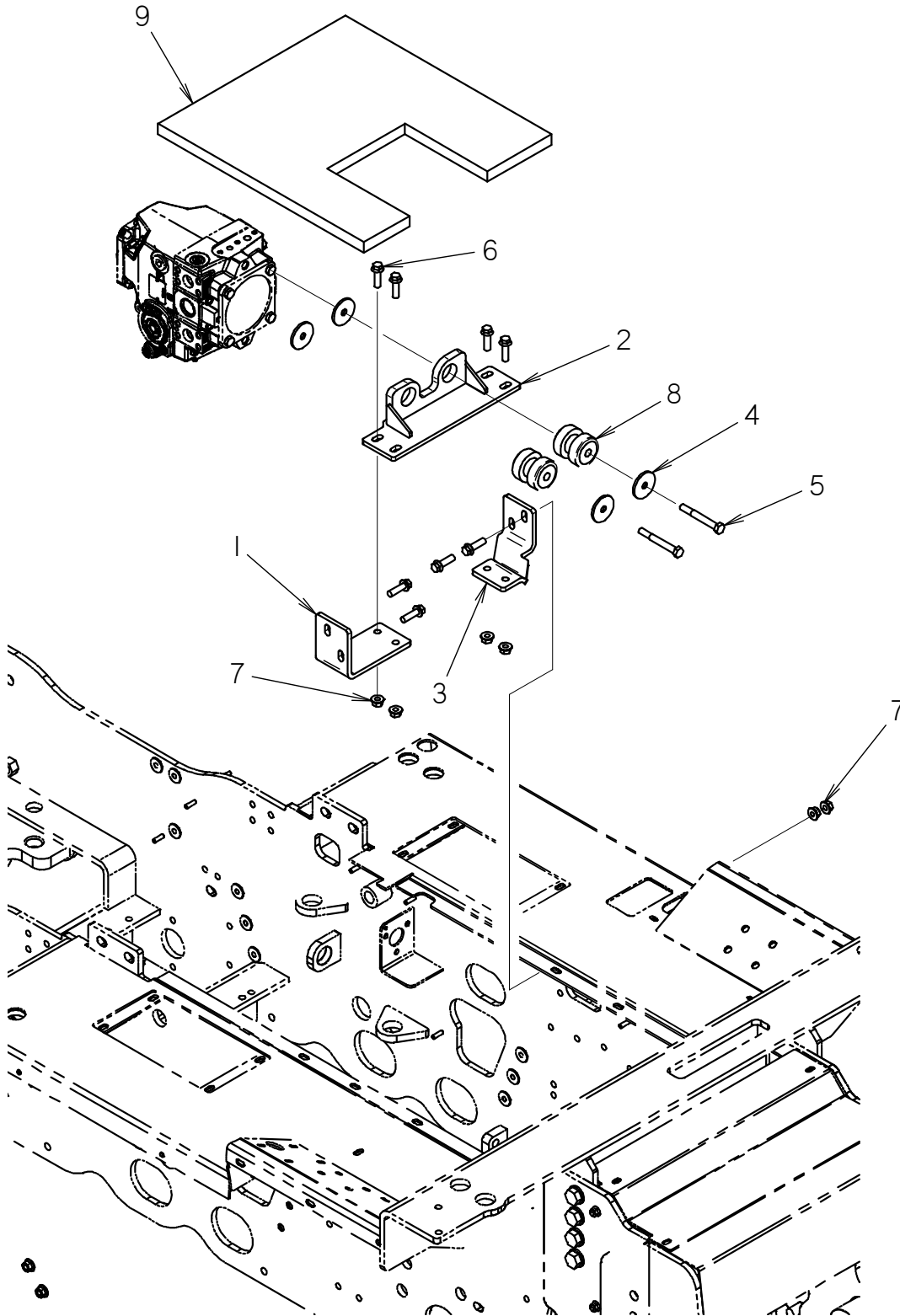
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	195-1115	1	CAC/RAD/HOC	
2	155-164	1	S/O COUPLER (04N-05H90)	
3	110-249	4	WORM CLAMP (1/4" TO 5/8")	
4	116-108	21	BULK HOSE (5/16", SOLD PER 1")	
5	364-703	1	PRESSURE TANK W/ CAP	
6	362-1236	1	PRESSURE CAP (14 PSI)	
7	106-999	3	FLG LK SCREW (M10-1.50 X 20MM)	ATTACHES SURGE TANK TO MID HOOD SUPPORT
8	111-135	6	T-BOLT CLAMP	
9	115-153	1	PLUG (04N, SQ)	
10	105-1201	1	PLUG (M12-1.0)	
11	159-551	2	HUMP HOSE 2.5 STRAIGHT	
12	195-1113	1	CAC TO ENGINE TUBE	
13	195-1122	1	CAC 90DEG ELBOW REDUCER 2" -2.5"	CONNECTS TO INTAKE MANIFOLD
14	110-815	2	T-BOLT CLAMP (2.5")	
15	115-286	1	REDUCER (08N-1/4-NF)	SCREWS INTO REAR OF HEAD ON ENGINE
16	155-162	1	S/O COUPLER (04N-05H)	
17	116-108	33	BULK HOSE (5/16", SOLD PER 1")	
18	110-217	2	WORM CLAMP (7/16" TO 1")	
19	116-750	27	BULK HOSE (5/8",SOLD PER FT)	
20	153-160	1	S/O COUPLER (18M-10H45)	GOES INTO WATER PUMP ON RIGHT SIDE OF ENGINE
21	195-1111	1	LOWER RADIATOR HOSE	CONNECTS TO WATER PUMP INLET
22	157-812	1	HOSE 2"-2.5"	CONNECTS TO TURBOCHARGER
23	110-134	4	WORM CLAMP (2.062" TO 2.750")	
24	300-7172	1	TUBE BRACE	BOLTS TO TAPPED HOLE IN SIDE OF ENGINE BLOCK
25	195-1114	1	TURBO TO CAC TUBE	
26	195-1112	1	UPPER RADIATOR HOSE	CONNECTS TO TOP OF ENGINE
27	106-396	1	WASHER (M10, HARDENED)	
28	106-382	1	FLG LK SCREW (M10-1.50 X 20MM)	
29	110-311	1	WORM CLAMP (1-5/16" TO 3-1/4")	

NOT SHOWN:

FOOTNOTES:

NOTE:

# RT115Q/H1140 SHIP KIT PUMP SUPPORT



# RT115Q/H1140 SHIP KIT PUMP SUPPORT

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	190-1625		RT115Q/H1140 SHIP KIT	INCLUDES REF No's 1 THRU 9
1	301-1355	1	BRACKET	
2	301-1359	1	PUMP SUPPORT	
3	301-1356	1	BRACKET	
4	105-475	4	WASHER (1/2")	
5	106-584	2	SCREW (M12-1.75 X 100MM)	USE LOCTITE 242 - ALSO USE ON LOWER TWO BOLTS OF PUMP COVER
6	107-565	8	FLG LK SCREW (M12-1.75 X 40MM)	
7	106-709	8	FLG LK NUT (M12-1.75)	
8	116-151	2	SHOCK MOUNT	
9	117-833	1	SOUND BLANKET	

NOT SHOWN:

FOOTNOTES:

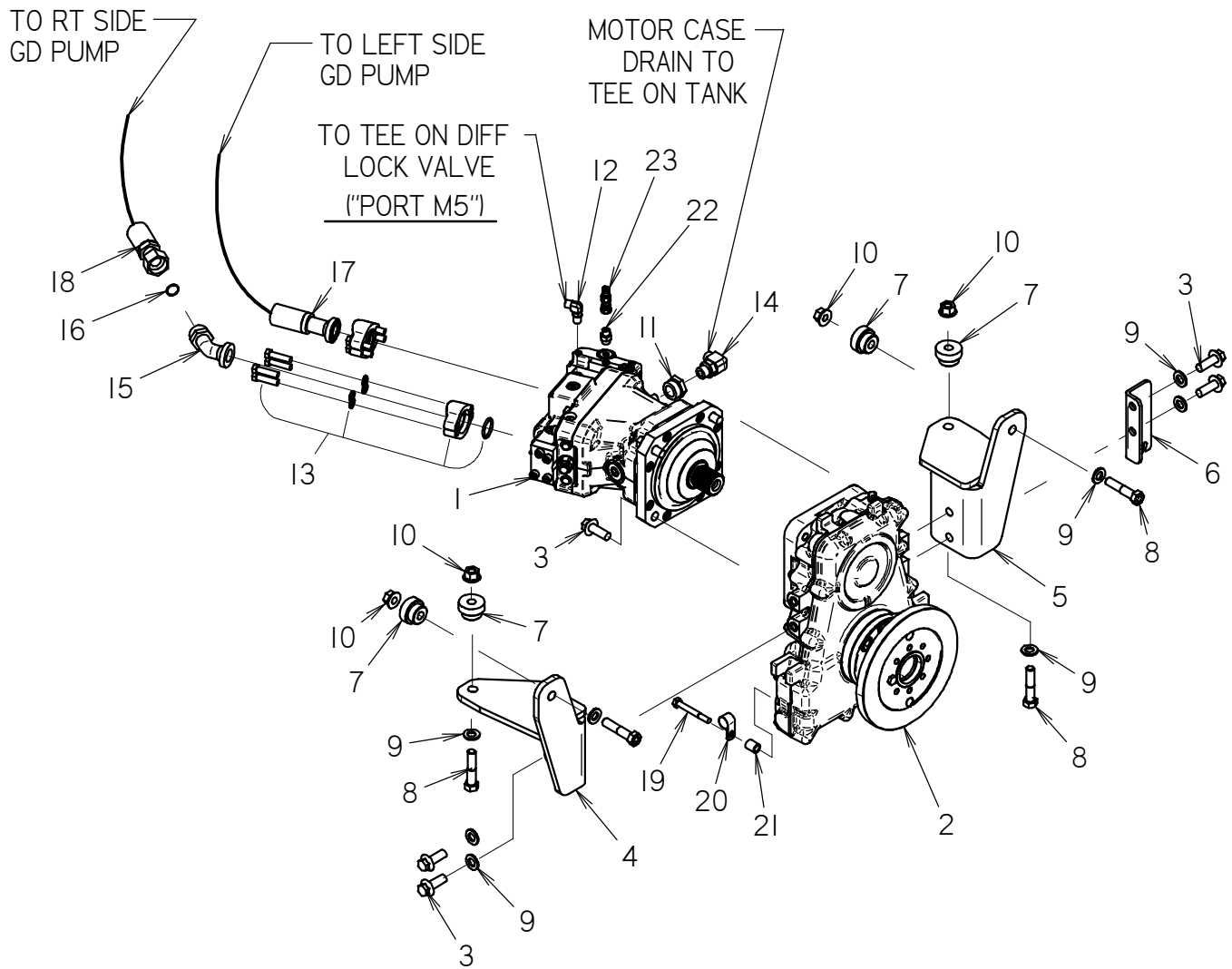
NOTE:



# POWER TRAIN



# GROUND DRIVE MOTOR RT115 QUAD



# GROUND DRIVE MOTOR RT115 QUAD

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	150-1828	1	HYDRAULIC MOTOR	
2	160-1198	1	GROUND DRIVE TRANSMISSION, ISPD	SEE NOT SHOWN FOR SERVICE PARTS.
3	107-336	8	FLG SCREW (M16-2.00X45MM,10.9)	REFER TO FOOTNOTE 1
4	300-5795	1	LEFT MOUNT	
5	300-5794	1	RIGHT MOUNT	
6	300-5801	1	CABLE MOUNT	
7	300-5800	4	SOLID MOUNT	
8	105-376	4	BOLT (5/8-NC X 3", GD8)	REFER TO FOOTNOTE 1
9	106-398	8	WASHER (M16, HARDENED)	
10	105-994	4	FLG LOCKNUT (5/8-NC)	REFER TO FOOTNOTE 1
11	155-199	1	REDUCER (I16S-I0SF)	
12	154-226	1	CONNECTOR (O40-O6S90)	
13	159-077	2	SPLIT FLANGE (I6SFL)	REFER TO FOOTNOTE 2
14	154-322	1	CONNECTOR (O80-I0S90)	
15	150-3092	1	CONNECTOR (I16FLH-I6045)	
16	155-714	1	O-RING (O2I D90)	
17	150-3101	1	HOSE (I16FLH-I60FX-57"-6000)	
18	515-362	1	HOSE (I160FX45S-49"-6000)	
19	107-982	2	HHCS M10-1.50 X 85MM,10.9 ZP	
20	110-333	2	BOLT-ON CLAMP (1")	
21	301-0311	2	SPACER	
22	154-220	1	CONNECTOR (O40-O6S)	FITS "M7" PORT ON MOTOR
23	159-156	1	QDC ADAPTER (O2-O40F)	

#### NOT SHOWN:

500-2102	1	OIL SEAL
500-2103	1	BEARING
500-2104	1	BEARING
500-2105	1	OIL SEAL
500-2106	1	O-RING
500-2107	2	O-RING
500-2108	1	BEARING
500-2109	1	BEARING

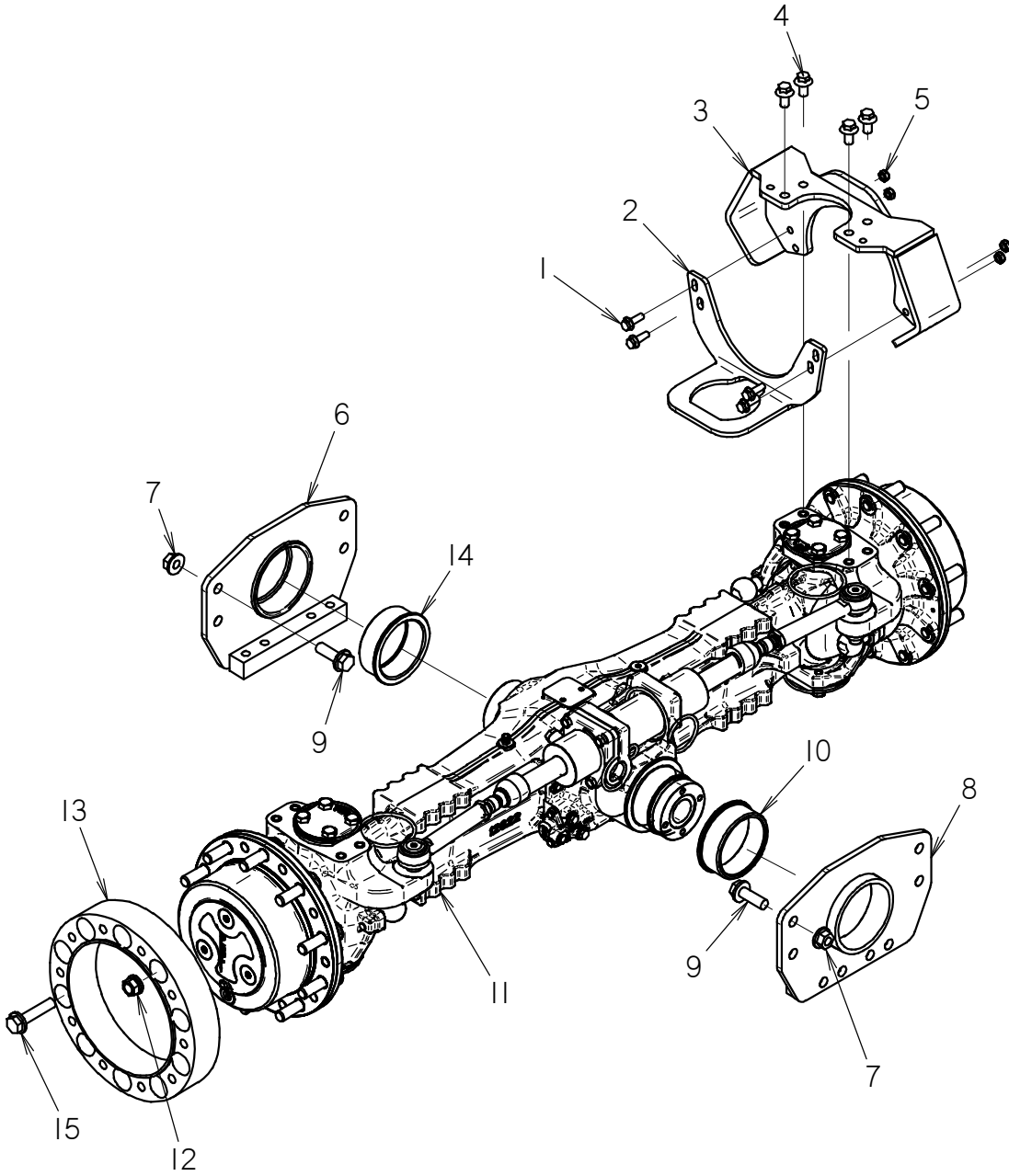
#### FOOTNOTES:

1. USE LOCTITE 242 (BLUE) ON ALL MOUNTING HARDWARE.
2. SPLIT FLANGE INCLUDES 1X 155-714 O-RING, 8X 105-073 LOCK WASHER & 8X 105-222 BOLT.

#### NOTE:

1. REFER TO O-RING CHART (800-301) IN BACK OF BOOK FOR REPLACEMENT OF O-RINGS.

# FRONT AXLE ASSEMBLY RT115 QUAD TRACK



# FRONT AXLE ASSEMBLY

## RT115 QUAD TRACK

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	106-496	8	FLG SCREW (M12-1.75 X 35MM)	
2	300-0089	2	BOTTOM BRACE	
3	300-9781	2	STOP MOUNT BRACKET	
4	106-471	8	FLG SCREW (M16-2.00 X 30MM)	USE LOCTITE 277 (RED)
5	106-685	8	LOCKNUT (M12-1.75, PRV TRQ, 10.9)	
6	300-9769	1	AXLE MOUNT	
7	106-356	8	FLG NUT (M20-2.50, 10.9)	
8	300-9768	1	AXLE MOUNT	
9	106-831	8	FLG SCREW (M20-2.50 X 80MM, 10.9)	TORQUE TO 580 FT-LB, USE LOCTITE 277 (RED) OR EQUIVALENT
10	178-365	1	BRONZE BUSHING (4.928")	
11	160-1220	1	STEERABLE AXLE (26.28)	SEE FOOTNOTE 1
12	105-1442	20	FLG LOCKNUT, M22 X 1.5	
13	300-9773	2	ADAPTER RING	
14	301-0051	1	BRONZE BUSHING (120mm)	
15	106-486	20	FLG SCREW (M20-2.50 X 90MM, 10.9)	

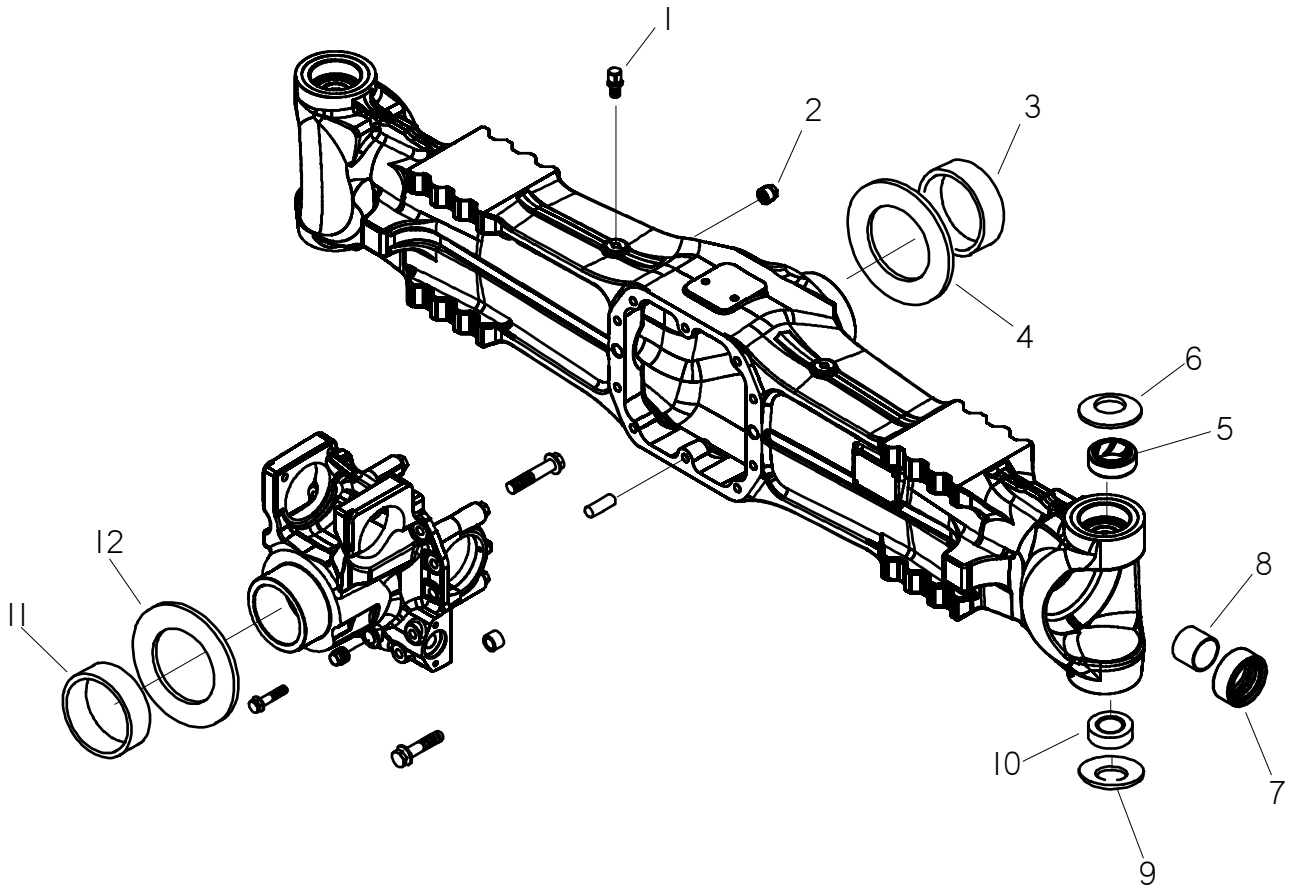
NOT SHOWN:

FOOTNOTES:

1. USE ANTISEIZE COMPOUND ON BOLTS AS REQUIRED.

NOTE:

AXLE  
AXLE HOUSING  
RT115 QUAD TRACK



# AXLE AXLE HOUSING RT115 QUAD TRACK

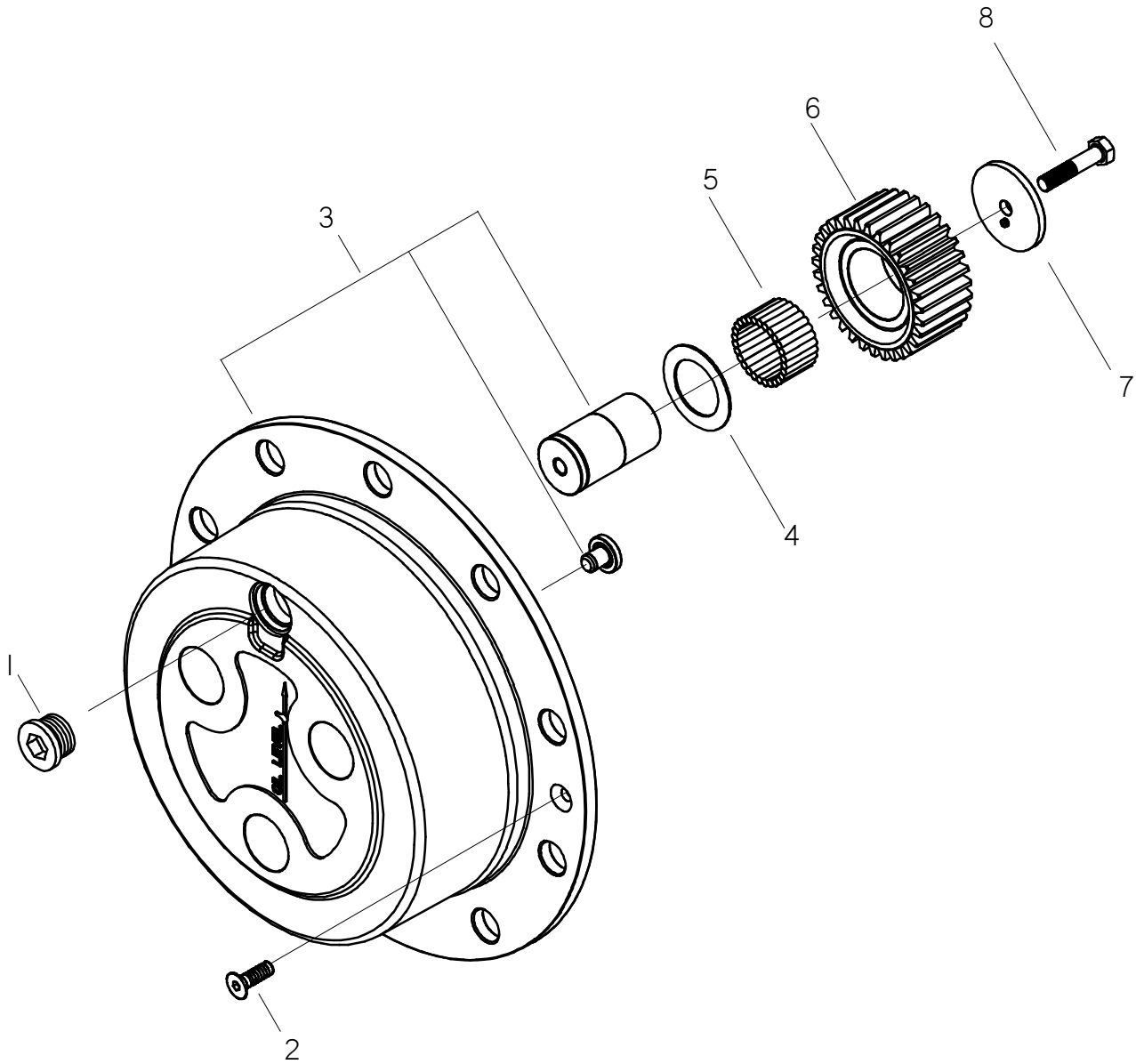
REF PART NO.	NUMBER	QTY	DESCRIPTION	REMARKS
1.	159-511	2	BREATHER (M10-1.0)	
2.	514-345	2	PLUG (M22-1.50, SOC)	
3.	500-1902	1	BUSHING	
4.	500-1901	1	WASHER	
5.	500-1896	2	BUSHING	
6.	500-1895	2	BELLEVILLE WASHER	
7.	500-1135	2	SEAL	
8.	499-466	2	BUSHING	
9.	500-1899	2	BELLEVILLE WASHER	
10.	500-1898	2	SPHERICAL BEARING	
11.	499-470	1	BUSHING	
12.	500-1900	1	WASHER	

NOT SHOWN:

FOOTNOTES:

NOTE:

AXLE  
REDUCTION GEAR  
RT115 QUAD TRACK



# AXLE REDUCTION GEAR RT115 QUAD TRACK

REF	PART				
NO.	NUMBER	QTY	DESCRIPTION		REMARKS
1.	114-036	1	PLUG, PLANTERY CARRIER		
2.	107-349	4	BOLT, PLANTERY (M8-20)		
3.	500-1861	2	PLANTERY CARRIER ASM.		
4.	500-1862	6	THRUST WASHER		
5.	500-1864	AR	BEARING NEEDLES (BY TENS)		
6.	500-1865	6	GEAR-Z31		
7.	500-1863	6	THRUST WASHER		
8.	106-331	6	SCREW (M10-1.50 X 50mm)		

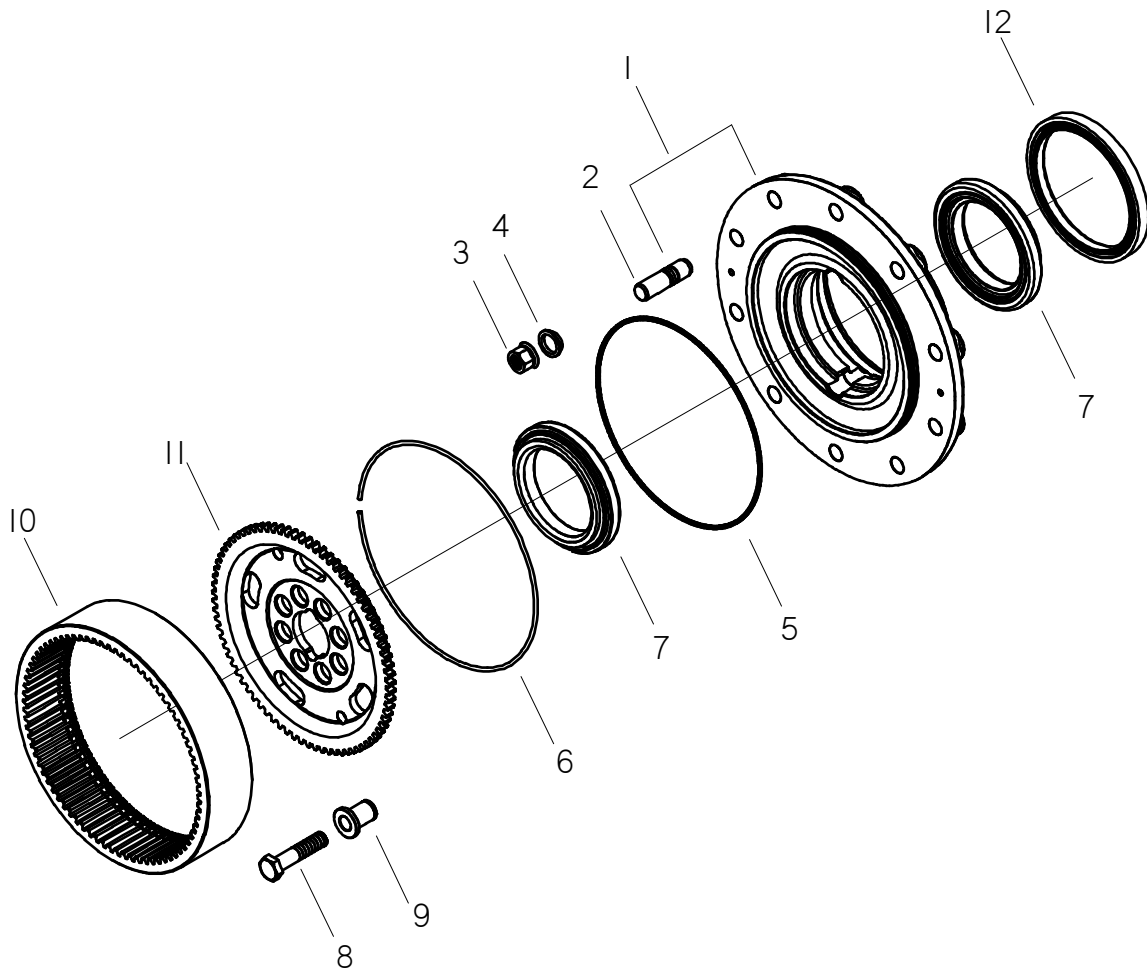
NOT SHOWN:

FOOTNOTES:

NOTE:



AXLE  
WHEEL HUB  
RT115 QUAD TRACK



# AXLE WHEEL HUB RT115 QUAD TRACK

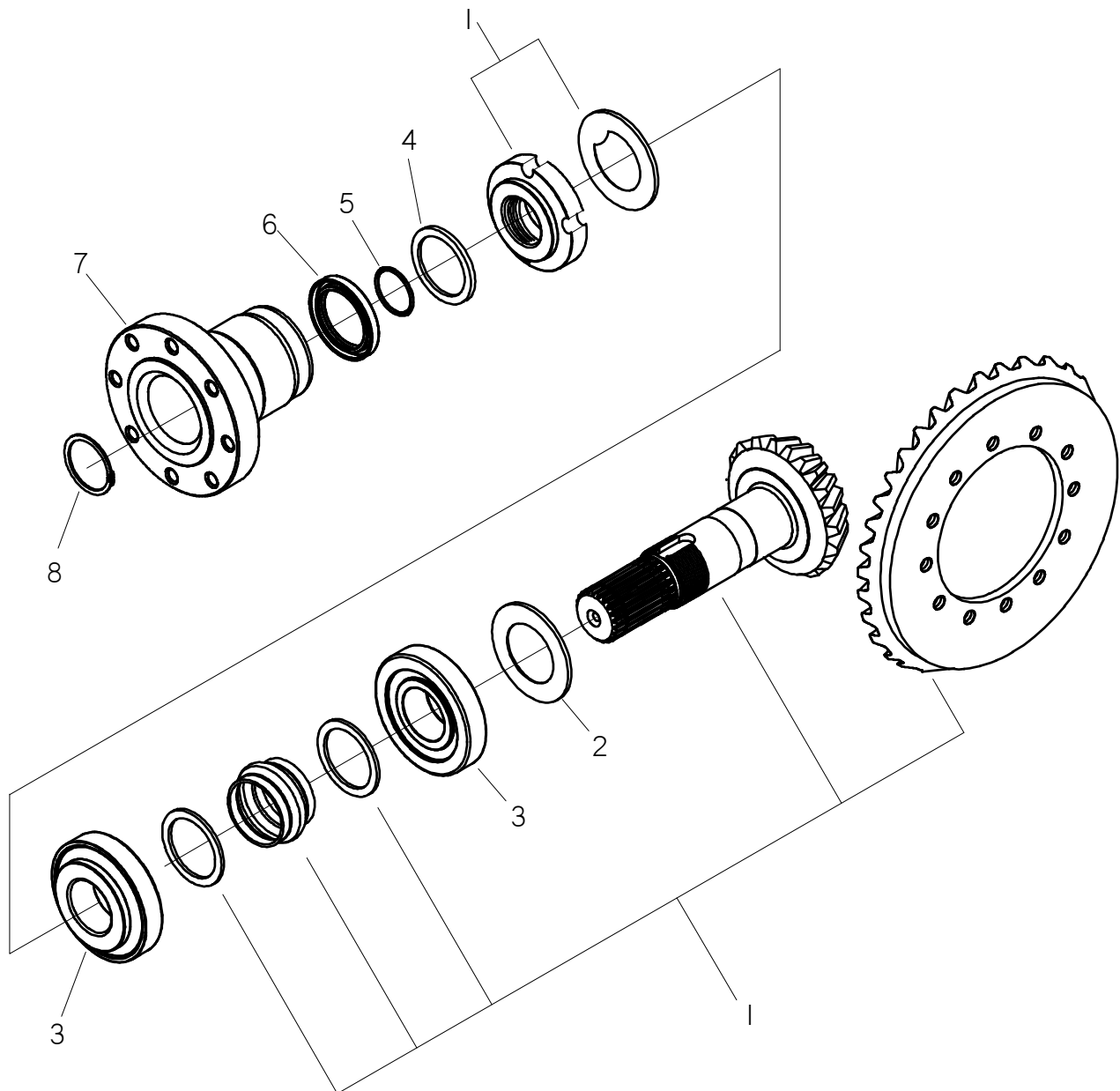
REF PART NO. NUMBER	QTY	DESCRIPTION	REMARKS
1. 500-1866	1	WHEEL HUB KIT	INCLUDES REF. #2
2. 500-1867	10	STUD	
3. 500-1875	10	NUT (M12-1.5)	
4. 500-1876	10	WASHER	
5. 500-1870	2	O-RING	
6. 500-1871	2	RING	
7. 500-1869	4	BEARING	
8. 106-142	16	SCREW (M10-1.50 X 65mm)	
9. 500-1872	16	CENTERING BUSHING	
10. 500-1874	2	CROWN GEAR Z77	
11. 500-1873	2	WHEEL CARRIER	
12. 499-940	2	SEAL RING	

NOT SHOWN:

FOOTNOTES:

NOTE:

**AXLE**  
**BEVEL GEAR/PINION SET**  
**RT115 QUAD TRACK**



# AXLE

## BEVEL GEAR/PINION SET

### RT115 QUAD TRACK

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	500-1879	1	BEVEL GEAR SET 11/32	
2.	499-487	1	SHIM KIT	SEE NOTE SECTION BELOW
3.	499-479	2	BEARING	
4.	500-1881	1	WASHER	
5.	500-1882	1	O-RING	
6.	500-1883	1	SEAL RING	
7.	500-1884	1	FLANGE	
8.	118-060	1	SNAP RING D34	

NOT SHOWN:

FOOTNOTES:

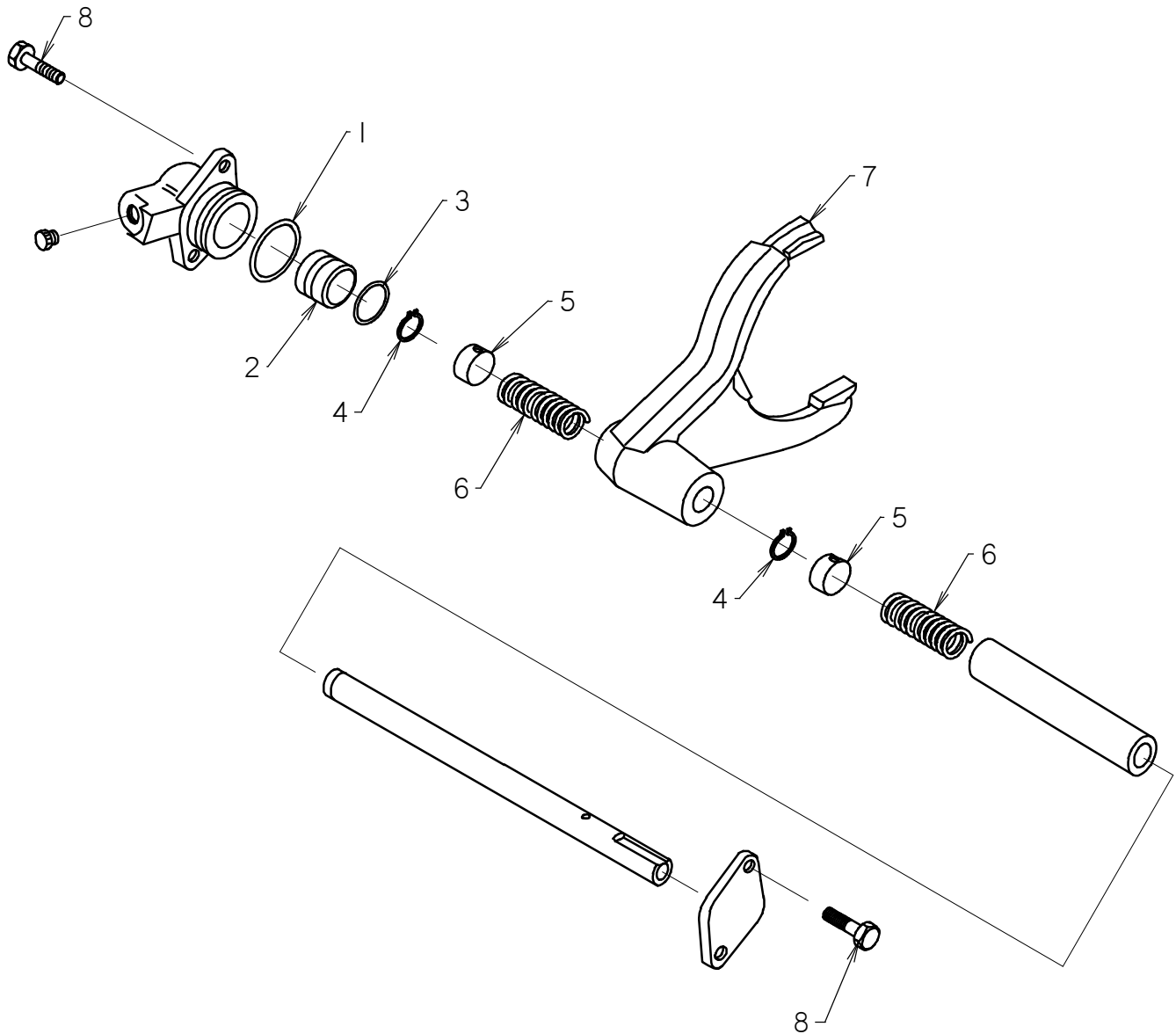
NOTE:

SHIM 2.50mm  
 SHIM 2.60mm  
 SHIM 2.70mm  
 SHIM 2.80mm  
 SHIM 2.90mm  
 SHIM 2.50mm  
 SHIM 3.00mm  
 SHIM 3.10mm  
 SHIM 3.20mm  
 SHIM 3.30mm  
 SHIM 3.40mm

# AXLE

## DIFFERENTIAL LOCK

### RT115 QUAD TRACK



# AXLE DIFFERENTIAL LOCK RT115 QUAD TRACK

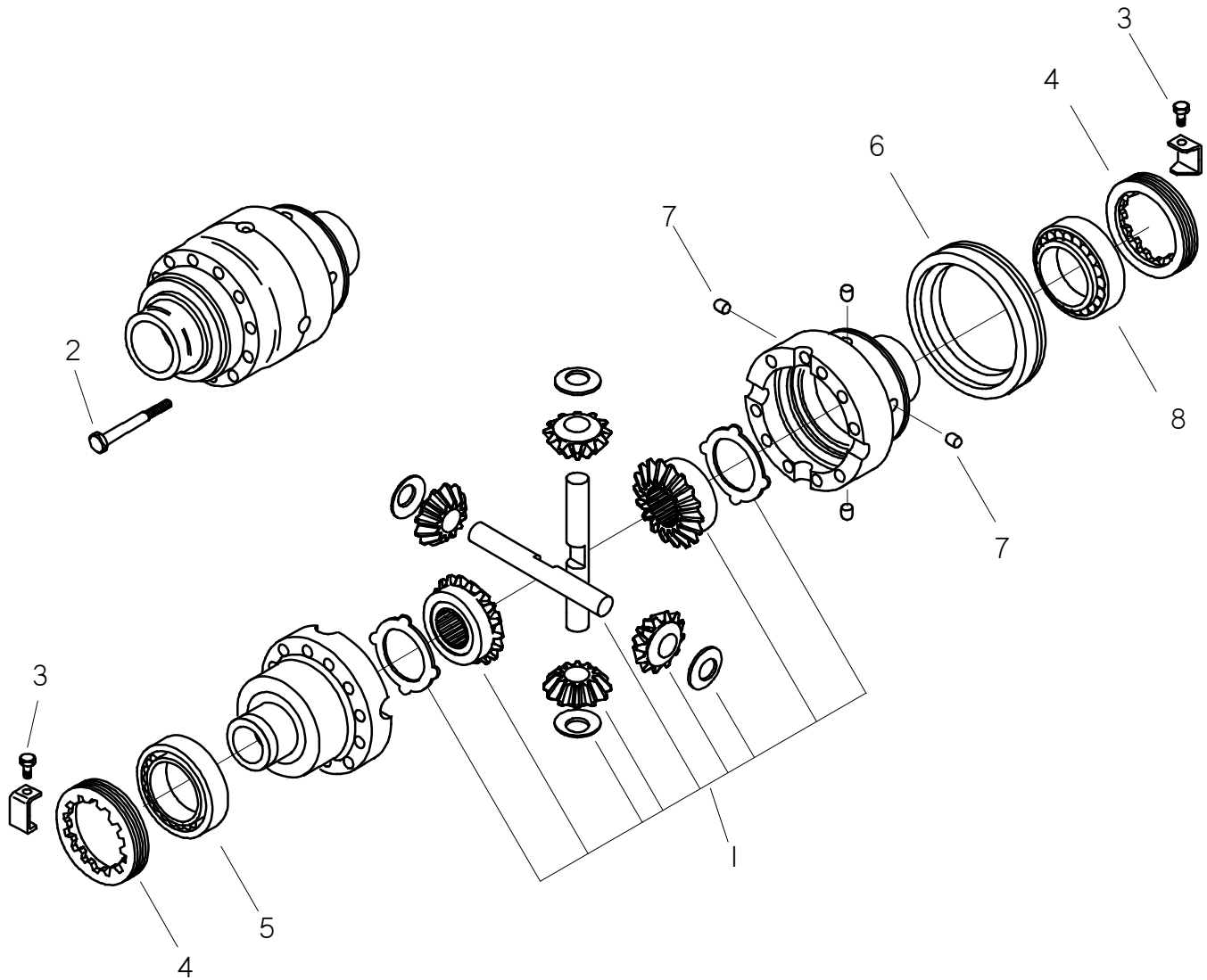
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	499-488	1	O-RING	
2.	499-489	1	PISTON	
3.	499-490	1	O-RING	
4.	499-491	2	SNAP RING (D12)	
5.	499-492	2	SPACER	
6.	499-493	2	SPRING	
7.	499-494	1	FORK	
8.	106-083	4	SCREW (M8-1.25 x 20mm)	

