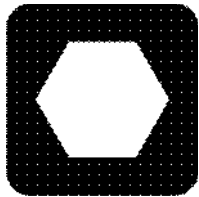


5700

Parts Manual



Ditch Witch®

5700

ISSUE NO. 07PL-03/16

For Replacement Copy Order **P/N 053-476**

This product and its use may be covered by one or more patents at <http://patents.charlesmachine.works>.

This manual contains information concerning the following models:
5700 Trencher

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

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FOREWORD

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

- Descriptions 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.
- Part numbers enclosed in a box or marked as “obsolete” in the remarks column 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 referenced in footnotes are available through your local Ditch Witch dealer.
- 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 Ditch Witch 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 replacement parts.



A CHARLES MACHINE WORKS COMPANY

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 it's 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.

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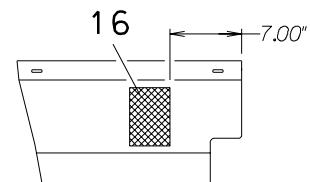
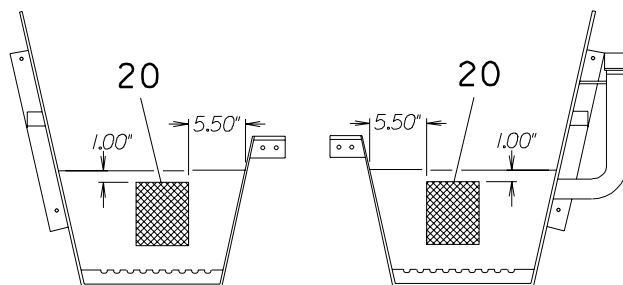
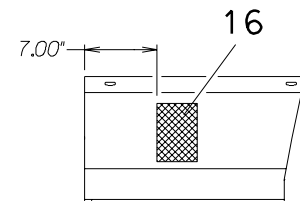
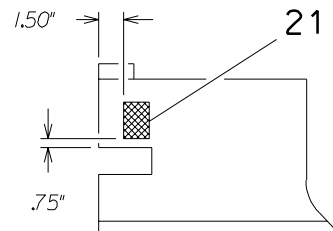
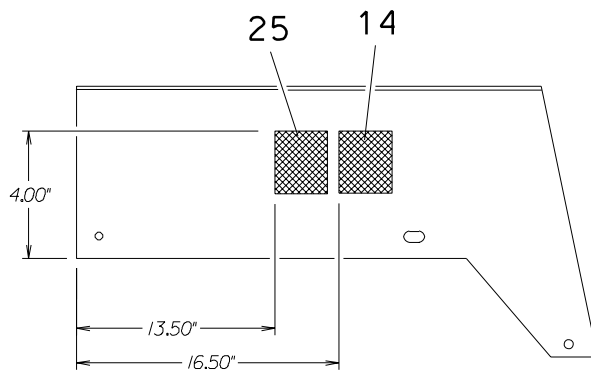
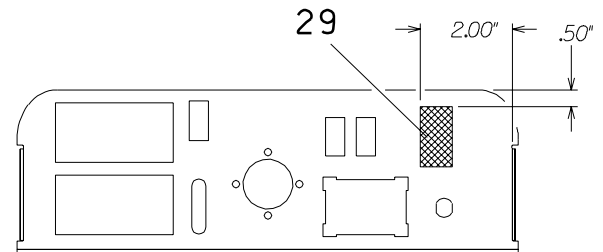
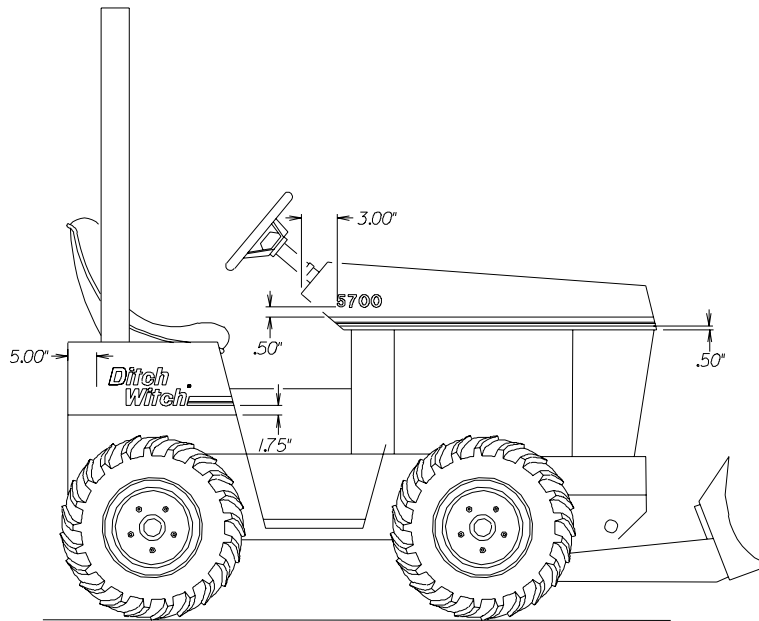
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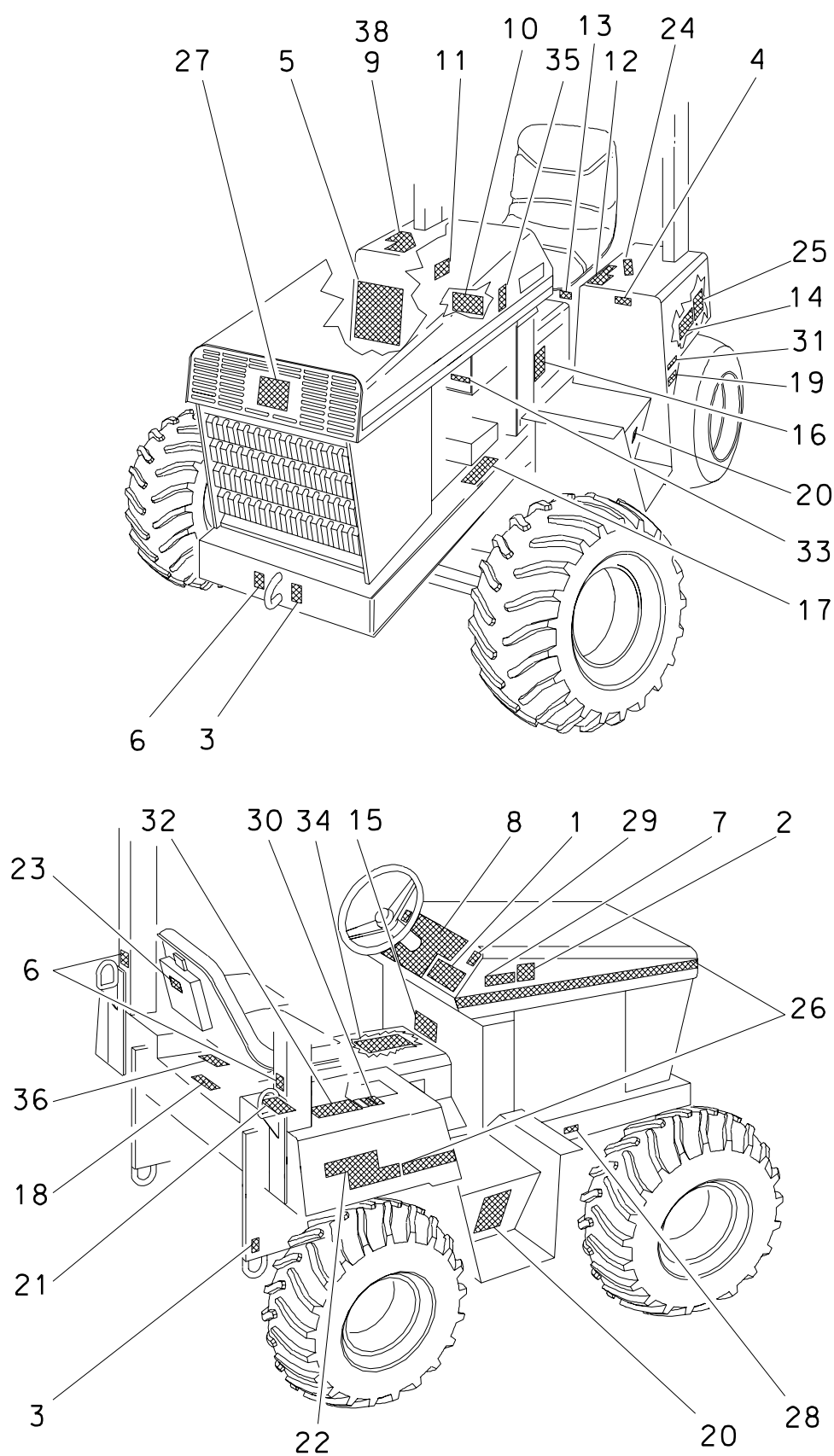
DECALS

DECAL LOCATION 5700



DECAL LOCATION

5700



DECAL LOCATION

5700

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	275-625		DECAL KIT - 5700	
1.	274-220	1	INTERLOCK DISPLAY	
2.	274-291	1	SOUND POWER 10	SEE FOOTNOTE 1
3.	274-318	3	TIE DOWN LOCATION	
4.	274-375	1	MASTER DISCONNECT SWITCH	SEE FOOTNOTE 1
5.	274-624	1	4500 5700 LUBRICATION	
6.	274-442	3	LIFT LOCATION	
7.	274-654	2	5700 MODEL-ID	
8.	274-633	1	CONSOLE	
9.	274-634	1	CONTROL VALVE	OLD STYLE. NOT PART OF KIT.
10.	274-643	1	FUSE BLOCK	SEE FOOTNOTE 2
11.	274-735	1	RELAY DIAGRAM	SEE FOOTNOTE 2
12.	274-736	1	ATTACHMENT CONTROL 3700 5700	
13.	275-023	1	OIL LEVEL	
14.	275-033	1	NOTICE ELECTRICAL SYSTEM	
15.	275-048	1	IMPORTANT SAFETY RULES	
16.	275-070	2	WARNING RUNAWAY	
17.	275-100	1	MANIFOLD	
18.	275-120	1	RESERVOIR (THF)	
19.	275-148	1	FUEL TANK (DIESEL)	
20.	275-185	2	WARNING SINGLE OPERATOR	
21.	275-303	1	WARNING ROLLOVER	
22.	274-696	2	DITCH WITCH ® LOGOTYPE	
23.	275-310	1	DITCH WITCH EMBLEM	
24.	275-361	1	PARKING BRAKE	
25.	275-419	1	WARNING NO FLAME	
26.	275-430	1	STRIPE (1.437", SOLD PER 1")	USE 118"
27.	275-449	1	DITCH WITCH LOGO PLACARD	
28.	275-497	1	OIL DRAIN-ID	
29.	274-724	1	ONE CALL NOTIFICATION	
30.	274-750	1	BFB TILT FUNCTION	
31.	275-203	1	BATTERY	
32.	274-808	1	CONTROL VALVE	
33.	274-657	1	MAIN FUSE	
34.	274-822	1	TEST PORT FUNCTION	
35.	275-355	1	CAUTION HOT PARTS	
36.	274-198	1	NOTICE OIL LEVEL	
37.	273-267	1	DITCH WITCH BATTERY	SEE FOOTNOTE 3
38.	700-074	1	BFB/GROUND DRIVE/ATTACH	START USING WITH SERIAL #3V0536

FOOTNOTES:

1. REF NO'S 2 & 4 PROVIDED W/ 602-918.
2. REF NO'S 10 & 11 ARE APPLIED TO INSIDE OF DASH PANEL, P/N'S 274-087, 274-233 AND 274-751 REQUIRED FOR UNITS EQUIPPED WITH REAR STEER OPTION.
3. LOCATE DECAL ON BATTERY SO THAT DECAL IS VISIBLE WHEN VIEWING BATTERY.