NOT SHOWN:

FOOTNOTES:

NOTE:

# AXLE DIFFERENTIAL RT115 QUAD TRACK



# AXLE DIFFERENTIAL RT115 QUAD TRACK

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	499-483	1	DIFFERENTIAL KIT	
2.	107-346	12	LK SCREW (M10-1.50 X 75mm)	
3.	107-348	2	SCREW (M6-1.00 X 10mm)	
4.	500-1878	2	RING NUT (M94 X 2)	
5.	499-484	1	BEARING	USED ON ALL MODELS. SIZE: 90X50X21.75mm
6.	499-485	1	SLEEVE	
7.	499-486	4	PIN	
8.	500-2006	1	BEARING	REPLACES ONE 499-484 ON NEWER MODELS. SIZE: 90X55X23mm

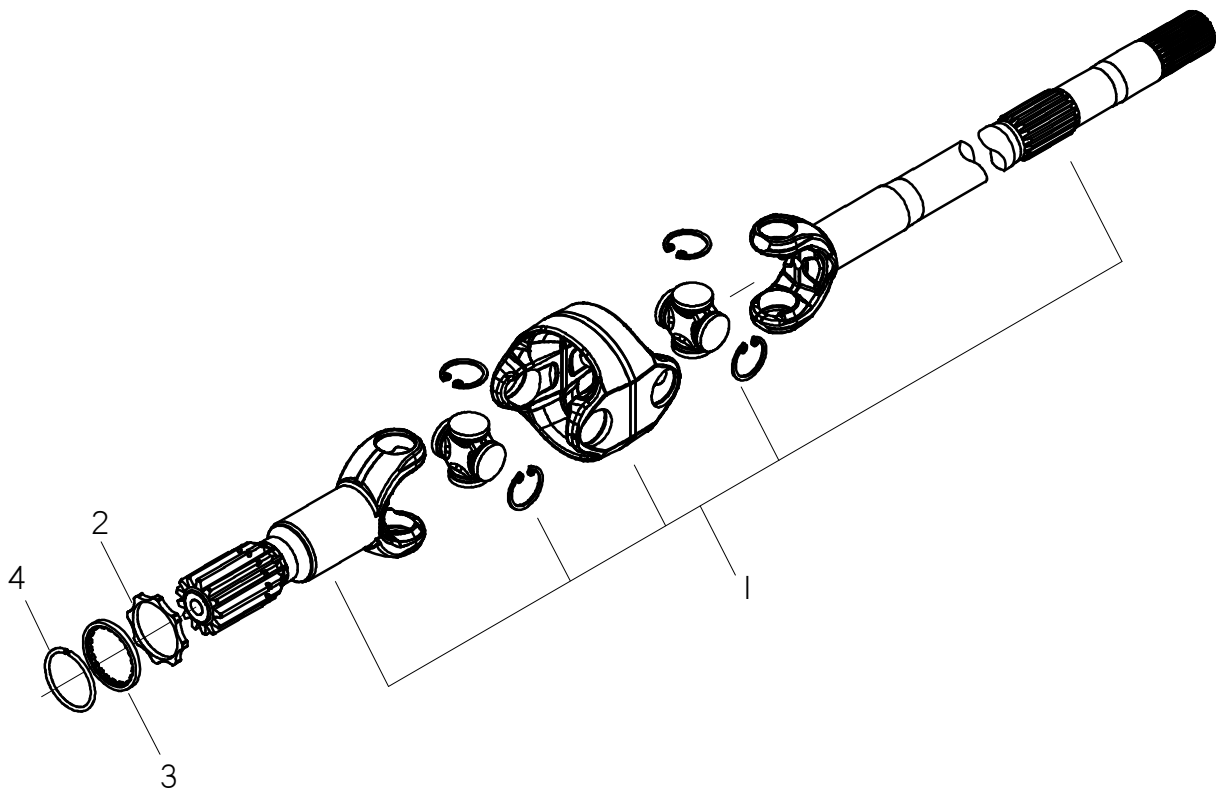
NOT SHOWN:

FOOTNOTES:

NOTE:



AXLE  
DOUBLE JOINT  
RT115 QUAD TRACK



**AXLE  
DOUBLE JOINT  
RT115 QUAD TRACK**

REF	PART				REMARKS
NO.	NUMBER	QTY	DESCRIPTION		
1.	499-495	2	DOUBLE JOINT		
2.	500-1266	2	THRUST WASHER		
3.	500-1267	2	WASHER		
4.	500-1268	2	SNAP RING		

NOT SHOWN:

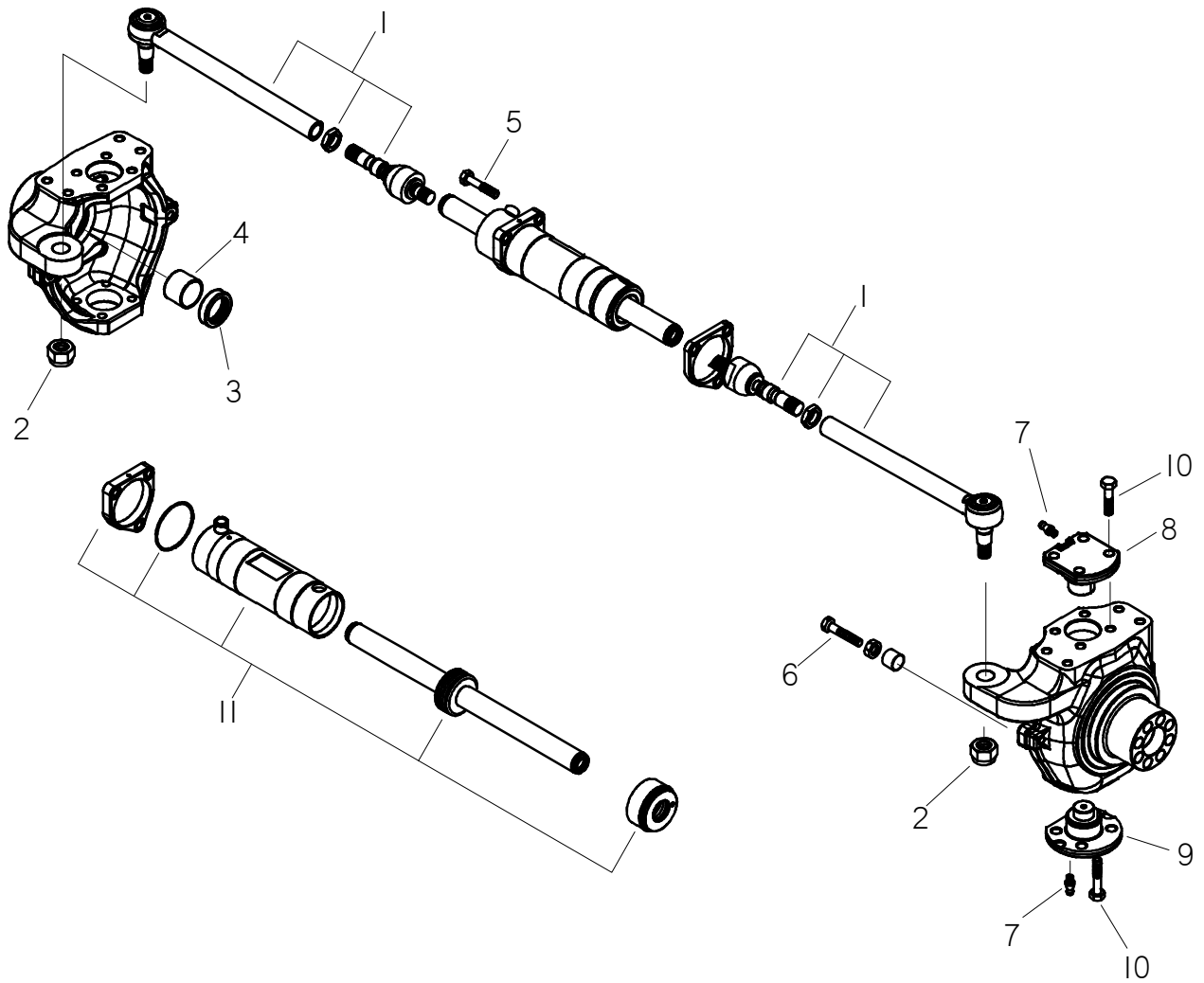
FOOTNOTES:

NOTE:

# AXLE

## SWIVEL HOUSING & STEERING CYLINDER

### RT115 QUAD TRACK



# AXLE SWIVEL HOUSING & STEERING CYLINDER RT115 QUAD TRACK

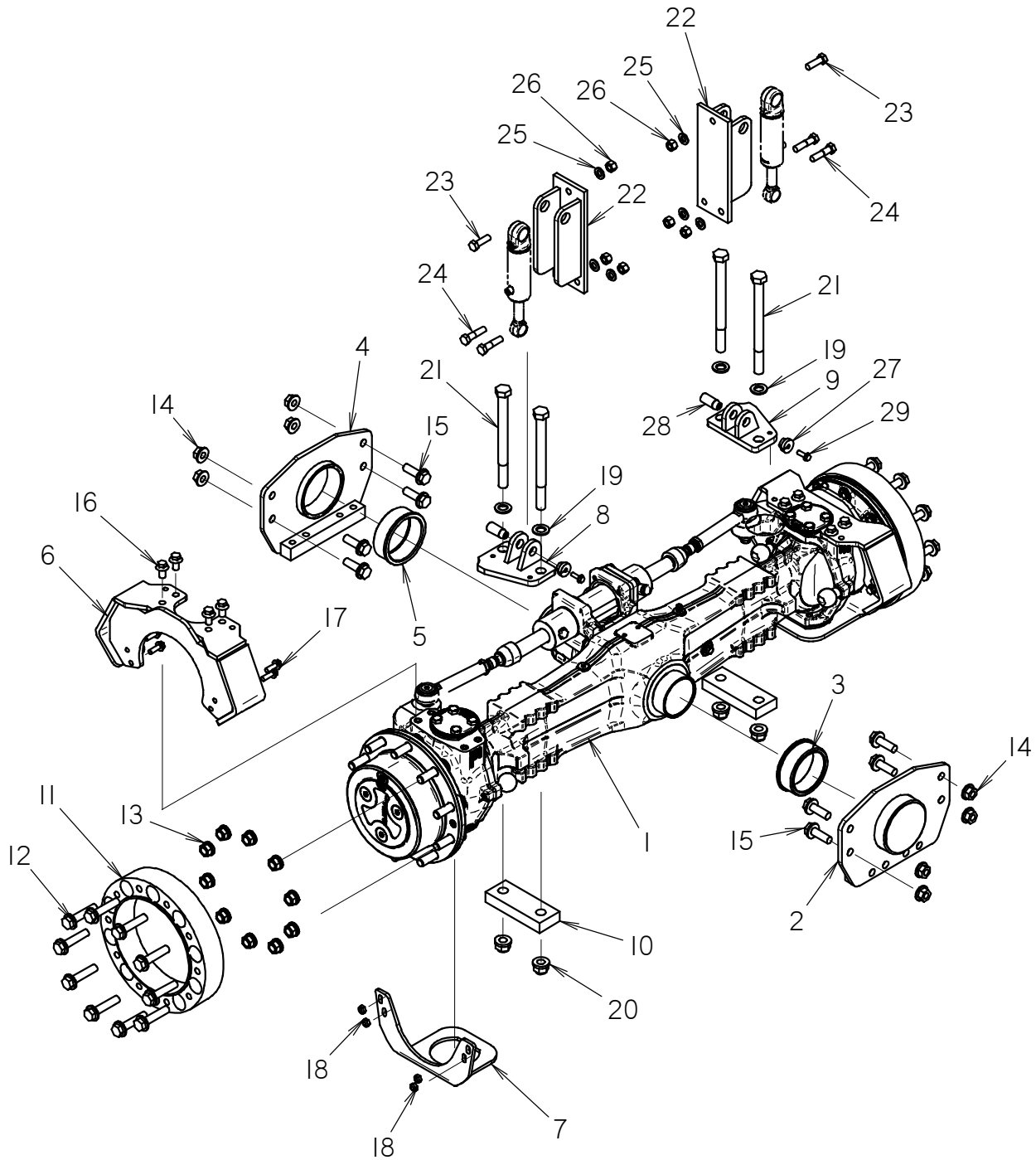
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	500-1886	2	STEERING ARM ASSEMBLY	
2.	500-1887	2	NUT (M24-1.5)	
3.	500-1888	2	SEAL RING	
4.	500-1889	2	BUSHING	
5.	107-344	3	LK SCREW (M12-1.75 X 45mm)	
6.	107-345	4	SCREW (M16-2.00 X 100mm)	
7.	115-065	4	ZERK (M6-1.0)	
8.	500-1892	4	KING PIN	
9.	500-1893	4	KING PIN	
10.	500-1891	16	SCREW (M16-38)	
11.	500-1890	1	SEAL KIT	

NOT SHOWN:

FOOTNOTES:

NOTE:

# REAR AXLE-TILT RT115 QUAD TRACK



# REAR AXLE-TILT

## RT115 QUAD TRACK

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	160-1197	1	STEERABLE AXLE (26.28)	
2	300-9769	1	AXLE MOUNT	
3	301-0051	1	BRONZE BUSHING (120mm)	
4	300-9768	1	AXLE MOUNT	
5	178-365	1	BRONZE BUSHING (4.928")	
6	300-9781	2	STOP MOUNT BRACKET	
7	300-0089	2	BOTTOM BRACE	
8	301-1945	1	LEFT QUAD TILT CYLINDER AXLE MOUNT	SEE FOOTNOTES 1 AND 2
9	301-1944	1	RIGHT QUAD TILT CYLINDER AXLE MOUNT	SEE FOOTNOTES 1 AND 2
10	301-0211	2	CLAMP PLATE	
11	300-9773	2	ADAPTER RING	
12	106-486	20	FLG SCREW(M20-2.50X 90MM,10.9)	
13	105-1442	20	FLG LOCKNUT, M22 X 1.5	
14	106-356	8	FLG NUT (M20-2.50, 10.9)	
15	106-831	8	FLG SCREW(M20-2.50X 80MM,10.9)	TORQUE TO 580 FT-LB, USE LOCTITE 277 (RED) OR EQUIVALENT
16	106-471	8	FLG SCREW (M16-2.00 X 30MM)	USE LOCTITE 277 (RED)
17	106-496	7	FLG SCREW (M12-1.75 X 35MM)	
18	106-685	4	LOCKNUT(M12-1.75,PRV TRQ,10.9)	
19	106-625	4	WASHER (M24)	
20	106-489	4	FLG NUT (M24-3.00, 10.9)	
21	106-887	4	SCREW (M24-3.00 X 300MM, 10.9)	
22	301-1942	2	TILT CYLINDER MOUNT	SEE FOOTNOTES 1 AND 2
23	106-340	2	SCREW (M16-2.00 X 50MM)	
24	106-666	4	SCREW (M16-2.00 X 65MM, 10.9)	
25	106-398	6	WASHER (M16, HARDENED)	
26	106-545	6	LOCKNUT (M16-2.0,PRV TRQ,10.9)	
27	181-981	2	TAPERED INSERT (1")	
28	183-767	2	TAPERED PIN (1.000" X 2.36")	
29	106-164	2	FLG LK SCREW (M10-1.50 X 30MM)	

NOT SHOWN:

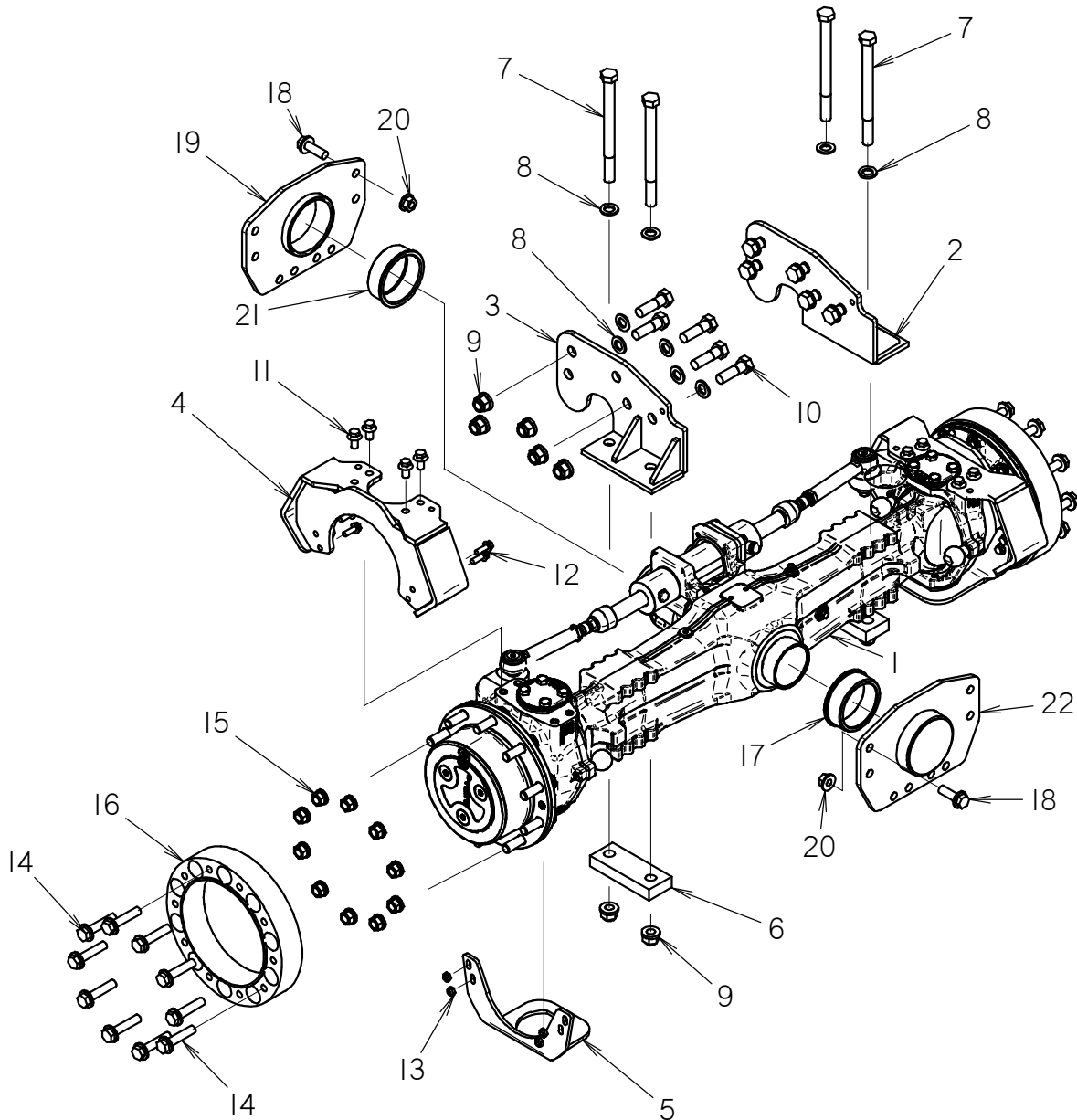
#### FOOTNOTES:

- BEGINS WITH S/N \_\_\_\_\_ TILT MOUNT 301-1944 SUPERSEDES 300-9898, TILT MOUNT 301-1945 SUPERSEDES 300-9924, AND TILT MOUNT 301-1942 SUPERSEDES 306-891.
- IF REPLACING ONE OF 300-9898, 300-9924, OR 306-891, WITH A NEW PART, REPLACE ALL OTHER TILT MOUNTS WITH NEW PARTS TO ENSURE THAT TILT FUNCTION DOES NOT BIND.

#### NOTE:

- AXLE MOUNT PLATE ON FRONT AND BACK OF FRAME MOUNT PLATES.

# REAR AXLE - NON-TILT RT115 QUAD TRACK



# REAR AXLE - NON-TILT

## RT115 QUAD TRACK

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	160-1197	1	STEERABLE AXLE (26.28)	
2	301-0194	1	RIGHT AXLE MOUNT	
3	301-0195	1	LEFT AXLE MOUNT	
4	300-9781	2	STOP MOUNT BRACKET	
5	300-0089	2	BOTTOM BRACE	
6	301-0211	2	CLAMP PLATE	
7	106-887	4	SCREW (M24-3.00 X 300MM, 10.9)	
8	106-625	14	WASHER (M24)	
9	106-489	14	FLG NUT (M24-3.00, 10.9)	
10	107-152	10	SCREW (M24-3.00 X 80MM, 10.9)	
11	106-471	8	FLG SCREW (M16-2.00 X 30MM)	USE LOCTITE 242 (BLUE).
12	106-496	8	FLG SCREW (M12-1.75 X 35MM)	
13	106-685	8	LOCKNUT (M12-1.75, PRV TRQ, 10.9)	
14	106-486	20	FLG SCREW (M20-2.50 X 90MM, 10.9)	
15	105-1442	20	FLG LOCKNUT, M22 X 1.5	
16	300-9773	2	ADAPTER RING	
17	301-0051	1	BRONZE BUSHING (120mm)	
18	106-831	8	FLG SCREW (M20-2.50 X 80MM, 10.9)	TORQUE TO 580 FT-LB, USE LOCTITE 680 OR EQUIVALENT
19	300-9768	1	AXLE MOUNT	
20	106-356	8	FLG NUT (M20-2.50, 10.9)	
21	178-365	1	BRONZE BUSHING (4.928")	
22	300-9769	1	AXLE MOUNT	

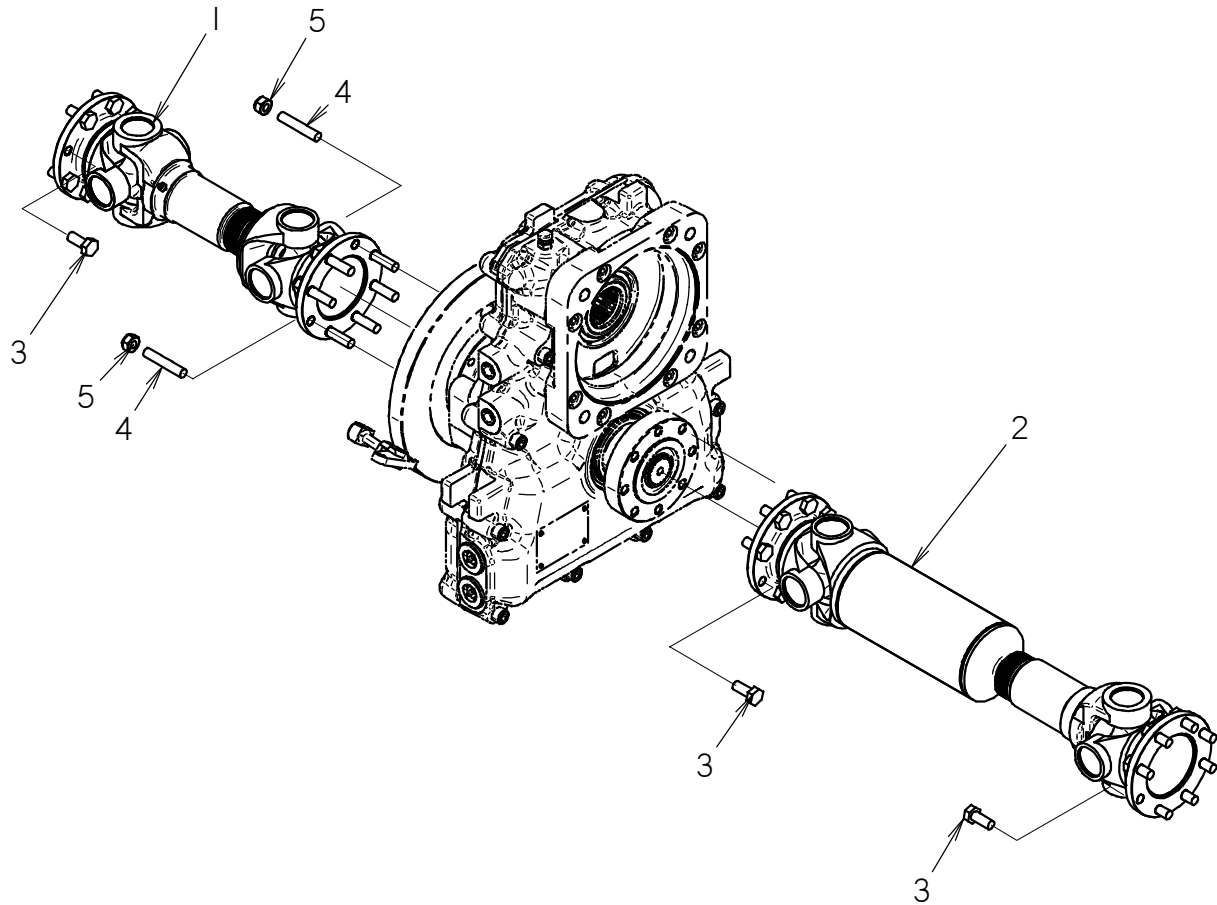
NOT SHOWN:

FOOTNOTES:

NOTE:



DRIVE LINE  
FRONT/REAR  
RT115 QUAD TRACK



# DRIVE LINE

## FRONT/REAR

### RT115 QUAD TRACK

REF PART

NO. NUMBER QTY DESCRIPTION REMARKS

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	160-1202	1	FRONT DRIVE SHAFT	
2	160-1201	1	REAR DRIVESHAFT	
3	107-966	24	SCREW (M10-1.50 X 25MM)	USE LOCTITE 609 OR EQUIVALENT
4	105-1452	8	STUD (M10 - 1.5 X 55MM)	USE LOCTITE 271 OR EQUIVALENT
5	106-758	8	LOCKNUT (M10-1.5)	

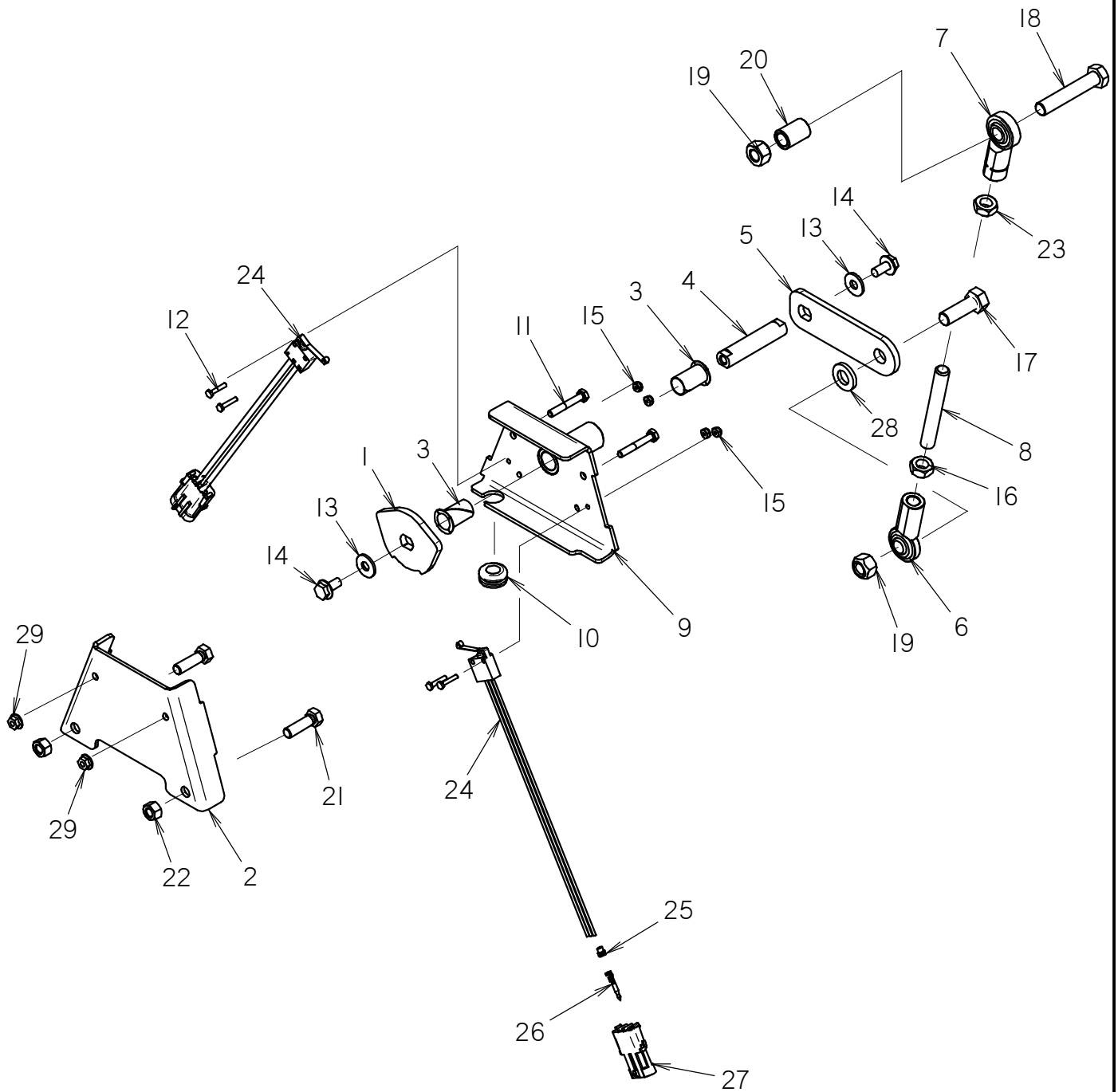
NOT SHOWN:

FOOTNOTES:

NOTE:

USE LOCTITE 242 (BLUE) THREAD LOCKER ON ALL FASTENERS.

# STEERING SENSOR ASSEMBLY RT115 QUAD



# STEERING SENSOR ASSEMBLY

## RT115 QUAD

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	300-0082	1	SWITCH DISK	
2	300-0083	1	BOX TOP	
3	125-786	2	NYLINER BUSHING 5/8	
4	300-0084	1	SHAFT	
5	300-0085	1	BOX ARM	
6	110-290	1	ROD END (1/2-NF, FM)	
7	107-574	1	ROD END (1/2-NF, FM)	
8	300-0086	1	CONTROL ROD 1/2 X 3.75	
9	300-0087	1	BOX WELDMENT	
10	115-349	1	GROMMET (1/2")	
11	105-1056	2	SCREW (M6-1.00 X 40MM)	
12	105-1491	4	SCREW, HEX HEAD (#6-32 X 3/4")	
13	105-117	2	WASHER (5/16")	
14	106-380	2	FLG LK SCREW (M8-1.25 X 16MM)	
15	107-859	4	NUT, LOCK, #6-32, NYLON INSERT	
16	107-753	1	1/2-20 UNF JAM NUT (LH)	
17	105-048	1	BOLT (1/2-NC X 1-1/2")	
18	105-067	1	BOLT (1/2-NC X 2-3/4")	
19	105-065	2	LOCKNUT (1/2-NC)	
20	184-862	1	BUSHING	
21	105-052	2	BOLT (3/8-NC X 1-1/4")	
22	105-053	2	NUT (3/8 NC) HEX	LOCTITE 242 OR EQUIVALENT
23	106-447	1	1/2-20 UNF JAM NUT	SEE F/N 1
24	215-1568	2	SWITCH	
25	157-645	6	WEATHER-PAC SEAL (2.80MM)	
26	214-104	6	PACKARD MALE TERMINAL	
27	215-224	2	3-WAY WP MALE CONNECTOR	
28	106-397	1	WASHER (M12, HARDENED)	
29	106-385	2	FLG LOCKNUT (M6-1.00)	

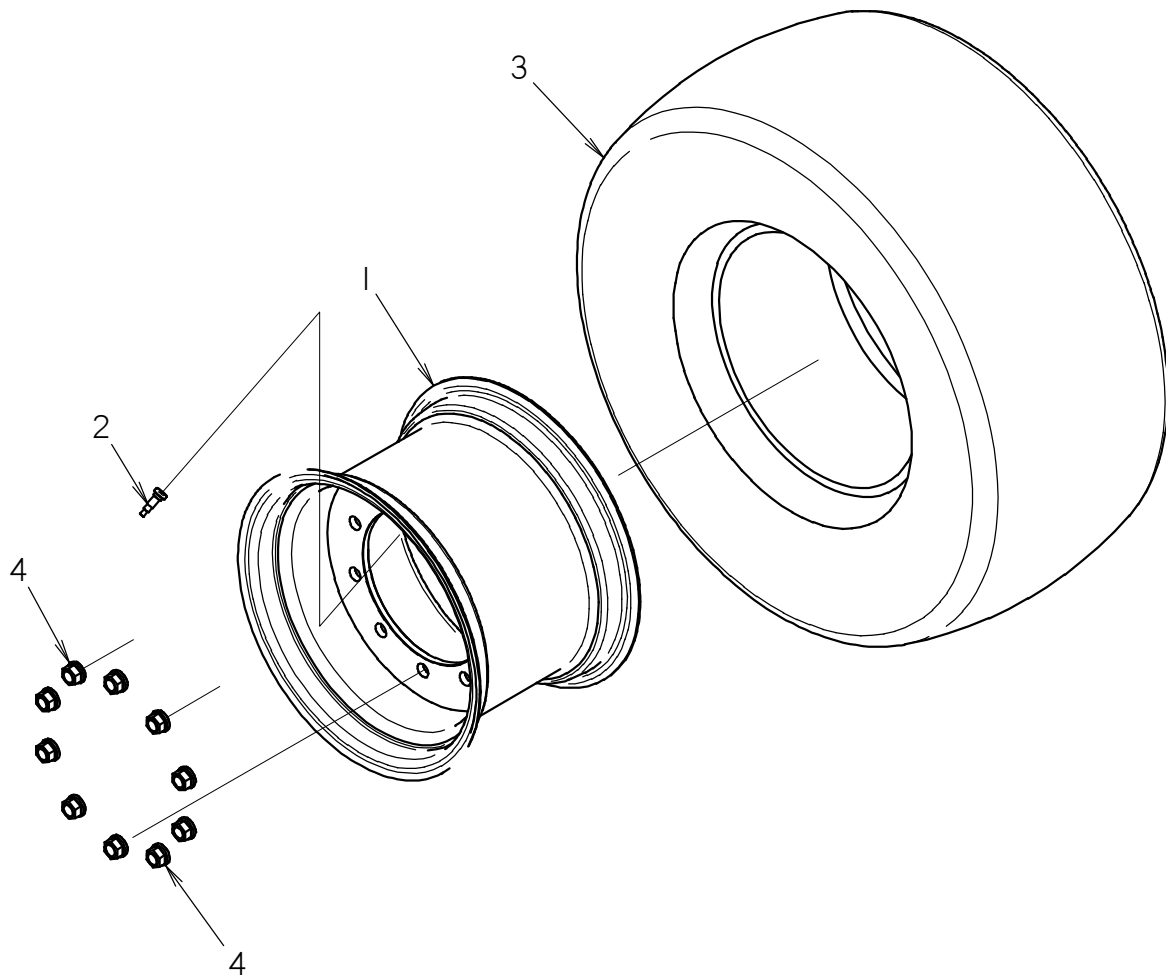
NOT SHOWN:

FOOTNOTES:

- ITEMS 24, 25, 26, & 27 CAN BE PURCHASED AS SERVICE PART 215-1591 (WITH A QUANTITY OF 2 NEEDED FOR THIS ASSEMBLY)

NOTE:

**TIRE & WHEEL**  
38 X 18.00-20.0 E16TL  
RT115 QUAD TRACK



**TIRE & WHEEL**  
**38 X 18.00-20.0 E16TL**  
**RT115 QUAD TRACK**

REF PART

NO. NUMBER QTY DESCRIPTION REMARKS

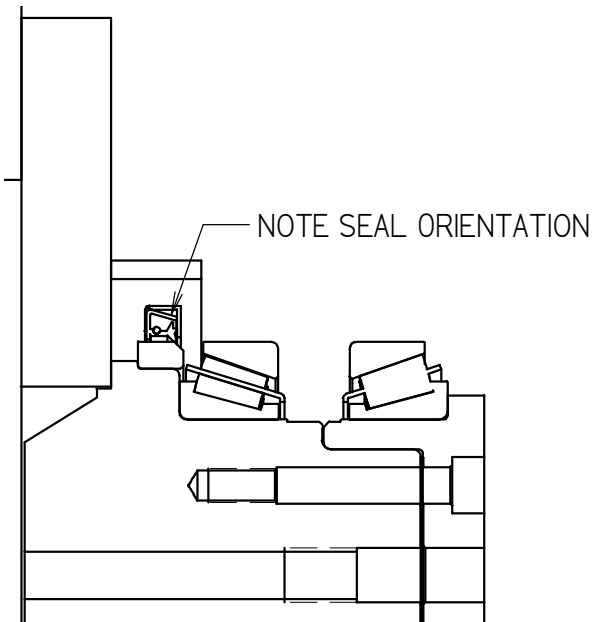
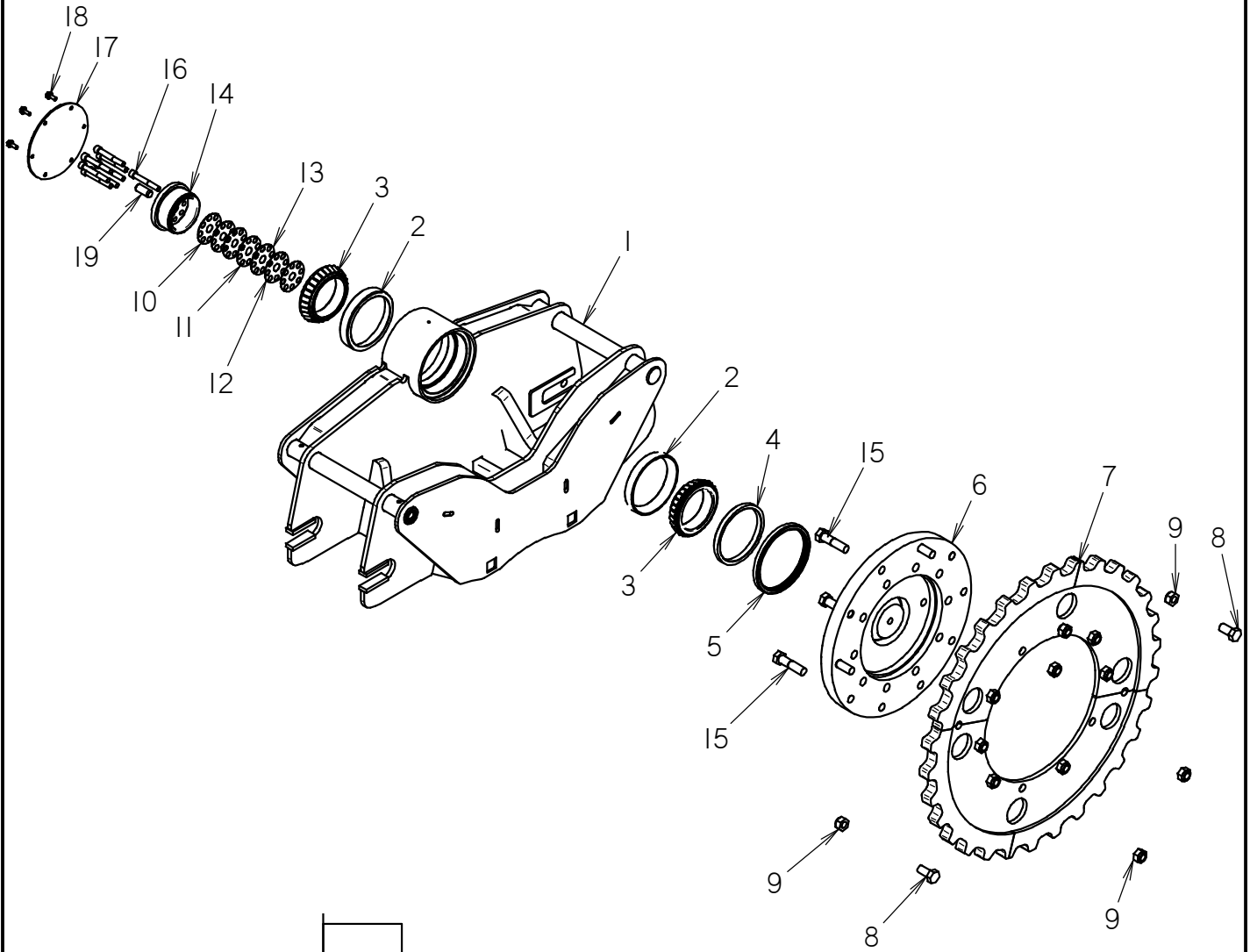
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	205-1138	4	WHEEL(20 X 14WD, W/10 HP)	
2	205-168	4	VALVE STEM	
3	205-1125	4	TIRE (38 X 18.00-20.0, E16TL)	
4	105-1442	40	FLG LOCKNUT, M22 X 1.5	

NOT SHOWN:

FOOTNOTES:

NOTE:

# TRACK DRIVE RT115 QUAD TRACK



# TRACK DRIVE

## RT115 QUAD TRACK

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	300-9678	1	RIGHT TRACK FRAME	REFER TO FOOTNOTE 1
2	126-063	2	TAPERED RACE (6.496")	
3	126-064	2	TAPERED BEARING (4.330")	
4	301-0371	1	SEAL RING	
5	105-1480	1	INTERNAL SEAL (6.500" SHAFT)	
6	300-9614	1	HUB WELDED	
7	140-1187	2	DRIVE SPROCKET WELDED 86MM X 30 TEETH	
8	106-611	4	SCREW (M20-2.50 X 40MM, 10.9)	
9	106-665	12	LOCKNUT (M20-2.50, 10.9)	
10	160-1210	1	SHIM, .002 "	USE AS REQUIRED
11	160-1211	2	SHIM, .003"	USE AS REQUIRED
12	160-1212	1	SHIM, .007"	USE AS REQUIRED
13	160-1213	3	SHIM, .020"	USE AS REQUIRED
14	301-0370	1	HALF SHAFT	
15	107-127	9	SCREW (M20-2.50 X 80MM, 10.9)	
16	105-1528	8	SCREW (M12-1.75 X 85mm, SOCI)	USE LOCTITE 277, TORQUE TO 135 Ft-Lbs - SEE FOOTNOTE'S 2 & 3.
17	300-9612	1	COVER	USE RTV SILICONE TO SEAL CAP TO HOUSING
18	106-162	5	FLG SCREW (M8-1.25 X 20MM, GD8)	
19	105-1483	1	DOWEL PIN (1.750 X 1.750)	

NOT SHOWN:

#### FOOTNOTES:

- RIGHT TRACK USING WELDMENT 300-9678 AND ALL RELATED COMPONENTS ARE SHOWN, FOR LEFT TRACK FRAME SUBSTITUTE 300-9619 (LEFT FRAME) AND USE SAME COMPONENT PARTS.
- APPLY LOCTITE 277 TO BOLTS (REF. #16) AROUND FIRST FOUR THREADS. APPLY LOCTITE 277 DOWN THE LENGTH OF THE MATING HOLES. TORQUE TO 135 Ft-Lbs IN 20lb INCREMENTS.
- SCREWS, 105-1528, BEGINS WITH S/N CMWR115QKA0000077.