NOTE:

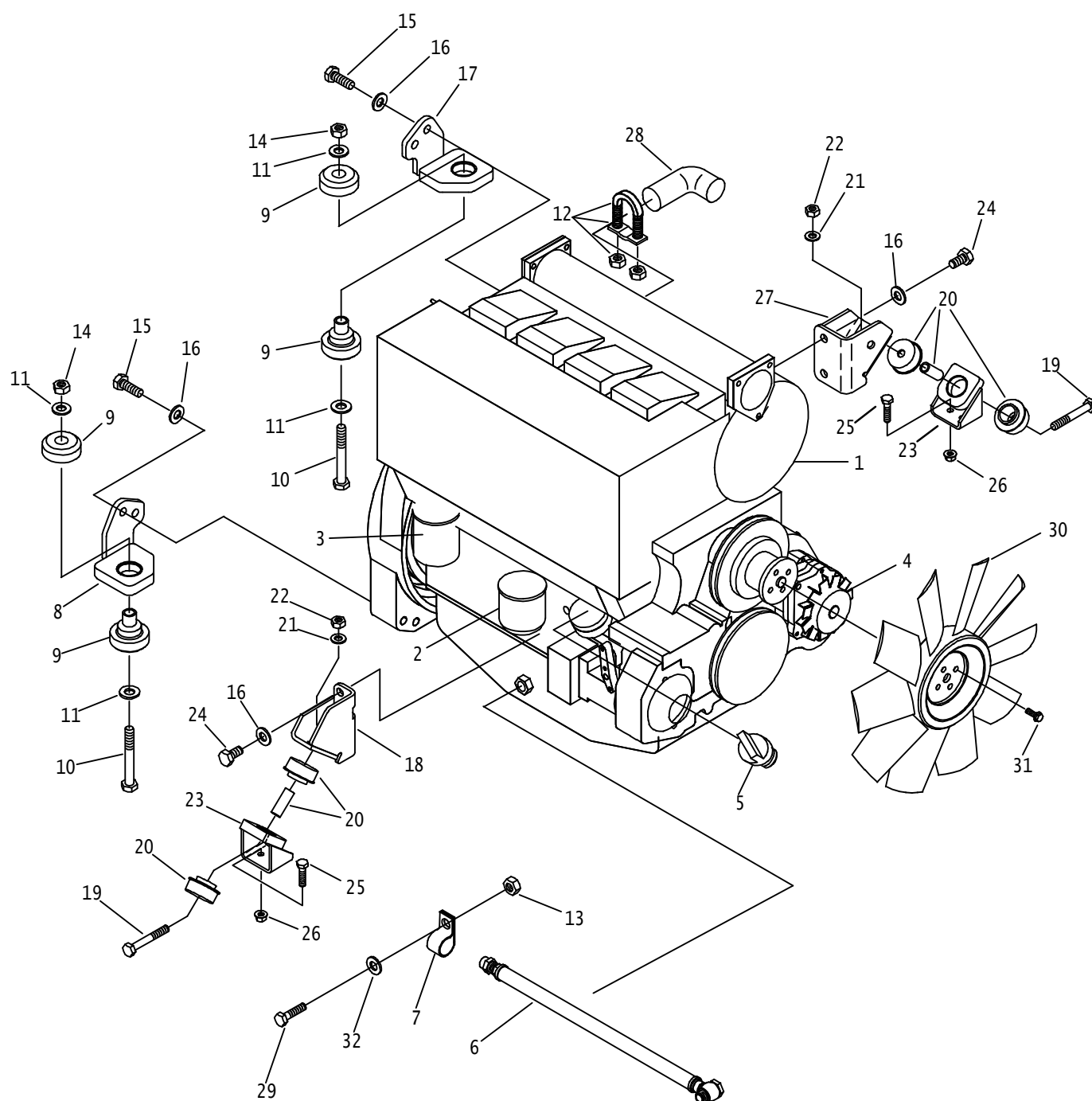
DITCH WITCH IS A REGISTERED TRADEMARK OF THE CHARLES MACHINE WORKS, INC.

NOTES:

[illegible]

ENGINE COMPONENTS

ENGINE



ENGINE

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	194-032	1	ENGINE (DEUTZ DIESEL)	
2.	195-849		ELEMENT (12NF -3.562", SPIN-ON)	
3.	195-807		FUEL FILTER ELEMENT (PRIMARY)	
4.	170-091		BELT (1/HC38-39.62")	
5.	195-855		OIL FILLER CAP	
6.	195-585	1	ENGINE OIL DRAIN	
7.	110-333	1	BOLT-ON CLAMP (1")	
8.	328-068	1	RIGHT REAR ENGINE MOUNT	SEE FOOTNOTE 1
9.	116-217	2	SHOCK MOUNT (2 PIECE KIT)	
10.	105-967	2	BOLT (5/8-NC X 4-1/2")	
11.	105-964	4	WASHER (.656")	
12.	196-008	1	U-BOLT CLAMP (2" TO 2-1/16")	
13.	105-834	1	FLG LOCKNUT (3/8-NC)	
14.	105-994	2	FLG LOCKNUT (5/8-NC)	
15.	106-597	4	LK SCREW (M14-2.00 X 40mm, EPOXY)	TORQUE TO 100 FT LBS
16.	106-598	8	WASHER (9/16", HARDENED)	
17.	328-067	1	LEFT REAR ENGINE MOUNT	SEE FOOTNOTE 1
18.	328-065	1	RIGHT FRONT ENGINE MOUNT	SEE FOOTNOTE 1
19.	105-136	2	BOLT (1/2-NC X 3-1/2", GD 8)	
20.	116-846	2	ISOLATOR	THREE-PIECE KIT
21.	105-071	2	WASHER (1/2")	
22.	105-065	2	LOCKNUT (1/2-NC)	
23.	328-066	2	FRONT ENGINE SUPPORT MOUNT	
24.	106-596	4	LK SCREW (M14-2 X 30mm, EPOXY)	TORQUE TO 100 FT LBS
25.	105-827	4	FLG LK BOLT (3/8-NC X 1-1/4")	
26.	105-845	4	FLG LOCKNUT (3/8-NC)	
27.	328-064	1	LEFT FRONT ENGINE MOUNT	SEE FOOTNOTE 1
28.	196-276	1	EXHAUST ELBOW	
29.	105-825	1	FLG LK BOLT (3/8-NC X 3/4")	
30.	194-033	1	COOLER FAN	
31.	106-162	4	FLG SCREW (M8-1.25 X 20mm)	
32.	105-118	1	WASHER (3/8")	

NOT SHOWN:

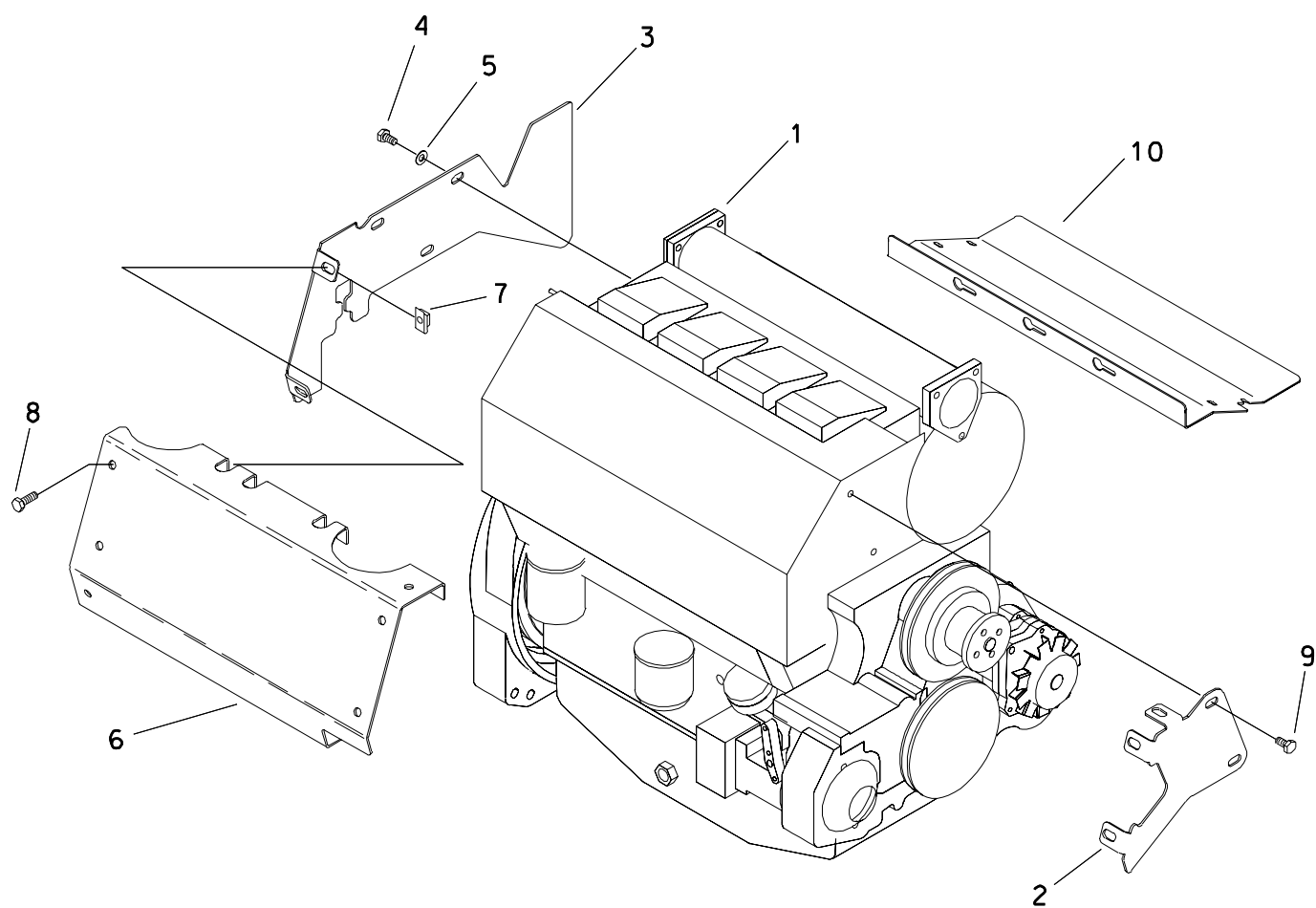
194-615	1	FUEL PUMP	195-862	1	STARTER	SEE FOOTNOTE 2
165-744	1	FUEL LIFT PUMP GASKET	217-722	1	FUEL SHUT-OFF SOLENOID	
195-861	4	INJECTOR PUMP	165-734	1	GASKET	
195-860	4	INJECTOR (PNCL W/RTNR)	217-731	1	STARTER SOLENOID	SEE FOOTNOTE 2
165-745	1	INJECTOR PUMP GASKET	165-727	4	EXHAUST MANIFOLD GASKET	
165-746	1	ELBOW GASKET	215-183	1	SENDER, OIL PRESSURE HD	
194-622	1	EXHAUST MUFFLER	106-930	1	STUD (M10-1.50 X 40mm)	
215-188	1	STARTER SOLENIOD COVER	106-175	1	LOCKNUT (M10-1.50)	

FOOTNOTES:

- NO PAINT AREA: CLEAN PAINT OFF OF ENGINE BLOCK AND MOUNT BEFORE BOLTING MOUNTS TO BLOCK.
TAP OUT MOUNTING HOLES (M14 X2.0) TO REMOVE PAINT. CLEAN THREADS WITH SAFETY SOLVENT: DRY WITH COMPRESSED AIR.
- IF REPLACING STARTER, USE SOLENOID COVER 215-1549 INSTEAD OF 215-188.

NOTE:

ENGINE SHIELD

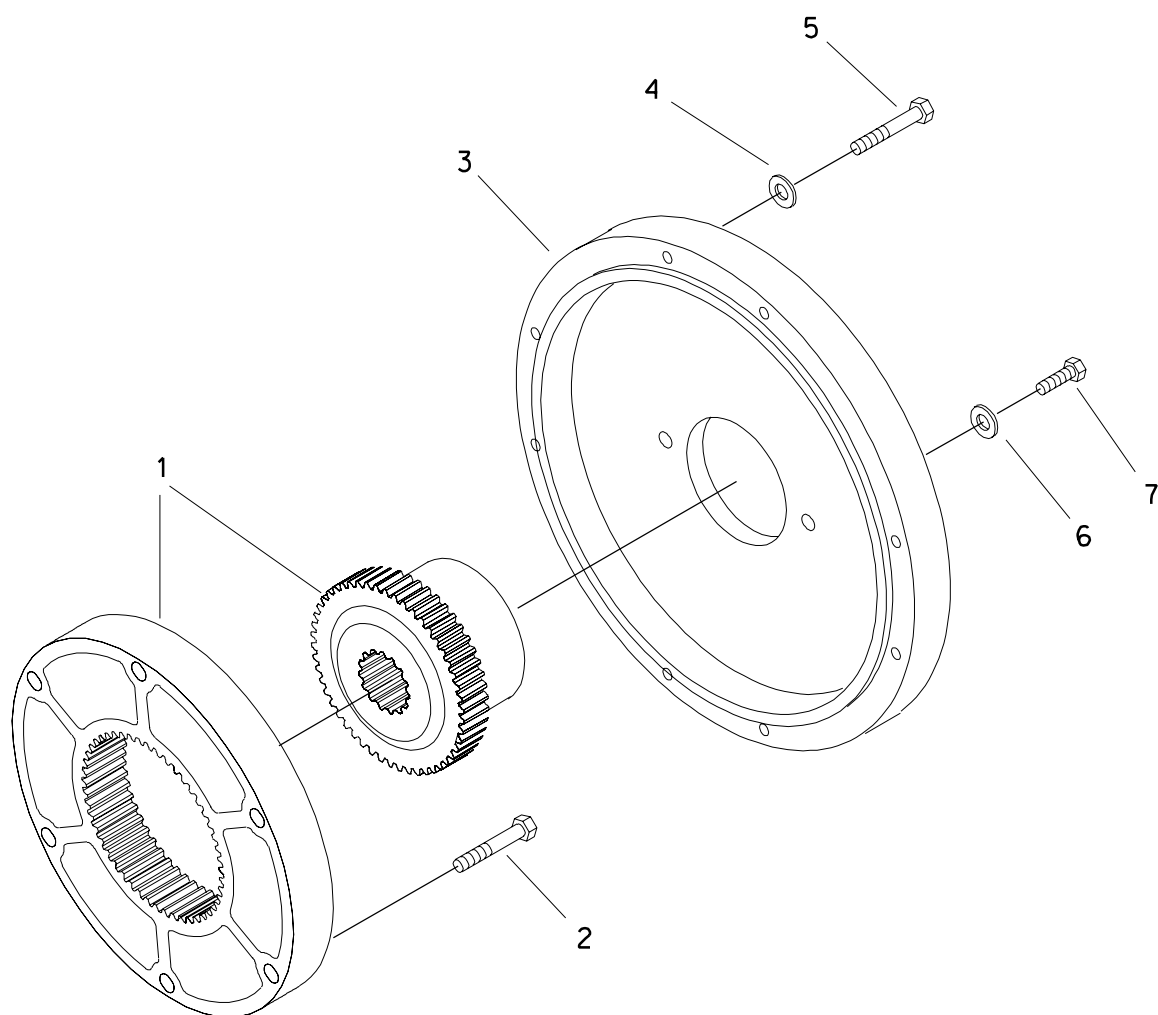


ENGINE SHIELD

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	194-032	-	ENGINE (DEUTZ 57HP)	
2.	328-436	1	FRONT PLATE	
3.	328-438	1	REAR PLATE	
4.	106-231	1	BOLT (M6-1.0 X 16mm)	
5.	105-095	1	WASHER (1/4")	
6.	328-437	1	CENTER PLATE	
7.	105-841	5	CLIP NUT (5/16-NC)	
8.	105-094	5	BOLT (5/16-NC X 1.0")	
9.	106-380	4	FLG LK SCREW (M8-1.25 X 16MM)	
10.	360-422	1	BOTTOM SHIELD	

FOOTNOTES

PUMP COUPLER

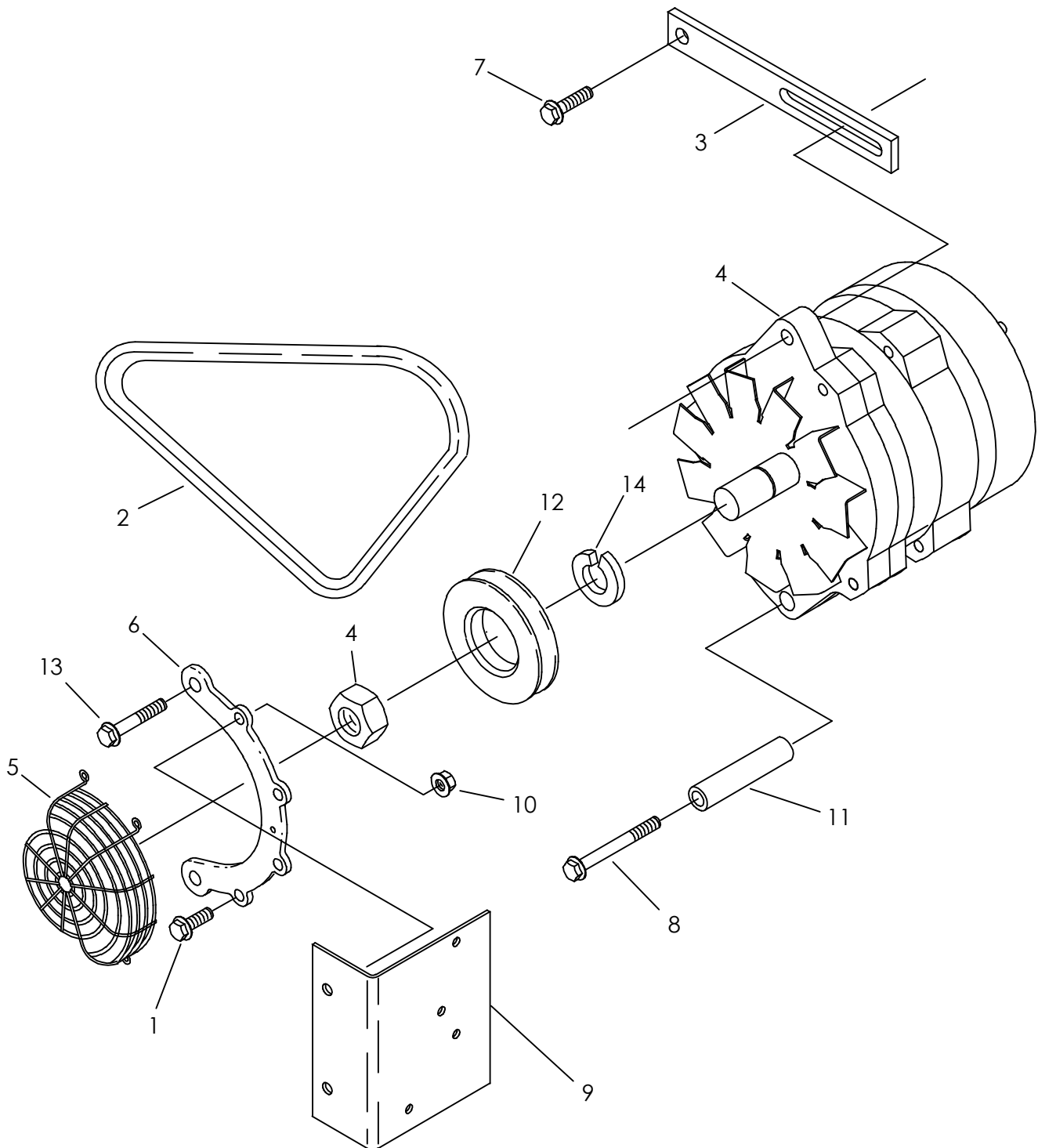


PUMP COUPLER

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	194-413	1	FLYWHEEL/PUMP COUPLING	TWO-PIECE
2.	105-806	6	SCREW (M8-1.25 X 25mm, GD 8)	LOCTITE RC 271 (RED) OR RC 680 (GREEN)
3.	194-763	1	MOUNT PLATE	
4.	105-073	8	LOCK WASHER (7/16")	
5.	105-839	8	BOLT (M10-1.5 X 55mm, GD 8)	
6.	105-058	2	BELLEVILLE WASHER (1/2")	
7.	105-062	2	FLG BOLT (1/2-NC X 1-1/2", FER)	LOCTITE RC 271 (RED) OR RC 680 (GREEN)