#### NOTE:

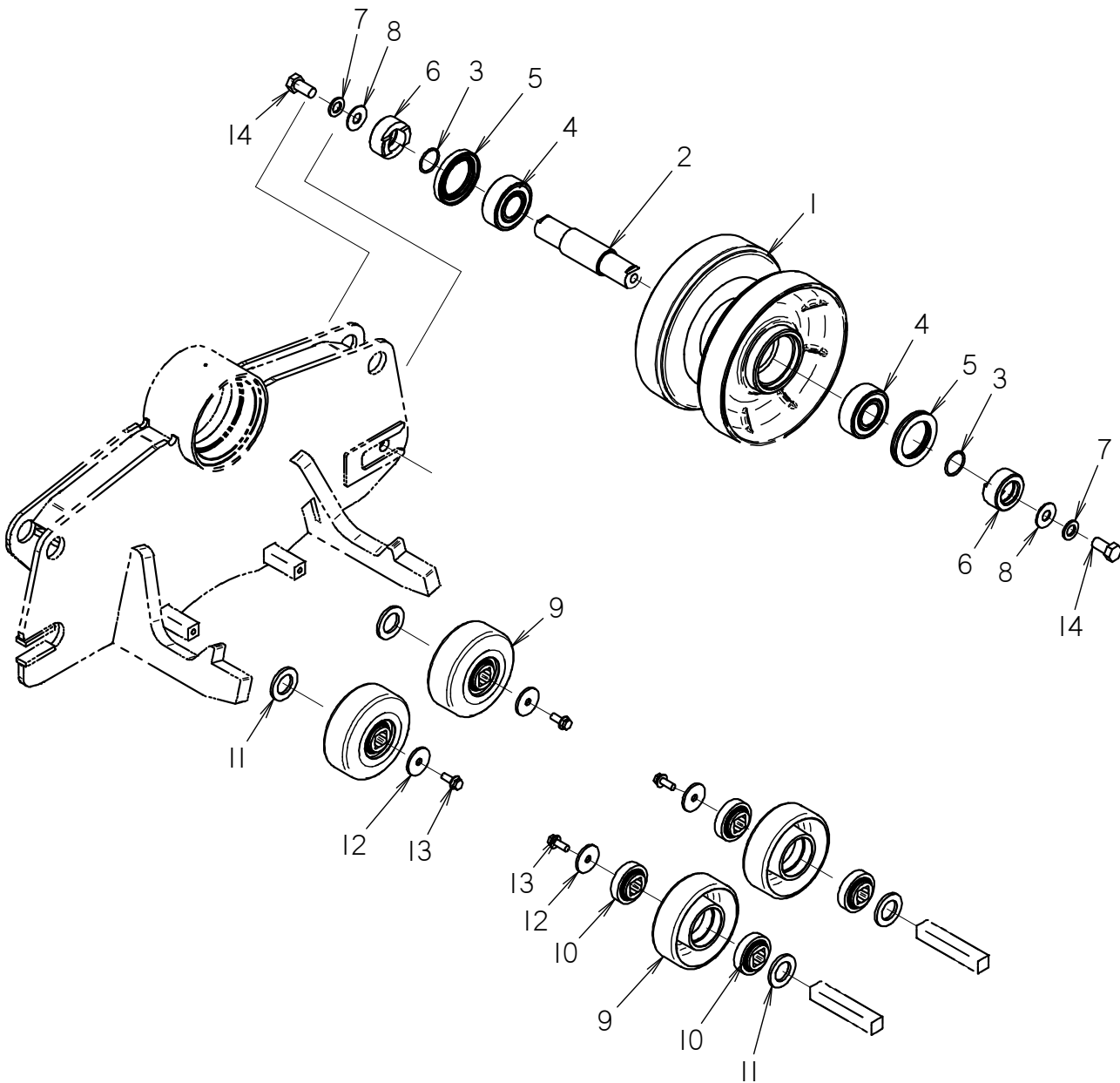
- SEE SERVICE INSTRUCTIONS OR ASSEMBLY WORK INSTRUCTIONS FOR PROPER SHIMMING/TORQUE INSTRUCTIONS.



# ROLLERS

## TRACKROLLERS & FIXED END ROLLER

### RT115 QUAD TRACK



# ROLLERS

## TRACKROLLERS & FIXED END ROLLER

### RT115 QUAD TRACK

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	140-1191	1	13.5" ROLLER	
2	300-9710	1	REAR SHAFT	
3	157-022	2	O-RING (224 D90)	
4	125-1052	2	BEARING	
5	150-3164	2	SEAL, 3.000ID x 4.329OD x .511	
6	300-9711	2	SPACER	REFER TO FOOTNOTE 1
7	106-399	2	WASHER (M20, HARDENED)	
8	105-384	2	WASHER (3/4")	USE LOCTITE 242
9	140-1188	4	TRACK ROLLER	
10	125-009	6	BALL BEARING (W/051-345 INSTR)	
11	105-1125	4	DIRT SHIELD	
12	105-475	4	WASHER (1/2")	
13	106-469	4	FLG SCREW (M12-1.75 X 30MM)	USE LOCTITE 242
14	106-611	2	SCREW (M20-2.50 X 40MM, 10.9)	REFER TO FOOTNOTE 2

NOT SHOWN:

FOOTNOTES:

- NOTE THAT FLAT EDGES OF THE SPACERS (REF #6) FIT INTO SLOTS ON FRAME WELDMENT.

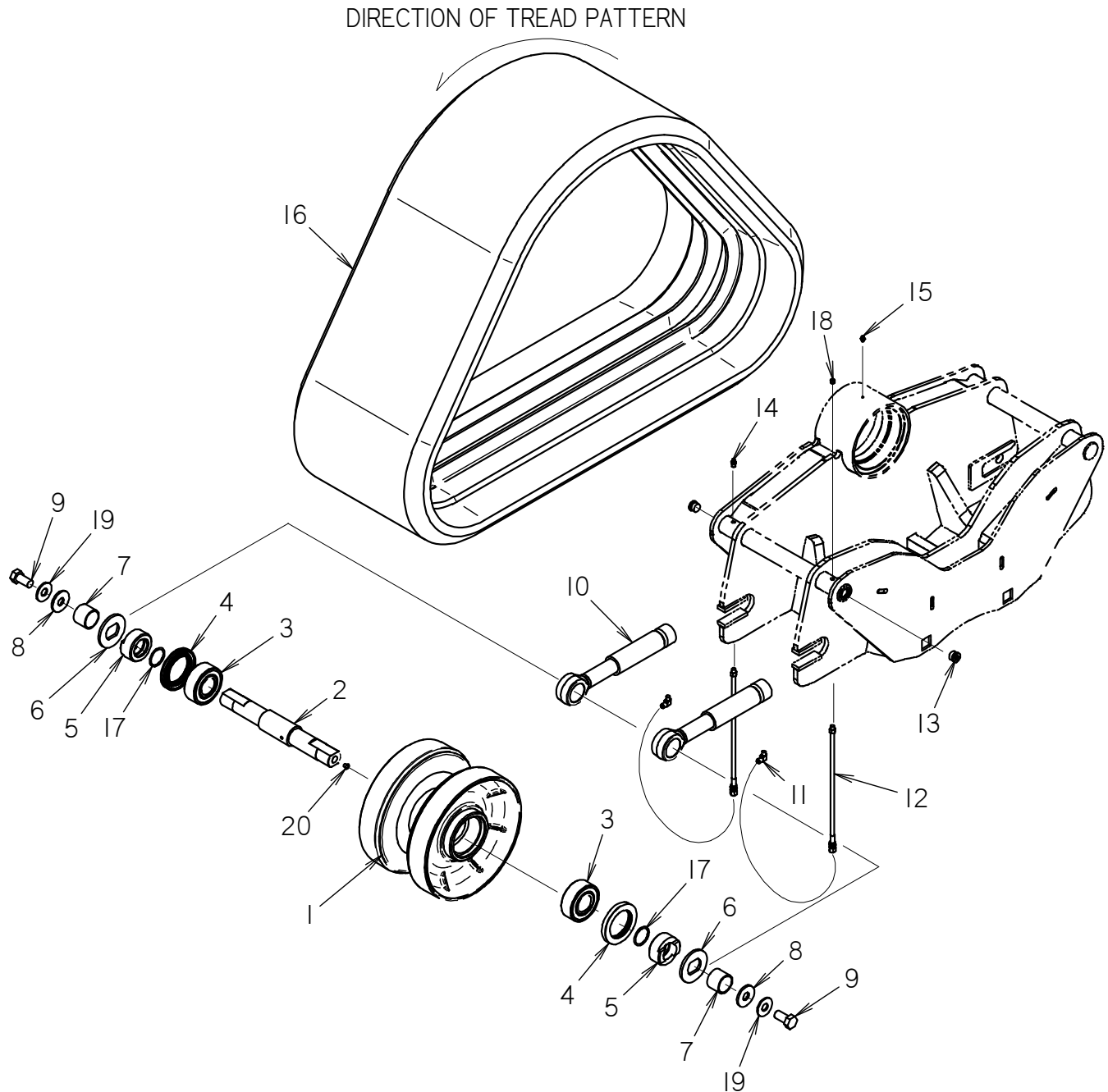
NOTE:

- REFER TO O-RING CHART (800-301) IN BACK OF THE BOOK FOR REPLACEMENT OF O-RINGS.
- ADD LOCTITE 242 TO REF#14, 106-611, & TORQUE TO 400 ft.-lbs.

# TRACK TENSIONER

## ADJUSTABLE ROLLER & LUBRICATION

### RT115 QUAD TRACK



# TRACK TENSIONER

## ADJUSTABLE ROLLER & LUBRICATION

### RT115 QUAD TRACK

REF PART NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	140-1191	1	13.5" ROLLER	
2	300-9712	1	SHAFT	
3	125-1052	2	BEARING	
4	150-3164	2	SEAL, 3.000ID x 4.329OD x .511	NOTE SEAL DIRECTION
5	300-9711	2	SPACER	REFER TO FOOTNOTE 1
6	300-9713	2	WASHER	
7	125-752	2	SPRING BUSHING	
8	105-422	2	WASHER	
9	106-611	2	SCREW (M20-2.50 X 40MM, 10.9)	USE LOCTITE 242
10	150-3067	2	GREASE CYLINDER (1.5 X 5)	
11	154-158	2	CONNECTOR (1/8NPTX7/16JICX90)	
12	150-2327	2	LUBE HOSE (02N - 04JIC - 15')	
13	155-179	2	PLUG (10S, SOC)	
14	115-024	1	ZERK (02N, 5000)	
15	115-003	1	ZERK (1/4-NF, STR)	
16	300-9504	1	450 x 42L x 86P CHEVRON TREAD TRACK	NOTE DIRECTION OF TRACK PATTERN RELATIVE TO ADJUSTABLE IDLER
17	157-022	2	O-RING (224 D90)	
18	115-157	1	PLUG (02N, SOC)	
19	105-1493	2	WASHER (3/4" X 2.00" O.D., HARDENED)	
20	150-3168	1	PLASTIC PLUG	

NOT SHOWN:

#### FOOTNOTES:

- I. NOTE THAT FLAT EDGES OF THE SPACERS (REF #5) FIT INTO SLOTS ON FRAME WELDMENT.

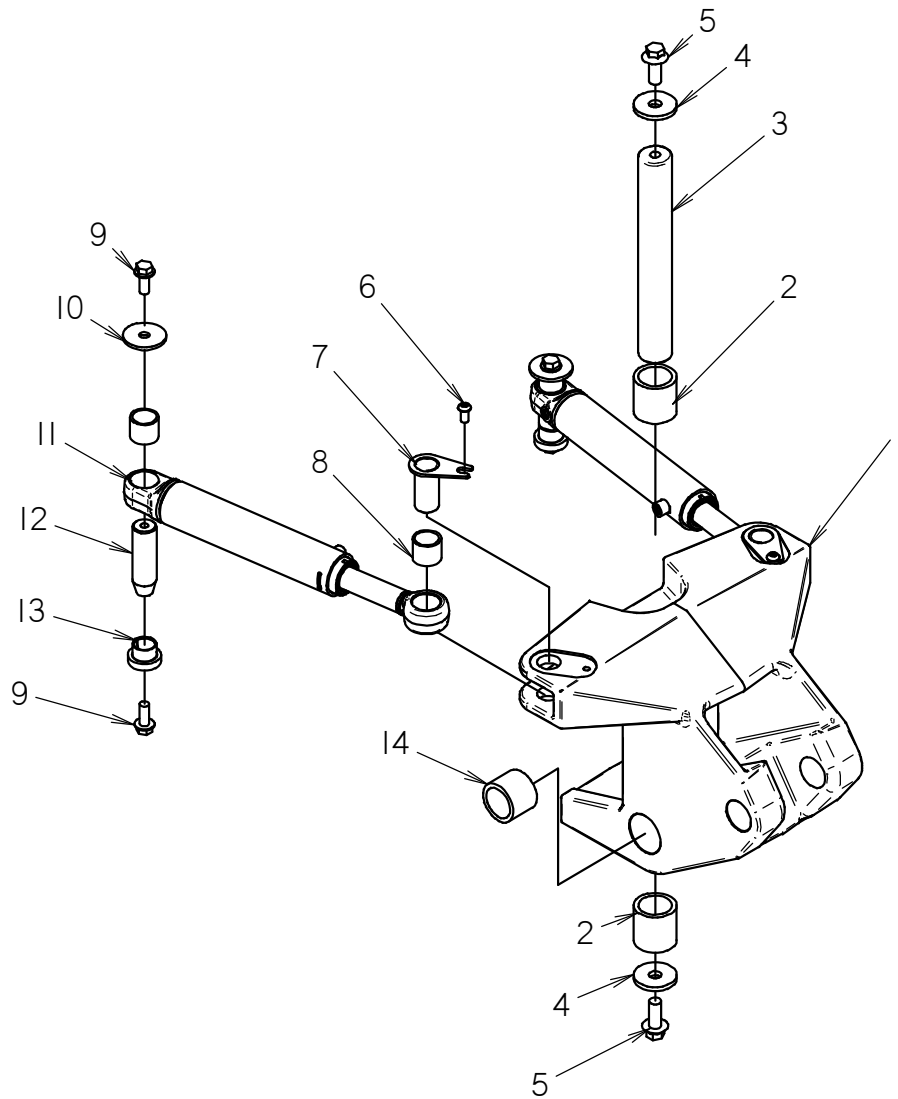
#### NOTE:

- I. REFER TO O-RING CHART (800-301) IN BACK OF THE BOOK FOR REPLACEMENT OF O-RINGS.



# **FRAME COMPONENTS**

# BACKFILL BLADE PIVOT RT115 QUAD



# BACKFILL BLADE PIVOT RT115 QUAD

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	331-475	1	PIVOT	
2	125-822	2	COMPOSITION BUSHING (1.750")	
3	178-572	1	PIN (1.750" X 12.750")	
4	105-416	2	WASHER (5/8")	
5	106-470	2	FLG SCREW (M16-2.0 X 40MM)	
6	107-537	2	BOLT (M10-1.50 X 20MM,BUT SOC)	
7	300-8460	2	TAB PIN (1.25 X 2.57)	
8	125-771	4	COMPOSITION BUSHING (1.25")	
9	105-830	4	FLG LK BOLT (1/2-NC X 1-1/4")	
10	105-475	2	WASHER (1/2")	
11	151-057	2	CYL (2.0 X 1.25 X 8.0)	
12	178-394	2	TAPERED PIN (1.250" X 4.25")	
13	181-982	2	TAPERED INSERT (1.25")	
14	125-773	2	COMPOSITION BUSHING (1.75")	

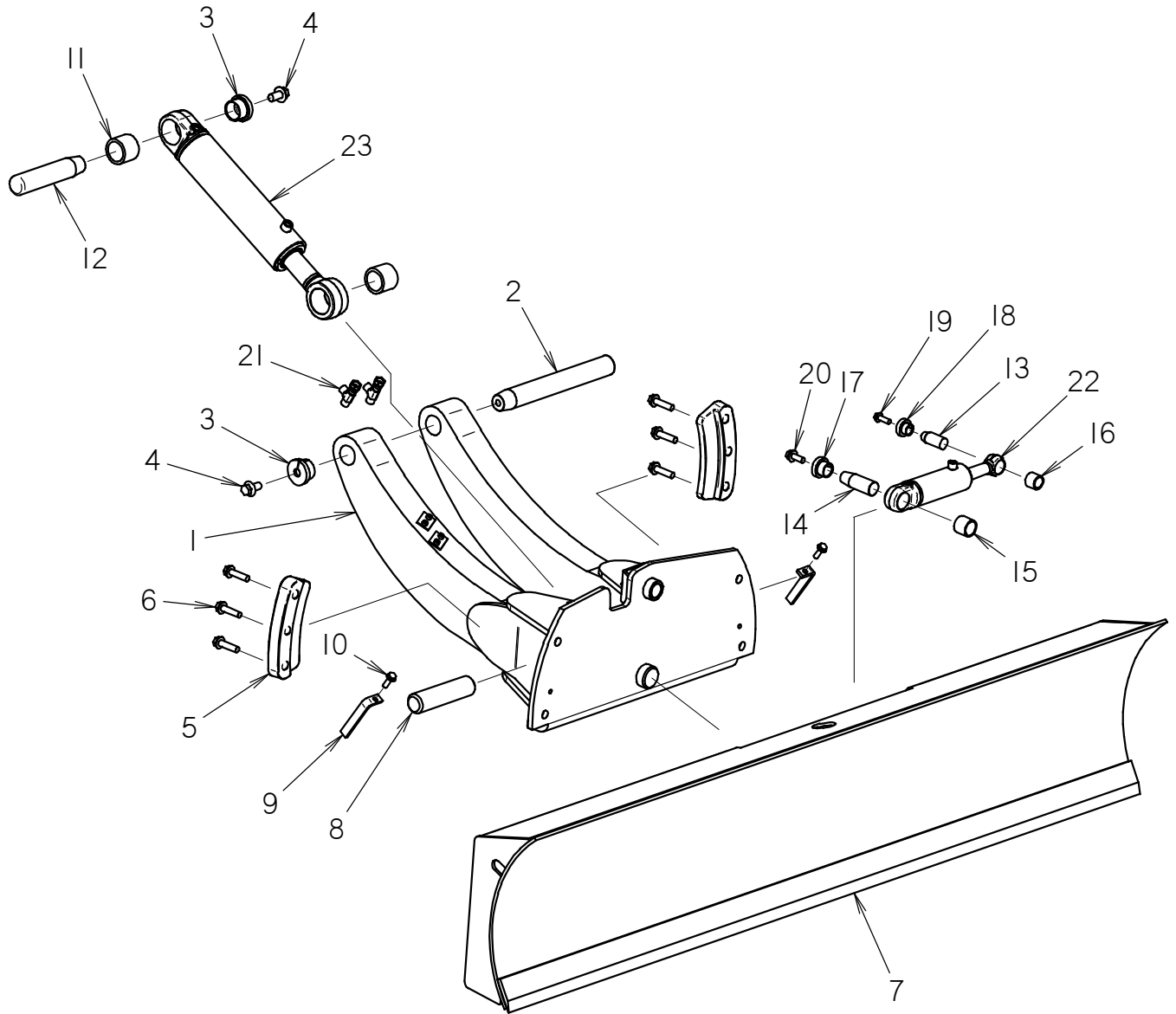
NOT SHOWN:

FOOTNOTES:

NOTE:



# BFB ARM AND BLADE RT 115 QUAD



# BFB ARM AND BLADE RT 115 QUAD

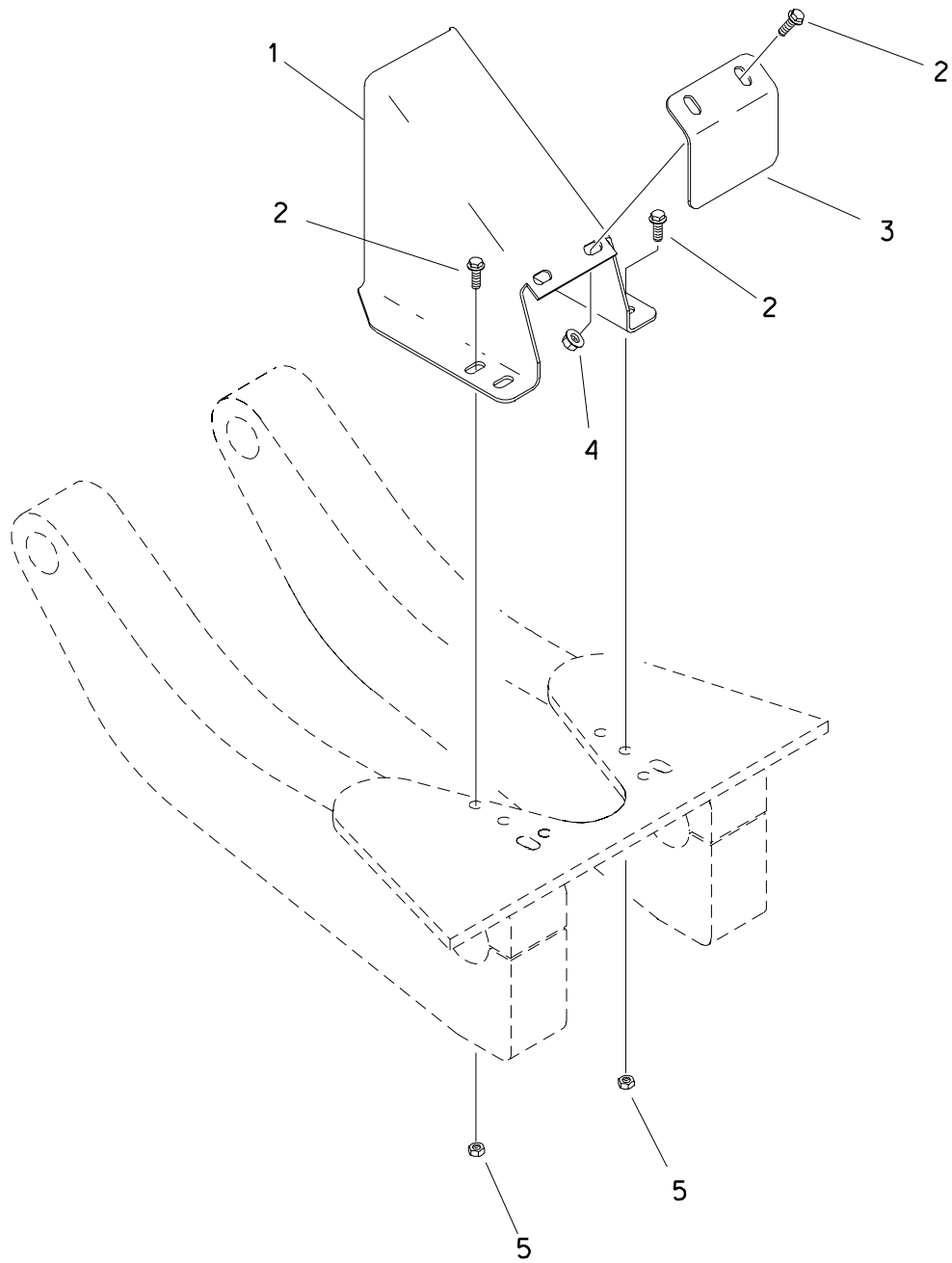
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	301-1105	1	QUAD LIFT ARM	
2	178-584	1	TAPERED PIN (1.750" X13.90")	
3	181-975	2	TAPERED INSERT (1.75")	
4	106-471	2	FLG SCREW (M16-2.00 X 30MM)	
5	314-104	2	TILT BLADE RETAINER	
6	105-885	6	FLG LK BOLT (1/2-NC X 2")	
7	331-749	1	BACKFILL BLADE ASSEMBLY (80")	
8	178-532	1	PIN	
9	309-138	2	RETAINER	
10	106-383	2	FLG LK SCREW (M10-1.50 X 30MM)	
11	125-773	2	COMPOSITION BUSHING (1.75")	
12	183-768	1	TAPERED PIN (44.4MM X 205MM)	
13	183-767	1	TAPERED PIN (1.000" X 2.36")	
14	183-766	1	TAPERED PIN (31.7MM X 90MM)	
15	125-771	1	COMPOSITION BUSHING (1.25")	
16	125-770	1	COMPOSITION BUSHING (1.000")	
17	181-982	1	TAPERED INSERT (1.25")	
18	181-981	1	TAPERED INSERT (1")	
19	106-164	1	FLG LK SCREW (M10-1.50 X 30MM)	
20	106-469	1	FLG SCREW (M12-1.75 X 30MM)	
21	154-344	2	UN RUN TEE (060FX-060-060)	
22	151-202	1	CYL (2.0" X 1.0" X 3.38")	
23	150-3170	1	CYL (3.0 X 1.75 X 7.50, SPI)	

NOT SHOWN:

FOOTNOTES:

NOTE:

## BFB CYLINDER GUARD



# BFB CYLINDER GUARD

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	191-285		CYLINDER GUARD KIT	INCLUDES REF NUMBERS 1-5 & SEE FOOTNOTE 1
1.	319-787	1	CYLINDER GUARD	
2.	106-724	6	FLG SCREW (M10-1.50 X 25mm)	
3.	319-789	1	COVER	
4.	106-387	2	FLG LOCKNUT (M10-1.50)	
5.	106-758	4	LOCKNUT (M10-1.50)	

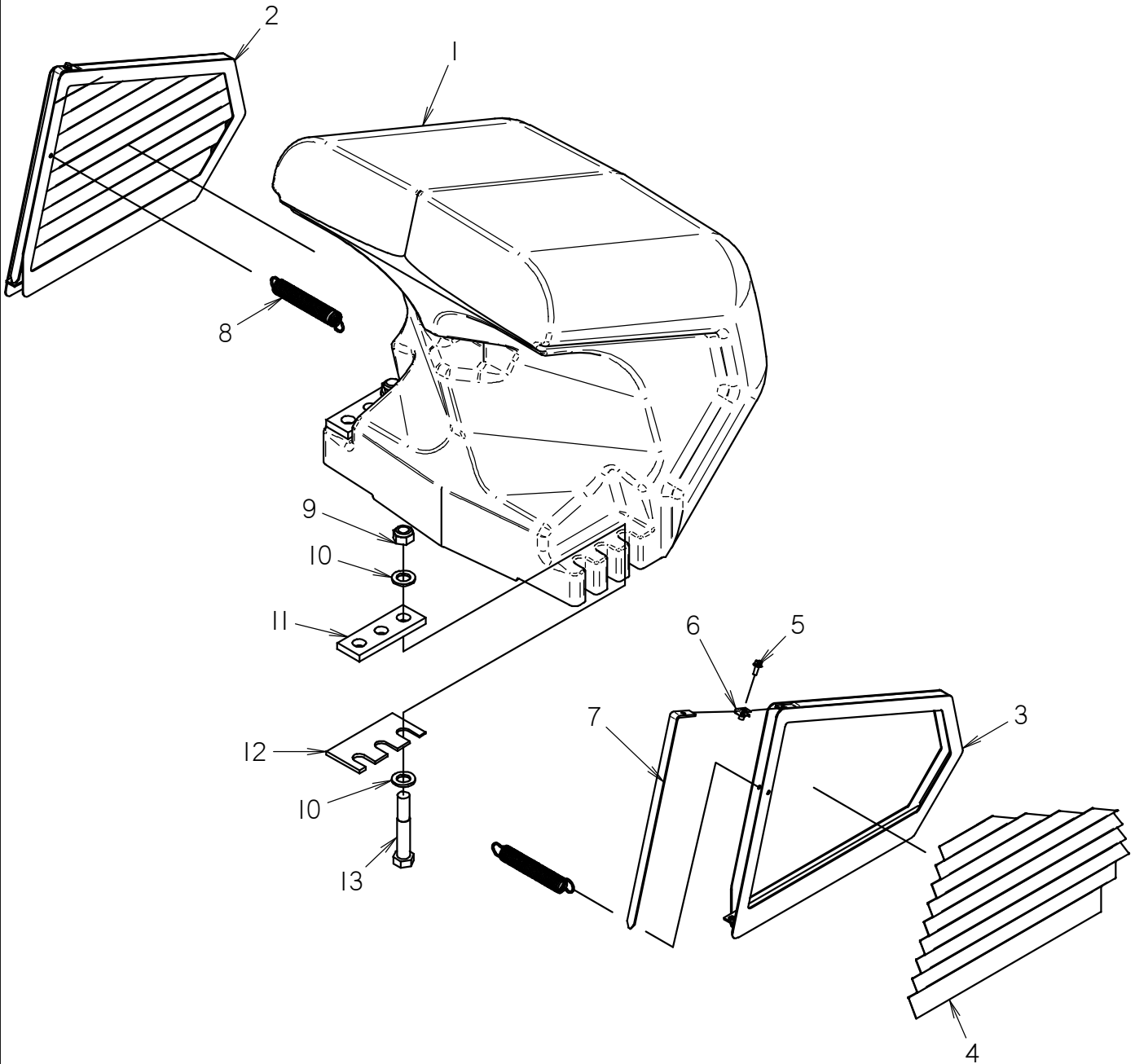
**NOTE**

REFER TO INSTALLATION INSTRUCTIONS 051-336 FOR INSTALLING BFB CYLINDER GUARD.

**FOOTNOTES**

1. THIS OPTION CANNOT BE USED WITH AUX. MANIFOLD KIT 191-272 BECAUSE OF INTERFERENCE.

# COUNTERWEIGHT/GRILL RT115 QUAD



# COUNTERWEIGHT/GRILL RT115 QUAD

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	190-1315		COUNTERWEIGHT KIT	INCLUDES ITEMS 1-13 & NOT SHOWN ITEMS
1	375-457	1	NOSE CASTING	
2	300-7171	1	GRILLE ASM-L.H.	
3	300-7170	1	GRILLE ASM-R.H.	
4	308-723	2	SCREEN	
5	106-987	2	FLG LK SCREW (M6-1.00 X 16MM)	
6	106-574	2	CLIP NUT (M6-1.00)	
7	178-873	2	SCREEN RETAINER	
8	117-386	2	EXTENSION SPRING	
9	106-665	6	LOCKNUT (M20-2.50, 10.9)	
10	106-399	12	WASHER (M20, HARDENED)	
11	307-531	2	CLAMP BAR	
12	300-7930	2	RECTANGULAR SHIM	THIN SIDE OF SHIM GOES TO THE FRONT OF THE MACHINE
13	106-626	6	SCREW (M20-2.50 X 120MM, 10.9)	TORQUE TO 350 FT/LB, USE 051-420 FOR TORQUE SEQUENCE

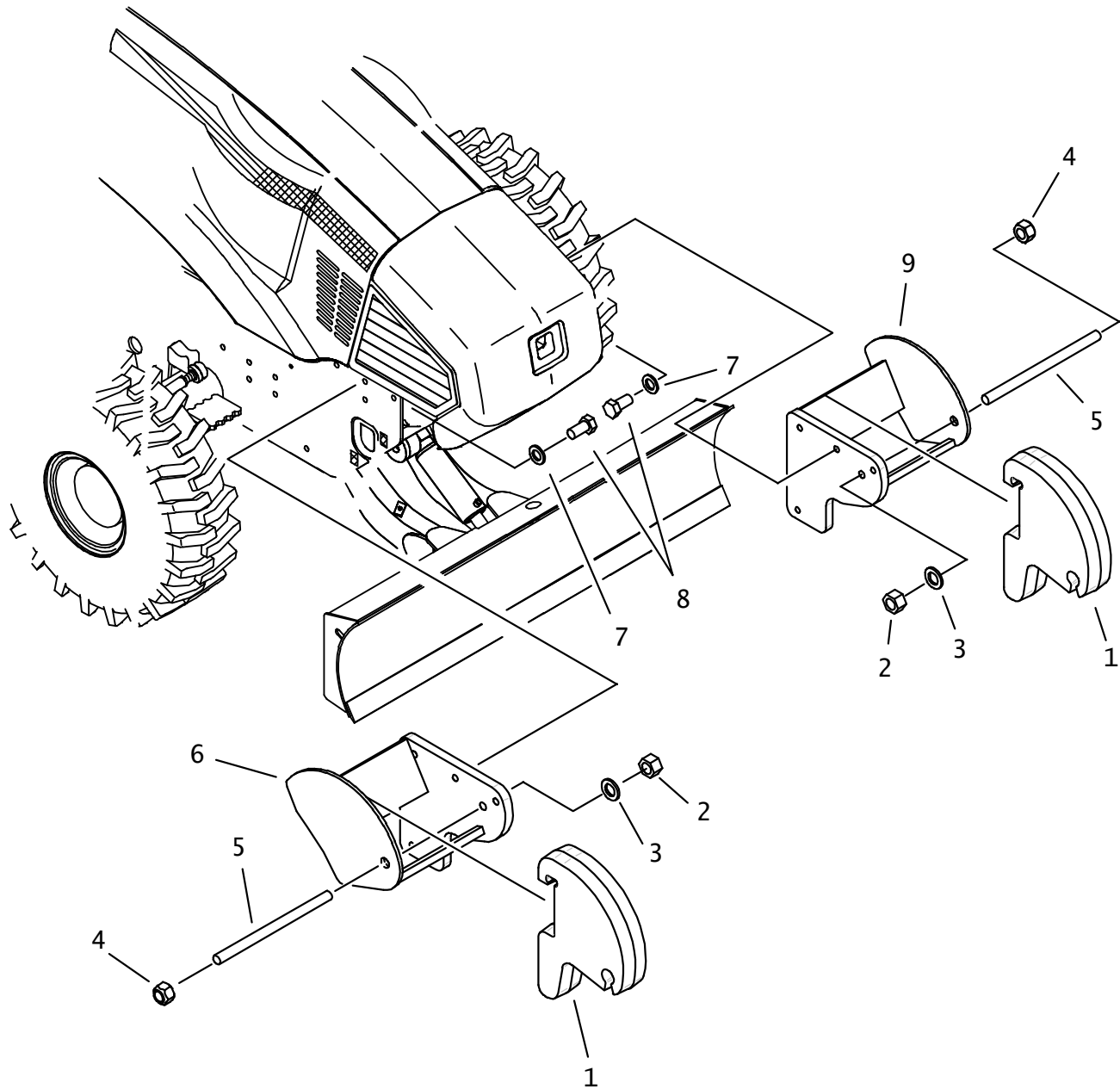
NOT SHOWN:

273-292 1 FRAME NOSE CASTING WEIGHT  
273-246 1 RIGID LOGO PLACARD

FOOTNOTES:

NOTE:

## FRONT COUNTERWEIGHT



## FRONT COUNTERWEIGHT

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	100-863	-	COUNTERWEIGHT KIT	INCLUDES REF. NO'S 1-9
1.	375-369	8	WEIGHT CASTING	
2.	106-352	2	NUT (M24-3.00)	USED ONLY WITH 3 WEIGHTS OR LESS
3.	106-488	2	WASHER (M24, HARDENED)	USED ONLY WITH 3 WEIGHTS OR LESS
4.	106-587	2	LOCKNUT (M24-3.0, PRV TRQ, 10.9)	
5.	179-605	2	ALL THREAD ROD (M24 X 15.00)	
6.	319-948	1	RIGHT WEIGHT RACK	
7.	106-399	8	WASHER (M20, HARDENED)	
8.	106-611	8	SCREW (M20-2.50 X 40MM, 10.9)	
9.	319-947	1	LEFT WEIGHT RACK	

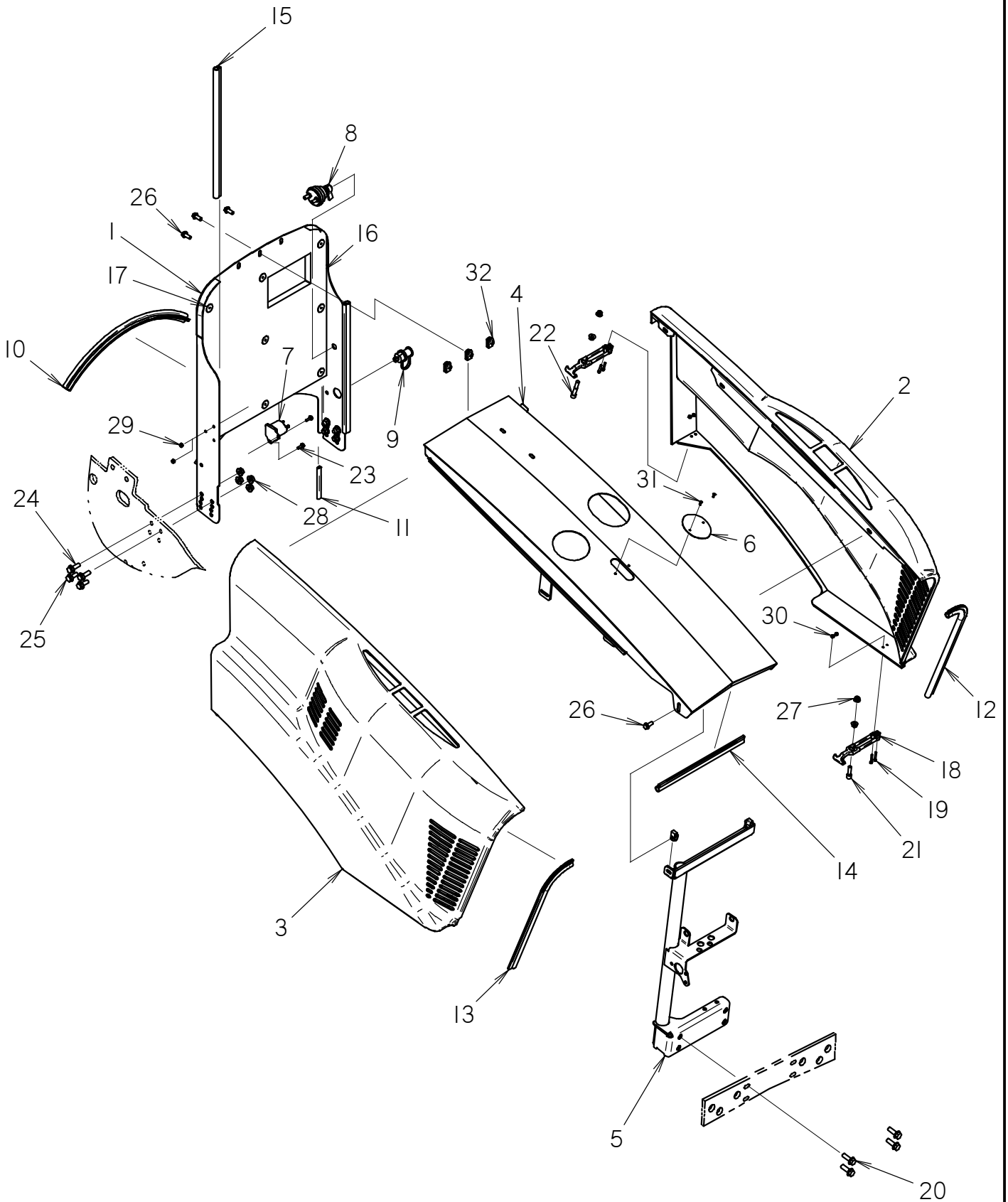
NOT SHOWN:

FOOTNOTES:

NOTE:



# ENGINE ENCLOSURE RT95/RT115 T3



# ENGINE ENCLOSURE

## RT95/RT115 T3

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	310-716	1	FIREWALL	
2	362-1095	1	LEFT SIDE PANEL ASSEMBLY	
3	362-1096	1	RIGHT SIDE PANEL ASSEMBLY	
4	300-4468	1	MID HOOD	
5	300-4451	1	FRONT HOOD SUPPORT	
6	325-791	1	HOOD CAP	
7	214-979	1	PREHEATER SOLENOID (12V)	
8	217-819	1	BATTERY DISCONNECT SWITCH	INCLUDES HARDWARE
9	211-087	1	BATTERY JUMPER TERMINAL (RED)	
10	116-421	26	BULK EDGE (1/8", SOLD PER FT)	USE 1 @ 26"
11	115-686	10	BULK EDGE (5/32",SOLD PER 1")	USE 2 @ 10"
12	117-344	25	BULK EDGE (3/16", SOLD PER FT)	USE 1 @ 25"
13	117-344	25	BULK EDGE (3/16", SOLD PER FT)	USE 1 @ 25"
14	117-344	16	BULK EDGE (3/16", SOLD PER FT)	USE 1 @ 16"
15	116-489	42	BULK EDGE (1/8",SOLD PER FT)	USE 2 @ 42"
16	117-341	1	SOUND INSULATION	
17	111-043	7	INSULATION STUD	
18	110-681	4	DRAW LATCH	
19	106-408	5	BOLT (#10-24 X 1-1/4",SOC,GD8)	
20	105-831	4	FLG LK BOLT (1/2-NC X 1-1/2")	
21	106-081	2	SCREW (M10-1.50 X 35MM, SOC)	
22	106-725	1	SCREW (M10-1.50 X 65MM, SOC)	
23	106-379	2	FLG LK SCREW (M6-1.00 X 20MM)	
24	106-632	4	FLG LK SCR (M12-1.75X35MM,SER)	
25	106-469	4	FLG SCREW (M12-1.75 X 30MM)	
26	106-724	4	FLG SCREW (M10-1.50 X 25MM)	
27	106-387	6	FLG LOCKNUT (M10-1.50)	
28	106-709	8	FLG LK NUT (M12-1.75)	
29	106-538	2	LOCKNUT (M6-1.00,PRV TRQ,10.9)	
30	106-048	5	LOCKNUT (#10-24)	
31	108-173	2	POP RIVET (5/32 X .525)	
32	106-558	5	CLIP NUT (M10-1.50)	