FOOTNOTES

ALTERNATOR 5700



ALTERNATOR 5700

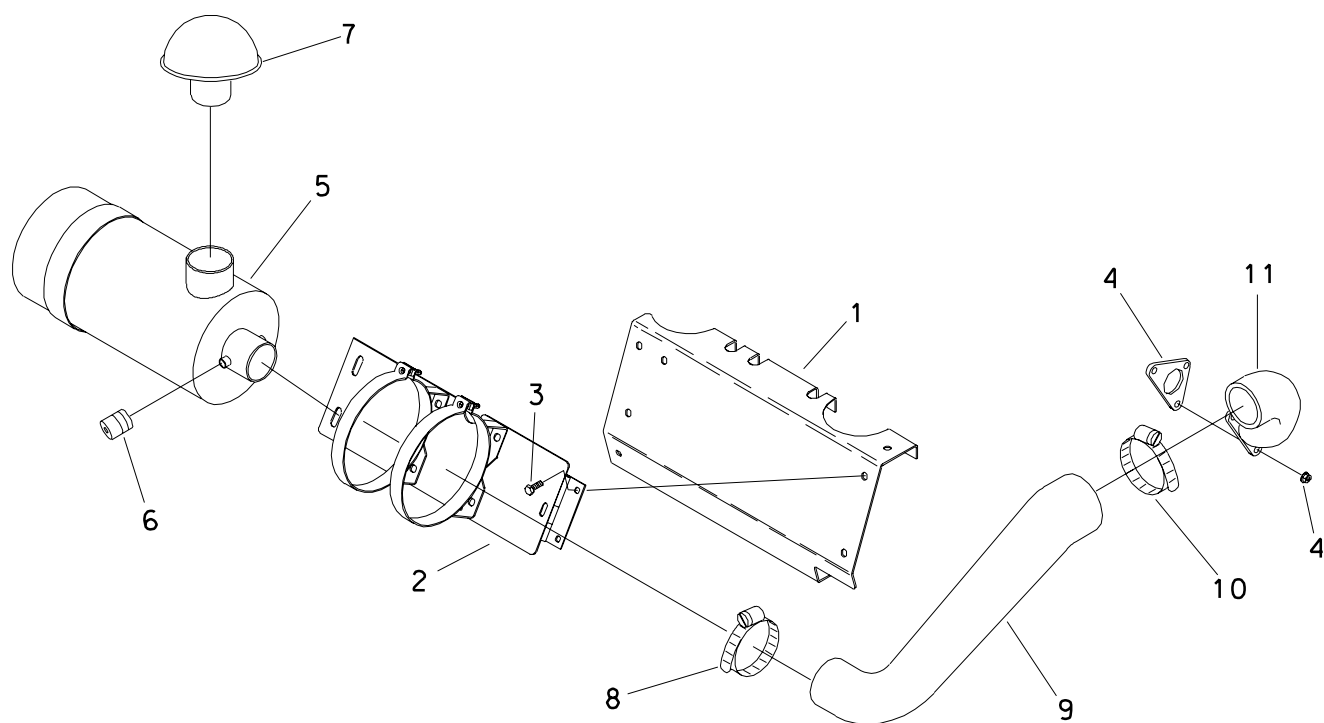
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	106-162	4	FLG SCREW (M8-1.25 X 20mm)	
2.	170-091	1	BELT (1/HC38-39.62")	
3.	360-067	1	ADJUSTABLE STRAP	
4.	215-159	1	ALTERNATOR	OBSOLETE
	190-1244	1	ALTERNATOR KIT	INCLUDES REF. NO 6 & WIRING UPGRADE.
5.	362-628	1	GUARD	
6.	300-4773	1	GUARD BRACKET	
7.	106-380	1	FLG LK SCREW (M8-1.25 X 16mm)	
8.	105-170	1	BOLT (1/5/16-NC X 3")	
9.	313-560	1	FUSE MOUNT BRACKET	
10.	106-386	6	FLG LOCKNUT (M8-1.25)	
11.	184-334	1	SPACER (2.000")	
12.	170-266	1	SHEAVE (11-GROOVE)	
13.	106-200	2	FLG LK SCREW (M8-1.25 X 45mm)	
14.	184-119	1	SPACER	

NOT SHOWN:

FOOTNOTES:

NOTE:

AIR FILTER SYSTEM

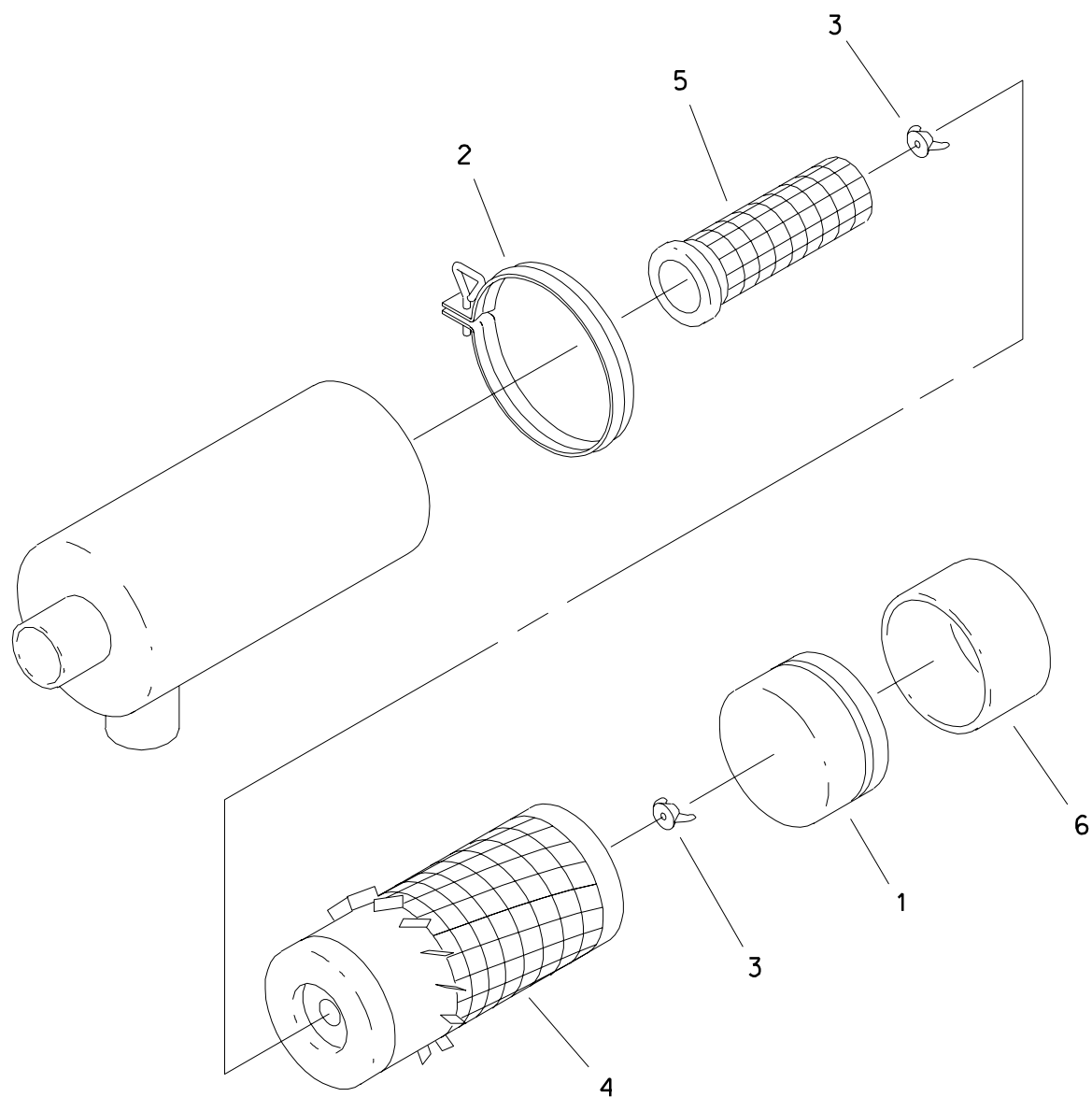


AIR FILTER SYSTEM

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	328-455	-	CENTER PLATE	
2.	328-439	1	AIR FILTER BRACKET	
3.	105-823	3	FLG LK BOLT (5/16-NC X 3/4")	
4.	165-734	1	GASKET (2.76" X 3.96")	
5.	195-816	1	AIR FILTER	
6.	195-633	1	RESTRICTION INDICATOR (20"H2O)	
7.	195-692	1	STACK CAP (2-1/2")	
8.	110-134	1	WORM CLAMP (2.062" TO 2.750")	
9.	116-839	1	AIR INTAKE HOSE	
10.	110-169	1	WORM CLAMP (2.812" TO 3.750")	
11.	195-852	1	AIR INLET TUBE	

FOOTNOTES

AIR FILTER SYSTEM

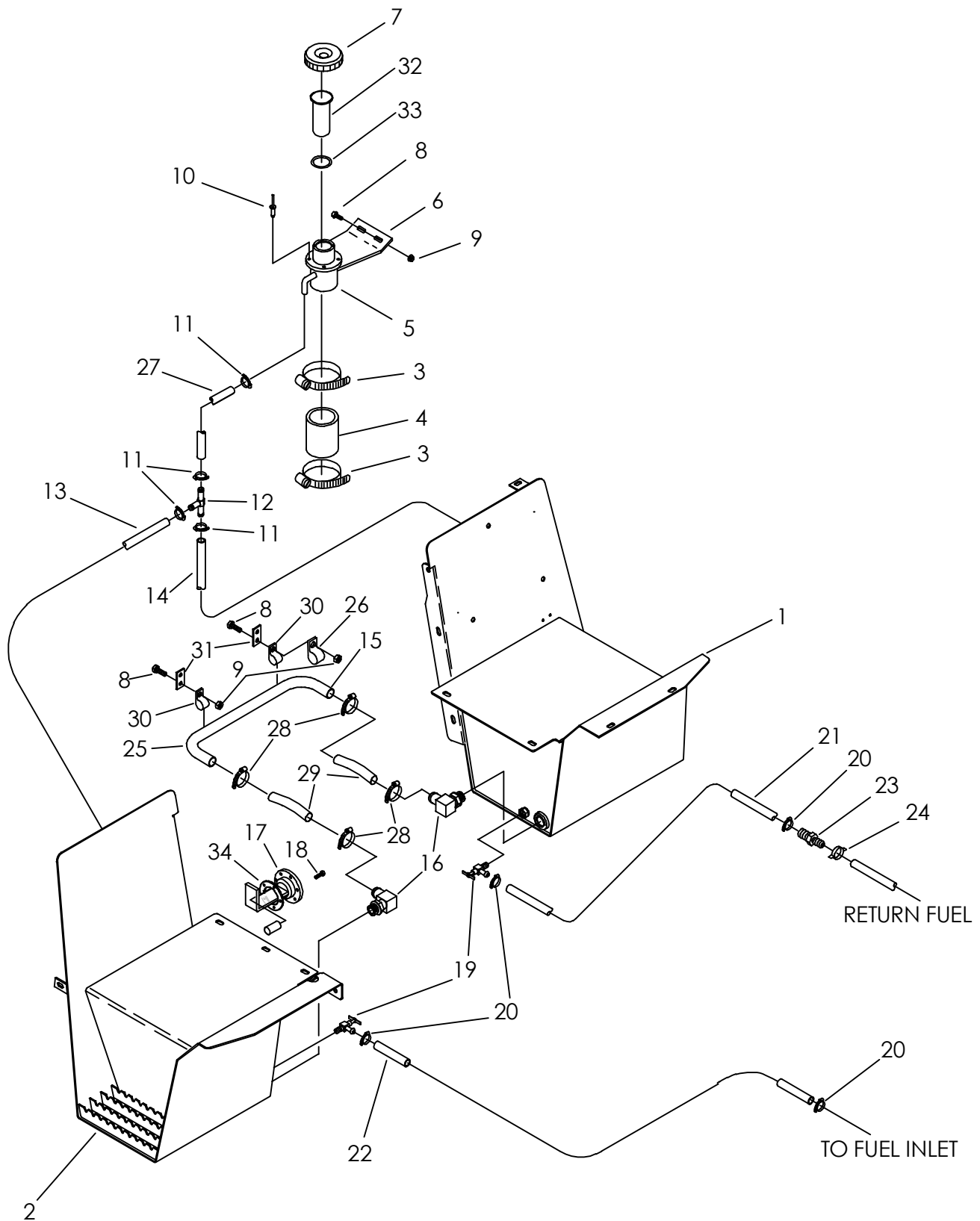


AIR FILTER SYSTEM

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	195-816		AIR FILTER PARTS ASS'Y	INCL REF NO'S 1 THRU 6
1.	195-641	1	BAFFLE	
2.	195-642	1	V-BAND CLAMP (6-1/2")	
3.	195-815	2	WING NUT (7/16-NF)	
4.	195-817	1	ELEMENT (PRIMARY)	
5.	195-818	1	ELEMENT (SAFETY)	
6.	195-824	1	BOTTOM CUP	

FOOTNOTES

FUEL LINE



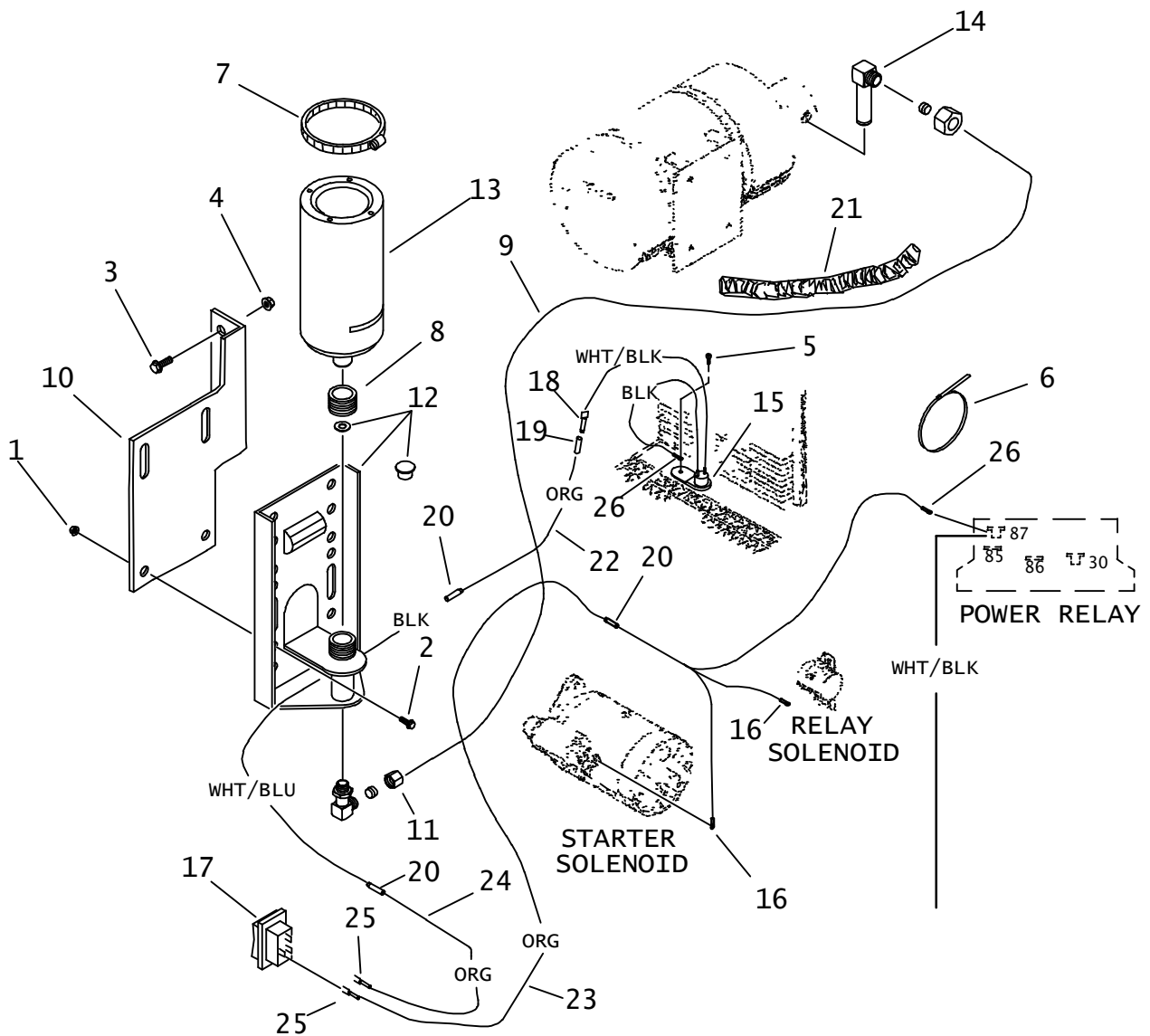
FUEL LINE

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	364-512		LEFT FUEL TANK STEP	
2.	364-494		RIGHT STEP FUEL TANK	
3.	110-134	2	WORM CLAMP (2.06" TO 2.75")	
4.	116-323	1	FUEL HOSE (2" X 3")	
5.	364-080	1	FILLER NECK (FUEL TANK)	OBSOLETE
	364-659	1	FILLER NECK	
6.	363-139	1	BRACKET (FUEL FILLER)	
7.	110-485	1	FUEL CAP (1-1/2")	
8.	105-826	4	FLG BOLT (3/8-NC X 1")	
9.	105-845	4	FLG LOCKNUT (3/8-NC)	
10.	110-253	6	POP RIVET (3/16" X 1/2")	
11.	110-217	2	WORM CLAMP (7/16" TO 1")	
12.	156-729	1	S/O TEE (08H-08H-08H)	
13.	116-322	AR	BULK HOSE (1/2", SOLD PER 1')	USE 1 @ 40"
14.	116-322	AR	BULK HOSE (1/2", SOLD PER 1')	USE 1 @ 5"
15.	156-926	1	FUEL SUPPLY LINE (16T)	USE WITH DANA 60
	116-460	AR	BULK HOSE (1", SOLD PER FT)	USE WITH PLANETARY
16.	155-146	2	S/O COUPLER (12S-16H90)	
17.	217-517	1	FUEL SENDER	
18.	105-214	6	FLG SCREW (#10-24 X 1/2")	
19.	156-239	2	S/O SHUT-OFF (02N-05H90)	
20.	110-249	4	WORM CLAMP (1/4" TO 5/8")	
21.	116-108	AR	BULK HOSE (5/16", SOLD PER 1')	USE 1 @ 38"
22.	116-108	AR	BULK HOSE (5/16", SOLD PER 1')	USE 1 @ 42"
23.	156-253	1	S/O COUPLER (03H-05H)	
24.	110-490	1	SQUEEZE CLAMP (5/16")	
25.	116-335	AR	BULK HOSE (1", SOLD PER FT)	USE 1 @ 34.5" (CARRARO ONLY)
26.	110-332	1	BOLT-ON CLAMP (1-5/8")	CARRARO ONLY
27.	116-322	AR	BULK HOSE (1/2", SOLD PER 1')	USE 1 @ 11"
28.	110-353	4	WORM CLAMP (3/4" TO 1-1/2")	USE TWO WORM CLAMPS WITH PLANETARY.
29.	116-335	AR	BULK HOSE (1", SOLD PER FT)	USE 2 @ 15"
30.	110-333	2	BOLT-ON CLAMP (1")	
31.	358-558	2	BRACE PLATE	
32.	364-663	1	FILLER NECK SCREEN	BEGINS WITH S/N
33.	155-708	1	O-RING (218 D70)	BEGINS WITH S/N
34.	165-704	1	GASKET	

FOOTNOTES:

NOTE:

COLD START KIT



COLD START KIT

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	190-400		COLD START CONVERSION KIT	INCL REF NO.'S 1-12 & 14-28
1.	105-003	4	FLG LOCKNUT (5/16-NC)	
2.	105-822	4	FLG LK BOLT (5/16-NC X ")	
3.	105-825	2	FLG LK BOLT (3/8-NC X 3/4")	
4.	105-834	2	FLG LOCKNUT (3/8-NC)	
5.	105-842	1	SCREW (M8-1.25 X 20mm, ALN)	
6.	110-248	5	CABLE TIE (1/16" TO 1-1/4")	
7.	110-170	1	WORM CLAMP (4-1/8" TO 5")	
8.	115-365	AR	GROMMET (2-1/8", SOLD PER 1")	USE 1 @ 1-1/2"
9.	156-018	AR	BULK TUBING (1/8", SOLD PER 1")	USE 1 @ 60"
10.	363-022	1	MOUNT BRACKET	USED ON 2300, 2310, 3210, 3500, 3610, 4500, & 5700
11.	156-255	1	TUBE CONNECTOR (02T-02N90, ORF)	
	156-204		FERRULE (02T)	
	156-205		NUT (02T)	
12.	195-841	1	VALVE/CANISTER BRACKET	SHIPPED WITH CMW-772 CAUTION FLAMABLE GAS CARD
	110-252		CAPLUG (3/4")	
	195-844		GASKET	
13.	195-842	1	ETHER CANISTER	FOOTNOTE 1
14.	195-843	1	INJECTOR NOZZLE	
	156-204		FERRULE (02T)	
	156-205		NUT (02T)	
15.	215-073	1	SENSOR SWITCH	
16.	215-590	2	RING TERMINAL (3/8")	
17.	215-077	1	ROCKER SWITCH	USED ON 2300, 2310, 3210, 3500, 3610, & 4500
	217-789	1	ROCKER SWITCH	5700
18.	215-458	1	MB TERMINAL (14/16GA, .156")	
19.	215-459	1	FMB TERMINAL (14/16GA, .156")	
20.	215-478	3	BUTT CONNECTOR (14/16GA)	
21.	215-489	AR	RALLY WRAP (3/8", SOLD PER 1")	USE 1 @ 60"
22.	215-490	AR	BULK WIRE (16GA, ORG,SOLD PER 1")	USE 1 @ 12"
23.	215-490	AR	BULK WIRE (16GA, ORG,SOLD PER 1")	USE 1 @ 60"
24.	215-490	AR	BULK WIRE (16GA, ORG,SOLD PER 1")	USE 1 @ 56"
25.	215-527	2	FMC TERMINAL (1/4")	

NOT SHOWN:

275-378	1	COLD START DECAL	
275-418	1	COLD START OPERATIONS DECAL	USED ON 2300, 2310, 3210, 3500, 3610, 4500, & 5700
275-419	1	CAUTION FLAMMABLE GAS DECAL	
275-420	1	COLD START OPERATIONS DECAL	USED ON 350SX

FOOTNOTES:

I. REFER TO INSTALLATION DIAGRAM 050-I49 FOR INSTALLATION INSTRUCTIONS. REFER TO ITEM I OF TECHNICAL BITS DATED 12-19-85 FOR COLD WEATHER STARTING INSTRUCTIONS. REFR TO ITEM 2 OF TECHNICAL BITS DATED 12-19-85 FOR TROUBLE SHOOTING THE ETHER COLD START KIT. ETHER CANISTER REF NO 10 MUST BE ORDERED SEPERATELY FROM KIT.