## NOT SHOWN:

191-227

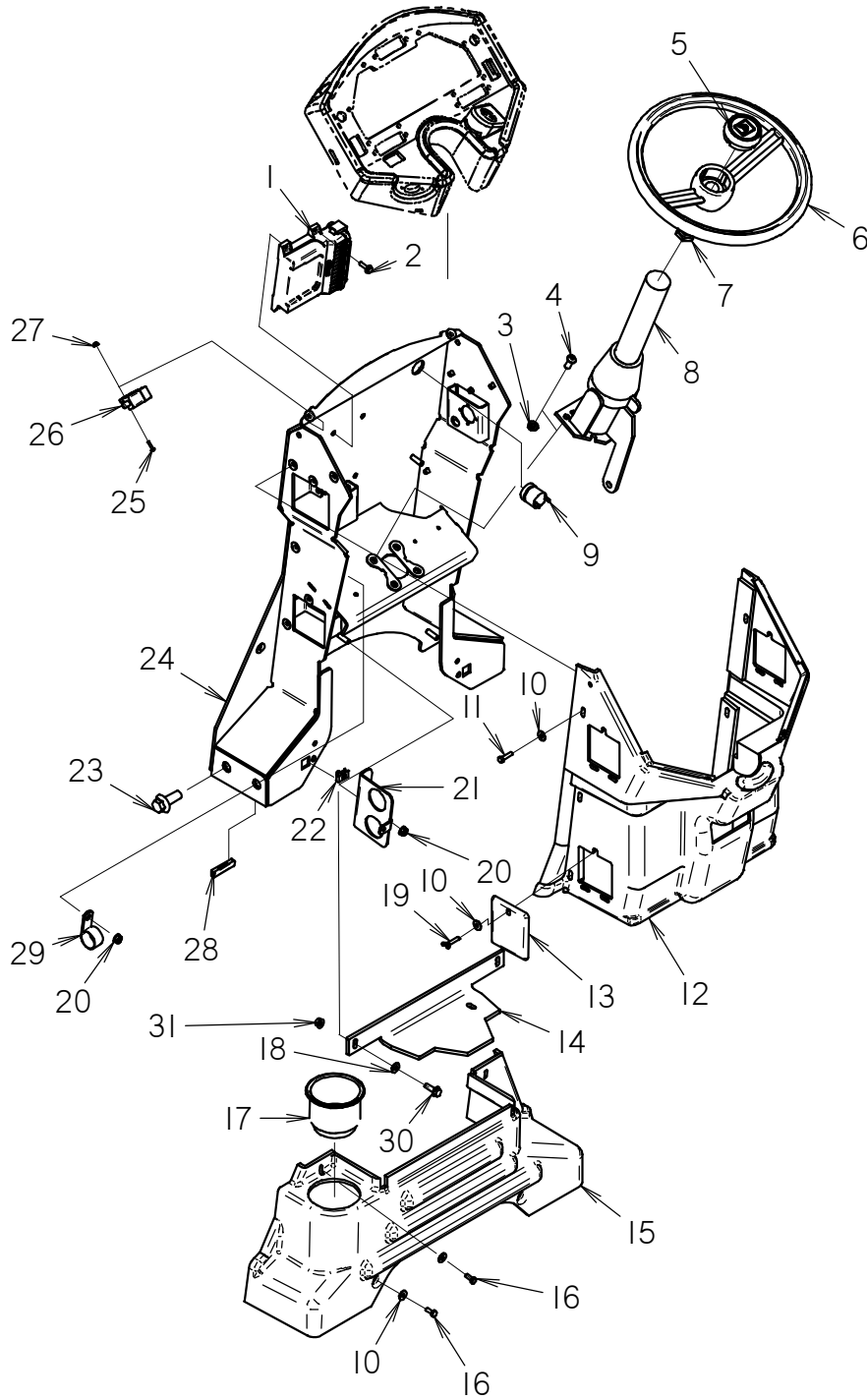
SIDE PANEL LOCK KIT

INCLUDES REF #s 23, 24, &amp; 25

## FOOTNOTES:

## NOTE:

# CONSOLE RT115 QUAD



# CONSOLE RT115 QUAD

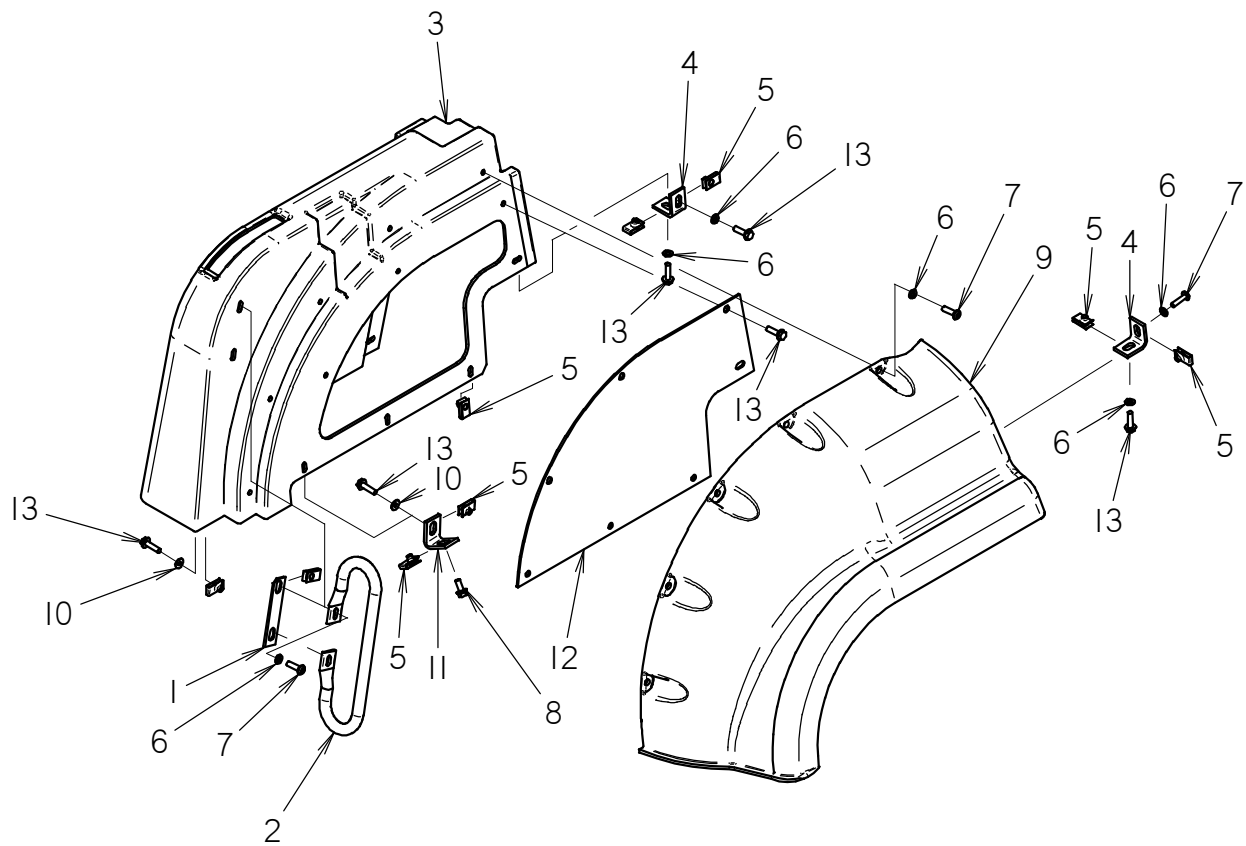
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	220-1241	1	30-PIN CONTROLLER V3	BEGINS WITH S/N: CMWRT115QCA0000074
2	106-379	4	FLG LK SCREW (M6-1.00 X 20MM)	
3	105-834	4	FLG LOCKNUT (3/8-NC)	
4	107-864	4	BOLT (3/8-NC X 1.00", BUT SOC)	
5	110-730	1	STEERING WHEEL CAP	
6	160-428	1	STEERING WHEEL	
7	105-361	1	JAM NUT (13/16-NF)	
8	306-433	1	TILT COLUMN	
9	306-603	1	AUDIO ALARM	
10	107-801	15	WASHER (M6)	
11	105-1550	6	SCREW (M6-1.00 X 25MM)	
12	300-3709	1	CONSOLE CENTER SECTION	
13	318-560	3	ACCESS DOOR	
14	314-487	1	BRACE	
15	318-557	1	CONSOLE BASE	
16	105-1552	4	SCREW (M6-1.00 X 16MM)	
17	308-888	1	CUP HOLDER	
18	105-095	2	WASHER (1/4")	
19	107-800	3	WING SCREW (M6-1 X 25MM)	
20	105-003	2	FLG LOCKNUT (5/16-NC)	
21	319-737	1	DEUTSCH BULKHEAD MOUNT	
22	106-574	2	CLIP NUT (M6-1.00)	
23	106-470	4	FLG SCREW (M6-2.0 X 40MM)	
24	300-4462	1	PEDESTAL	
25	107-580	2	SCREW (M4-0.70 X 16MM,BUT SOC)	
26	217-704	1	PLUNGER SWITCH	
27	105-680	2	NUT (M4, W/LK WSHR)	
28	115-686	18	BULK EDGE (5/32",SOLD PER 1")	ATTACHES TO FRONT PLATE OF PEDESTAL WELDMENT
29	110-856	1	BOLT-ON CLAMP (1-5/8")	
30	106-381	2	FLG LK SCREW (M8-1.25 X 25MM)	
31	106-386	2	FLG LOCKNUT (M8-1.25)	

NOT SHOWN:

FOOTNOTES:

NOTE:

# LEFT FENDER RT115 QUAD



# LEFT FENDER

## RT115 QUAD

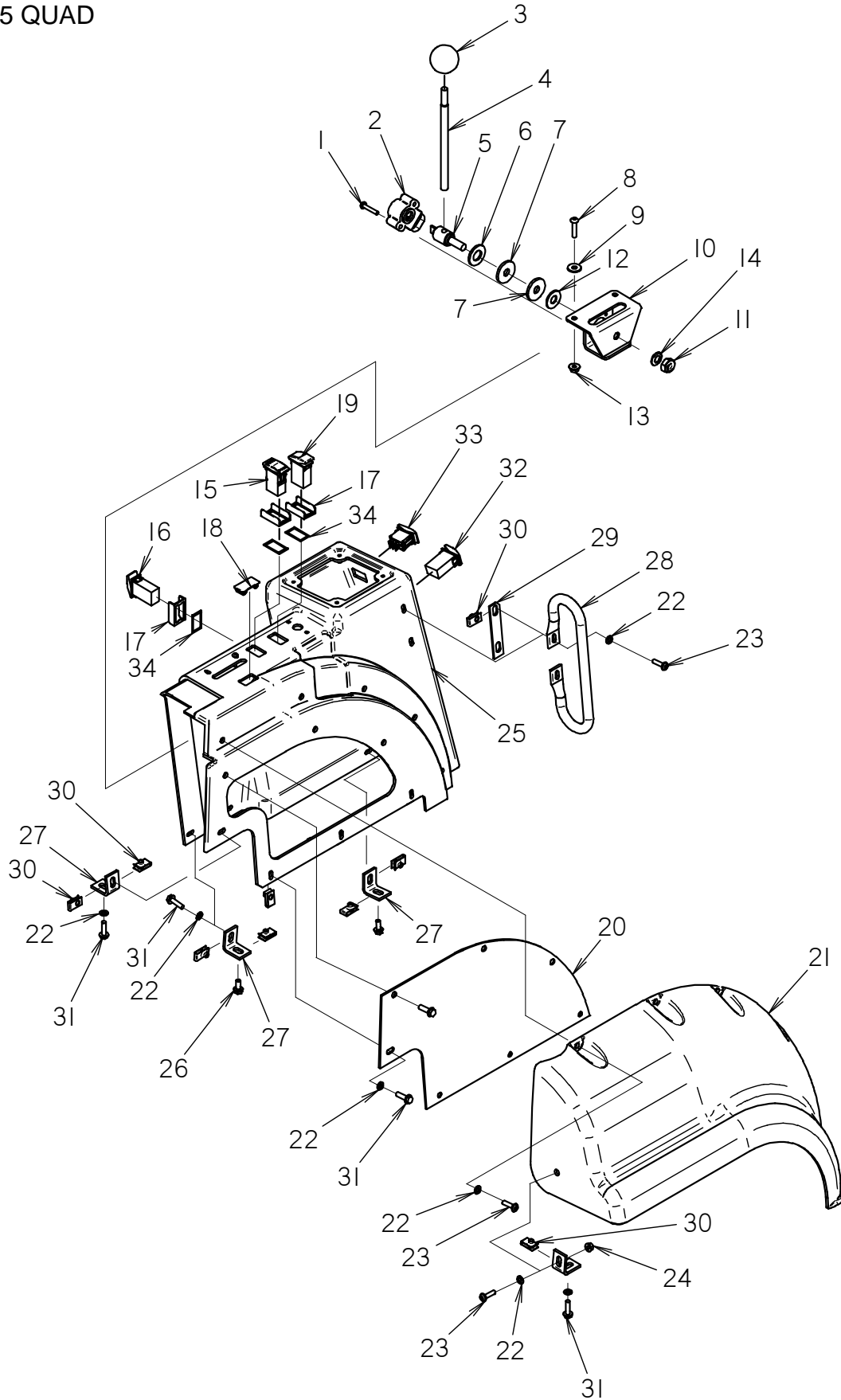
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	309-816	1	STRAP	
2	117-360	1	GRAB HANDLE	
3	306-491	1	LEFT FENDER	
4	309-434	2	TAB	
5	107-135	12	CLIP NUT (M8-1.25)	
6	107-629	11	WASHER (M8)	
7	107-778	8	SCREW (M8-1.25 X 30MM,BUT SOC)	
8	106-162	1	FLG SCREW (M8-1.25 X 20MM, GD8)	
9	362-1456	1	LEFT OUTSIDE FENDER	
10	107-801	2	WASHER (M6)	
11	306-795	1	TAB	
12	308-897	1	PANEL	
13	106-163	11	FLG SCREW (M8-1.25 X 30MM)	

NOT SHOWN:

FOOTNOTES:

NOTE:

# RIGHT FENDER RT115 QUAD



# RIGHT FENDER

## RT115 QUAD

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	105-815	2	BOLT (#10-24 UNC X 1" PAN SLT)	
2	217-304	1	NON-CONTACTING ROTARY POSITION SENSOR	
3	110-590	1	KNOB (3/8-NC, ORANGE)	
4	117-342	1	ROD	
5	179-554	1	THROTTLE PIVOT PIN	
6	106-598	1	WASHER (9/16" HARDENED)	
7	107-529	2	WASHER UHMW (3/8)	
8	107-312	2	SCREW (M6-1.00 X 25MM, BUT SOC)	
9	107-801	2	WASHER (M6)	
10	319-498	1	THROTTLE BRACKET	
11	105-287	1	LOCKNUT (3/8 NC)	
12	105-118	1	WASHER (3/8")	
13	106-385	2	FLG LOCKNUT (M6-1.00)	
14	105-805	1	WASHER BELLEVILLE (3/8)	
15	217-764	1	ROCKER SWITCH (SPDT)	
16	215-1666	1	ROCKER SWITCH ON-OFF w/ LED	
17	110-854	5	SWITCH ACTUATOR GUARD	
18	362-823	1	COVER	
19	215-1590	1	ROCKER SWITCH (DPDT) ON-ON-ON	
20	308-897	1	PANEL	
21	362-1457	1	RIGHT OUTSIDE FENDER	
22	107-629	13	WASHER (M8)	
23	107-778	8	SCREW (M8-1.25 X 30MM,BUT SOC)	
24	106-386	1	FLG LOCKNUT (M8-1.25)	
25	306-490	1	RIGHT FENDER	
26	106-162	2	FLG SCREW (M8-1.25 X 20MM, GD8)	
27	309-434	4	TAB	
28	117-360	1	GRAB HANDLE	
29	309-816	1	STRAP	
30	107-135	12	CLIP NUT (M8-1.25)	
31	106-163	11	FLG SCREW (M8-1.25 X 30MM)	
32	217-072	1	ROCKER SWITCH	
33	217-817	1	ROCKER SWITCH (SEALED)	
34	165-817	5	SWITCH GASKET	

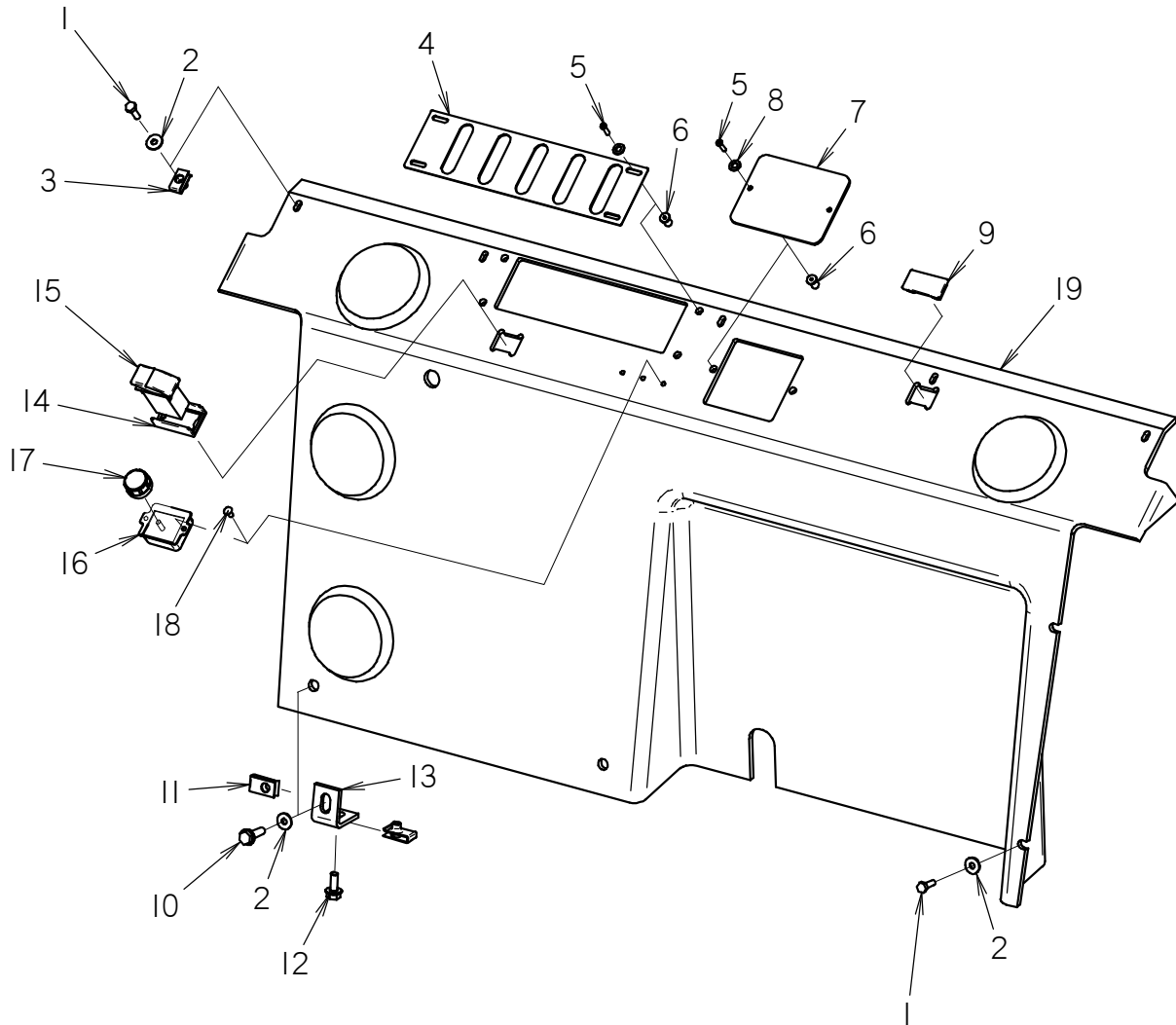
NOT SHOWN:

FOOTNOTES:

NOTE:



# BACK PANEL RT115 QUAD



# BACK PANEL

## RT115 QUAD

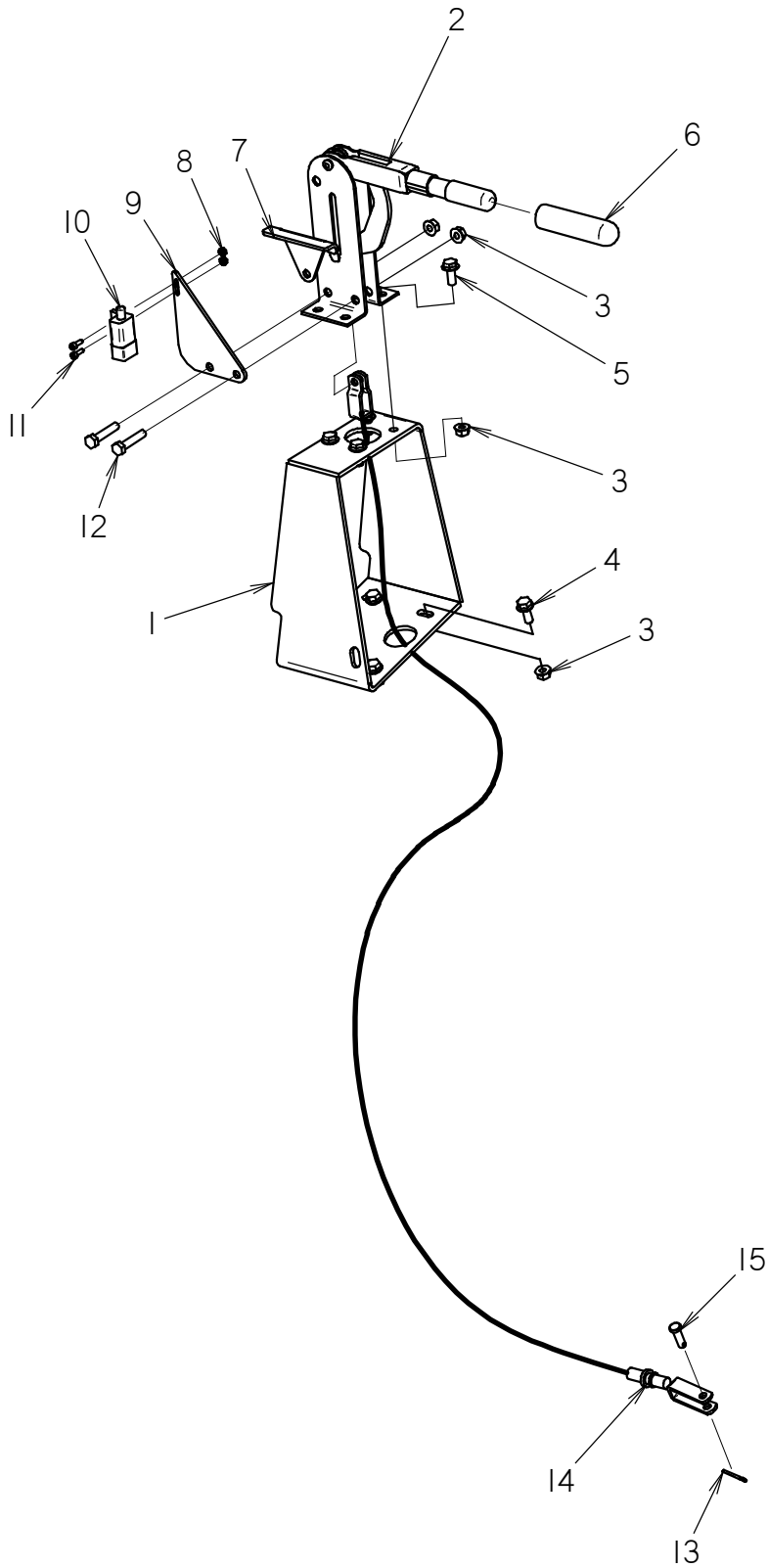
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	105-1549	7	SCREW (M6-1.00 X 20MM)	
2	107-801	9	WASHER (M6)	
3	106-574	5	CLIP NUT (M6-1.00)	
4	307-644	1	COVER	
5	107-580	6	SCREW (M4-0.70 X 16MM,BUT SOC)	
6	107-358	6	WELLNUT (M4-0.7 X 12.67MM LG)	
7	322-871	1	TDM COVER	
8	107-744	6	WASHER (M6)	
9	362-823	1	COVER	
10	106-163	2	FLG SCREW (M8-1.25 X 30MM)	
11	107-135	4	CLIP NUT (M8-1.25)	
12	106-162	2	FLG SCREW (M8-1.25 X 20MM, GD8)	
13	309-434	2	TAB	
14	110-854	1	SWITCH ACTUATOR GUARD	
15	217-789	1	ROCKER SWITCH	
16	217-892	1	POTENTIOMETER - AUTOCROWD	
17	110-641	1	KNOB (1/8", BLK)	
18	110-560	2	POP RIVET (3/16" X 1/2", ALUM)	
19	362-1234	1	REAR PANEL W/O AC DUCT	

NOT SHOWN:

FOOTNOTES:

NOTE:

# PARKING BRAKE RT115 QUAD



# PARKING BRAKE

## RT115 QUAD

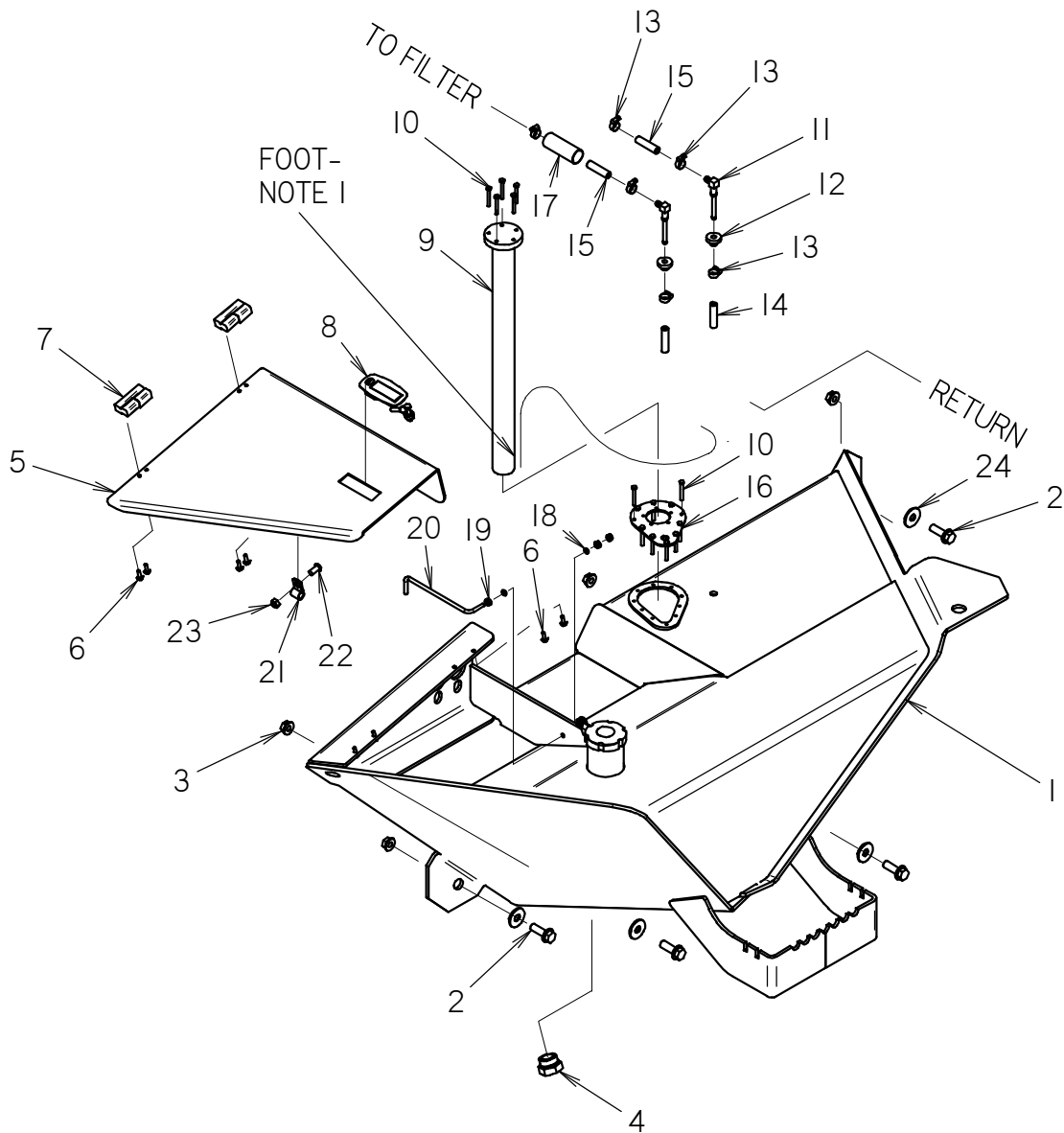
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	309-383	1	PARK BRAKE BRACKET	
2	160-744	1	PARKING BRAKE LEVER	
3	106-386	10	FLG LOCKNUT (M8-1.25)	
4	106-162	4	FLG SCREW (M8-1.25 X 20MM, GD8)	
5	106-991	4	FLG LK SCREW (M8-1.25 X 20MM)	
6	110-469	1	GRIP (7/8", ORANGE)	
7	309-413	1	ACTUATOR BRACKET	
8	105-680	2	NUT (M4, W/LK WSHR)	MOUNTS TO 160-744 USING PIN THAT IS PART OF THE LEVER
9	309-412	1	SWITCH BRACKET	
10	217-705	1	PLUNGER SWITCH	
11	106-715	2	SCREW (M4-0.70 X 12MM, SOC)	
12	106-328	2	SCREW (M8-1.25 X 40MM)	
13	105-508	1	COTTER PIN (3/32" X 1")	
14	194-184	1	BRAKE CABLE	MOUNTS TO 160-744 USING PIN THAT IS PART OF THE LEVER
15	110-150	1	CLEVIS PIN (5/16" X 1")	

NOT SHOWN:

FOOTNOTES:

NOTE:

# FUEL TANK RT115 QUAD TRACK



# FUEL TANK

## RT115 QUAD TRACK

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	300-9663	1	FUEL TANK	
2	105-831	4	FLG LK BOLT (1/2-NC X 1-1/2")	USE LOCTITE 242 OR EQUIVALENT
3	106-198	4	FLG LOCKNUT (1/2-NC, GD8)	
4	152-150	1	PLUG, MAGNETIC (1-16S)	
5	300-9737	1	LEFT COVER	
6	105-1221	8	FLG SCREW (M5-.80 X 16MM, THD FRM)	USE LOCTITE 242 OR EQUIVALENT
7	111-002	2	LIFT-OFF HINGE (OFF-SET)	
8	117-558	1	LATCH, ADJUST LEVER (LOCKING)	
9	215-1368	1	FUEL SENDER (3 WIRE)	
10	107-786	15	SCREW(#10-32 X 1-1/2") HEX	
11	156-269	2	S/O COUPLER (04H-05H90)	
12	116-325	2	GROMMET (362")	
13	110-249	6	WORM CLAMP (1/4" TO 5/8")	
14	115-381	44	BULK HOSE (1/4", SOLD PER 1")	USE 1 @ 20" & USE 1 @ 24", SEE FOOTNOTE 1
15	116-108	116	BULK HOSE (5/16", SOLD PER 1")	USE 1 @ 51" & 1 @ 65"
16	301-0191	1	MOUNTING PLATE	APPLY SMALL BEAD OF SEALER
17	117-671	1	ABRASION SLEEVE (1" X 12")	
18	106-701	2	WASHER, FLAT, 1/4 ID, NYLON	
19	105-078	3	NUT (1/4-NC)	
20	301-0786	1	PROP ROD	
21	110-126	1	BOLT-ON CLAMP (1/2")	
22	106-029	1	BOLT (3/8-NC X 3/4", BUT SOC)	
23	105-047	1	LOCKNUT (3/8-NC)	
24	105-884	4	WASHER (1/2")	

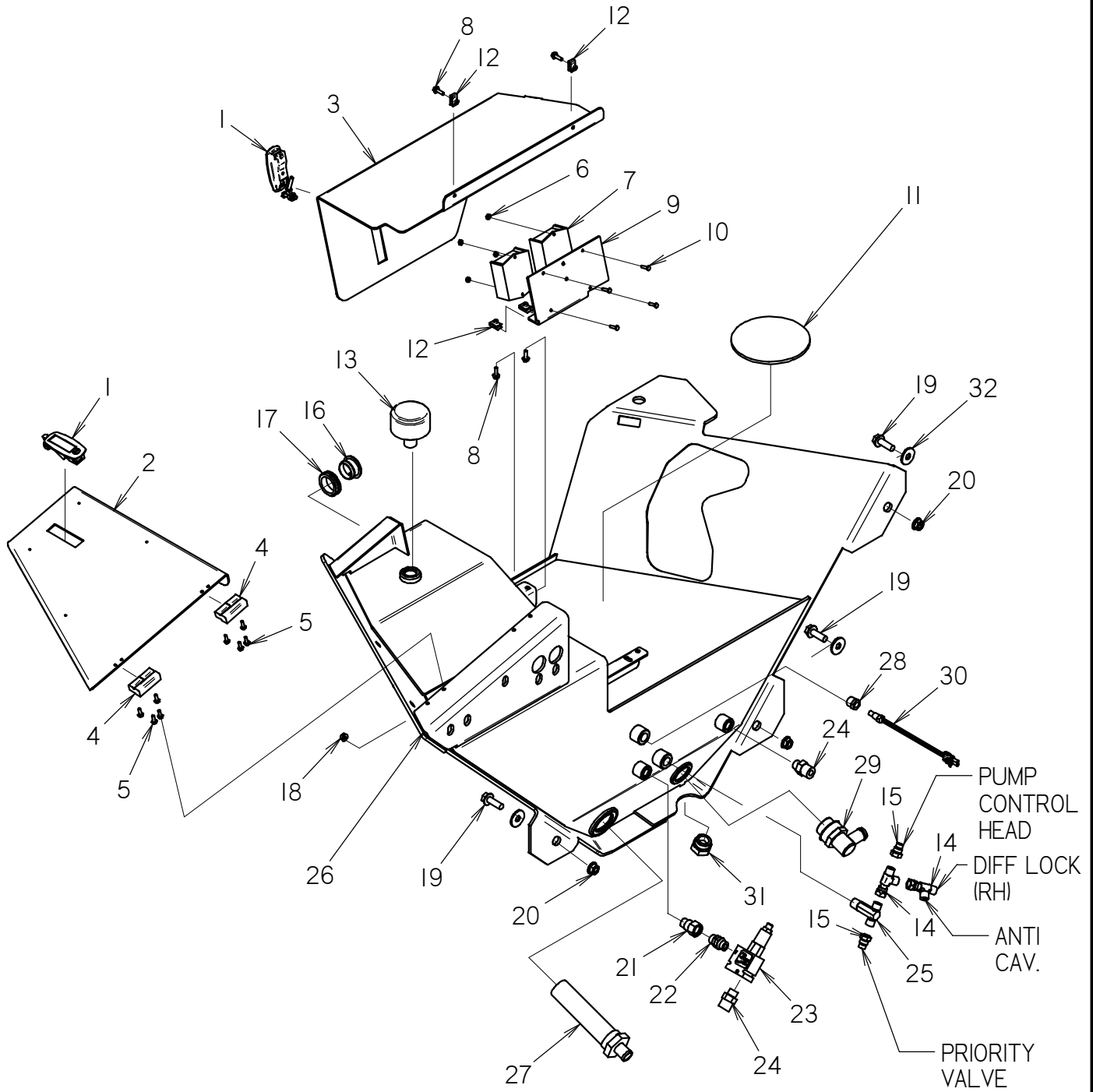
NOT SHOWN:

FOOTNOTES:

- I. ATTACH FUEL PICKUP HOSE TO THE SIDE OF THE FUEL SENDER TUBE USING A ZIP TIE TO SECURE TUBE.  
HOSE SHOULD BE FLUSH WITH BOTTOM OF SENDER TUBE.

NOTE:

# HYDRAULIC RESERVOIR RT115 QUAD



# HYDRAULIC RESERVOIR RT115 QUAD

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	117-558	2	LATCH, ADJUST LEVER (LOCKING)	
2	300-9736	1	RIGHT COVER	
3	300-9735	1	BATTERY COVER	
4	105-617	2	LIFT-OFF HINGE (OFF-SET)	
5	105-1221	8	FLG SCREW (M5-.80 X 16MM, THD FRM)	USE LOCTITE 242 OR EQUIVALENT
6	106-048	4	LOCKNUT (#10-24)	
7	220-1158	2	12-PIN CONTROLLER	
8	106-161	4	FLG SCREW (M6-1.00 X 20MM)	
9	301-0248	1	CONTROLLER MOUNT	
10	106-506	4	BOLT (#10-24 X 3/4")	
11	117-463	AR	LINER PAD (.25" THK)	
12	106-574	4	CLIP NUT (M6-1.00)	
13	150-2337	1	BREATHER -12SAE	
14	154-344	2	UN RUN TEE (060FX-060-060)	USE LOCTITE 242 OR EQUIVALENT
15	154-373	2	REDUCER (040-060F)	
16	116-218	1	SIGHT GLASS (2")	
17	105-1392	1	GROMMET (1 1/2) .188 THK.	
18	105-003	1	FLG LOCKNUT (5/16-NC)	
19	105-831	3	FLG LK BOLT (1/2-NC X 1-1/2")	USE LOCTITE 242 OR EQUIVALENT
20	105-833	3	FLG LOCKNUT (1/2-NC)	
21	153-995	1	CONNECTOR (08S-08SF)	
22	154-466	1	CONNECTOR (08S-08S)	
23	158-681	1	RELIEF VALVE (AUXILIARY)	
24	154-391	2	CONNECTOR (08S-100)	
25	159-643	1	BRANCH TEE (08N-060-060)	
26	300-9657	1	HYDRAULIC RESERVOIR	
27	150-2925	1	TANK STRAINER (100MESH -16HB)	
28	115-286	1	REDUCER (08N-1/4-NF)	
29	153-142	1	S/O COUPLER (20S-16H90)	
30	214-854	1	TEMPERATURE SWITCH(1/4NPT,MALE)	
31	152-150	1	PLUG, MAGNETIC (1-16S)	
32	105-884	3	WASHER (1/2")	

NOT SHOWN:

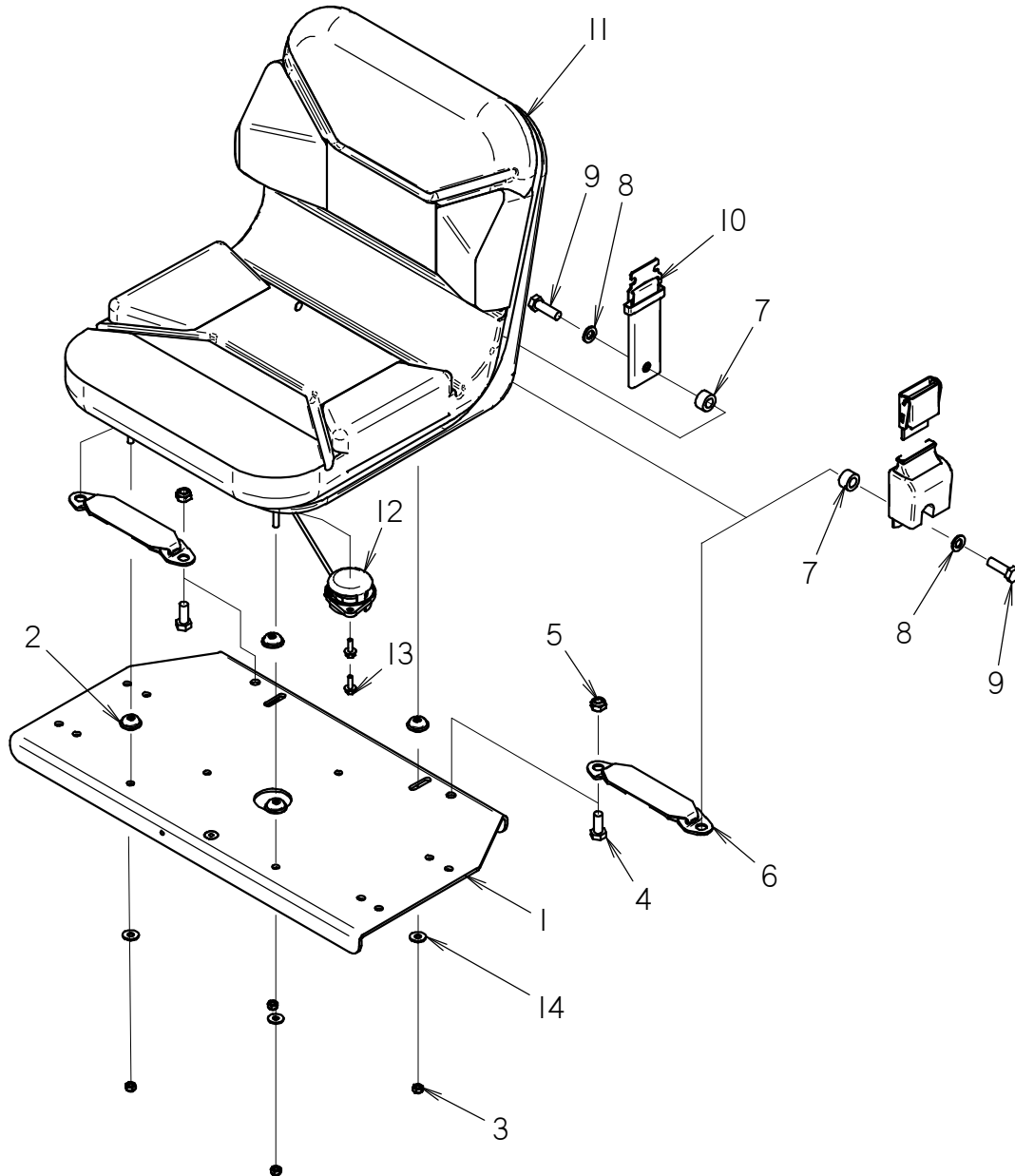
FOOTNOTES:

**NOTE:**

1. USE THE FOLLOWING PLUGS TO CLOSE OFF TANK DURING MAINT: 2X 154-381 -8 SAE, 2X 115-165 1/2 NPT, 1X 155-144 -20 SAE, 1X 155-177 -24 SAE, 1X 152-150 -16S & 1X 159-392 -12 SAE.
2. REFER TO O-RING CHART (800-301) IN BACK OF BOOK FOR REPLACEMENT OF O-RINGS.
3. USE LOCTITE 242 ON ALL LATCH AND HINGE HARDWARE.