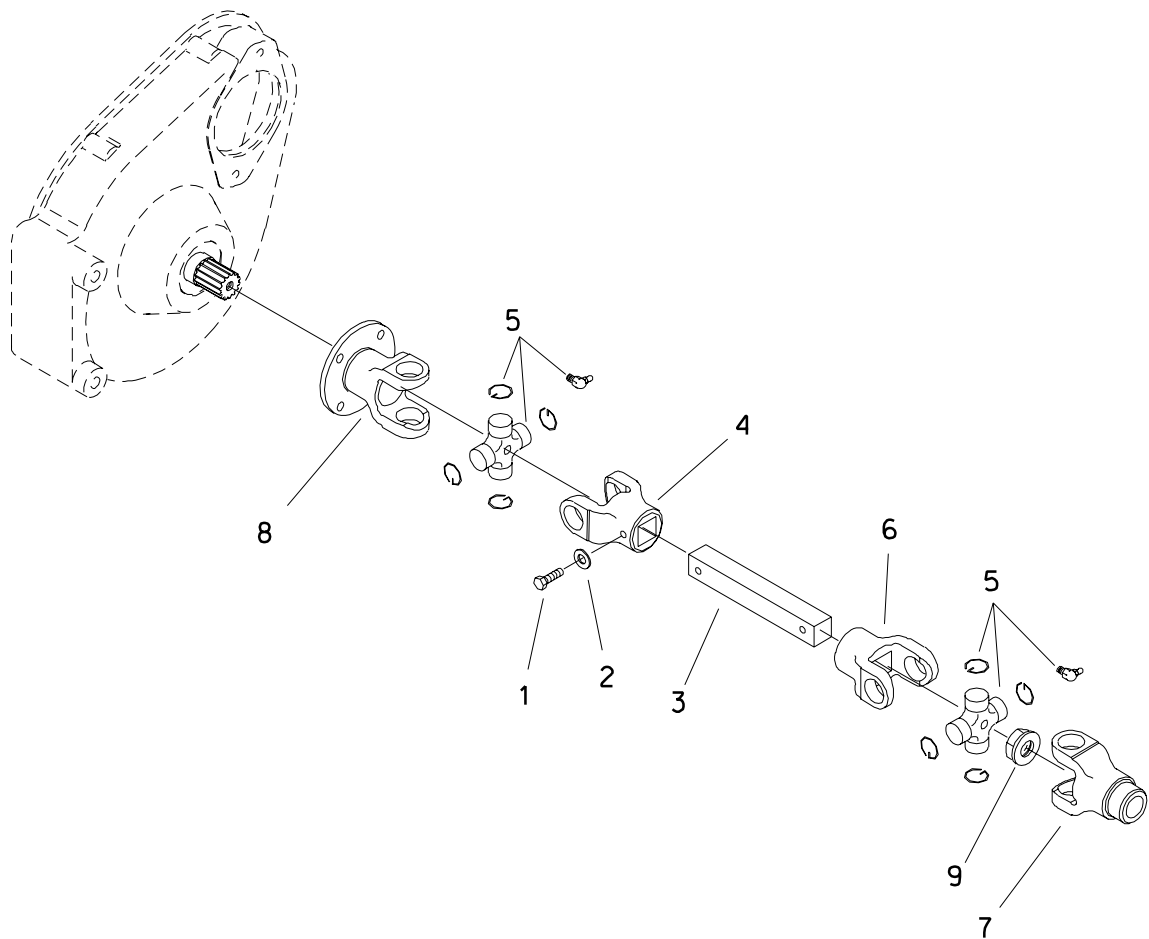
NOTE:

NOTES:

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FRAME COMPONENTS

DRIVE LINE

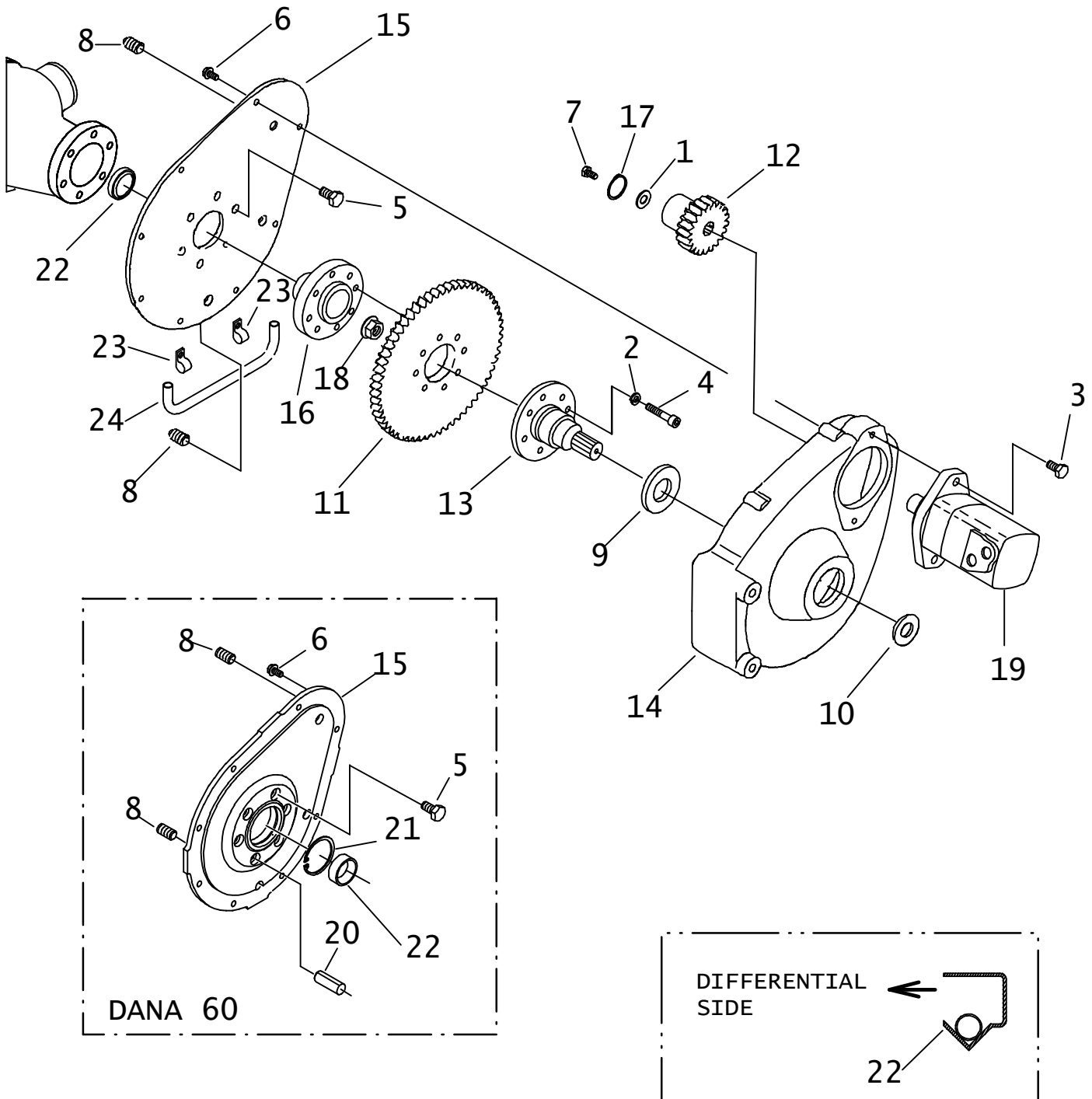


DRIVE LINE

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	105-826	1	FLG LK SCREW (3/8-NC X 1")	
2.	105-072	1	LOCK WASHER (3/8")	
3.	165-432	1	DRIVE SHAFT (1.125" X 16")	
4.	180-711	1	YOKE (1.125"-SQ)	
5.	180-723	2	CROSS/BEARING KIT (1-1/8")	
	115-010		ZERK (Q2N 22.5°)	
	180-760		BEARING CAP (1.125")	
6.	180-729	1	YOKE (1.125"-SQ)	
7.	182-020	1	YOKE (1.184"-29S)	PINION
8.	182-135	1	FLANGE (1.088"-14S)	OUTPUT
9.	105-362	1	FLG NUT (7/8-NF)	LOCTITE

FOOTNOTES

GROUND DRIVE GEARBOX



GROUND DRIVE GEARBOX

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	105-069	1	WASHER (.406")	
2.	105-072	8	LOCK WASHER (3/8")	
	105-805	8	BELLEVILLE WASHER (3/8")	DANA 60
3.	105-062	2	FLG BOLT (1/2-NC X 1-1/2", FER)	
	105-121	2	BOLT (1/2-NC X 1")	DANA 60
4.	106-794	8	BOLT (3/8-NC X 1-3/4", SOC)	LOCTITE
	105-238	8	BOLT (3/8-NC X 1-1/2", SOC)	DANA 60, LOCTITE
5.	105-483	6	BOLT (9/16-NC X 1-1/4")	
	106-962	6	FLG BOLT (9/16-NC X 1-1/4", FER)	DANA 60
6.	105-825	8	FLG LK BOLT (3/8-NC X 3/4")	
7.	105-848	1	BOLT (3/8-NC X 3/4", GD8)	LOCTITE
8.	115-211	3	PLUG (Ø8N, SQ, MAG)	
9.	125-049	1	BALL BEARING (2.165")	
10.	155-806	1	INTERNAL SEAL (1.750")	
11.	165-100	1	LARGE GEAR	
12.	168-003	1	PINION GEAR (19T)	
13.	167-139	1	OUTPUT SHAFT (14T)	
	167-293	1	OUTPUT SHAFT (14T)	DANA 60
14.	169-012	1	GEARBOX COVER	SEE FOOTNOTE 1
15.	169-013	1	MOUNTING PLATE	
	169-068	1	MOUNTING PLATE	DANA 60
16.	169-014	1	FLANGE (1.750"-26S)	
	169-069	1	FLANGE (1.148"-29S)	DANA 60
17.	500-228	1	INTERNAL SNAP RING (1.562")	
18.	105-995	1	FLG LOCKNUT (3/4-NF)	LOCTITE
	105-362	1	FLG NUT (7/8-NF)	DANA 60, LOCTITE
19.	158-943		HYDRAULIC MOTOR	USED WITH 3700 DANA 44
	500-658		SEAL REPAIR KIT	
	149-112		HYDRAULIC MOTOR	USED WITH 3700, 5700 DANA 60
20.	105-575	1	ROLL PIN (.500" X 1.250")	DANA 60.
21.	116-672	1	INTERNAL SNAP RING (2.875")	DANA 60 SEE FOOTNOTE 2
22.	155-851	1	INTERNAL SEAL (1.552")	
	157-569	1	INTERNAL SEAL 1.875")	DANA 60
23.	110-333	1	BOLT-ON CLAMP (1")	
24.	156-926	1	FUEL SUPPLY LINE (16T)	

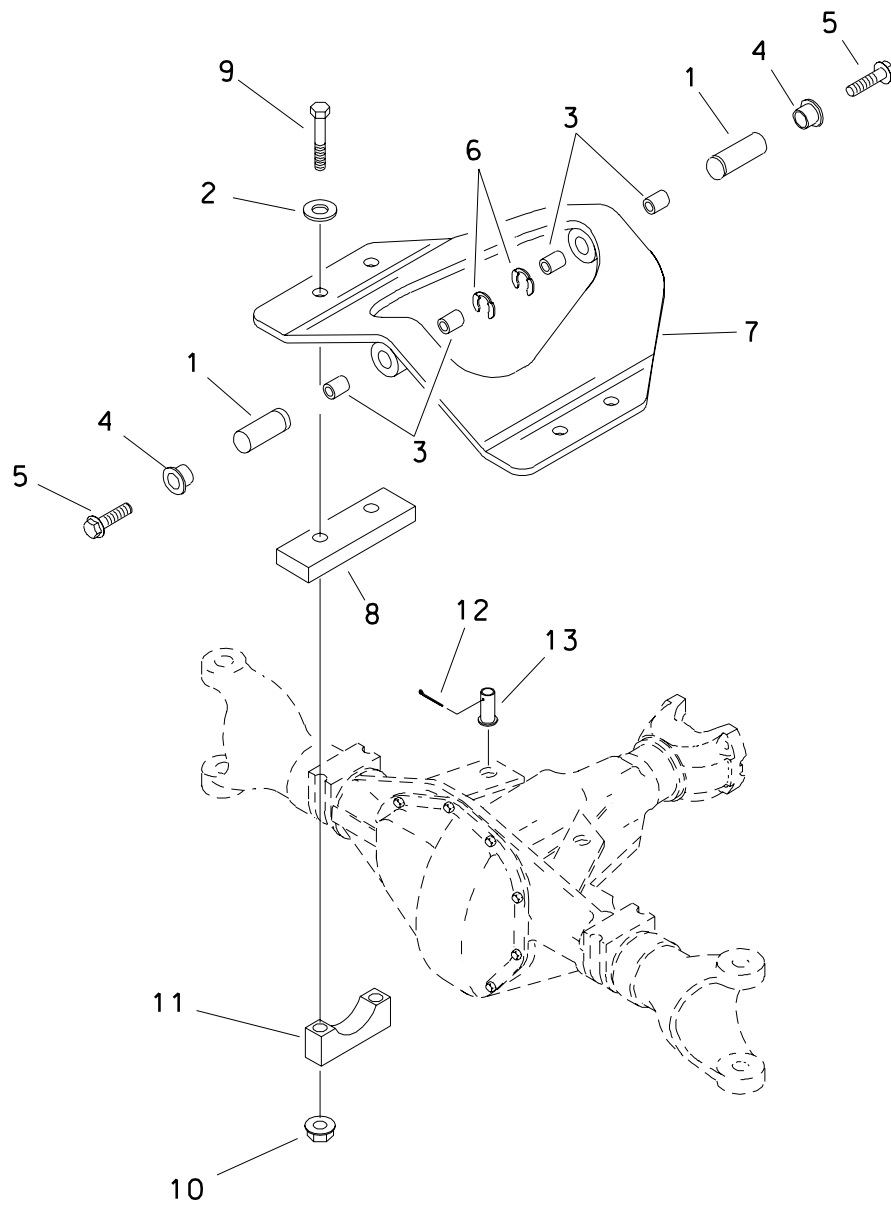
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FOOTNOTES:

1. USE SILICONE (RTV) GASKET MATERIAL ON GEAR BOX COVER, ON MOTOR MOUNTING SURFACES, & AT MOUNTING PLATE TO DIFFERENTIAL HOUSING SURFACE.
2. INSTALL SNAP RING (REF NO 24) IN GEAR BOX MOUNTING PLATE BEFORE PLATE IS BOLTED TO DIFFERENTIAL HOUSING.

NOTE:

FRONT DIFFERENTIAL MOUNT



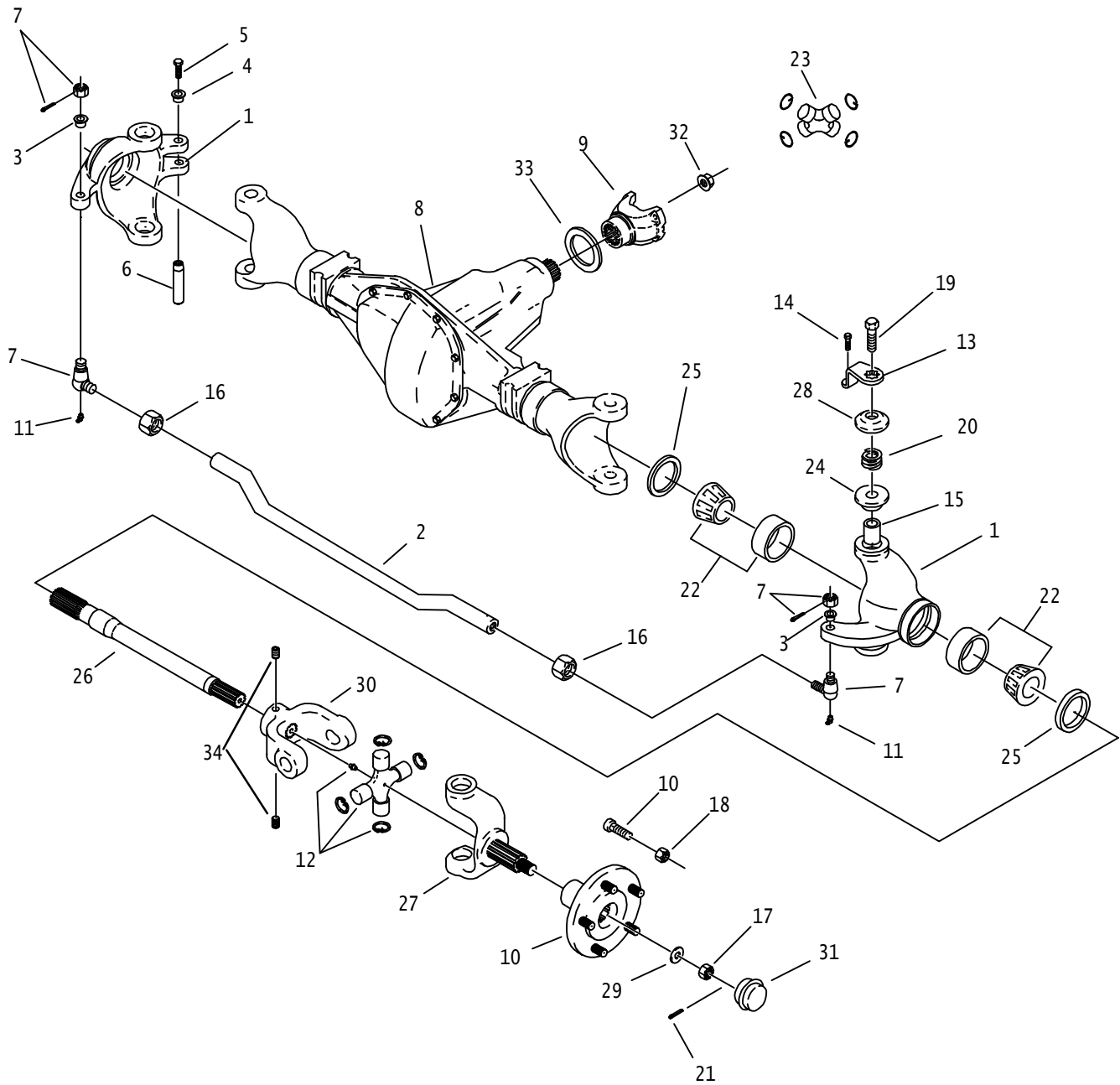
FRONT DIFFERENTIAL MOUNT

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	183-686	2	TAPERED PIN (1.250" X 3.720")	
2.	105-975	4	WASHER (3/4")	
3.	125-771	4	COMPOSITION BUSHING (1.250")	
4.	181-982	2	TAPERED INSERT (1.250")	
5.	106-096	2	FLG BOLT (1/2-NC X 1-3/4", GD 8)	
6.	115-483	2	KLIP RING (1-1/4")	
7.	328-001	1	DIFFERENTIAL MOUNT	
8.	328-003	2	AXLE STOP BAR	
9.	105-464	4	BOLT (3/4-NC X 7")	
10.	105-953	4	LOCKNUT (3/4-NC)	TORQUE TO 375 FT LBS
11.	301-822	2	SADDLE CLAMP (3-1/2")	
12.	105-502	2	COTTER PIN (3/16" X 2")	
13.	180-322	2	PIN (1.250" X 3.500")	

FOOTNOTES

FRONT DIFFERENTIAL

DANA 60



FRONT DIFFERENTIAL

DANA 60

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	161-304		FRONT STEER DIFF-DANA 60 HDLS	INC REF NO'S 1-3, 7-17, 19-34, & P/N 110-054
1.	161-153	2	SPINDLE HOUSING	
2.	160-418	1	TIE ROD	
3.	184-143	2	TAPERED INSERT (.750")	SEE FOOTNOTE 1
4.	181-981	2	TAPERED INSERT (1")	
5.	105-874	2	FLG LK BOLT (3/8-NC X 1-1/2")	
6.	183-584	2	TAPERED PIN (1" X 2.44")	
7.	160-306	2	TIE ROD END (3/4-NF)	
	105-405		CASTLE NUT (9/16-NF)	
	105-509		COTTER PIN (1/8" X 1")	
8.	161-297	1	DIFFERENTIAL	SEE FOOTNOTE 2 & 3
9.	182-020	1	YOKE (1.184"-29S)	
10.	160-160	2	SPINDLE FLANGE (1.573", 26S)	
	105-426		LUG BOLT (3/4-NF X 1-13/16")	
11.	115-005	2	ZERK (1/4-NF,90)	
12.	182-099	2	CROSS/ BEARING KIT (1-17/32")	INCL ZERK
	115-002		ZERK (02N90)	
13.	301-151	4	SPINDLE BOLT LOCK	
	190-273		SPINDLE BOLT CONVERSION KIT	INCL REF NO'S 13 - 15,19,20,24 & 28; SEE FOOTNOTE 4
14.	105-825	4	FLG LK BOLT (3/8-NC X 3/4 ")	
15.	125-301	4	COMPOSITION BUSHING (.750")	
16.	105-404	2	JAM NUT (3/4-NF)	
17.	105-349	2	CASTLE NUT (1-NF)	
18.	105-424	10	LUG NUT (3/4-NF)	
19.	105-353	4	BOLT (3/4-NF X 2-5/8", NYLOK GD8)	
20.	105-451	AR	SPRING WASHER (3/4")	
21.	105-516	2	ROLL PIN (3/16" X 1-1/2")	
22.	125-1065	4	TAPERED BEARING SET (2.250")	SUPERCEDES 125-260 & 125-261
23.	180-723	1	CROSS / BEARING KIT (1-1/8")	
24.	125-716	8	FLANGE BUSHING (1")	
25.	155-808	4	INTERNAL SEAL (3")	
26.	160-187	2	FRONT AXLE SHAFT (15.62"-35T)	
27.	160-336	2	SPINDLE SHAFT & YOKE	
28.	180-061	4	SPINDLE WASHER (.750")	
29.	181-381	2	SPINDLE WASHER (1.000")	
30.	182-103	2	AXLE YOKE (1.416", 35S)	
31.	205-671	2	HUB CAP (1.982")	
32.	105-362	1	FLG NUT (7/8-NF)	
33.	155-853	1	INTERNAL SEAL (1.875")	
34.	105-716	4	SET SCREW (3/8-NC X ")	