# SEAT RT115 QUAD TRACK



# SEAT

## RT115 QUAD TRACK

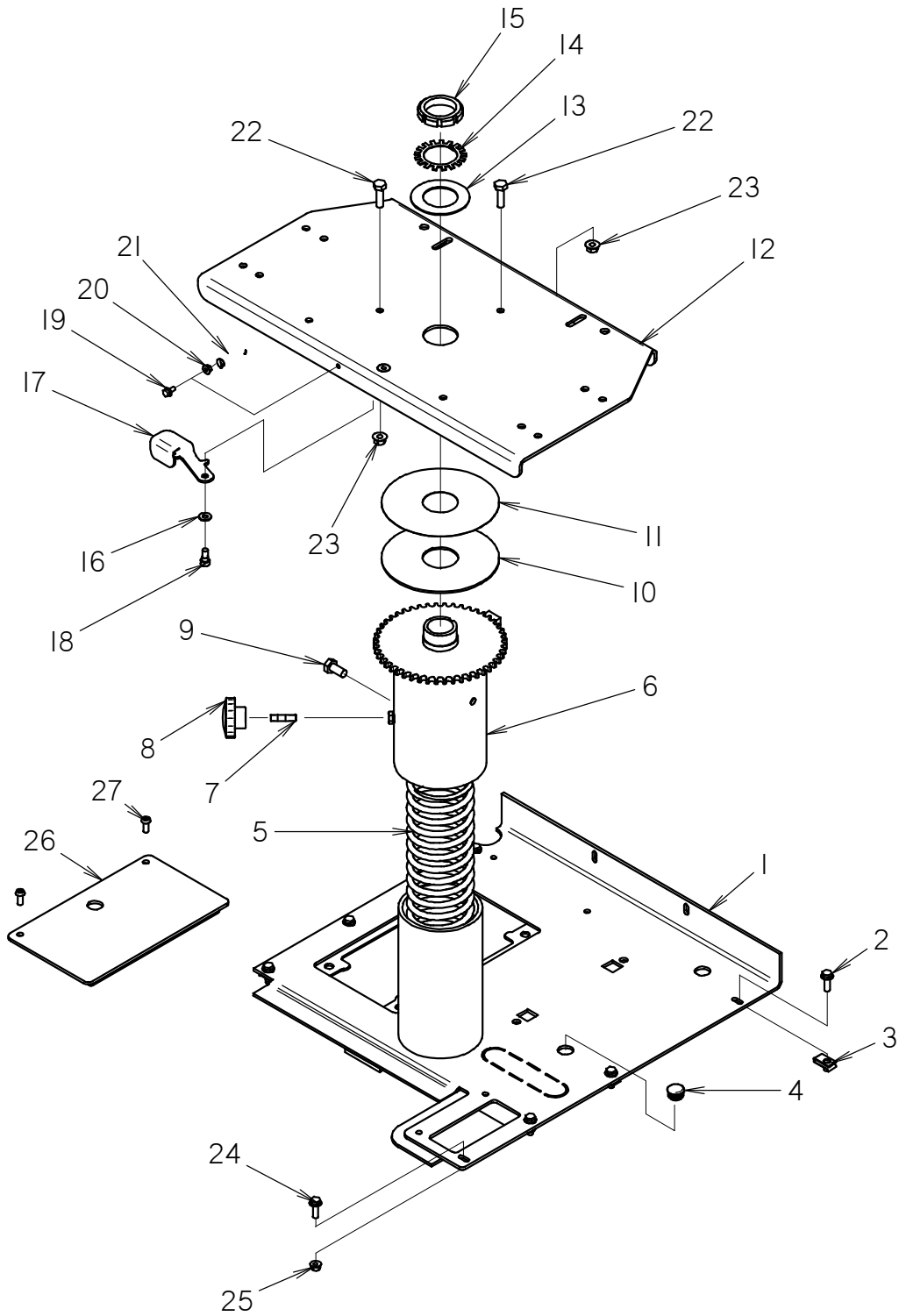
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	300-9745	1	SEAT DECK	
2	105-267	4	CUP WASHER (5/16")	
3	105-089	4	LOCKNUT (5/16-NC)	
4	105-273	2	SCREW (M12-1.75 X 30MM)	
5	106-031	2	LOCKNUT (M12-1.75, NLK)	
6	115-430	2	SEAT BELT TETHER	
7	184-252	2	BUSHING (.562" X 1" X .590")	
8	106-391	2	WASHER (M12)	
9	106-333	2	SCREW (M12-1.75 X 40MM, 8.8)	
10	117-924	1	SEAT BELT SET W/5.75" TONGUE	
11	117-429	1	SEAT	
12	215-1107	1	SEAT SWITCH	
13	106-168	2	FLG LK BOLT (1/4-NC X 3/4")	
14	105-117	3	WASHER (5/16")	

NOT SHOWN:

FOOTNOTES:

NOTE:

# SEAT SWIVEL RT115 QUAD TRACK



# SEAT SWIVEL

## RT115 QUAD TRACK

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	300-8537	1	SEAT BASE	
2	106-992	5	FLG LK SCREW (M8-1.25 X 25MM)	
3	107-135	5	CLIP NUT (M8-1.25)	
4	110-178	1	PLUG (7/8")	
5	117-816	1	COMPRESSION SPRING	
6	308-879	1	SEAT SWIVEL	
7	106-121	1	STUD BOLT (3/8-NC X 1-1/2")	
8	110-383	1	KNOB (3/8-NC, BLACK)	
9	106-559	1	SCREW (M12-1.75 X 25MM)	
10	117-301	1	SWIVEL DISK	
11	179-382	1	SHIM	
12	300-9745	1	SEAT DECK	
13	106-522	1	THRUST WASHER	
14	107-606	1	TANG WASHER	
15	107-528	1	SLOTTED NUT	
16	105-095	1	WASHER (1/4")	
17	308-895	1	LEVER	
18	107-582	1	SHLD BOLT (3/8" X 1/4", 5/16-NC)	
19	106-986	1	FLG LK SCREW (M6-1.00 X 12MM)	
20	106-385	1	FLG LOCKNUT (M6-1.00)	
21	115-645	1	COMPRESSION SPRING	
22	105-876	2	SCREW (M10-1.50 X 35MM)	
23	106-387	2	FLG LOCKNUT (M10-1.50)	
24	106-381	2	FLG LK SCREW (M8-1.25 X 25MM)	
25	106-386	2	FLG LOCKNUT (M8-1.25)	
26	300-8446	1	ACCESS PANEL	
27	106-264	2	BOLT (5/16-NC X 3/4", BUT SOC)	

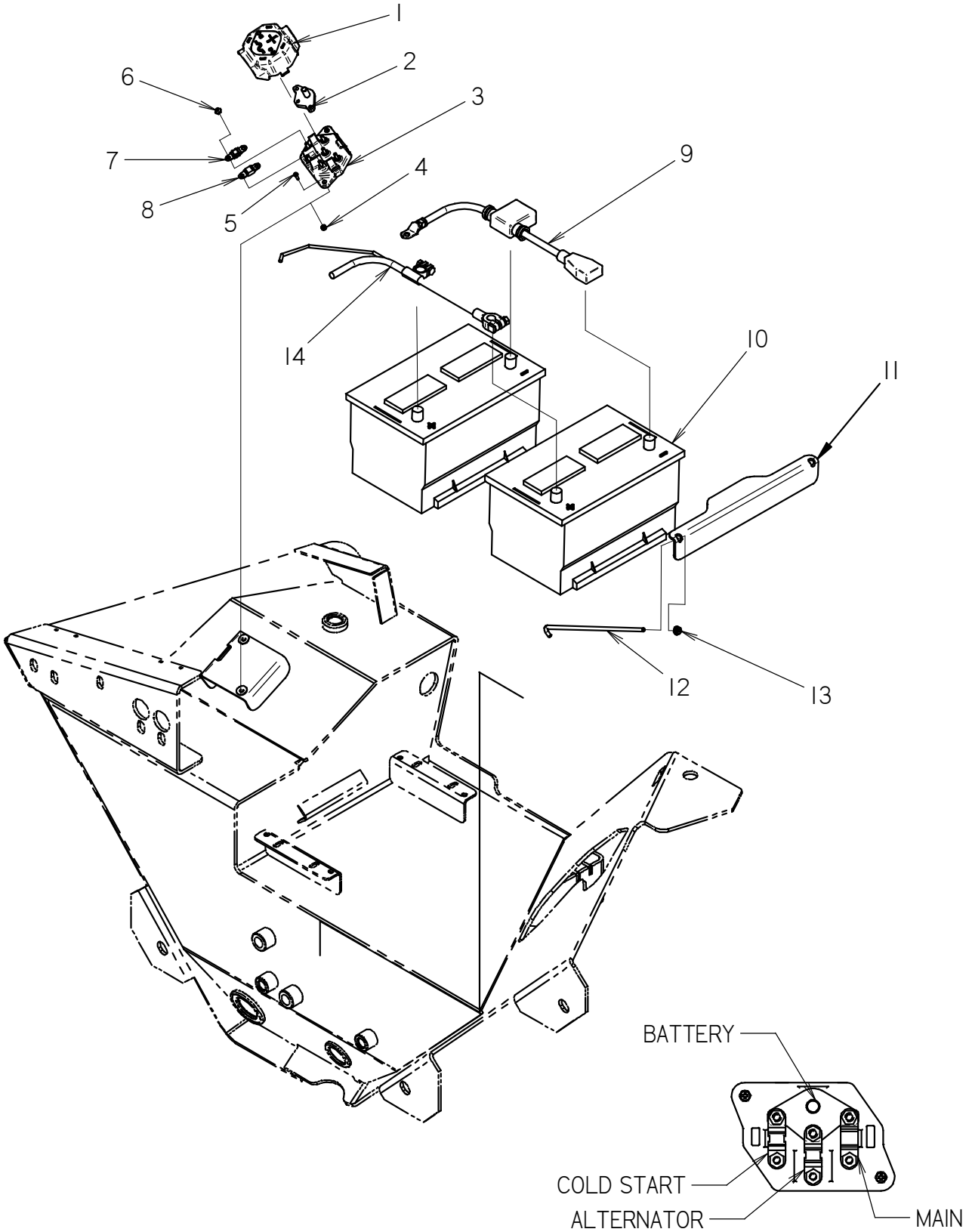
NOT SHOWN:

FOOTNOTES:

NOTE:

# BATTERY INSTALLATION

## RT115 QUAD



# BATTERY INSTALLATION

## RT115 QUAD

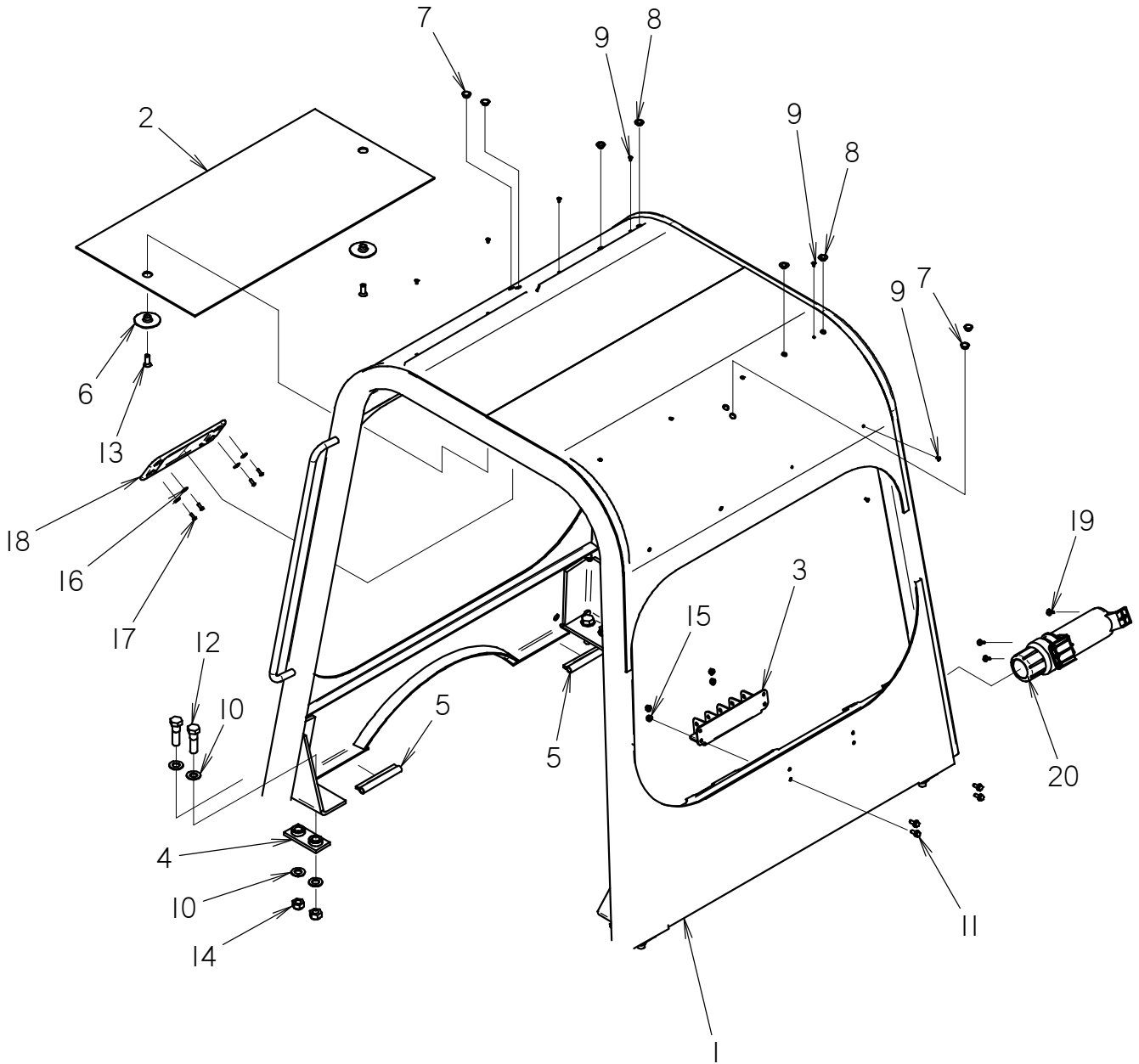
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	215-1010	1	MAIN FUSE HOLDER COVER	
2	215-1011	1	BUSSBAR (MAIN FUSE HOLDER)	
3	215-1009	1	MAIN FUSE HOLDER BASE	
4	107-859	2	NUT, LOCK, #6-32, NYLON INSERT	
5	106-367	2	SCREW (#6-32 X 1/2" PLPS SS)	
6	106-048	6	LOCKNUT (#10-24)	
7	211-305	2	BK/AMI 125 AMP FUSE	
8	211-311	1	BK/AMI 100 AMP FUSE	
9	213-017	1	NEG BATTERY CABLE RT115 T2	
10	213-104	2	BATTERY (12V, 875CCA)	
11	300-9738	1	BATTERY HOLD DOWN	
12	337-001	2	BATTERY BOLT	
13	105-832	2	FLG LOCKNUT (1/4-NC)	
14	213-015	1	POS BATTERY CABLE RT115 TR2	

NOT SHOWN:

FOOTNOTES:

NOTE:

# ROPS RT115 QUAD TRACK



# ROPS

## RT115 QUAD TRACK

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	327-817	1	ROPS	
2	118-300	1	HEADLINER	
3	324-396	1	BRACKET	
4	350-2550	4	BACKUP PLATE ASSEMBLY	
5	116-421	12	BULK EDGE (1/8", SOLD PER FT)	SEE FOOTNOTE 1
6	115-038	2	RETAINER	
7	159-958	4	PLUG (3/4")	
8	159-936	4	PLUG (5/8")	
9	159-976	12	PLUG (1/4")	
10	106-393	16	WASHER (M20)	
11	106-162	4	FLG SCREW (M8-1.25 X 20MM, GD8)	
12	106-459	8	SCREW (M20-2.50 X 70MM, 10.9)	
13	195-611	2	BOLT (1/2-NC X 1-1/4",CSK SOC)	
14	106-665	8	LOCKNUT (M20-2.50, 10.9)	TORQUE NUT TO 250 FT-LBS
15	106-386	4	FLG LOCKNUT (M8-1.25)	
16	105-095	4	WASHER (1/4")	
17	107-193	4	SCREW (M6-1.00 X 16MM,BUT SOC)	
18	324-921	1	COVER, PLASTIC	
19	110-348	3	POP RIVET (3/16" X .664')	
20	250-063	1	MANUAL COMPARTMENT	

NOT SHOWN:

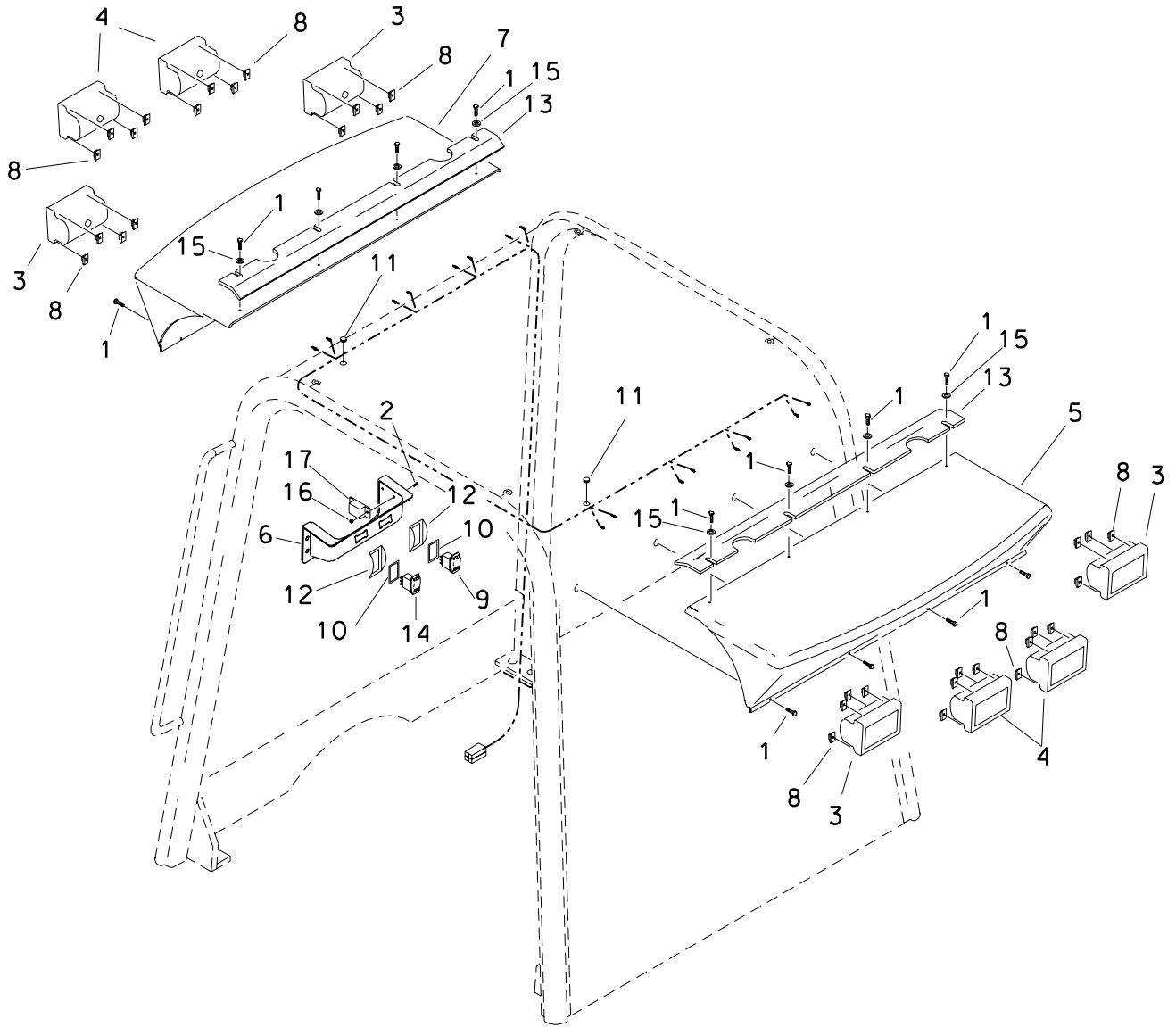
FOOTNOTES:

1. 12" REQUIRED, CUT INTO TWO 6" PIECES & PLACE WHERE INDICATED BY GRAPHICS.
2. THIS ROPS IS USED WHEN A 46" HYDRA-WHEEL IS MOUNTED.

NOTE:



# CANOPY AND LIGHT KIT



# CANOPY AND LIGHT KIT

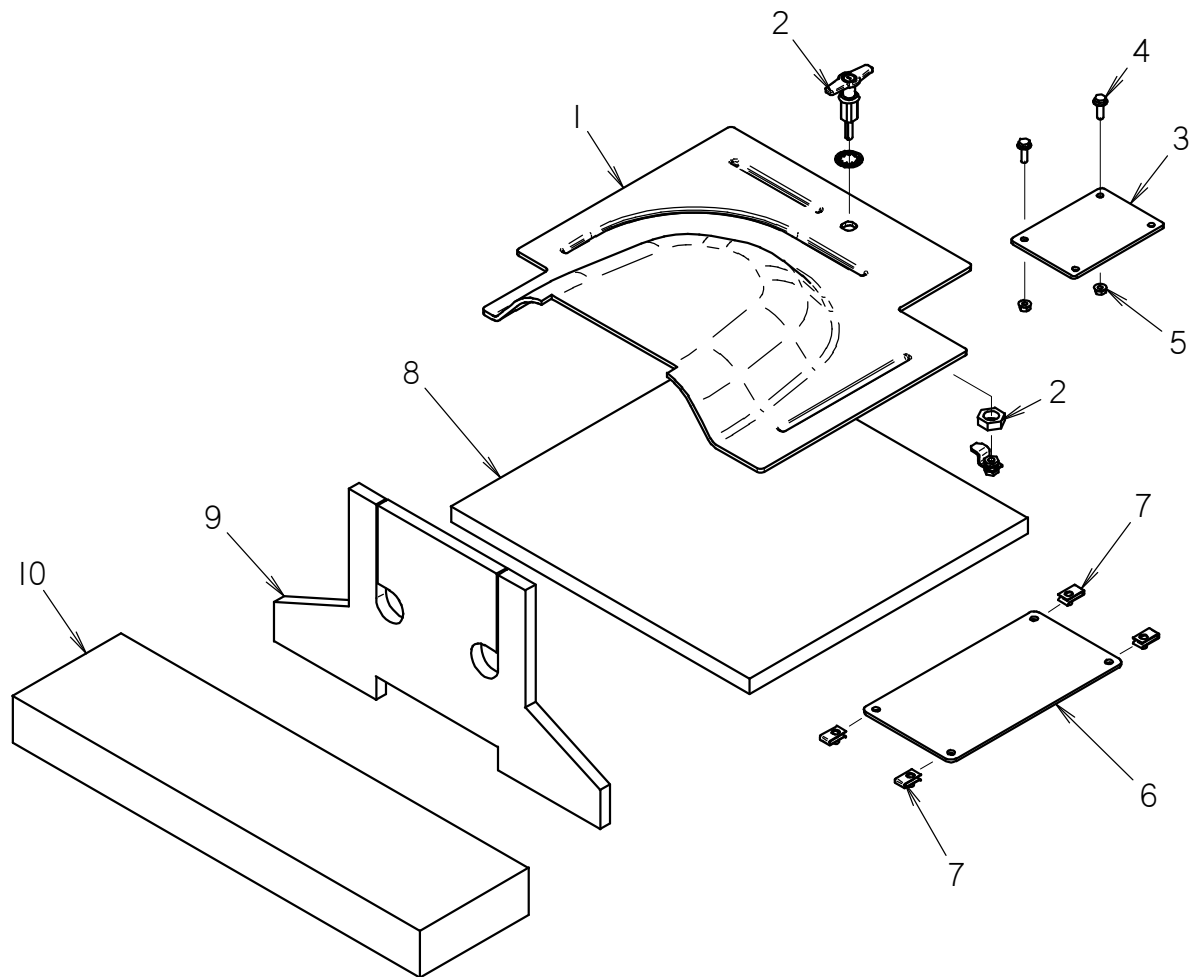
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	191-180		LIGHT KIT	INCLUDES REF #'S 1-17
1.	107-716	16	SCREW (1/4" - 14 x 7/8" SLF DRL)	
2.	105-185	2	BOLT (#10-24 X 1/2", RD SLT)	
3.	217-288	4	WORK LIGHT (100FO)	
4.	217-287	4	WARNING LIGHT	
5.	305-658	1	EYE-BROW CANOPY	
6.	308-894	1	OVERHEAD CONSOLE	
7.	310-113	1	FRONT EYE-BROW CANOPY	
8.	107-405	32	CLIP NUT (6-32)	
9.	217-762	1	ROCKER SWITCH (SPDT)	
10.	165-817	2	SWITCH GASKET	
11.	115-349	2	GROMMET (1/2")	DRILL 2-23/32" HOLES ON DIMPLES
12.	110-854	2	SWITCH ACTUATOR GUARD	
13.	318-661	2	STRAP	
14.	214-912	1	DPST ON-OFF ROCKER SWITCH	
15.	105-284	8	WASHER (3/16")	
16.	106-048	2	LOCKNUT (#10-24)	
17.	215-041	1	FLASHER	

NOT SHOWN:  
362-823 COVER

FOOTNOTES

# COVERS AND BLANKETS

## RT115QUAD



# COVERS AND BLANKETS

## RT115QUAD

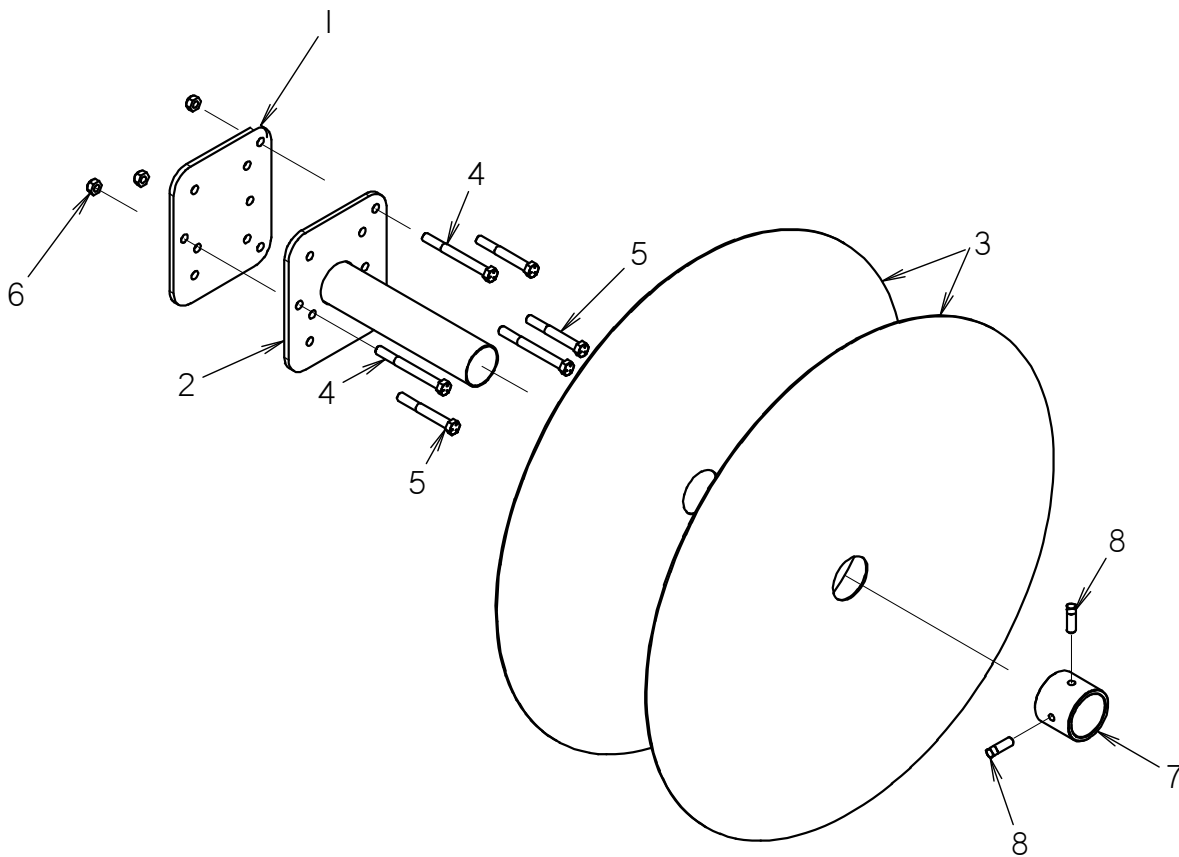
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	318-793	1	FLOOR PLATE	
2	107-461	1	LOCKING LATCH	
3	301-0166	1	COVER PLATE	
4	106-992	2	FLG LK SCREW (M8-1.25 X 25MM)	
5	106-386	2	FLG LOCKNUT (M8-1.25)	
6	309-847	1	FUEL SENDER COVER	
7	107-135	4	CLIP NUT (M8-1.25)	
8	117-832	1	SOUND BLANKET	
9	117-834	1	SOUND BLANKET	
10	117-847	1	HEAT BLANKET	

NOT SHOWN:

FOOTNOTES:

NOTE:

## TAPE DISPENSER



# TAPE DISPENSER

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	190-1637	-	TAPE DISPENSER	INCL'S REF #'S 1 THRU 8
1	301-1490	1	PLATE	
2	301-1399	1	MOUNT	
3	301-1491	2	RING	
4	105-258	3	BOLT (3/8-NC X 3-3/4")	RT80 & RT55
5	105-098	3	BOLT (3/8-NC X 3")	HT/RT115 & QUAD RT45
6	105-047	3	LOCKNUT (3/8-NC)	
7	301-1492	1	COLLAR	
8	105-714	2	SET SCREW (3/8-NC X 1", SQ)	

NOT SHOWN:

FOOTNOTES:

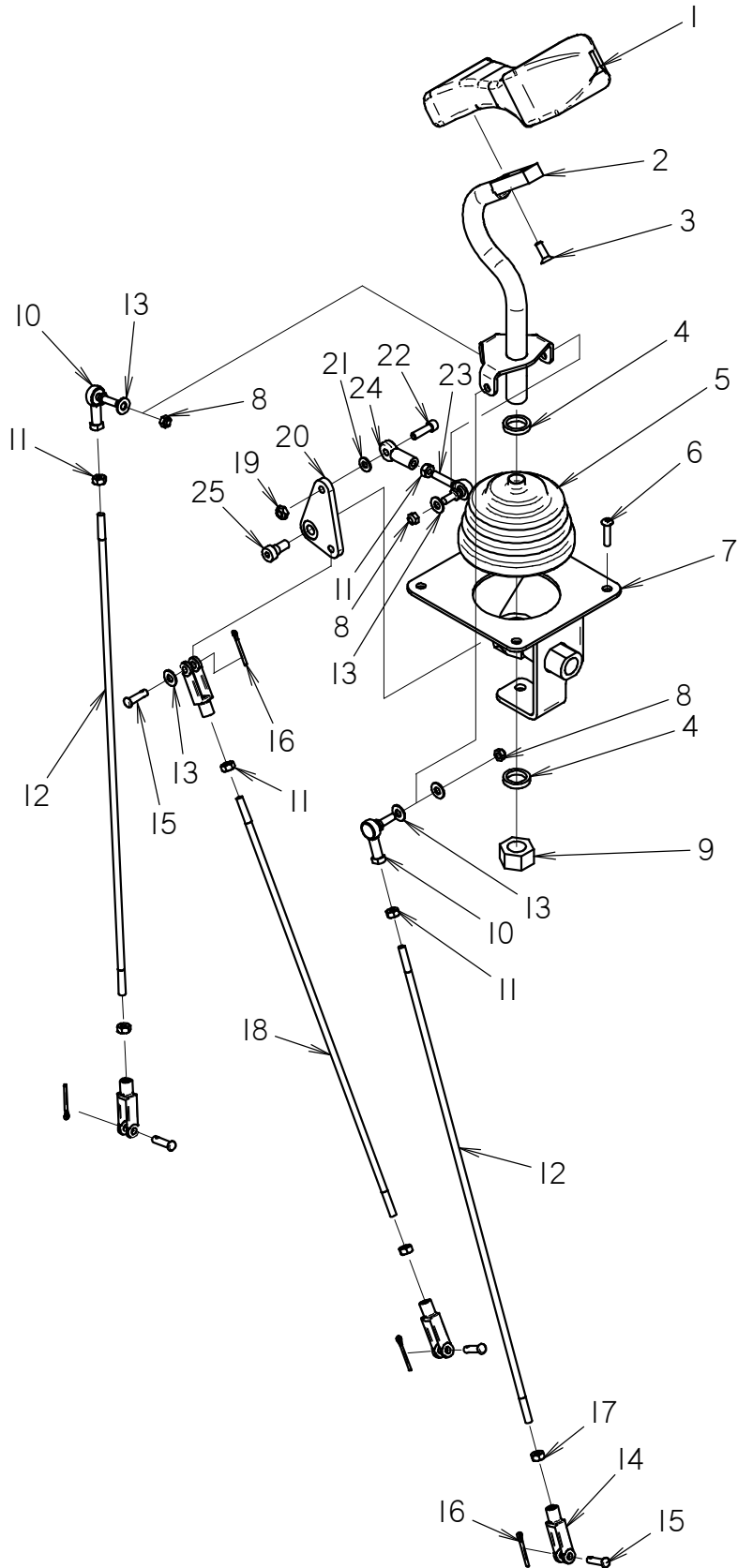
NOTE:



# **CONTROL COMPONENTS**



# BFB BLADE CONTROLS



# BFB BLADE CONTROLS

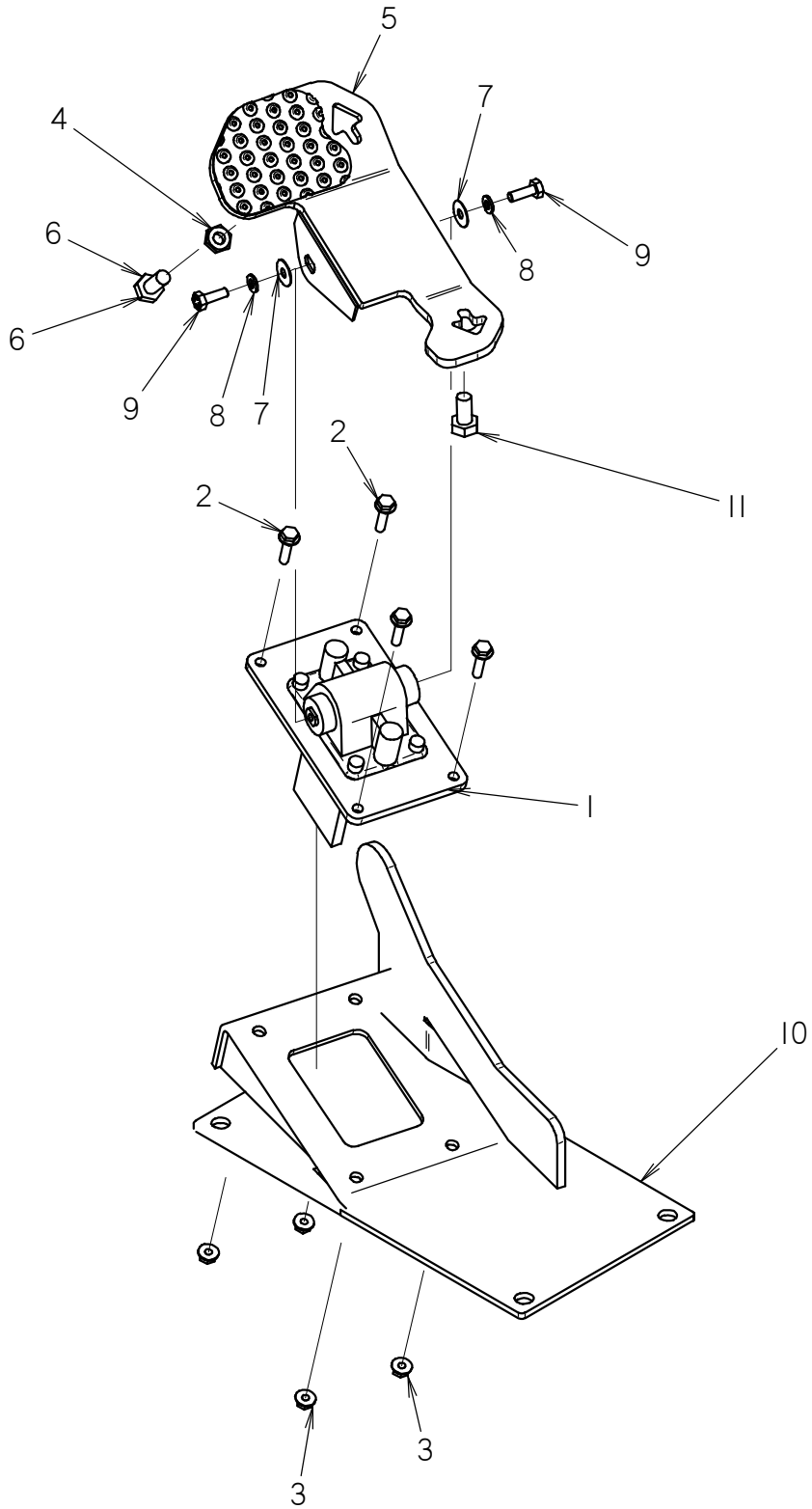
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	117-345	1	CONTROL HANDLE	
2	305-728	1	HANDLE ASSEMBLY	
3	105-263	2	BOLT (1/4-NC X 3/4", CSK, SOC)	
4	178-421	2	BUSHING	
5	110-330	1	DUST BOOT	
6	107-312	4	SCREW (M6-1.00 X 25MM, BUT SOC)	
7	305-727	1	MOUNT ASSEMBLY	
8	107-770	3	LOCKNUT (1/4-NF, NYL INSERT)	
9	105-387	1	LOCKNUT (3/4-NF)	
10	160-540	2	ROD END	
11	105-152	4	NUT (1/4-NF)	
12	179-884	2	ROD (19.44")	
13	106-076	5	WASHER (1/4")	
14	107-790	4	CLEVIS (1/4-NF-LH)	
15	110-082	4	CLEVIS PIN (1/4 X 11/16)	
16	105-508	4	COTTER PIN (3/32" X 1")	
17	105-878	3	NUT (1/4-NF, LH)	
18	179-885	1	ROD (17")	
19	105-085	1	LOCKNUT (1/4"-NC)	
20	305-724	1	LINKAGE PLATE	
21	105-284	1	WASHER (3/16")	
22	105-087	1	BOLT (1/4-NC X 7/8", SOC)	
23	110-565	1	BALL JOINT (1/4-NF)	
24	110-281	1	ROD END (1/4-NF, FM)	
25	107-582	1	SHLD BOLT(3/8" X 1/4",5/16-NC)	

NOT SHOWN:

FOOTNOTES:

NOTE:

# CRUISE FOOT CONTROL



# CRUISE FOOT CONTROL

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	215-1537	1	SINGLE AXIS 12V FOOT CONTROL	SEE FOOTNOTE 1 SUPERCEDES 215-1243
2	106-848	4	FLG SCREW (M6-1.00 X 25MM)	
3	106-385	4	FLG LOCKNUT (M6-1.00)	
4	107-769	1	JAM NUT (M10-1.50)	
5	324-554	1	PEDAL	
6	105-245	1	SCREW (M10-1.50 X 25MM)	
7	107-092	2	WASHER (.254")	
8	105-079	2	LOCK WASHER (1/4)	
9	105-865	2	BOLT (1/4-NC X 3/4", GD8)	
10	323-921	1	CRUISE FOOT CONTROL BASE	
11	105-274	1	SCREW (M10-1.50 X 20MM, 10.9)	

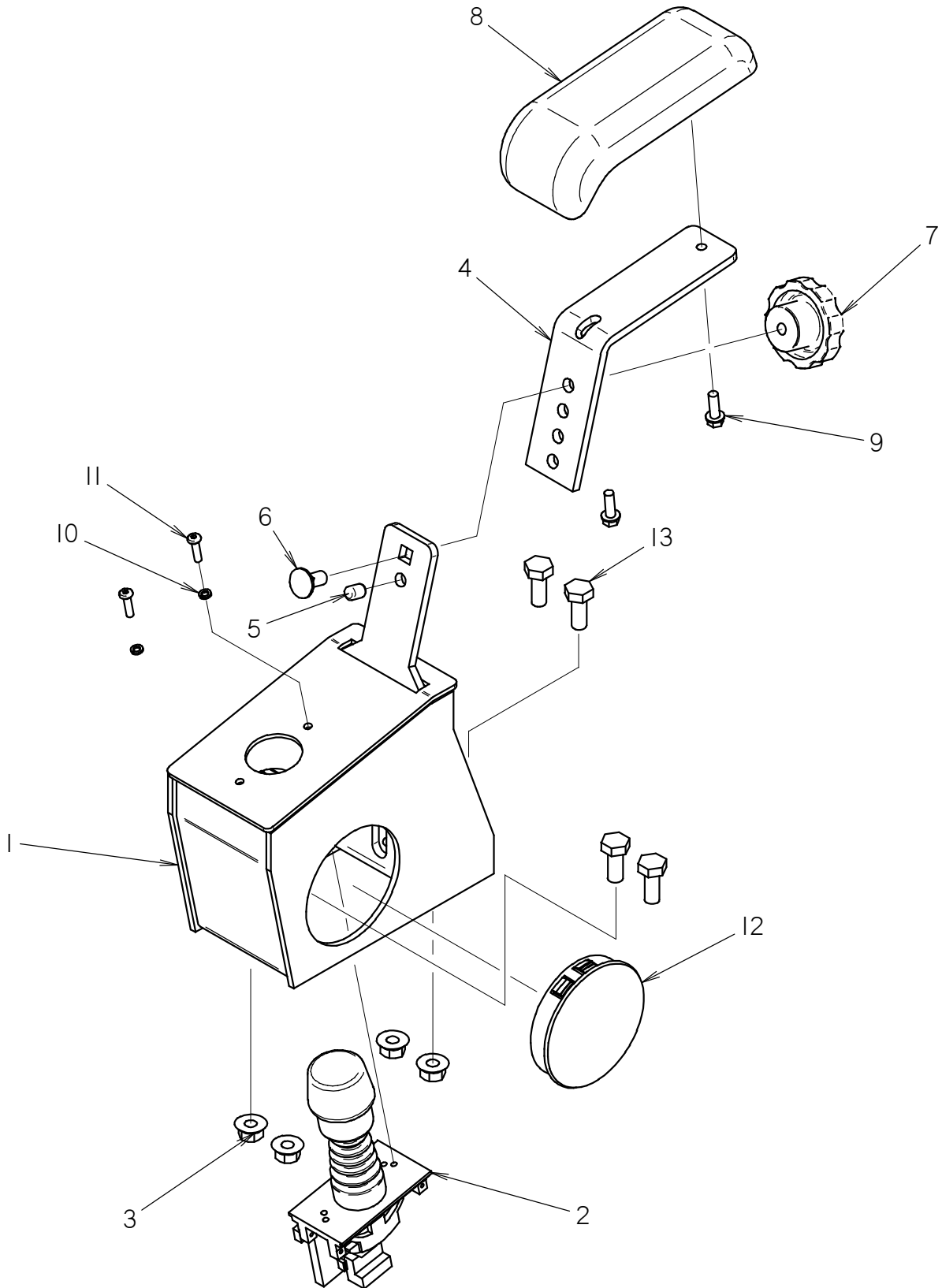
NOT SHOWN:

FOOTNOTES:

RT80, 95 115T3 BEGINS WITH S/N CMWRT80XP90000002, CMWRT95HC90000366, CMWRT5T3J90000131.

NOTE:

# CONTROL ARM RT115 QUAD TRACK



# CONTROL ARM RT115 QUAD TRACK

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	300-9740	1	CONTROL ARM WELDMENT	
2	215-1663	1	SINGLE AXIS 12V HAND CONTROL, ORG KNOB	SEE FOOTNOTE 1
3	106-387	4	FLG LOCKNUT (M10-1.50)	
4	313-707	1	UPPER ARMREST BRACKET	
5	107-698	1	DOWEL (.375 X .50)	
6	107-702	1	CARRIAGE BOLT (3/8-NC X 3/4")	
7	110-383	1	KNOB (3/8-NC, BLACK)	
8	117-314	1	ARM REST	
9	106-159	2	FLG SCREW (1/4-NC X 3/4")	
10	195-418	2	LOCK WASHER (#10)	
11	105-649	2	BOLT (#10-32 X .75", BUT)	
12	105-1444	2	ROUND PLASTIC CAP ,3.5"	
13	105-245	4	SCREW (M10-1.50 X 25MM)	

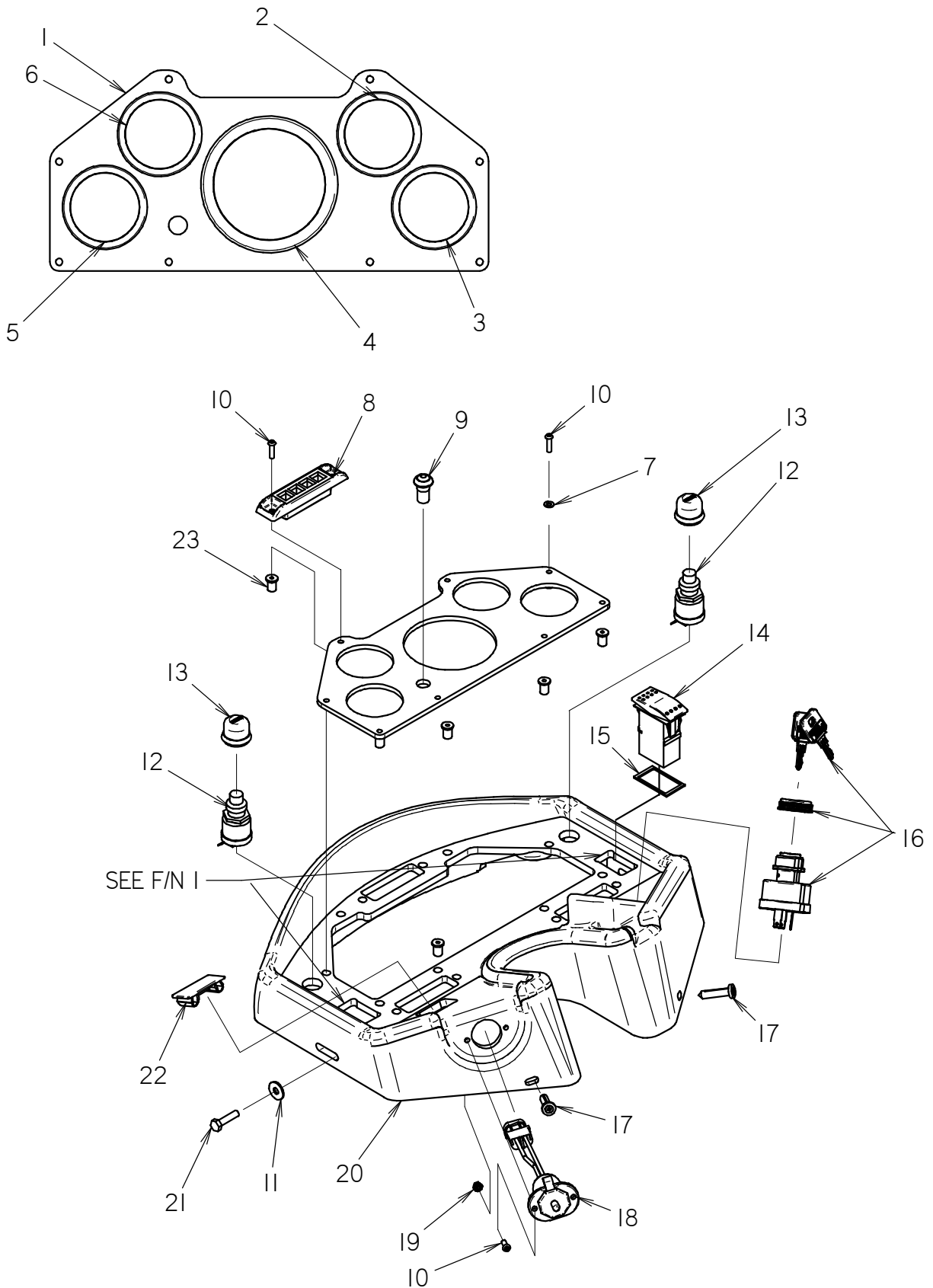
NOT SHOWN:

FOOTNOTES:

- IF REPLACING 215-1536 USE HAND CONTROL 215-1663 WITH AN ORANGE KNOB FOR GROUND DRIVE CONTROL AND USE HAND CONTROL 215-1664 WITH A YELLOW KNOB FOR ATTACHMENT CONTROL.

NOTE:

# GAUGE PANEL ASSEMBLY RT115 QUAD



# GAUGE PANEL ASSEMBLY

## RT115 QUAD

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	362-1086	1	GAUGE CLUSTER PANEL	
2	215-1268	1	2.06" CAN ENG OIL PRESS GAUGE	
3	215-1267	1	2.06" CAN COOLANT TEMP GAUGE	
4	211-325	1	3.5" CAN TACHOMETER W/ DISPLAY	
5	211-328	1	2.06" VOLTMETER GAUGE	
6	215-1370	1	FUEL GAUGE (VOLTAGE)	
7	107-597	8	WASHER (M4)	
8	220-664	3	INDICATOR ASSEMBLY	
9	215-1015	1	MOMENTARY PUSH BUTTON SWITCH	
10	107-580	16	SCREW (M4-0.70 X 16MM,BUT SOC)	
11	107-801	4	WASHER (M6)	
12	306-607	2	HORN BUTTON	
13	306-608	2	BUTTON COVER	
14	217-764	1	ROCKER SWITCH (SPDT)	
15	165-817	1	SWITCH GASKET	
16	214-852	1	IGNITION SWITCH	
17	107-805	2	PLASTIC FASTENER	
18	214-301	1	ACCESSORY SOCKET	
19	105-680	2	NUT (M4, W/LK WSHR)	
20	362-1085	1	MAIN CONSOLE	
21	105-1550	4	SCREW (M6-1.00 X 25MM)	
22	362-823	1	COVER	
23	107-358	14	WELLNUT (M4-0.7 X 12.67MM LG)	

NOT SHOWN:

FOOTNOTES:

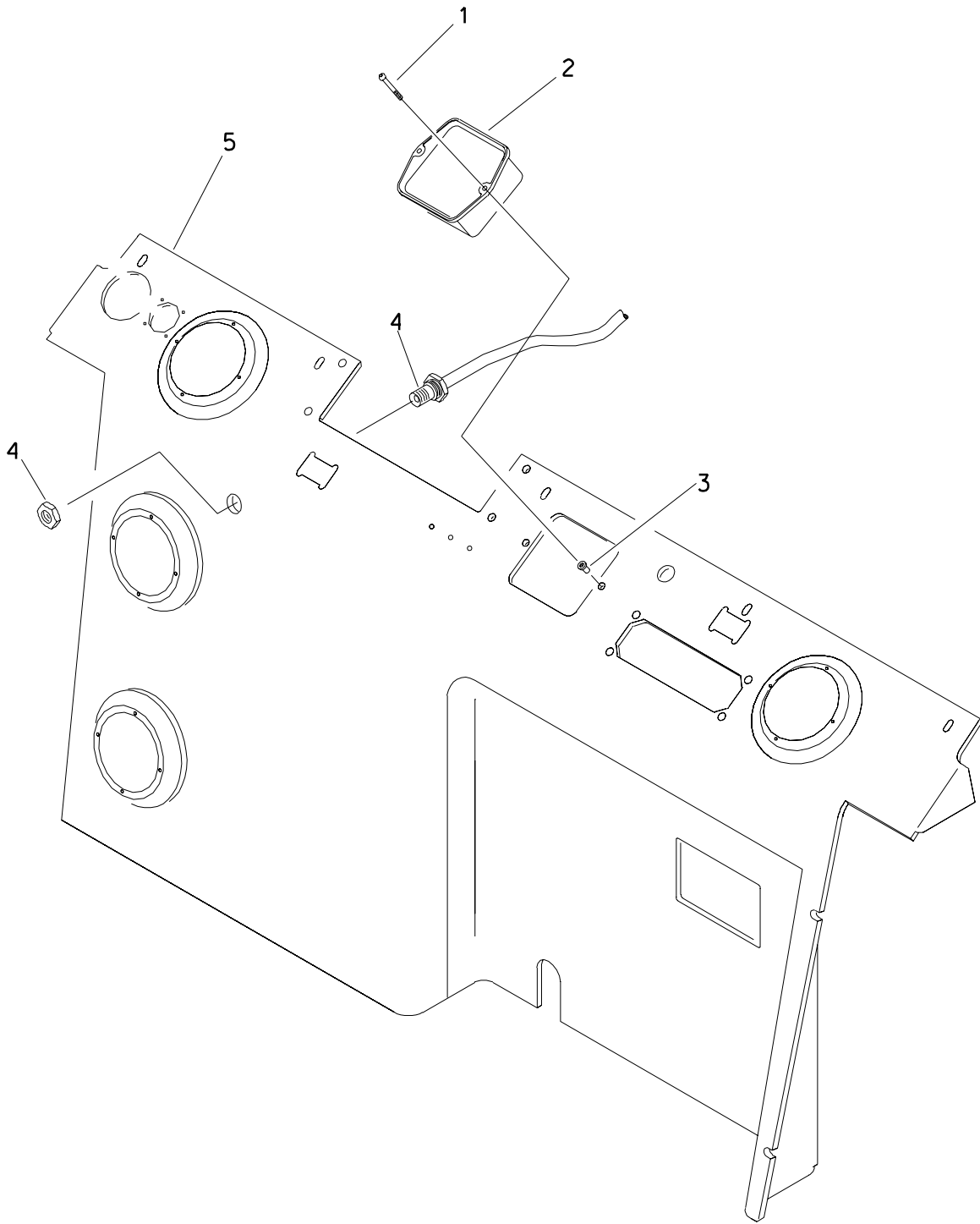
- I. HOLES WILL HAVE EITHER 362-823 OR 217-764, DEPENDING UPON FRONT ATTACHMENT OPTIONS

NOTE:



# TRENCH DEPTH METER MODULE

RT70/RT75/RT90/RT95/RT115



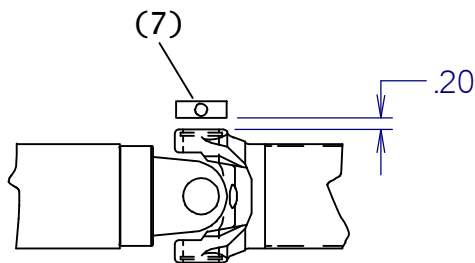
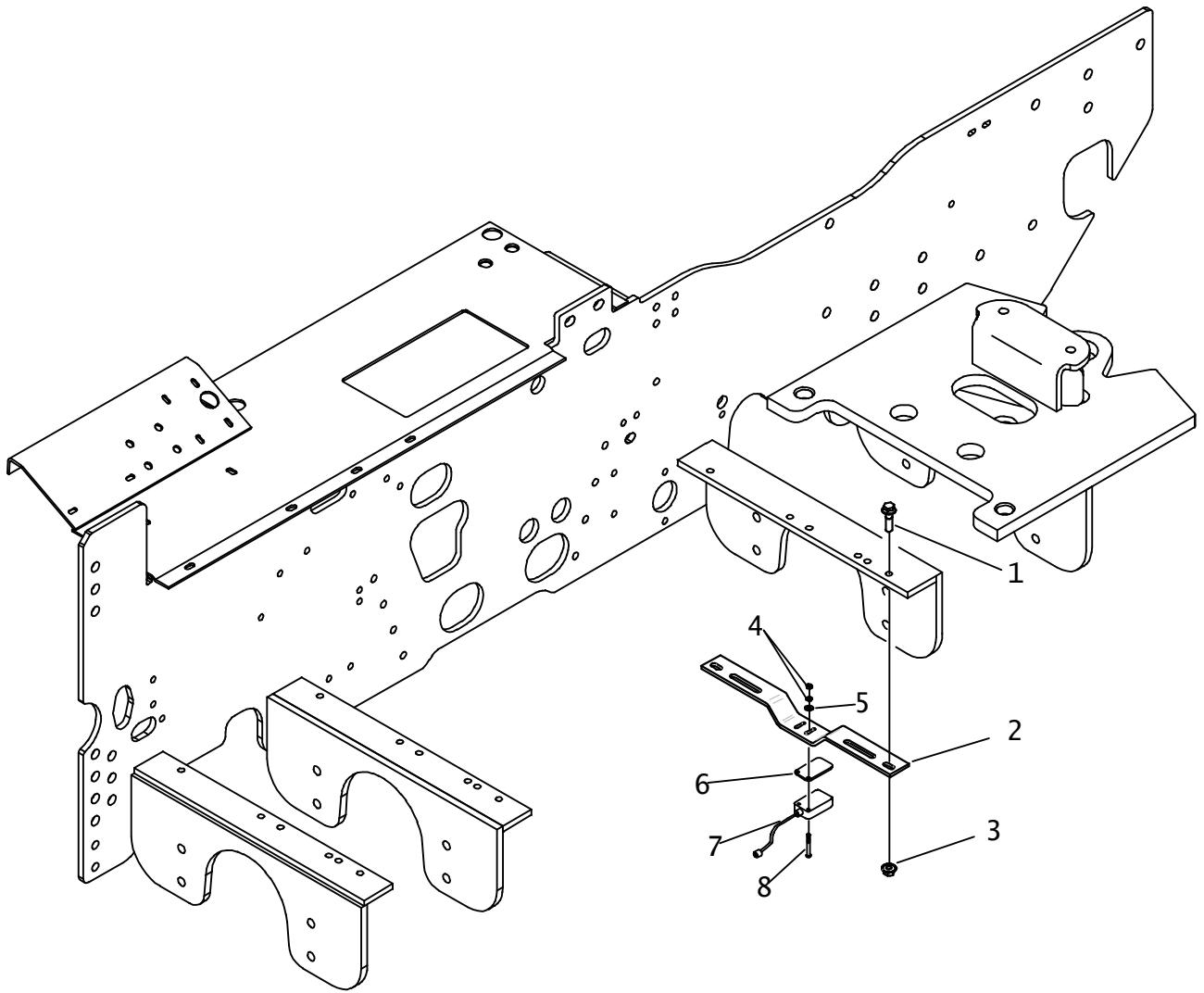
# TRENCH DEPTH METER MODULE

RT70/RT75/RT90/RT95/RT115

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	107-580	2	SCREW (M4-0.70 X 16mm, BUT SOC)	
2.	220-086	1	TRENCH DEPTH METER	
3.	107-358	2	WELLNUT (M4-0.7 X 12.67mm LG)	
4.	213-075	1	TDM HARNESS	
5.	319-745	-	REAR PANEL	

FOOTNOTES

# TRENCH DEPTH METER/ODOMETER MT



## TRENCH DEPTH METER/ODOMETER MT

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	107-004	3	FLG LK SCREW (M12-1.75 X 45mm)	RT95 / RT115 & SEE FOOTNOTE 2
2.	315-744	1	SENSOR BRACKET	
3.	106-709	3	FLG LK NUT (M12-1.75)	RT95 / RT115 & SEE FOOTNOTE 2
4.	105-680	2	NUT (M4, W/LK WSHR)	
5.	107-597	2	WASHER (M4)	
6.	107-451	AR	SHIM (.135")	SEE FOOTNOTE 1
7.	214-692	1	PROXIMITY SWITCH	
8.	107-414	2	SCREW (M4-0.70 X 30mm, BUT SOC)	

NOT SHOWN

### FOOTNOTES

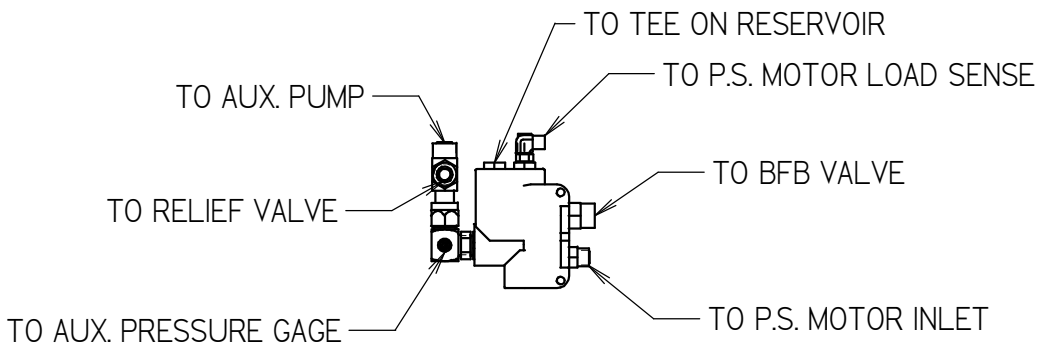
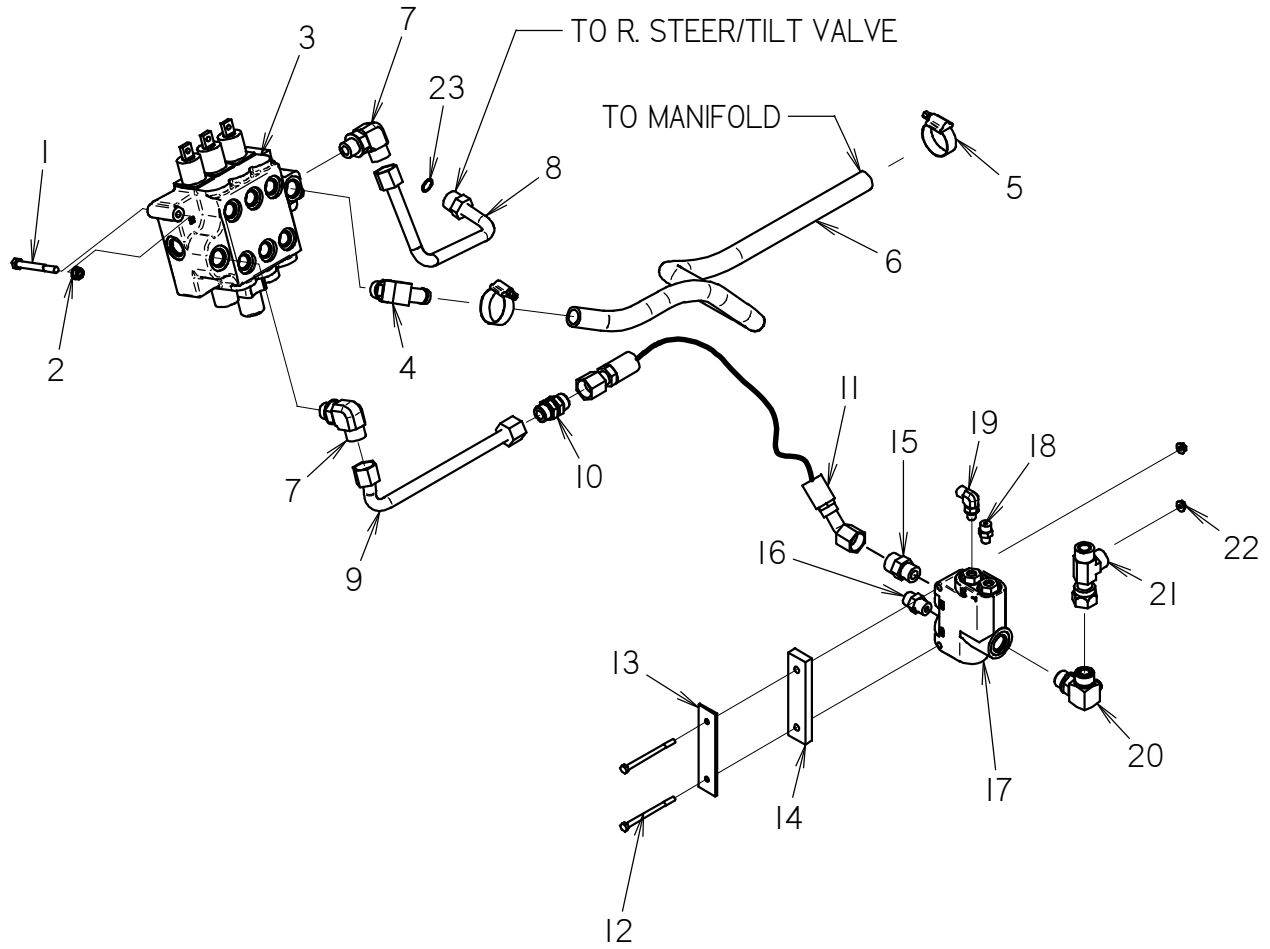
- SHIMS (107-451) ARE USED TO ADJUST SPACING OF PROXIMITY SWITCH (214-692) FROM THE DRIVE SHAFT.
- RT75 USES 2X 105-003 (FLG LOCKNUT 5/16-NC) & 2X 105-190 (BOLT 5/16-NC X 2-3/4")

NOTE



# HYDRAULICS

# BFB VALVE PLUMBING



PRIORITY VALVE PORTS

# BFB VALVE PLUMBING

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	105-292	2	SCREW (M8-1.25 X 75MM)	
2	106-386	2	FLG LOCKNUT (M8-1.25)	
3	150-3153	1	HYDRAULIC VALVE, 3 SPOOL	
4	154-362	1	S/O COUPLER (10S-12H90)	
5	111-011	2	WORM CLAMP (1" TO 1-3/4")	
6	116-636	40	BULK HOSE (3/4", SOLD PER FT)	
7	154-298	2	CONNECTOR (10S-10090)	
8	149-851	1	HYDRAULIC LINE (1-10)	
9	157-322	1	HYDRAULIC LINE (1-10)	
10	154-464	1	CONNECTOR (100-100)	
11	515-139	1	HOSE (100FX45-36"-3000)	
12	107-054	2	SCREW (M6-1.00 X 90MM)	
13	309-817	1	SPACER PLATE	
14	306-886	1	SPACER	
15	154-301	1	CONNECTOR (10S-100)	
16	154-222	1	CONNECTOR (060-08S)	
17	150-2362	1	PRIORITY VALVE	
18	154-278	1	CONNECTOR (04S-040)	
19	154-252	1	CONNECTOR (04S-04090)	
20	153-787	1	ELBOW (10S-100-100)	
21	154-488	1	UN RUN TEE (100FX-100-100)	
22	106-385	2	FLG LOCKNUT (M6-1.00)	
23	157-040	1	O-RING (016 D90)	

NOT SHOWN:

FOOTNOTES:

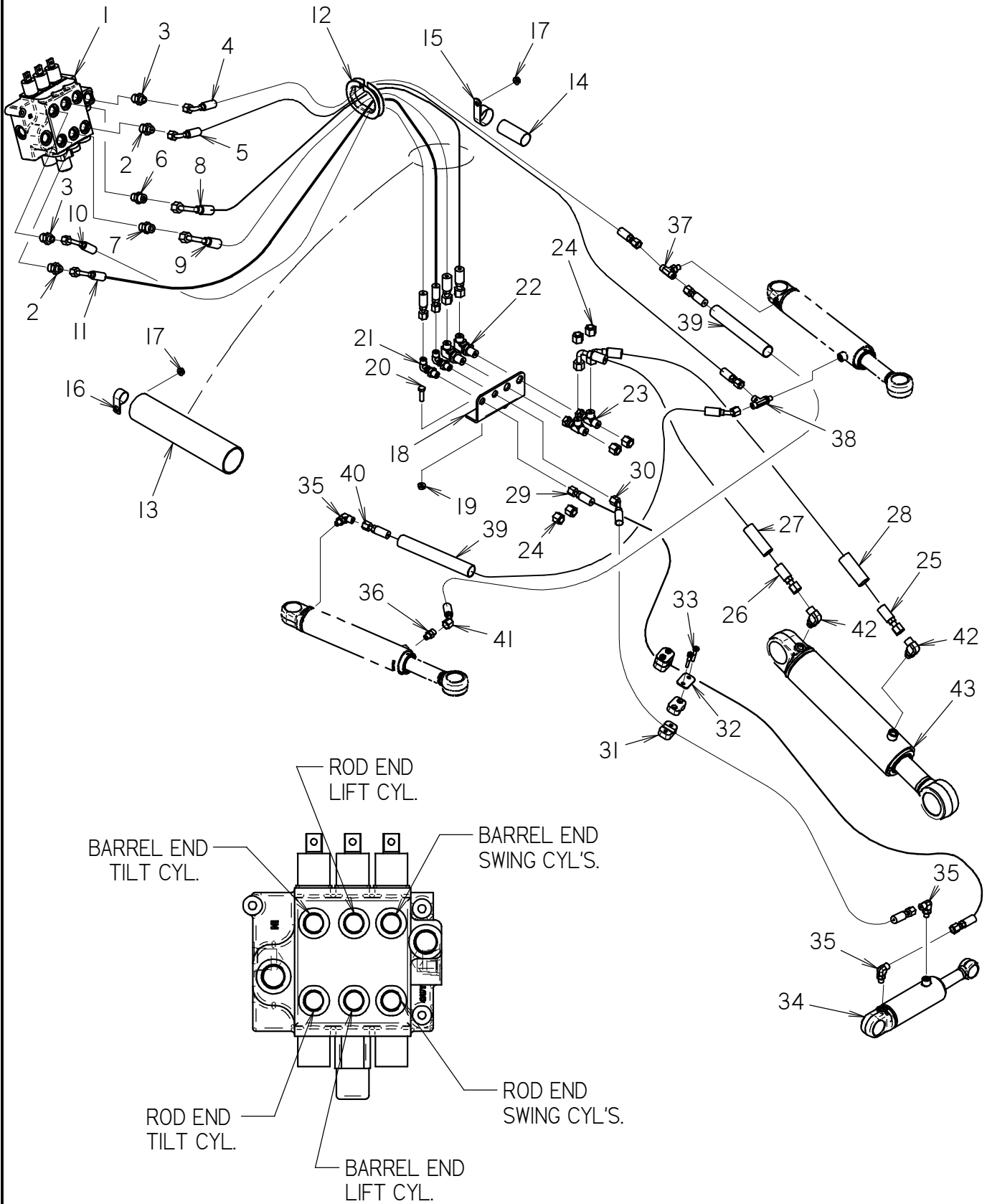
NOTE:

1. REFER TO O-RING CHART (800-301) IN BACK OF BOOK FOR REPLACEMENT OF O-RINGS.



# BFB CYLINDER PLUMBING

## RT115 QUAD



# BFB CYLINDER PLUMBING

## RT115 QUAD

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	150-3153	1	HYDRAULIC VALVE, 3 SPOOL	
2	154-261	2	CONNECTOR (040-08S)	
3	154-374	2	CONN (040-08S, .062 ORF)	
4	153-968	1	HOSE (040FX90S-82"-5000)	
5	153-967	1	HOSE (040FX90S-90"-5000)	
6	514-294	1	CONNECTOR (08S-060, ORF)	
7	154-222	1	CONNECTOR (060-08S)	
8	153-074	1	HOSE (060FX90M-88"-3000)	
9	153-074	1	HOSE (060FX90M-88"-3000)	
10	515-137	1	HOSE (040FX90-90"-3000)	
11	515-137	1	HOSE (040FX90-90"-3000)	
12	116-259	1	BULK EDGE (1/2", SOLD PER 1")	
13	115-920	1	ABRASION SLEEVE (2.38" X 70")	
14	117-691	1	ABRASION SLEEVE (1.25" X 68")	
15	110-332	1	BOLT-ON CLAMP (1-5/8")	
16	110-333	1	BOLT-ON CLAMP (1")	
17	105-003	2	FLG LOCKNUT (5/16-NC)	
18	307-416	1	BK BRACKET	
19	106-386	2	FLG LOCKNUT (M8-1.25)	
20	106-327	2	SCREW (M8-1.25 X 30MM)	
21	154-355	2	BK CONNECTOR (040-04090BK)	
22	154-229	2	BK CONNECTOR (060-06090BK)	
23	154-344	2	UN RUN TEE (060FX-060-060)	
24	154-326	6	CAP (060F)	
25	154-738	1	HOSE (060FX90-34"-3000)	
26	515-586	1	HOSE (060FX90-21"-3000)	
27	117-328	1	ABRASION SLEEVE (1.00" X 18")	
28	117-409	1	ABRASION SLEEVE (1.00" X 28")	
29	154-921	1	HOSE (040FX-54"-3000-AR)	
30	153-973	1	HOSE (040FX45-54"-3000-AR)	
31	110-866	2	CLAMP SET (1/2")	
32	110-958	2	BACKUP PLATE	
33	105-818	4	BOLT (1/4-NC X 1-1/2")	
34	151-202	1	CYL (2.0" X 1.0" X 3.38")	
35	154-252	3	CONNECTOR (04S-04090)	
36	154-278	1	CONNECTOR (04S-040)	
37	154-293	1	BRANCH TEE (04S-040-040)	
38	154-316	1	RUN TEE (04S-040-040)	
39	117-672	2	ABRASION SLEEVE (1.00" X 20")	
40	515-310	1	HOSE (040FX45-22"-5000)	
41	515-310	1	HOSE (040FX45-22"-5000)	
42	154-342	2	CONNECTOR (06S-06090)	
43	150-3170	1	CYL (3.0 X 1.75 X 7.50, SPI)	REFER TO FOOTNOTE 1

NOT SHOWN:

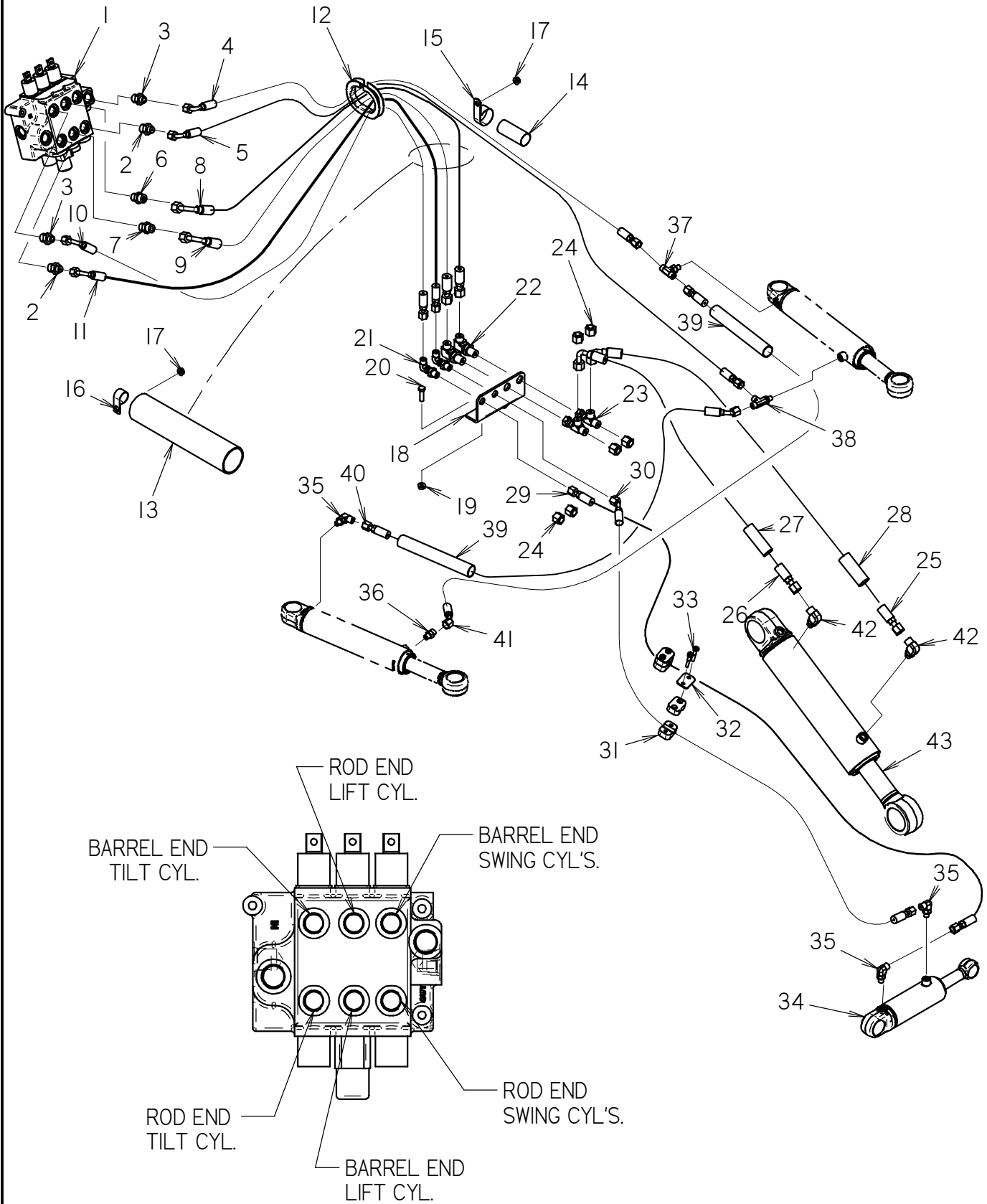
**FOOTNOTES:**

1. BFB CYLINDER GUARD KIT, I91-285, CAN BE INSTALLED ON THIS CYLINDER. (KIT NOT SHOWN)

**NOTE:**

1. REFER TO O-RING CHART (800-301) IN BACK OF THE BOOK FOR REPLACEMENT OF O-RINGS.

# BFB CYLINDER PLUMBING RT115 QUAD



# BFB CYLINDER PLUMBING

## RT115 QUAD

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	150-3153	1	HYDRAULIC VALVE, 3 SPOOL	
2	154-261	2	CONNECTOR (040-08S)	
3	154-374	2	CONN (040-08S, .062 ORF)	
4	153-968	1	HOSE (040FX90S-82"-5000)	
5	153-967	1	HOSE (040FX90S-90"-5000)	
6	514-294	1	CONNECTOR (08S-060, ORF)	
7	154-222	1	CONNECTOR (060-08S)	
8	153-074	1	HOSE (060FX90M-88"-3000)	
9	153-074	1	HOSE (060FX90M-88"-3000)	
10	515-137	1	HOSE (040FX90-90"-3000)	
11	515-137	1	HOSE (040FX90-90"-3000)	
12	116-259	1	BULK EDGE (1/2", SOLD PER 1")	
13	115-920	1	ABRASION SLEEVE (2.38" X 70")	
14	117-691	1	ABRASION SLEEVE (1.25" X 68")	
15	110-332	1	BOLT-ON CLAMP (1-5/8")	
16	110-333	1	BOLT-ON CLAMP (1")	
17	105-003	2	FLG LOCKNUT (5/16-NC)	
18	307-416	1	BK BRACKET	
19	106-386	2	FLG LOCKNUT (M8-1.25)	
20	106-327	2	SCREW (M8-1.25 X 30MM)	
21	154-355	2	BK CONNECTOR (040-04090BK)	
22	154-229	2	BK CONNECTOR (060-06090BK)	
23	154-344	2	UN RUN TEE (060FX-060-060)	
24	154-326	6	CAP (060F)	
25	154-738	1	HOSE (060FX90-34"-3000)	
26	515-586	1	HOSE (060FX90-21"-3000)	
27	117-328	1	ABRASION SLEEVE (1.00" X 18")	
28	117-409	1	ABRASION SLEEVE (1.00" X 28")	
29	154-921	1	HOSE (040FX-54"-3000-AR)	
30	153-973	1	HOSE (040FX45-54"-3000-AR)	
31	110-866	2	CLAMP SET (1/2")	
32	110-958	2	BACKUP PLATE	
33	105-818	4	BOLT (1/4-NC X 1-1/2")	
34	151-202	1	CYL (2.0" X 1.0" X 3.38")	
35	154-252	3	CONNECTOR (04S-04090)	
36	154-278	1	CONNECTOR (04S-040)	
37	154-293	1	BRANCH TEE (04S-040-040)	
38	154-316	1	RUN TEE (04S-040-040)	
39	117-672	2	ABRASION SLEEVE (1.00" X 20")	
40	515-310	1	HOSE (040FX45-22"-5000)	
41	515-310	1	HOSE (040FX45-22"-5000)	
42	154-342	2	CONNECTOR (06S-06090)	
43	149-686	1	CYL (3.0 X 1.75 X 10.0)	REFER TO FOOTNOTE 1

NOT SHOWN:

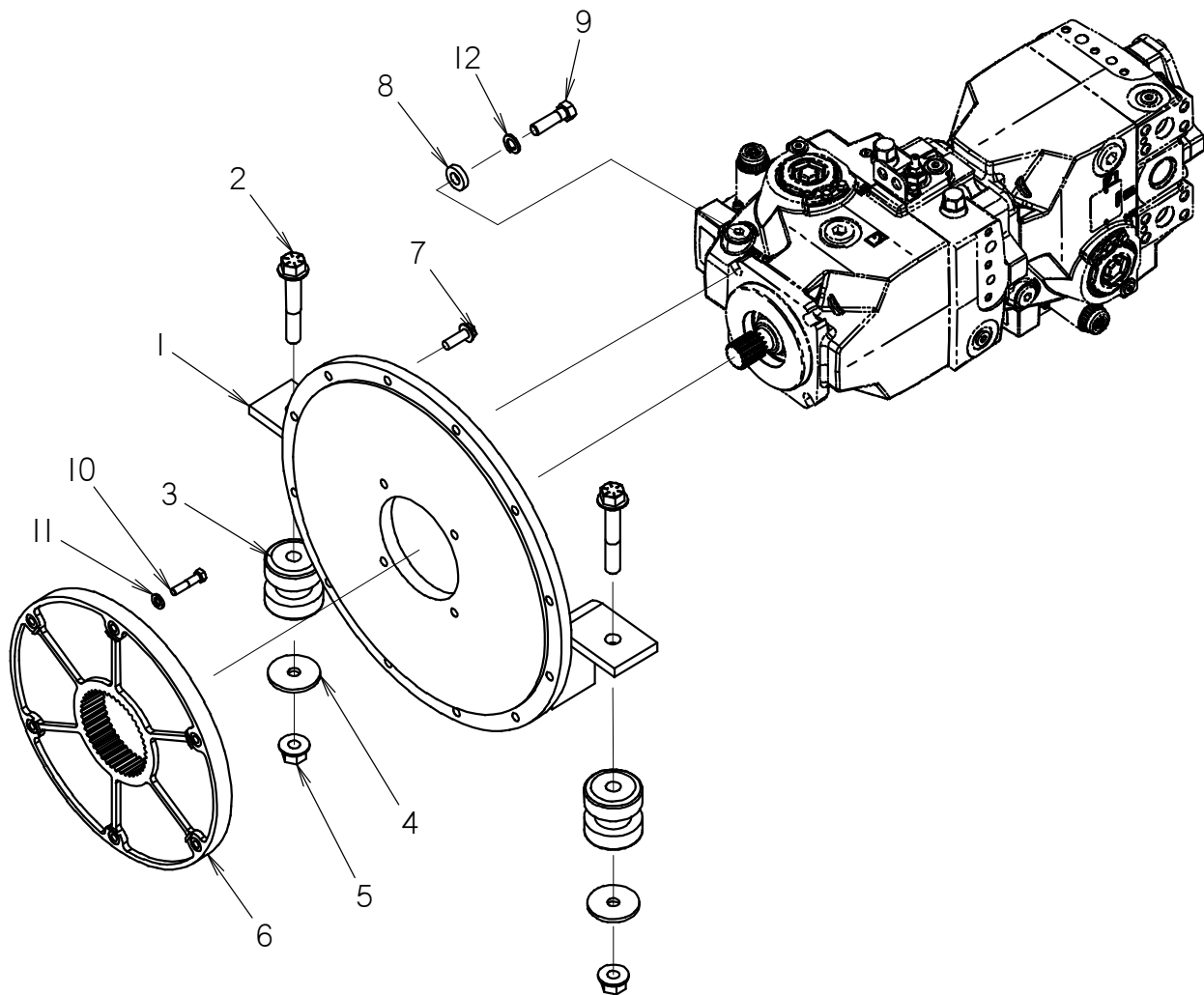
**FOOTNOTES:**

1. BFB CYLINDER GUARD KIT, I91-285, CAN BE INSTALLED ON THIS CYLINDER. (KIT NOT SHOWN)

**NOTE:**

1. REFER TO O-RING CHART (800-301) IN BACK OF THE BOOK FOR REPLACEMENT OF O-RINGS.

# PUMP MOUNT RT115 QUAD



# PUMP MOUNT RT115 QUAD

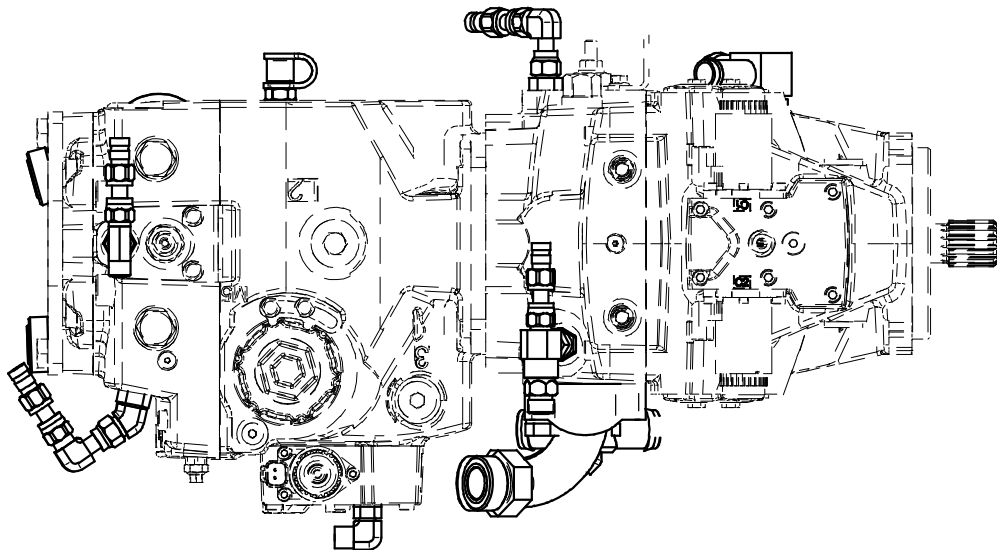
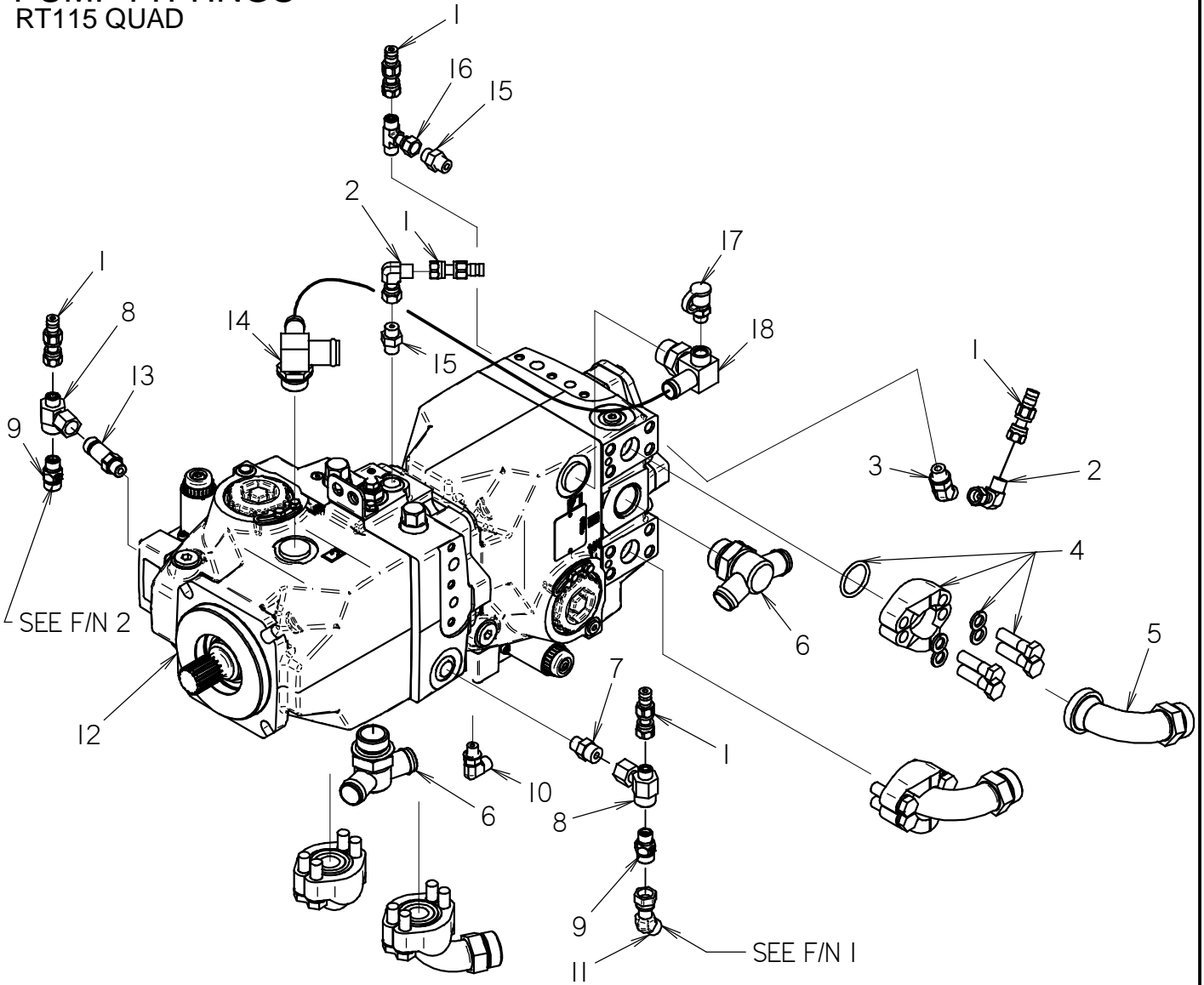
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	307-330	1	PUMP MOUNT	
2	105-993	2	FLG BOLT (5/8-NC X 4")	
3	116-151	2	SHOCK MOUNT	
4	105-475	2	WASHER (1/2")	
5	105-994	2	FLG LOCKNUT (5/8-NC)	
6	165-889	1	FLYWHEEL COUPLING	
7	106-383	12	FLG LK SCREW (M10-1.50 X 30MM)	
8	105-244	4	WASHER	
9	105-066	4	BOLT (1/2-NC X 1-3/4")	
10	107-416	6	BOLT (5/16-NC X 1-1/2")	
11	105-072	6	LOCK WASHER (3/8")	
12	105-070	4	LOCK WASHER (1/2")	

NOT SHOWN:

FOOTNOTES:

NOTE:

# PUMP FITTINGS RT115 QUAD



RIGHT SIDE PUMP REFERENCE

# PUMP FITTINGS

## RT115 QUAD

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	159-156	5	QDC ADAPTER (02-040F)	
2	154-255	2	UNION (040-040FX90)	
3	154-250	1	CONNECTOR (040-06S45)	
4	159-449	4	SPLIT FLANGE (16SFL, M12)	
5	154-404	4	CONNECTOR (160-16FL90)	
6	150-2370	2	S/O BR TEE (16S-16H-16HI50)	
7	154-221	1	CONNECTOR (06S-060)	
8	150-3135	2	CONNECTOR (040-06SF-060F)	
9	159-381	2	CHECK VALVE (06S-060)	
10	154-252	1	CONNECTOR (04S-04090)	
11	150-1518	1	CONNECTOR (1-060-060FX45)	
12	150-3100	1	PUMP ASSEMBLY, HI 78CC + HI 78CC	
13	156-174	1	CONNECTOR (06S-060 LG)	
14	155-224	1	S/O BR TEE (12S-12H-16H90)	
15	154-220	2	CONNECTOR (040-06S)	
16	154-379	1	UN BR TEE (040FX-040-040)	
17	159-147	1	QDC ADAPTER (02-06S)	
18	155-198	1	S/O COUPLER (12S-12H90-06SF)	

**NOT SHOWN:**

SERVICE PARTS:

107-996	4	HHCS M12-1.75 X 35mm, 10.9 ZP
157-1001	1	O-RING (2-158 D75)

**FOOTNOTES:**

- CONNECTS TO TEE MOUNTED TO BULKHEAD ON FRAME
- CONNECTS TO TEE MOUNTED TO HYDRAULIC TANK

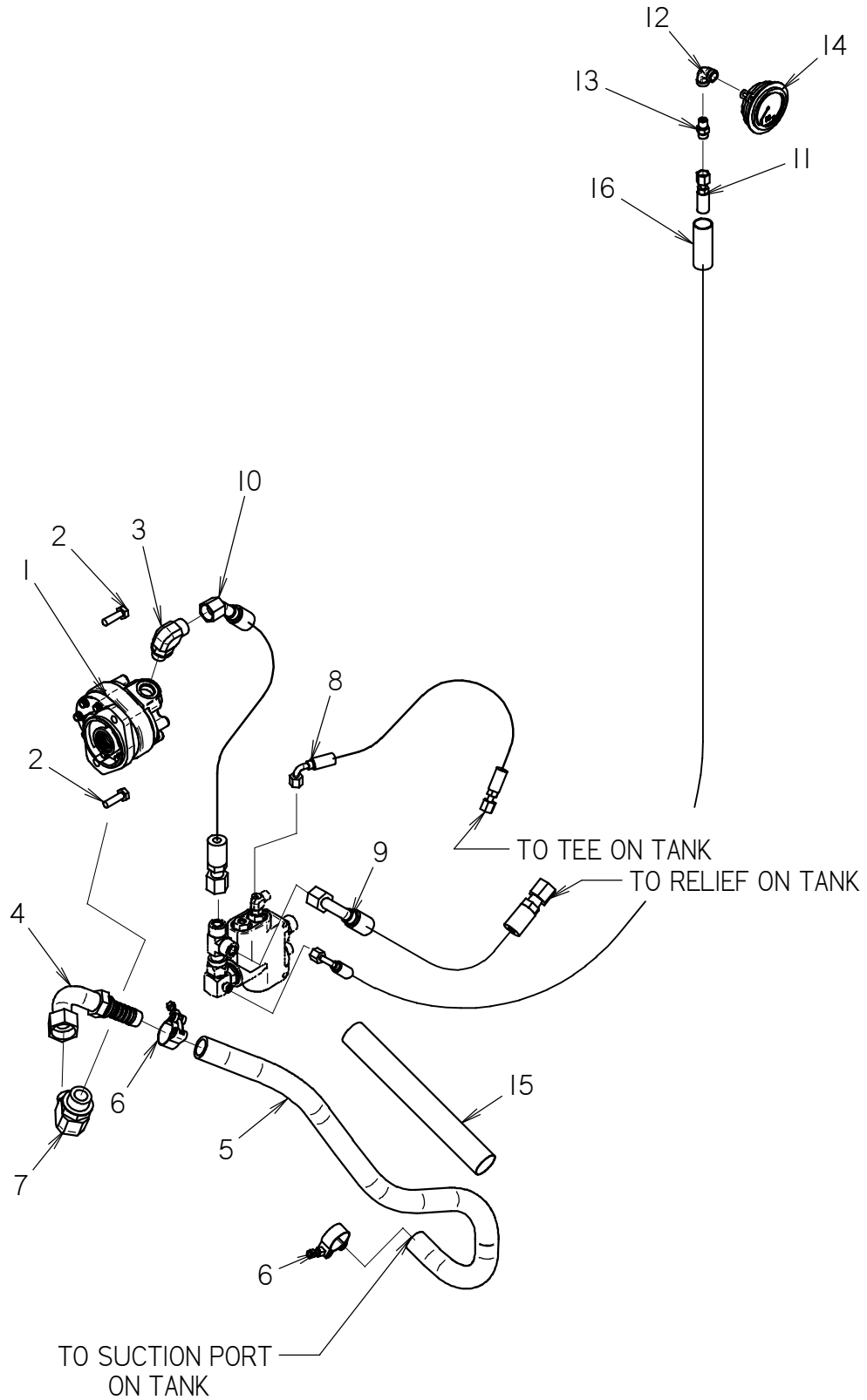
**NOTE:**

REFER TO O-RING NOTE (800-301) IN BACK OF BOOK FOR REPLACEMENT OF O-RINGS.



# AUXILIARY HYDRAULICS

## RT115 QUAD



# AUXILIARY HYDRAULICS

## RT115 QUAD

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	153-807	1	HYDRAULIC PUMP (AUX)	
2	105-876	2	SCREW (M10-1.50 X 35MM)	
3	154-298	1	CONNECTOR (I0S-I0090)	
4	510-313	1	COUPLER (I60FX90-I6H-3000)	
5	116-460	42	BULK HOSE (1", SOLD PER FT)	
6	111-027	2	T-BOLT CLAMP (1.25" - 1.50")	
7	154-287	1	CONNECTOR (I6S-I6090)	
8	154-743	1	HOSE (O40FX90S-23"-3000)	
9	150-3160	1	HOSE (I00FX90S-24"-4000)	
10	150-3159	1	HOSE (I00FX45-24"-4000)	
11	150-3158	1	HOSE (O40FX90S-82"-4000)	
12	149-896	1	STREET ELBOW(I04NF-04NF90)	
13	154-339	1	CONNECTOR (O4N-04O)	
14	213-419	1	5,000 PSI GAUGE	
15	115-687	1	ABRASION SLEEVE, BLUE, 1.50" (SOLD PER FT)	
16	117-218	1	ABRASION SLEEVE (1" X 52")	

NOT SHOWN:

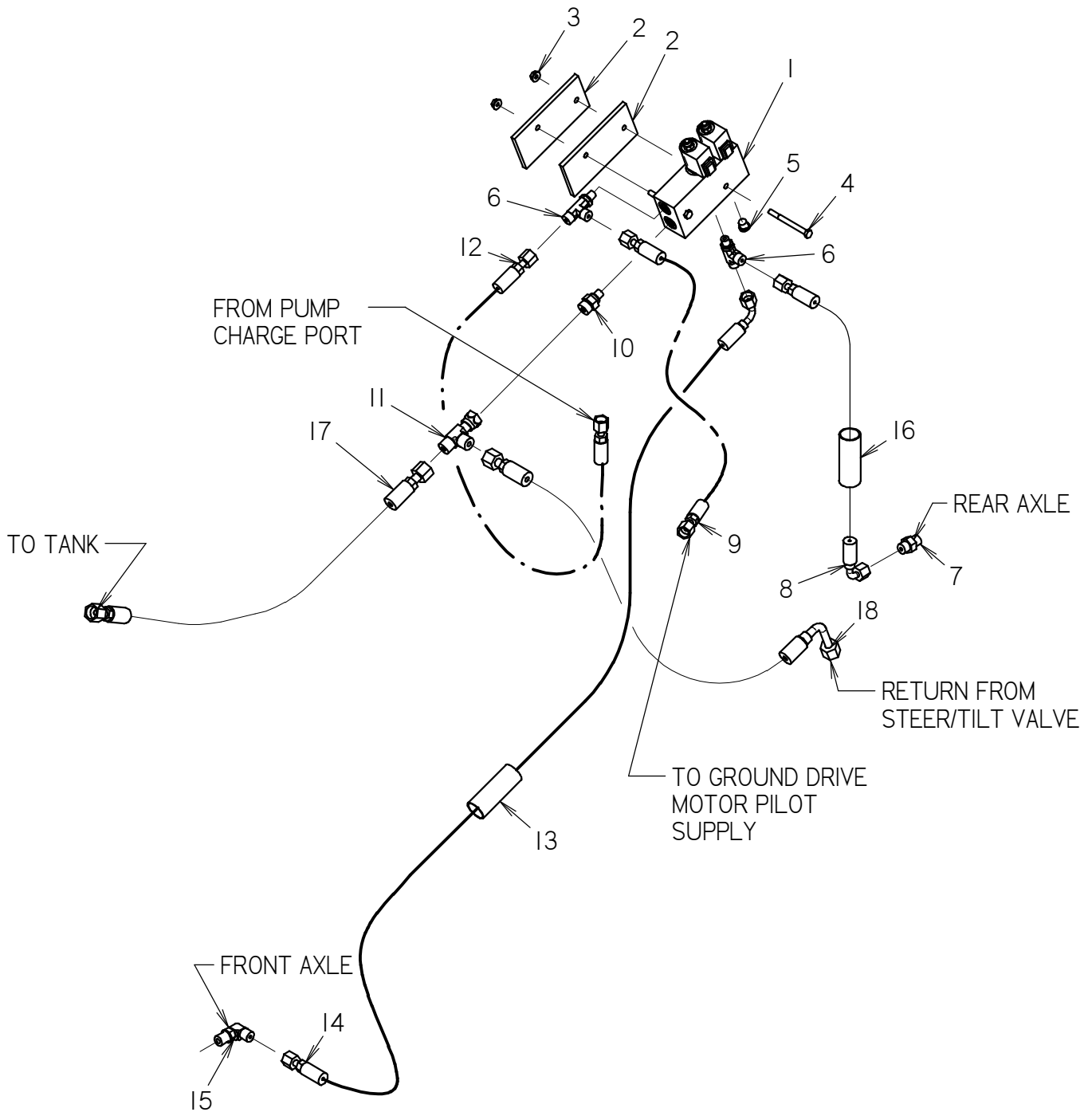
FOOTNOTES:

NOTE:

- I. REFER TO O-RING CHART (800-301) IN BACK OF BOOK FOR REPLACEMENT OF O-RINGS.

# DIFF LOCK HYDRAULICS

## RT115 QUAD



# DIFF LOCK HYDRAULICS

## RT115 QUAD

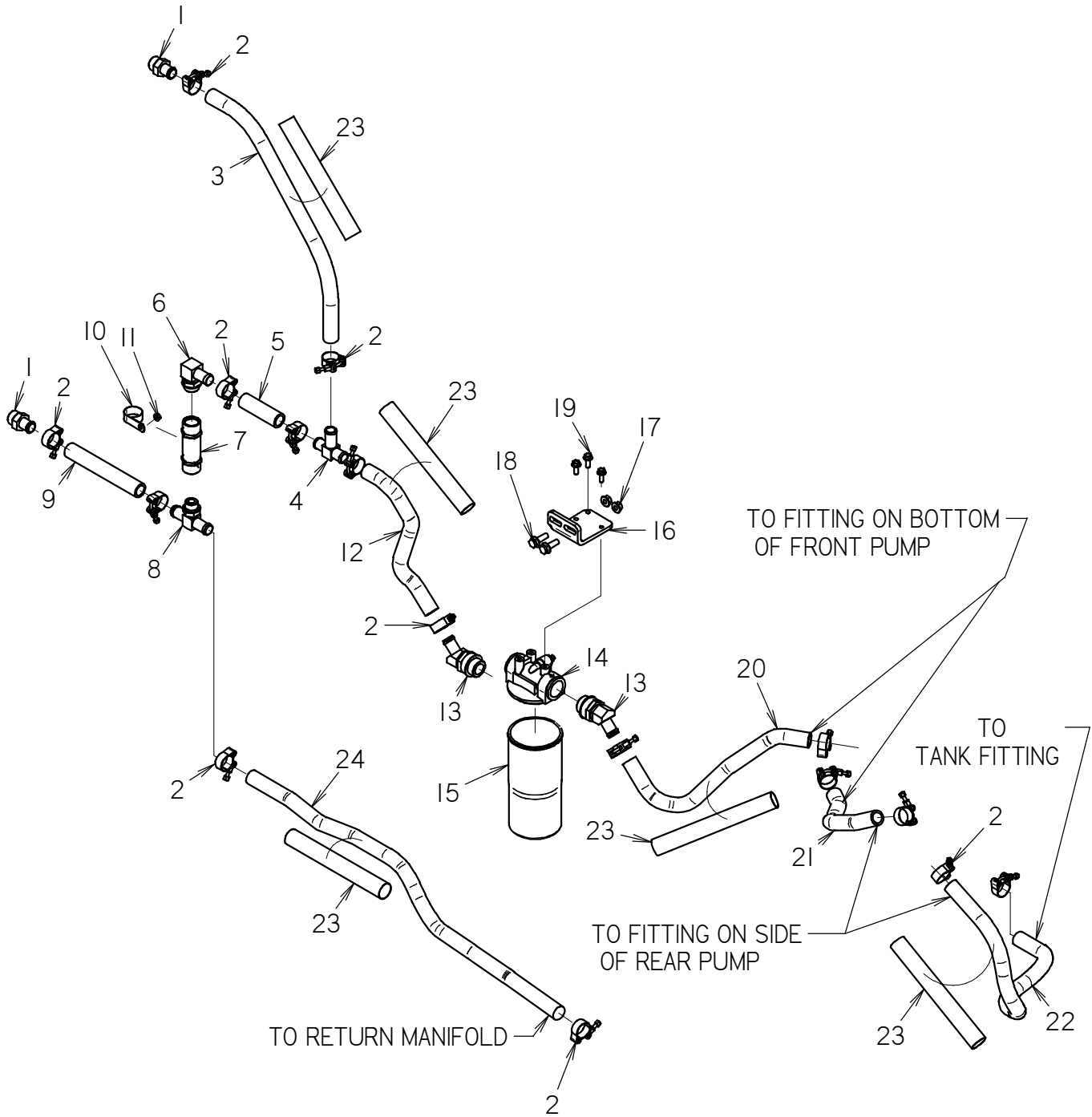
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	157-246	1	MANIFOLD (2-SP)	
2	306-885	2	MOUNT PLATE	
3	106-385	2	FLG LOCKNUT (M6-1.00)	
4	106-566	2	SCREW (M6-1.00 X 70MM)	
5	154-383	1	PLUG (O4S)	
6	154-316	2	RUN TEE (O4S-O40-O40)	
7	154-220	1	CONNECTOR (O40-O6S)	
8	515-744	1	HOSE (O40FX90S-28"-3000)	
9	515-249	1	HOSE (O40FX-26"-3000)	
10	154-411	1	CONNECTOR (O4S-O6O)	
11	154-344	1	UN RUN TEE (O60FX-O6O-O6O)	
12	515-249	1	HOSE (O40FX-26"-3000)	
13	117-218	1	ABRASION SLEEVE (1" X 52")	
14	515-075	1	HOSE (O40FX90S-82"-3000)	
15	154-226	1	CONNECTOR (O40-O6S9O)	
16	117-611	1	ABRASION SLEEVE (1.00" X 22")	
17	157-909	1	HOSE (O60FX-28"-3000)	
18	153-320	1	HOSE (O60FX90L-17"-3000)	

NOT SHOWN:

FOOTNOTES:

NOTE:

# COOLER AND FILTER PLUMBING RT115 QUAD



# COOLER AND FILTER PLUMBING

## RT115 QUAD

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	514-088	2	S/O COUPLER (16S-16H)	
2	111-027	16	T-BOLT CLAMP (1.25" - 1.50")	
3	116-460	30	BULK HOSE (1", SOLD PER FT)	
4	154-192	1	S/O RUN TEE (16H-16H-16H)	
5	116-460	5	BULK HOSE (1", SOLD PER FT)	
6	154-188	1	S/O COUPLER (16S-16H90)	
7	153-888	1	CHECK VALVE (16SF-16SF,25 PSI)	
8	155-231	1	S/O BR TEE (16S-16H-16H)	
9	116-460	10	BULK HOSE (1", SOLD PER FT)	
10	110-332	1	BOLT-ON CLAMP (1-5/8")	
11	105-003	1	FLG LOCKNUT (5/16-NC)	
12	116-460	17	BULK HOSE (1", SOLD PER FT)	
13	153-110	2	S/O COUPLER (20S-16H45)	
14	157-345	1	HYD OIL FILTER (20SF-20SF)	INCL'S REF #15, FILTER ELEMENT 153-792.
15	153-792	1	FILTER ELEMENT (10 MICRON)	
16	306-862	1	BRACKET	
17	106-709	2	FLG LK NUT (M12-1.75)	
18	106-632	2	FLG LK SCR (M12-1.75X35MM,SER)	
19	105-826	3	FLG LK BOLT (3/8-NC X 1")	
20	116-460	21	BULK HOSE (1", SOLD PER FT)	
21	116-460	13	BULK HOSE (1", SOLD PER FT)	
22	116-460	41	BULK HOSE (1", SOLD PER FT)	
23	115-687	99	ABRASION SLEEVE, BLUE, 1.50" (SOLD PER FT)	USE 2 @ 12", 1 @ 16", 1 @ 24" & 1 @ 35"
24	116-460	44	BULK HOSE (1", SOLD PER FT)	

NOT SHOWN:

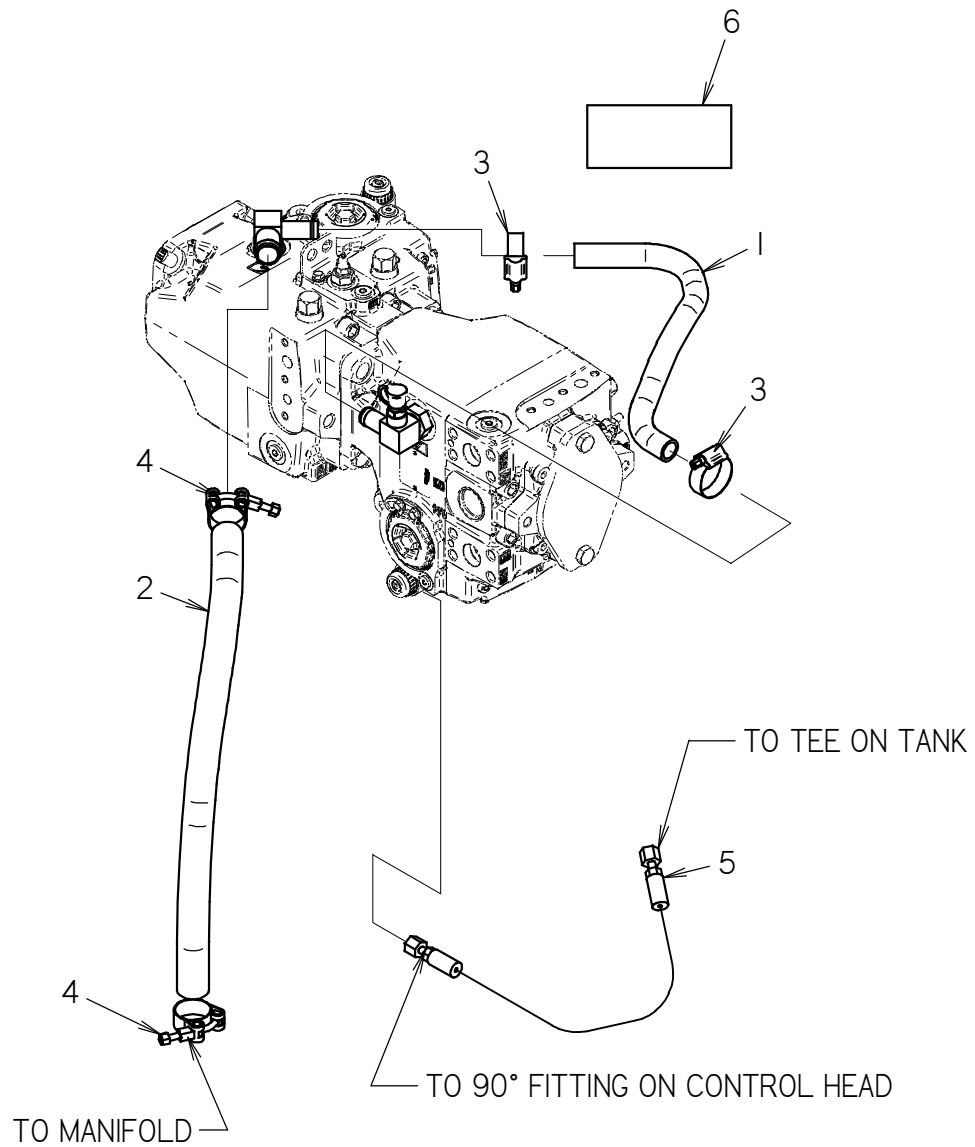
FOOTNOTES:

NOTE:

1. REFER TO O-RING CHART (800-301) IN BACK OF BOOK FOR REPLACEMENT OF O-RINGS.

# PUMP CASE DRAINS

## RT115 QUAD



# PUMP CASE DRAINS

## RT115 QUAD

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	116-636	18	BULK HOSE (3/4", SOLD PER FT)	
2	116-460	25	BULK HOSE (1", SOLD PER FT)	
3	111-011	2	WORM CLAMP (1" TO 1-3/4")	
4	111-027	2	T-BOLT CLAMP (1.25" - 1.50')	
5	154-783	1	HOSE (O40FX-24"-3000)	
6	115-733	1	ABRASION SLEEVE(SOLD PER FOOT)	

NOT SHOWN:

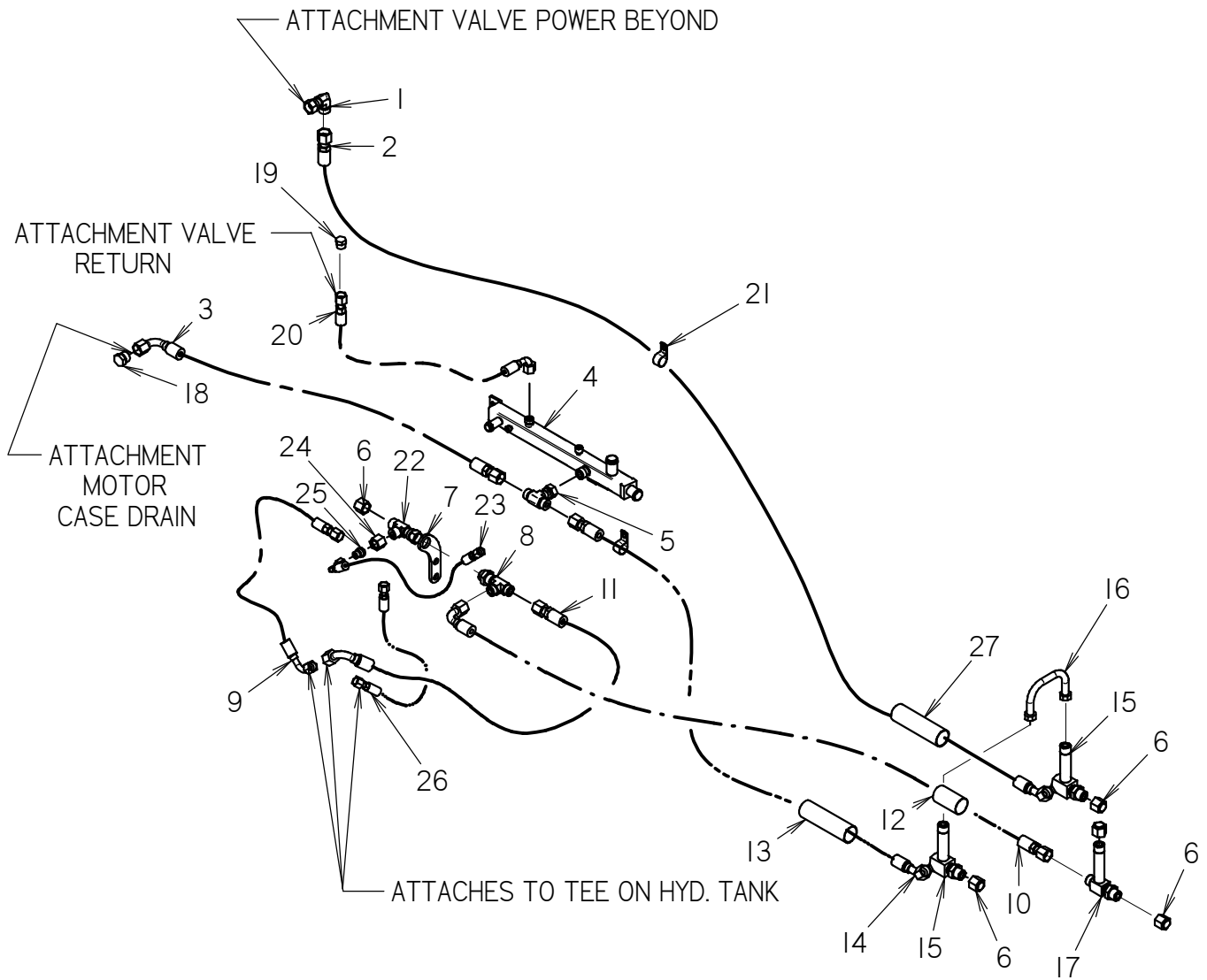
FOOTNOTES:

NOTE:

- I. REFER TO O-RING CHART (800-301) IN BACK OF BOOK FOR REPLACEMENT OF O-RINGS.



# RETURN HYDRAULICS RT115 QUAD



# RETURN HYDRAULICS

## RT115 QUAD

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	154-315	1	UNION (100-100FX90)	
2	150-1691	1	HOSE (100FX90S45-120"-3000)	
3	153-956	1	HOSE (100FX90-50"-3000)	
4	307-535	1	RETURN MANIFOLD	
5	154-325	1	UN BR TEE (100FX-100-100)	
6	154-324	5	CAP (100F)	
7	316-822	1	RETURN BRACKET	
8	154-319	1	BK RUN TEE (100)	
9	515-003	1	HOSE (080FX90-31"-3000)	STRAIGHT END OF HOSE ATTACHES TO GND DRIVE MOTOR CASE DRAIN
10	155-466	1	HOSE (100FX90-74"-2750)	
11	150-3102	1	HOSE (100FX90-40"-3000)	
12	115-755	1	ABRASION SLEEVE (1.59" X 60")	
13	115-938	1	ABRASION SLEEVE (1.59" X 66")	
14	150-1690	1	HOSE (100FX45-70"-3000)	
15	150-1546	2	BK RUN TEE (100-100-100L)	
16	150-1689	1	HYDRAULIC LINE (-10)	
17	153-984	1	BK RUN TEE (100-100-100L)	
18	154-332	1	PLUG (100)	
19	154-331	1	PLUG (080)	
20	515-025	1	HOSE (080FX90-40"-3000)	
21	110-333	2	BOLT-ON CLAMP (1")	
22	154-488	1	UN RUN TEE (100FX-100-100)	
23	154-737	1	HOSE (060FX90-17"-3000)	CONNECTS TO P.O. CHECK ON LEFT SIDE OF THE PUMP
24	154-310	1	REDUCER NUT (100F)	
25	154-451	1	REDUCER STEM (060)	
26	515-089	1	HOSE (060FX-15"-3000)	CONNECTS TO P.O. CHECK ON RIGHT SIDE OF THE PUMP
27	117-764	1	ABRASION SLEEVE (1.59" X 90")	

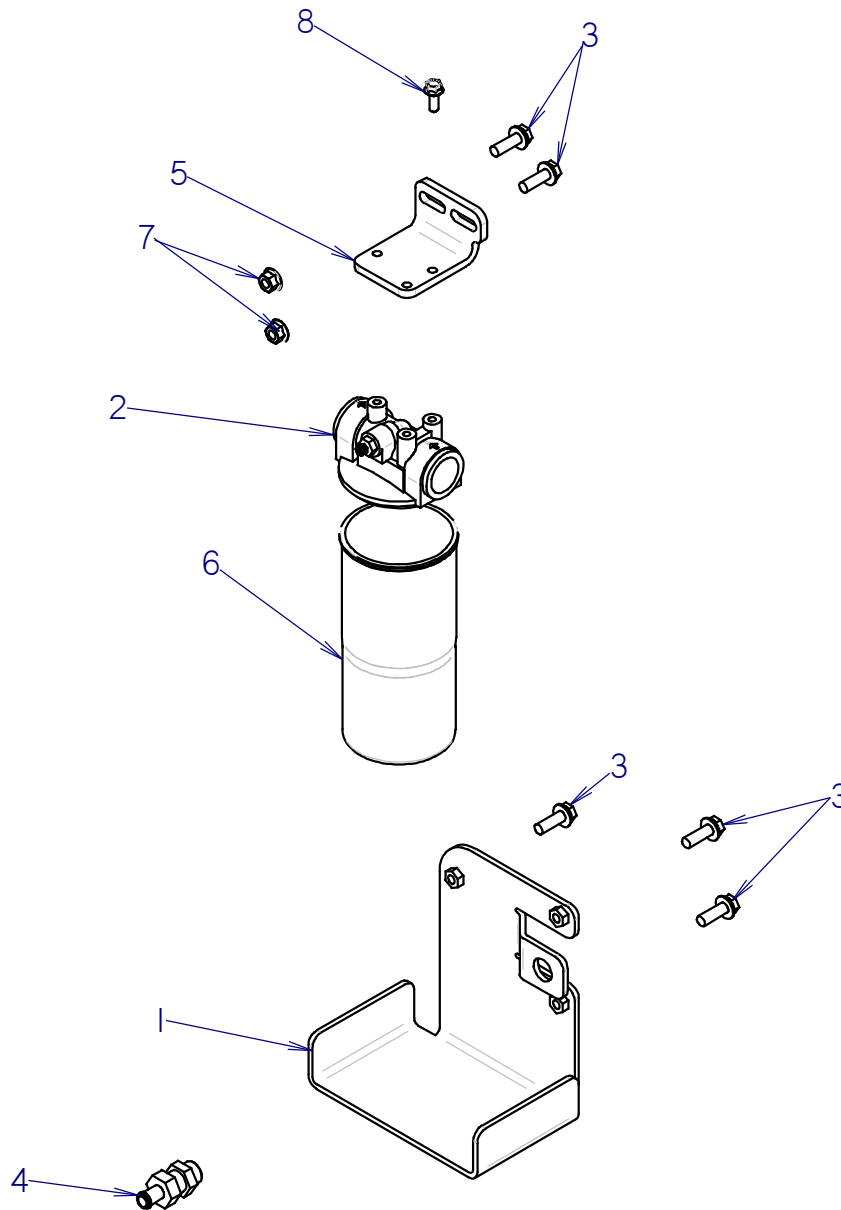
NOT SHOWN:

FOOTNOTES:

NOTE:

- REFER TO O-RING CHART (800-301) IN BACK OF BOOK FOR REPLACEMENT OF O-RINGS.

# HYDRAULIC FILTER GUARD



# HYDRAULIC FILTER GUARD

REF PART  
NO. NUMBER QTY DESCRIPTION

REMARKS

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	322-662	1	HYD FILTER GUARD	
2	157-345	1	FILTER HEAD	REFER TO FOOTNOTE 1
3	107-003	5	FLG LK SCREW (M12-1.75 X 35MM)	REFER TO FOOTNOTE 1
4	149-624	1	BK S/O COUPLER (100-10H)	REFER TO FOOTNOTE 1
5	306-862	1	BRACKET	REFER TO FOOTNOTE 1
6	153-792	1	FILTER ELEMENT (10 MICRON)	REFER TO FOOTNOTE 1
7	106-709	2	FLG LK NUT (M12-1.75)	REFER TO FOOTNOTE 1
8	105-826	3	FLG LK BOLT (3/8-NC X 1")	REFER TO FOOTNOTE 1

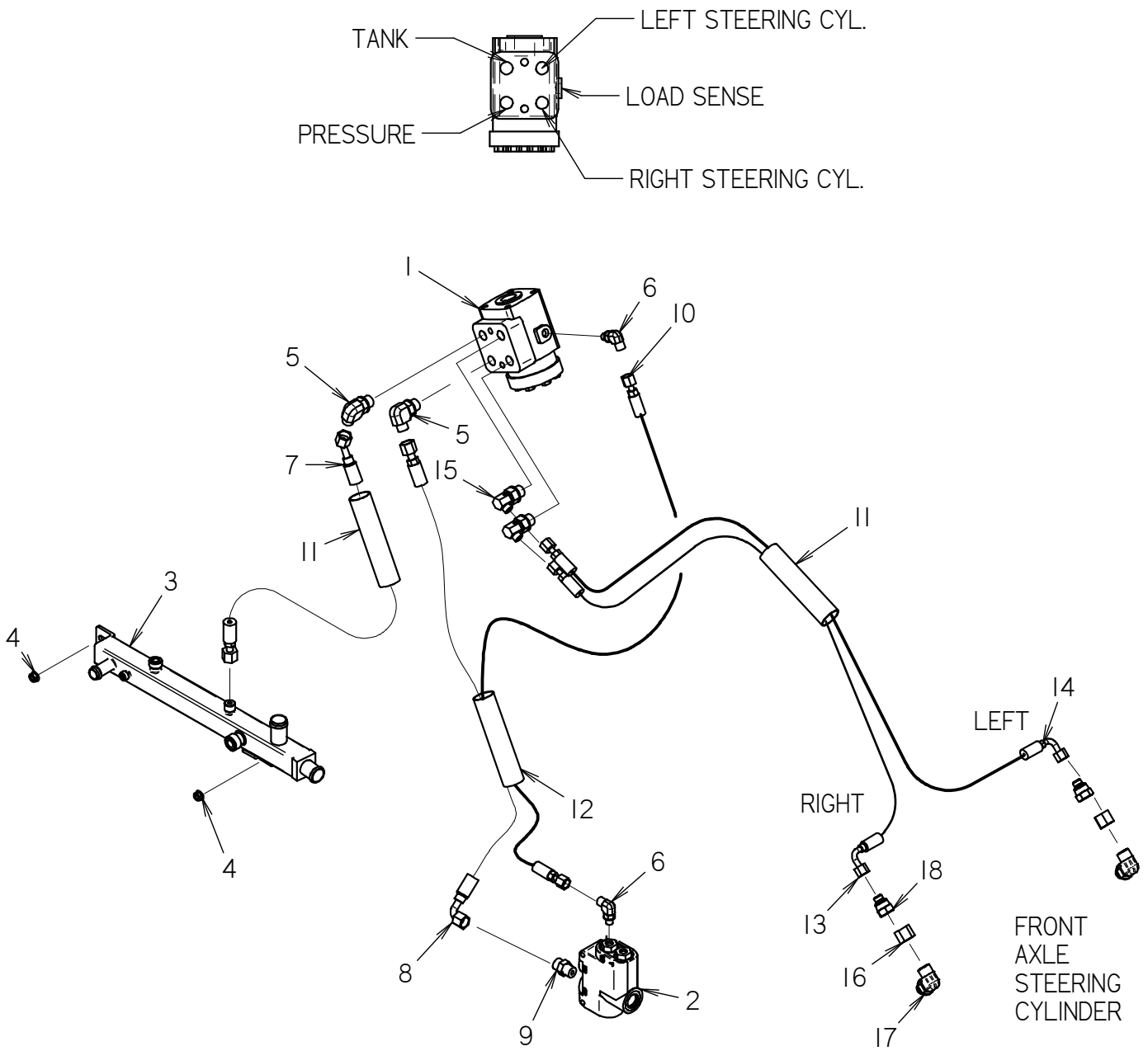
## FOOTNOTES

- FOR MORE DETAILS ON REF NO:S 2 THRU 8 REFER TO PARTS PAGE "HYDRAULIC FILTER".

## NOTE:

HYDRAULIC FILTER GUARD KIT #191-342 CONSIST OF 1X REF #1 AND 3X REF #3.

# POWER STEERING VALVE RT115 QUAD



# POWER STEERING VALVE

## RT115 QUAD

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	150-2361	1	POWER STEERING VALVE	
2	150-2362	1	PRIORITY VALVE	
3	307-535	1	RETURN MANIFOLD	
4	105-003	2	FLG LOCKNUT (5/16-NC)	
5	154-227	2	CONNECTOR (060-08S90)	
6	154-252	2	CONNECTOR (04S-04090)	
7	515-222	1	HOSE (060FX45-46"-3000)	
8	153-315	1	HOSE (060FX90S-36"-3000)	
9	154-222	1	CONNECTOR (060-08S)	
10	154-695	1	HOSE (040FX-38"-3000)	
11	117-214	2	ABRASION SLEEVE (1.25" X 40")	
12	117-396	1	ABRASION SLEEVE (1.25" X 28")	
13	116-804	1	HOSE (040FX90S-69"-3000)	
14	116-804	1	HOSE (040FX90S-69"-3000)	
15	154-276	2	CONNECTOR (040-08S90)	
16	154-272	2	REDUCER NUT (080F)	
17	159-595	2	ELBOW (M18X1.50-080)	
18	154-248	2	REDUCER STEM (040)	

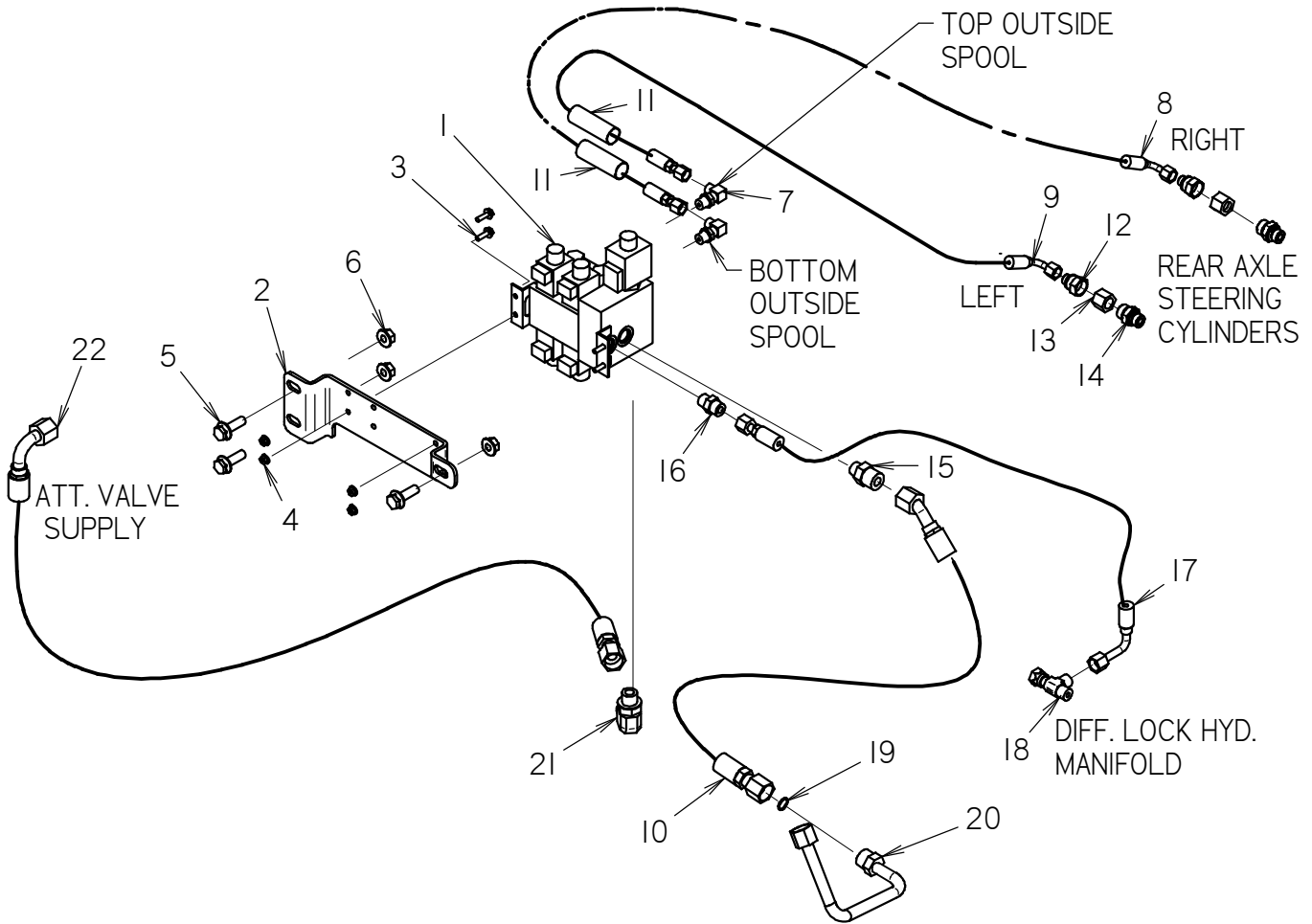
NOT SHOWN:

FOOTNOTES:

**NOTE:**

1. REFR TO O-RING CHART (800-301) IN BACK OF THE BOOK FOR REPLACEMENT OF O-RINGS.

# REAR STEER HYDRAULICS RT115 QUAD TRACK



# REAR STEER HYDRAULICS

## RT115 QUAD TRACK

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	153-786	1	HYDRAULIC VALVE (2-SPOOL)	
2	307-074	1	BRACKET	
3	106-379	1	FLG LK SCREW (M6-1.00 X 20MM)	
4	106-385	1	FLG LOCKNUT (M6-1.00)	
5	106-632	1	FLG LK SCR (M12-1.75X35MM,SER)	
6	106-709	1	FLG LK NUT (M12-1.75)	
7	157-334	2	CONNECTOR (O40-O6S90,ORF)	
8	515-462	1	HOSE (O40FX90-22"-3000-AR)	
9	515-462	1	HOSE (O40FX90-22"-3000-AR)	
10	153-907	1	HOSE (I100FX45-16"-3000)	
11	117-328	2	ABRASION SLEEVE (1.00" X 18")	
12	154-248	2	REDUCER STEM (O40)	
13	154-272	2	REDUCER NUT (O80F)	
14	159-623	2	CONNECTOR (M18X1.50-080)	
15	154-391	1	CONNECTOR (O8S-100)	
16	154-222	1	CONNECTOR (O60-O8S)	
17	153-320	1	HOSE (O60FX90L-17"-3000)	
18	154-344	1	UN RUN TEE (O60FX-060-060)	
19	157-040	1	O-RING (O16 D90)	
20	149-851	1	HYDRAULIC LINE (1-10)	
21	154-298	1	CONNECTOR (I10S-10090)	
22	515-129	1	HOSE (I100FX90-30"-3000)	

NOT SHOWN:

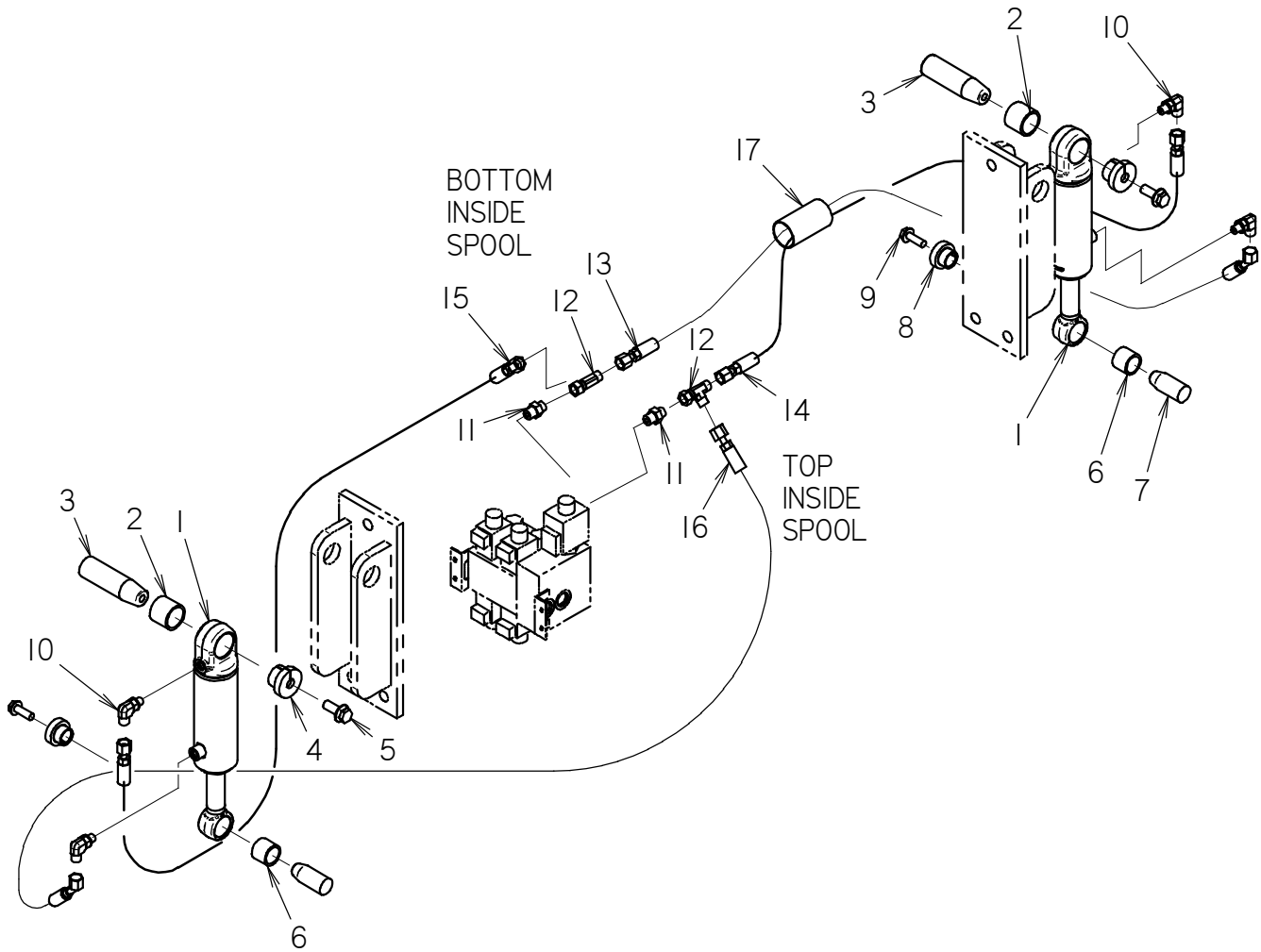
FOOTNOTES:

NOTE:

1. REFER TO "FRAME TILT HYDRAULICS" ID0252110 FOR MORE INFO.
2. REFER TO O-RING CHART (800-301) IN BACK OF BOOK FOR REPLACEMENT OF O-RINGS.



# FRAME TILT HYDRAULICS RT115 QUAD TRACK



# FRAME TILT HYDRAULICS

## RT115 QUAD TRACK

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	151-202	2	CYL (2.0" X 1.0" X 3.38")	
2	125-771	2	COMPOSITION BUSHING (1.25")	
3	183-765	2	TAPERED PIN (31.7MM X 110MM)	
4	181-982	2	TAPERED INSERT (1.25")	
5	106-469	2	FLG SCREW (M12-1.75 X 30MM)	
6	125-770	2	COMPOSITION BUSHING (1.000")	
7	183-767	2	TAPERED PIN (1.000" X 2.36")	
8	181-981	2	TAPERED INSERT (1")	
9	106-164	2	FLG LK SCREW (M10-1.50 X 30MM)	REFER TO FOOTNOTE 1
10	154-252	4	CONNECTOR (O4S-O4O9O)	
11	154-385	2	CONNECTOR (O4O-O6S, ORF)	
12	154-265	2	UNION RUN TEE (O4OFX-O4O-O4O)	
13	515-019	1	HOSE (O4OFX45-34"-3000)	
14	515-229	1	HOSE (O4OFX-34"-3000)	
15	154-702	1	HOSE (O4OFX-30"-3000)	
16	154-963	1	HOSE (O4OFX45-24"-3000)	
17	115-811	1	ABRASION SLEEVE (1.59" X 20")	

NOT SHOWN:

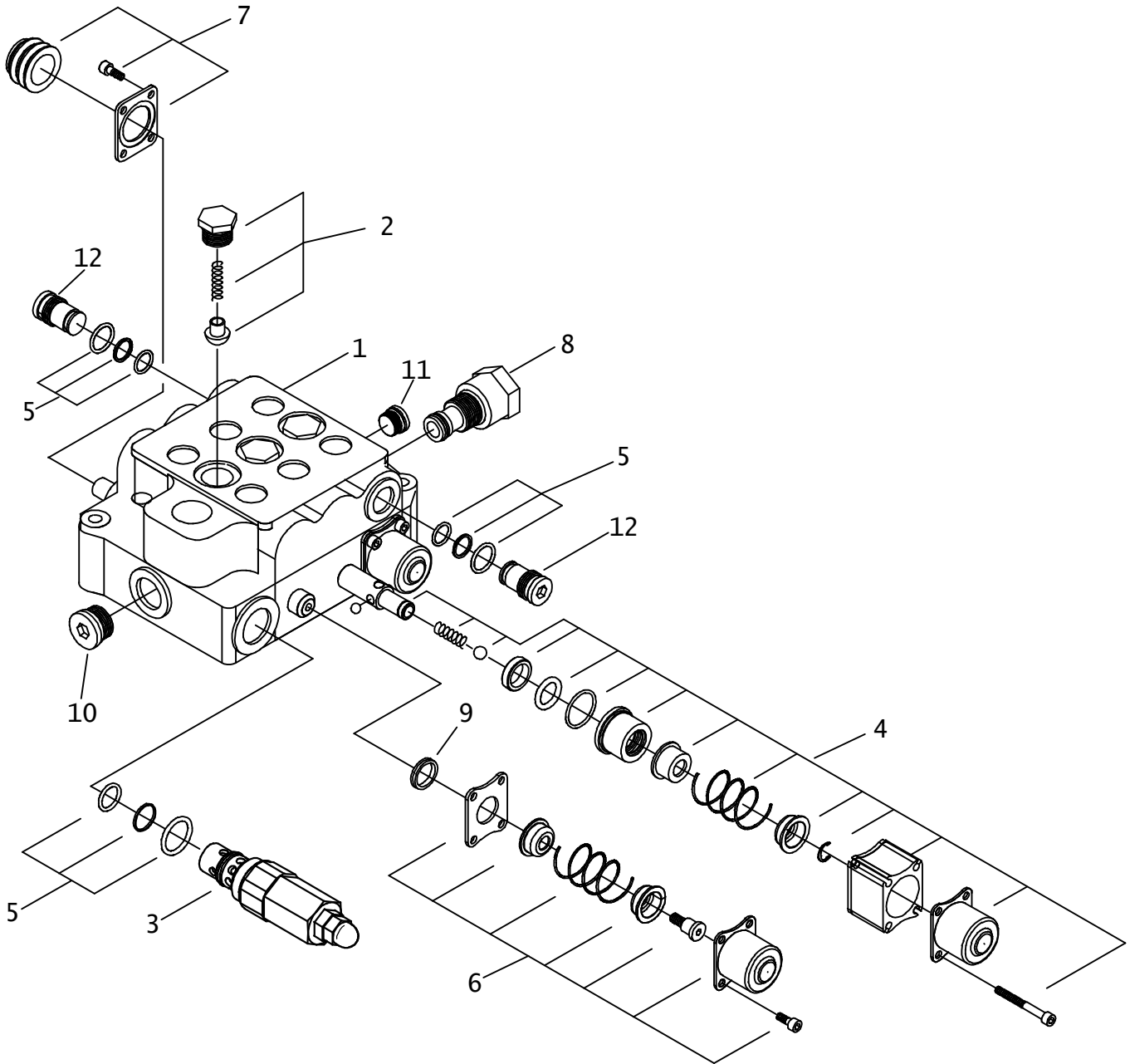
FOOTNOTES:

1. WHEN NOT EQUIPPED WITH FRAME TILT USE 2X 154-384, PLUG (O6S). REMAINING PARTS SHOWN ARE NOT USED.

NOTE:

1. REFER TO "REAR STEER HYD" ID0251036 FOR MORE INFO.
2. REFER TO O-RING CHART (800-301) IN BACK OF BOOK FOR REPLACEMENT O-RINGS.

# HYDRAULIC CONTROL VALVE 3 SPOOL UPPER VALVE



# HYDRAULIC CONTROL VALVE

## 3 SPOOL UPPER VALVE

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	159-809	1	HYD CONTROL VALVE (3-SPOOL)	
2.	500-933	3	LOAD CHECK PLUG KIT	
3.	500-1825	1	V10 INLET RELIEF CARTRIDGE 3000 PSI	
4.	500-935	1	FLOAT POSITIONER KIT	
5.	500-928	3	SEAL REPAIR KIT	
6.	500-934	2	SPOOL POSITIONER KIT	
7.	191-153	3	SPOOL BOOT KIT	
8.	191-157	1	POWER BEYOND SLEEVE	
9.	191-151	6	SPOOL LIP SEAL KIT	
10.	155-179	1	PLUG (10S, SOC)	
11.	154-384	1	PLUG (06S)	
12.	599-279	2	WORK PORT NR PLUG KIT	SEE FOOTNOTE 1

NOT SHOWN:

FOOTNOTES:

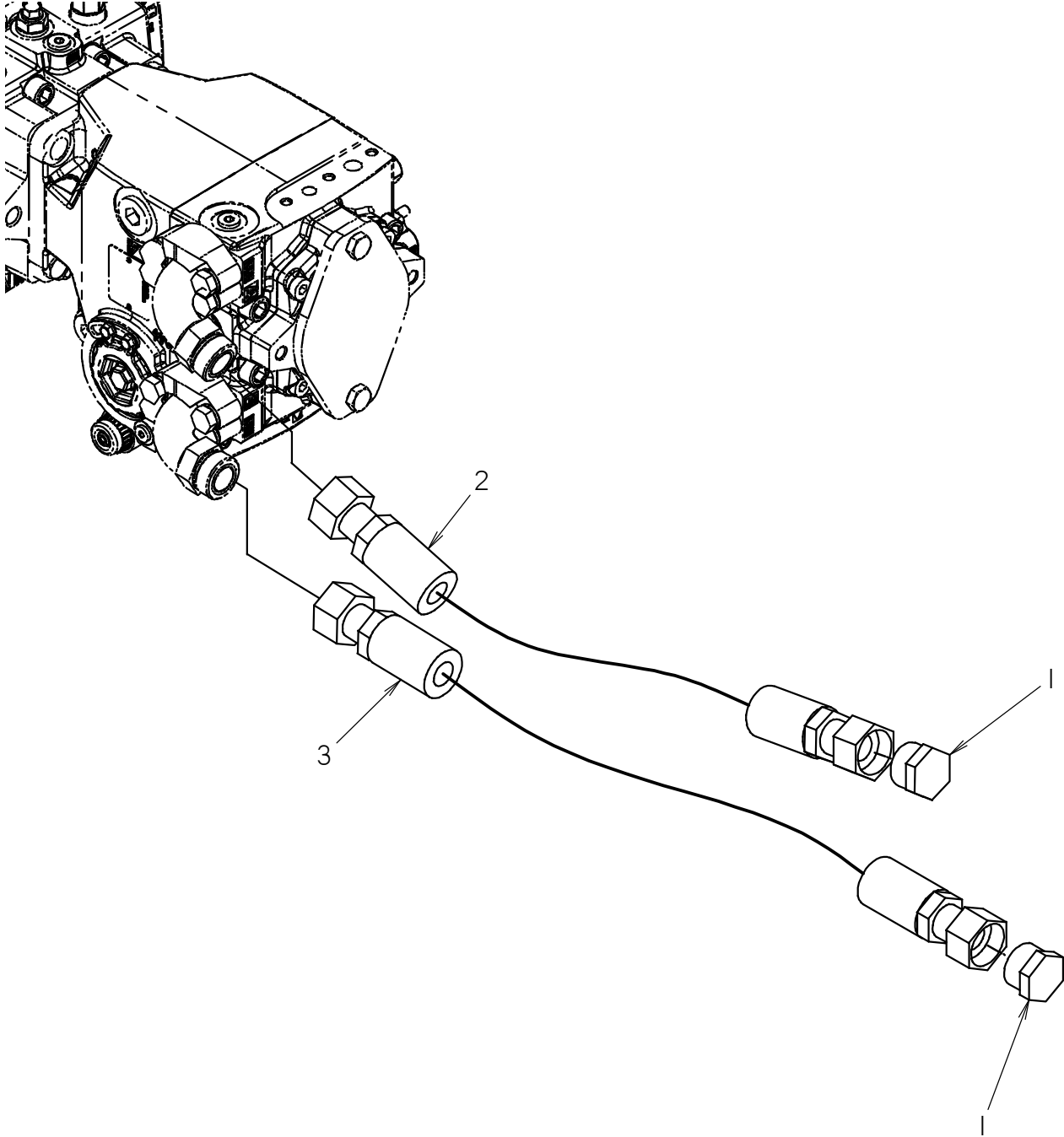
1. EARLY PRODUCTION VALVES HAVE A MACHINED WORK PORT WITH A PLUG INSTALLED, FUTURE PRODUCTION VALVES WILL NOT HAVE A MACHINED WORK PORT.

NOTE:

REFER TO O-RING CHART (800-301) IN BACK OF THE BOOK FOR REPLACEMENT OF O-RINGS.

# ATTACHMENT DRIVE HYDRAULICS

## RT115 QUAD



# ATTACHMENT DRIVE HYDRAULICS RT115 QUAD

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	154-334	2	PLUG (160)	
2	150-3184	1	HOSE (160FX-41"-6000)	
3	150-3184	1	HOSE (160FX-41"-6000)	

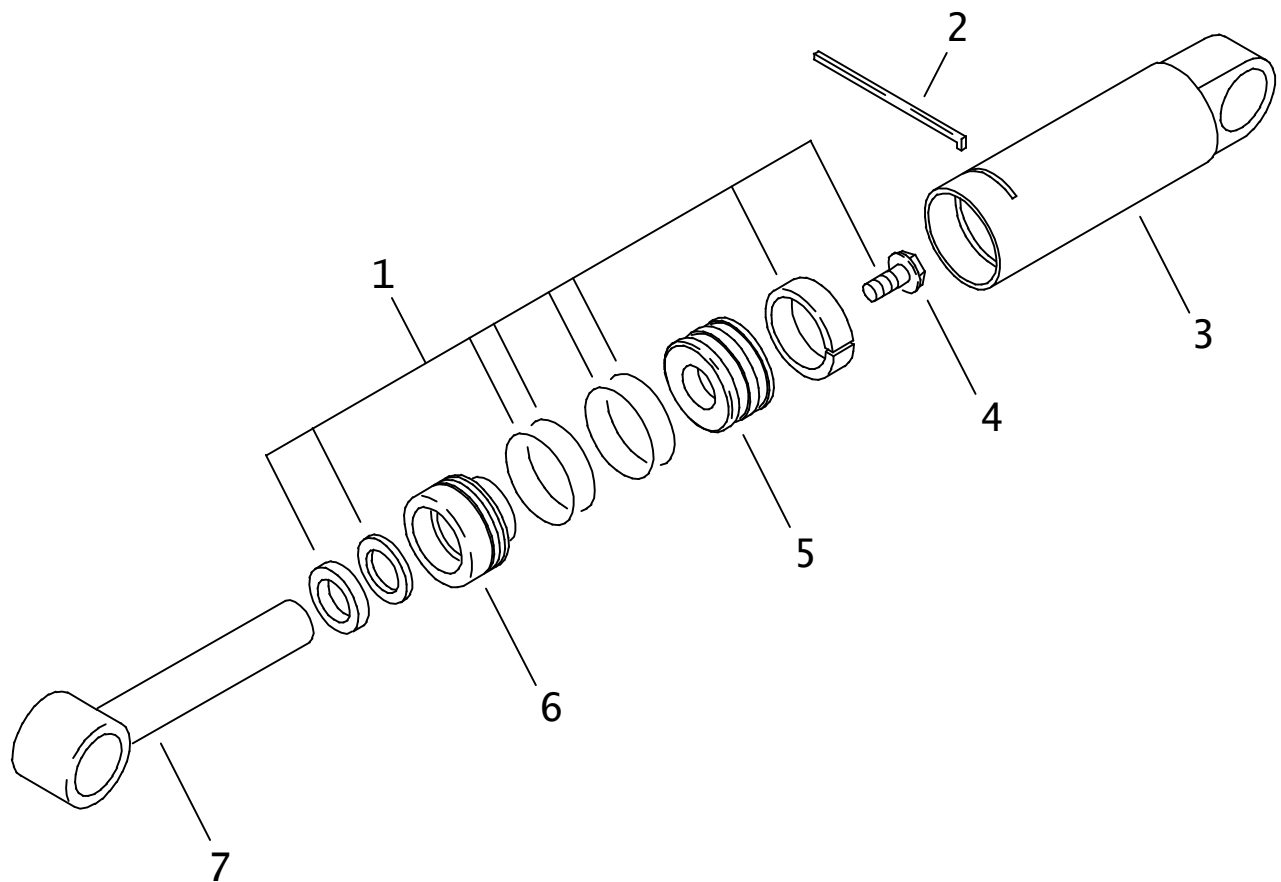
NOT SHOWN:

FOOTNOTES:

NOTE:  
REFER TO O-RING CHART (800-301) IN BACK OF BOOK FOR REPLACEMENT OF O-RINGS.

# HYDRAULIC CYLINDER

2.0" X 1.00" X 3.38"



# HYDRAULIC CYLINDER

## 2.0" X 1.00" X 3.38"

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	151-202		HYD CYL (2" X 1" X 3.38")	INCLUDES REF NO'S 1 THRU 7
1.	190-165	1	SEAL REPAIR KIT (2" X 1")	
2.	150-778	1	LOCK RING (2")	
3.	150-700	1	CYLINDER BARREL	
4.	106-096	1	FLG BOLT (1/2-NC X 1-3/4",GD8)	SEE FOOTNOTE 1
5.	150-775	1	CYLINDER PISTON (2" X 1")	
6.	150-772	1	CYLINDER HEAD (2" X 1")	
7.	150-698	1	CYLINDER ROD	

### NOT SHOWN:

259-100	U-SEAL INSTALLER (1"-1.499")
259-188	CYL HEAD SPANNER - TWO PIN
259-239	WIPER SEAL INSTALLER (2")
259-241	PISTON INSTALLER (2")

### FOOTNOTES

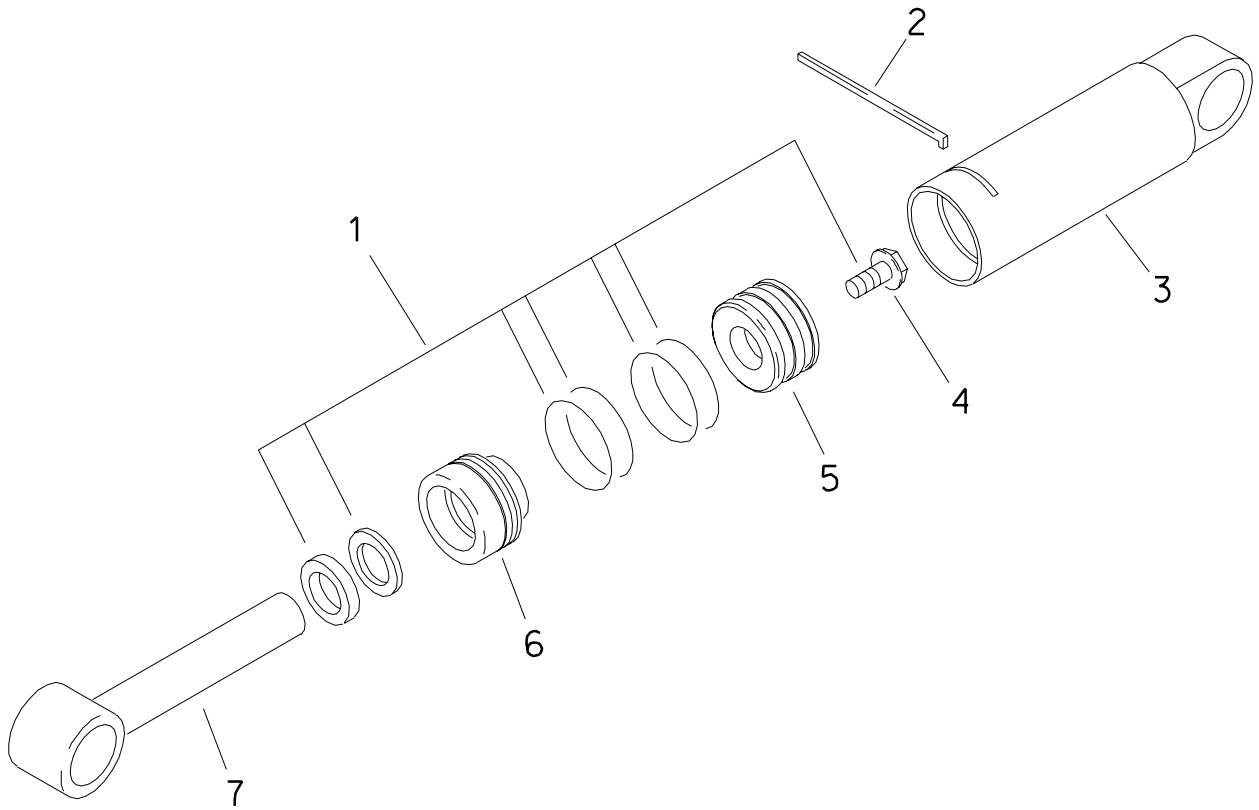
1. APPLY LOCTITE 271 OR 277. TORQUE TO 90-100 FT-LBS (120-135 N.M.)

### NOTE:



# HYDRAULIC CYLINDER

2" X 1.25" X 8"



# HYDRAULIC CYLINDER

2" X 1.25" X 8"

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	151-057		HYD CYLINDER (2" X 1.25" X 8")	INCL REF NO.'S 1 THRU 7
1.	190-169	1	SEAL REPAIR KIT (2.0" X 1.25")	
2.	150-778	1	LOCK RING (2.0")	
3.	150-285	1	CYLINDER BARREL (2")	
4.	106-097	1	FLG BOLT (5/8-NC X 1-3/4",GD8)	SEE FOOTNOTE 1
5.	150-771	1	CYLINDER PISTON (2" X 1.25")	SEE FOOTNOTE 2
6.	150-770	1	CYLINDER HEAD (2" X 1.25")	
7.	150-427	1	CYLINDER ROD	

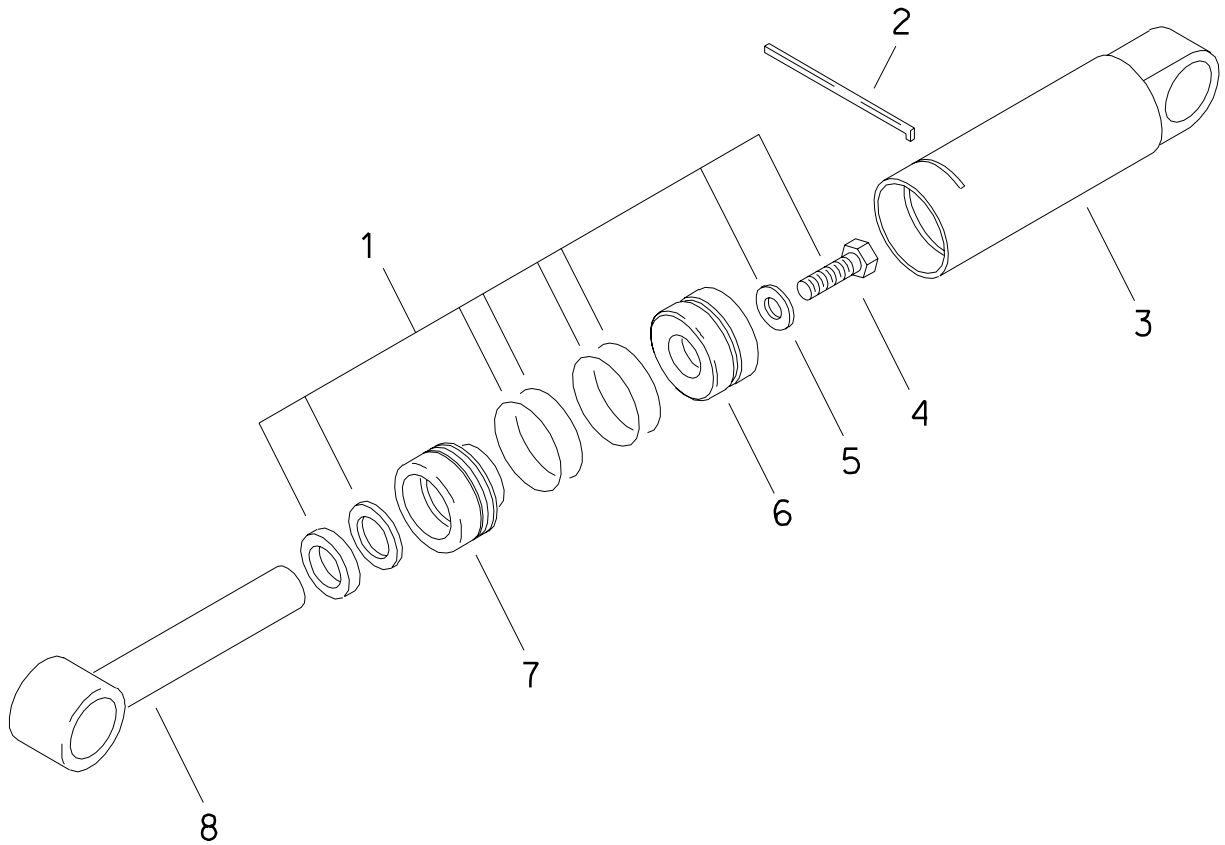
NOT SHOWN:

259-100	U-SEAL INSTALLER (1"-1.499")
259-236	WIPER INSTALLER (1.25")
259-239	WIPER/SEAL INSTALLER (2")
259-241	PISTON INSTALLER (2")
259-188	CYLINDER HEAD SPANNER - TWO PIN

- FOOTNOTES
1. USE LOCTITE 277, AND TORQUE TO 180-200 FT-LBS (245-270 N.M)
  2. INCLUDES MOLDED-ON WEAR RING, H.P. SEAL, AND O-RING.

# HYDRAULIC CYLINDER

3" X 1.75" X 8"



# HYDRAULIC CYLINDER

3" X 1.75" X 8"

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	151-070		CYL (3.0" X 1.75" X 8.0")	INCL REF NO.'S 1 THRU 7
1.	190-172	1	SEAL REPAIR KIT (3.0" X 1.75")	INCL REF NO.'S 4 THRU 5
2.	150-911	1	LOCK RING (3")	
3.	152-014	1	CYLINDER BARREL (3")	
4.	106-122	1	BOLT (7/8-NC X 2-1/4", GD8)	SEE FOOTNOTE 1
5.	105-363	1	WASHER (7/8")	
6.	150-765	1	CYLINDER PISTON (3" X 1.75")	INCL MOLDED-ON WEAR RING
7.	150-763	1	CYLINDER HEAD (3" X 1.75")	
8.	150-436	1	CYLINDER ROD (1.75")	

NOT SHOWN:

	259-040		U-SEAL INSTALLER (1.5" - UP)	
	259-238		WIPER INSTALLER (1.75")	
	259-065		PISTON SEAL INSTALLER (3")	
	259-066		PISTON INSTALLER (3")	
	259-188		CYL HEAD SPANNER - TWO PIN	

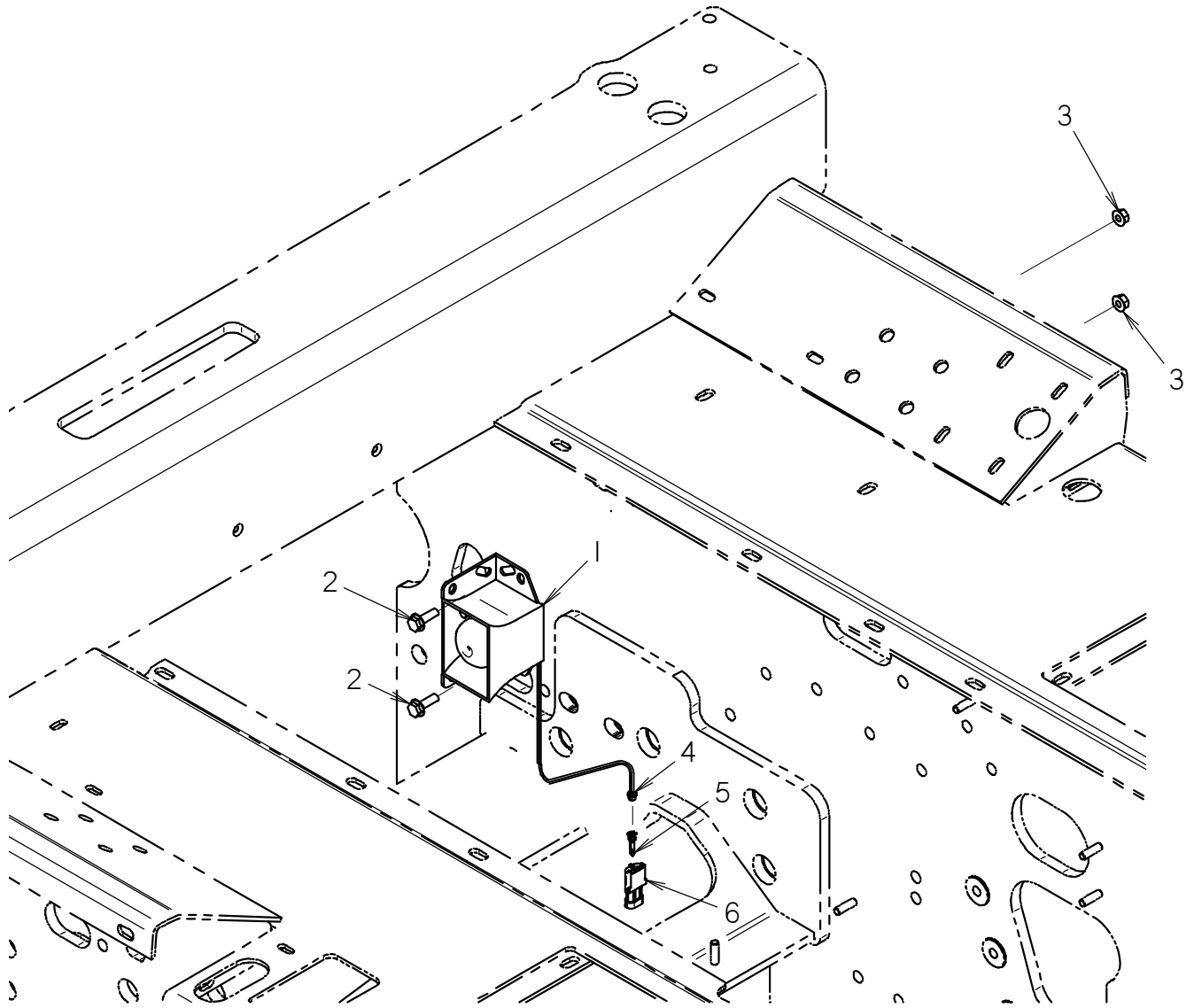
FOOTNOTES

1. CLEAN & DRY THREADS. APPLY RED LOCTITE (RC 271 OR RC 272). TORQUE TO 410-460 FT-LBS (560-625 N.M.)



# **ELECTRICAL**

# BACK UP ALARM RT115 QUAD TRACK



# BACK UP ALARM

## RT115 QUAD TRACK

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	350-2155	-	BACKUP ALARM KIT	INCLUDES REF. #1 THRU 6.
1	306-602	1	ALARM	
2	106-381	2	FLG LK SCREW (M8-1.25 X 25MM)	
3	106-386	2	FLG LOCKNUT (M8-1.25)	
4	157-645	2	WEATHER-PAC SEAL (2.80MM)	
5	214-104	2	PACKARD MALE TERMINAL	
6	214-103	1	(2-WAY) MALE CONNECTOR	

NOT SHOWN:

FOOTNOTES:

NOTE:





# MISCELLANEOUS

# SAE Bolt and Nut Torque Value Chart

## Grade 5: UNC or UNF Thread

Size	Hex nut, or bolt tapped into hex nut, or d&t hole		Hex top deformed locknut		Flange nut, locknut, or bolt tapped into flange nut or d&t* hole	
	ft•lb	N•m	ft•lb	N•m	ft•lb	N•m
1/4	12	16	8	11	20	27
5/16	25	34	15	20	45	60
3/8	40	54	25	34	75	100
7/16	65	90	40	55	125	170
1/2	100	135	60	80	190	260
9/16	150	200	90	125	270	370
5/8	200	270	120	165	370	500
3/4	350	475	210	285	650	880
7/8	560	760	340	460	1250	1425
1	840	1140	500	680	1580	2145
1-1/8	1030	1400	320	840	1950	3645
1-1/4	1460	1980	880	1195	2760	3475

## Grade 8: UNC or UNF Thread

Size	Hex nut, or bolt tapped into hex nut, or d&t hole		Hex top deformed locknut		Flange nut, locknut, or bolt tapped into flange nut or d&t* hole	
	ft•lb	N•m	ft•lb	N•m	ft•lb	N•m
1/4	14	19	10	14	24	33
5/16	30	40	18	25	50	70
3/8	55	73	35	50	90	125
7/16	85	115	50	70	140	190
1/2	130	175	80	110	220	300
9/16	190	260	110	150	310	420
5/8	260	355	160	245	430	585
3/4	450	610	270	365	750	1015
7/8	730	990	440	600	1210	1640
1	1090	1480	650	880	1320	2465
1-1/8	1550	2100	930	1260	2580	3500
1-1/4	2180	2955	1310	1780	3640	4935

\*drilled and tapped

# Metric Bolt and Cap Screw Torque Values

Size	Class 4.8				Class 8.8 and 9.8				Class 10.9				Class 12.9			
	Lubricated		Dry		Lubricated		Dry		Lubricated		Dry		Lubricated		Dry	
	N•m	ft•lb	N•m	ft•lb	N•m	ft•lb	N•m	ft•lb	N•m	ft•lb	N•m	ft•lb	N•m	ft•lb	N•m	ft•lb
M6	4.8	3.5	6	4.5	9	6.5	11	8.5	13	9.5	17	12	15	11.5	19	14.5
M8	12	8.5	15	11	22	16	28	20	32	24	40	30	37	28	47	35
M10	23	17	29	21	43	32	55	40	63	47	80	60	75	55	95	70
M12	40	29	50	37	75	55	95	70	110	80	140	105	130	95	165	120
M14	63	47	80	60	120	88	150	110	175	130	225	165	205	150	260	190
M16	100	73	125	92	190	140	240	175	275	200	350	225	320	240	400	300
M18	135	100	175	125	260	195	330	250	375	275	475	350	440	325	560	410
M20	190	140	240	180	375	275	475	350	530	400	675	500	625	460	800	580
M22	260	190	330	250	510	375	650	475	725	540	925	675	850	625	1075	800
M24	330	250	425	310	650	475	825	600	925	675	1150	850	1075	800	1350	1000
M27	490	360	625	450	950	700	1200	875	1350	1000	1700	1250	1600	1150	2000	1500
M30	675	490	850	625	1600	950	1650	1200	1850	1350	2300	1700	2150	1600	2700	2000
M33	900	675	1150	850	1750	1300	2200	1650	2500	1850	3150	2350	2900	2150	3700	2750
M36	1150	850	1450	1075	2250	1650	2850	2100	3200	2350	4050	3000	3750	2750	4750	3500

Do not use these values if a different torque value or tightening procedure is given for specific application. Torque values listed are for general use only. Check tightness of fasteners periodically.

Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical property class fasteners.

Fasteners should be replaced with the same or higher property class. If higher property class fasteners are used, these should only be tightened to strength of original.

Make sure fastener threads are clean and that the threads are properly started. This will prevent them from cross threading or galling when tightened.

Tighten plastic insert or crimped type steel locknuts to approximately 50% of dry torque indicated on chart. Apply torque to the nut - not the bolt head. Tighten toothed or serrated type locknuts to full torque value.

LUBRICATED means coated with lubricant. DRY means plain or zinc plated without any type of lubricant.

## Hydraulic Cylinder Bolt Torque Chart

Bolt Size (inch)	Bolt Part No.	Cylinder Repair Kit Part No.	Torque (ft•lb)	Torque (N•m)
1/2	106-096	190-165	90-100	120-135
5/8	106-097	190-166 & 190-169	180-200	245-270
3/4	106-098	190-167 & 190-170	290-325	395-440
7/8	106-122	190-172 & 190-174	410-640	550-625
1	106-145	190-175 & 190-189	630-700	855-950
1-1/8	106-146	190-177	770-850	1045-1170

As a general rule:

- 1/2-inch bolts are used in cylinders with 1-inch rods
- 5/8-inch bolts are used in cylinders with 1 1/4-inch rods
- 3/4-inch bolts are used in cylinders with 1 1/2-inch rods
- 7/8-inch bolts are used in cylinders with 1 3/4-inch rods
- 1-inch bolts are used in cylinders with 2-inch rods (one with 1 3/4-inch)
- 1-1/8-inch bolts are used in cylinders with 2-1/4-inch rods

**IMPORTANT:** Do not reuse cylinder piston bolts when rebuilding a hydraulic cylinder. Each cylinder repair kit contains a new bolt. Use it. Lubricate lightly and torque to value shown on chart.

# SAE & ORS Hydraulic Fitting Replacement O-Ring Chart

Fraction Size	Dash Size	SAE (Port Seal O-Ring)		ORS (Face Seal O-Ring)	
		Thread Size	O-Ring P/N	Thread Size	O-Ring P/N
1/16	1	NA	NA	NA	NA
1/8	2	5/16 - 24	NA	NA	NA
3/16	3	3/8 - 24	NA	NA	NA
1/4	4	7/16 - 20	155-760	9/16 - 18	157-037
5/16	5	1/2 - 20	NA	NA	NA
3/8	6	9/16 - 18	155-705	11/16 - 16	157-038
1/2	8	3/4 - 16	155-706	13/16 - 16	157-039
5/8	10	7/8 - 14	155-707	1 - 14	157-040
3/4	12	1-1/16 - 12	155-709	1-3/16 - 12	157-017
7/8	14	1-3/16 - 12	155-747	NA	NA
1	16	1-5/16 - 12	155-748	1-7/16 - 12	155-714
1-1/4	20	1-5/8 - 12	155-702	1-11/16 - 12	NA
1-1/2	24	1-7/8 - 12	157-001	2 - 12	NA
2	32	2-1/2 - 12	NA	NA	NA
2-1/2	40	3 - 12	NA	NA	NA
3	48	3-1/2 - 12	NA	NA	NA

Thread size indicates the diameter of the threaded area in fractions of an inch and number of threads per inch.

NA = not a current CMW part numbered o-ring, or dash size does not occur in current CMW applications

SAE = straight thread fitting that seals by sandwiching a hard o-ring between a shoulder on the male part and an angular surface at the mouth of the female port.

ORS = o-ring face seal; a type of fitting that seals by compressing a hard, captive o-ring between two flat parallel faces, one grooved for the o-ring and the other plain to act as the sealing surface

# RT115Q

## Related Publications

Component	Ass'y	P/N
<b>Model:</b>		
RT115Q..... Parts Manual .....		053-2236
RT115Q..... Operators Manual .....		053-2255
RT115Q ..... Repair Guide (Service Manual) .....		055-075
RT115Q ..... Special Tools Guide .....		052-901
RT115Q ..... Technical Supplement .....		053-2260
<b>Engine:</b>		
John Deere ..... Operators Manual – PE4045HF285.....	195-1087 ..	053-1233

## Filters

<b>Engine:</b>		
Air Filter Parts Ass'y .....		194-121
Element (primary) .....		194-147
Element (secondary) .....		194-148
Oil Filter Element (spin-on) - John Deere .....		194-478
Fuel Filter Element (slip-on) - .....		155-941
Primary Filter Sediment Bowl .....		194-493
Primary Fuel Filter Element-John Deere.....		195-1171
Secondary Fuel Filter Element-John Deere.....		195-1172
<b>Hydraulic:</b>		
Oil Filter Element (1-1/2-UNF, spin-on, Replacement) .....		153-792
Element (1-1/2-UNF, spin-on, Break-In) .....		153-791

## Optional Kits

O-ring Repair Kit - FLG, ORS & SAE (15 different O-rings) .....	190-051
O-ring Repair Kit - Field Service (46 different O-rings) .....	190-052



# Ditch Witch®

## Parts Manual Change Request

(Please print clearly)

Date: \_\_\_\_\_ Dealer No. (required): \_\_\_\_\_

Your Name: \_\_\_\_\_ Position: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_

### Publication Information:

Parts Manual No.: \_\_\_\_\_ - \_\_\_\_\_ Model: \_\_\_\_\_

Illustration Part No.:	Manual Page No.:
1. _____ - _____ .....	1. _____
2. _____ - _____ .....	2. _____
3. _____ - _____ .....	3. _____

Nature of Change Request:

- Text
- Graphics
- Missing Information

Describe change requested (if possible, include copy of publication page with changes marked.):

---



---



---



---



---



---

Please fax completed form to  
Parts Manual Department (580) 572-3525

*Thank you for taking the time to submit this request. We will contact you if further information is needed to process your request.*





**A Note To  
Ditch Witch  
Equipment Owners:**

If your equipment was purchased through a Ditch Witch dealer, there is no need to read further.

However, if you purchased from any other source, please fill out the form on the reverse side and return it to us.

This will enable you to receive updates on this equipment as well as information on new products of interest.

Thanks for using Ditch Witch equipment.

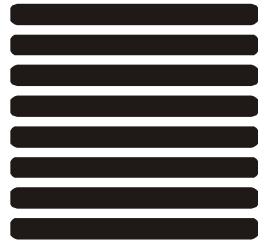
(Please Fold Along This Line And Seal At Bottom With Tape)



**NO POSTAGE  
NECESSARY  
IF MAILED  
IN THE  
UNITED STATES**

**BUSINESS REPLY MAIL**  
FIRST CLASS      PERMIT NO 23      PERRY OKLAHOMA

POSTAGE WILL BE PAID BY



**The Charles Machine Works, Inc.  
P.O. Box 66  
Perry, Oklahoma 73077-9989**



# Ditch Witch® Registration Card

Please Type or Print All Information

---

Purchaser's Company Name

---

Attention

---

Street Address or P.O. Box

---

City

County

---

State

Zip

Nation

---

(       )

Phone Number With Area Code

---

Model

Serial Number

---

Attachments/Accessories

Serial Numbers

---

Attachments/Accessories

Serial Numbers

---

Attachments/Accessories

Serial Numbers

---

Name of Ditch Witch Dealership

---

Your Signature