110-054 2 MACHINE BUSHING (1.3/4",14GA)

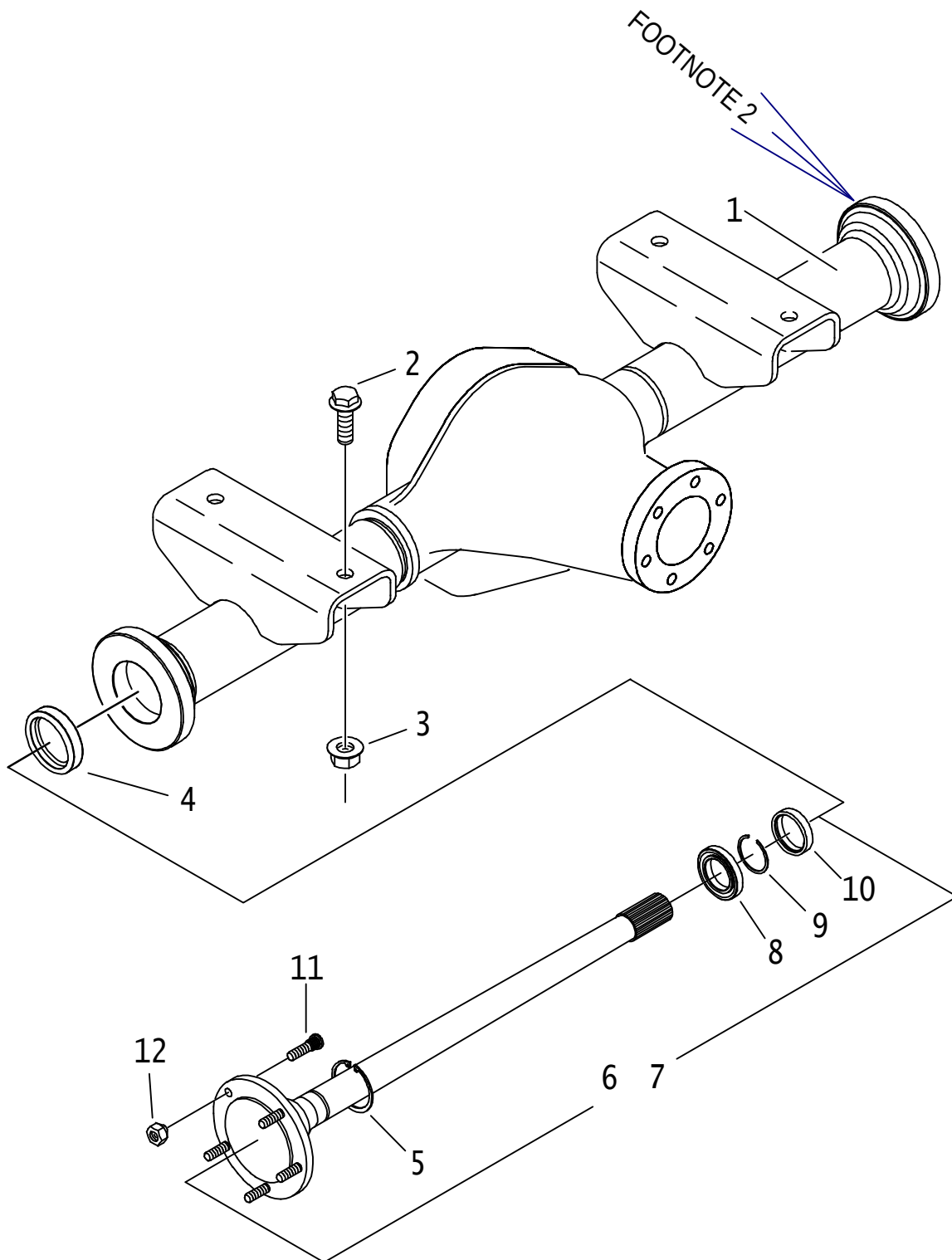
1. LOCTITE, REF NO 3, INTO ARM OF SPINDLE HOUSING.

2. REFER TO DIFFERENTIAL ASSEMBLY INSTRUCTIONS 052-185.

3. REF NO 8, DIFFERENTIAL, INCLUDES DIFFERENTIAL ASSEMBLY, GEARS, BEARINGS, AXLE SEALS, LESS AXLE SHAFTS, SPINDLES

4. REFER TO INSTALLATION DIAGRAM 050-946.

REAR AXLE DANA60 5700/Z5700



REAR AXLE DANA60

5700/Z5700

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	161-293	1	REAR AXLE HOUSING	
2.	106-145	4	BOLT (1-NC X 2-1/4", GD8)	
3.	105-919	4	FLG NUT (1-NC)	
4.	155-856	2	INTERNAL SEAL (1.875")	
5.	115-533	2	INTERNAL SNAP RING (3.5")	
6.	161-280	1	SHORT AXLE (23.50", RT)	
7.	161-281	1	LONG AXLE (24.50", LF)	
8.	125-024	2	BALL BEARING (1.968")	
9.	115-520	2	EXTERNAL SNAP RING (2")	
10.	181-049	2	SHRINK RING (1.966")	
11.	105-426	10	LUG BOLT (3/4-NF X 1-13/16")	
12.	105-424	10	LUG NUT (3/4-NF)	

NOT SHOWN:

FOOTNOTES:

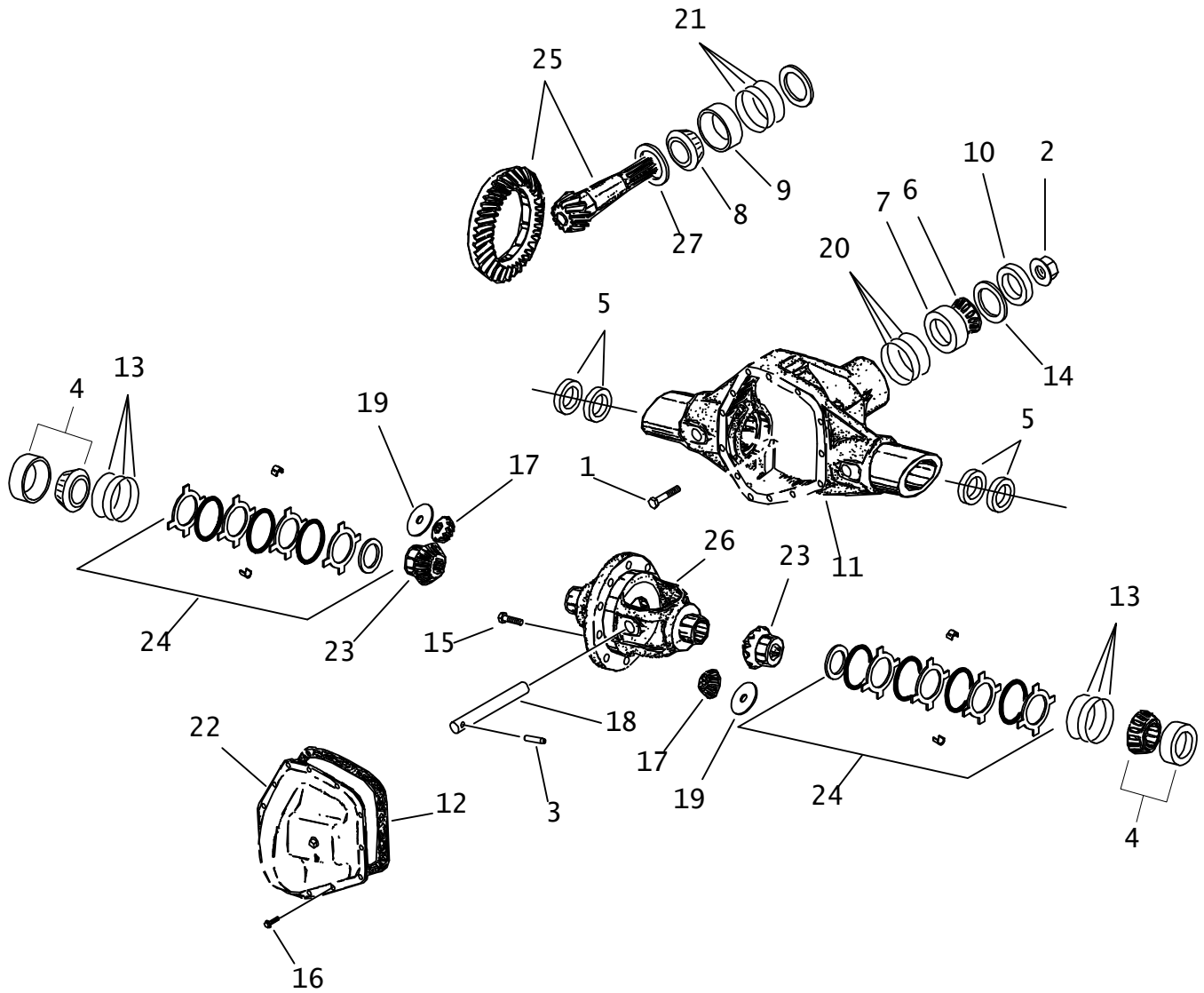
1. INCLUDES AXLE HOUSING WITH MOUNTS, DIFFERENTIAL ASSEMBLY, GEARS, & BEARINGS
LESS AXLES SHAFTS & SEALS.

2. FOR MORE INFORMATION SEE PARTS PAGES TITLED "DIFFERENTIAL, DANA 60 HD OPTION" (804-708)

NOTE:

CARRIER

DANA 60 LIMITED SLIP



CARRIER DANA 60 LIMITED SLIP

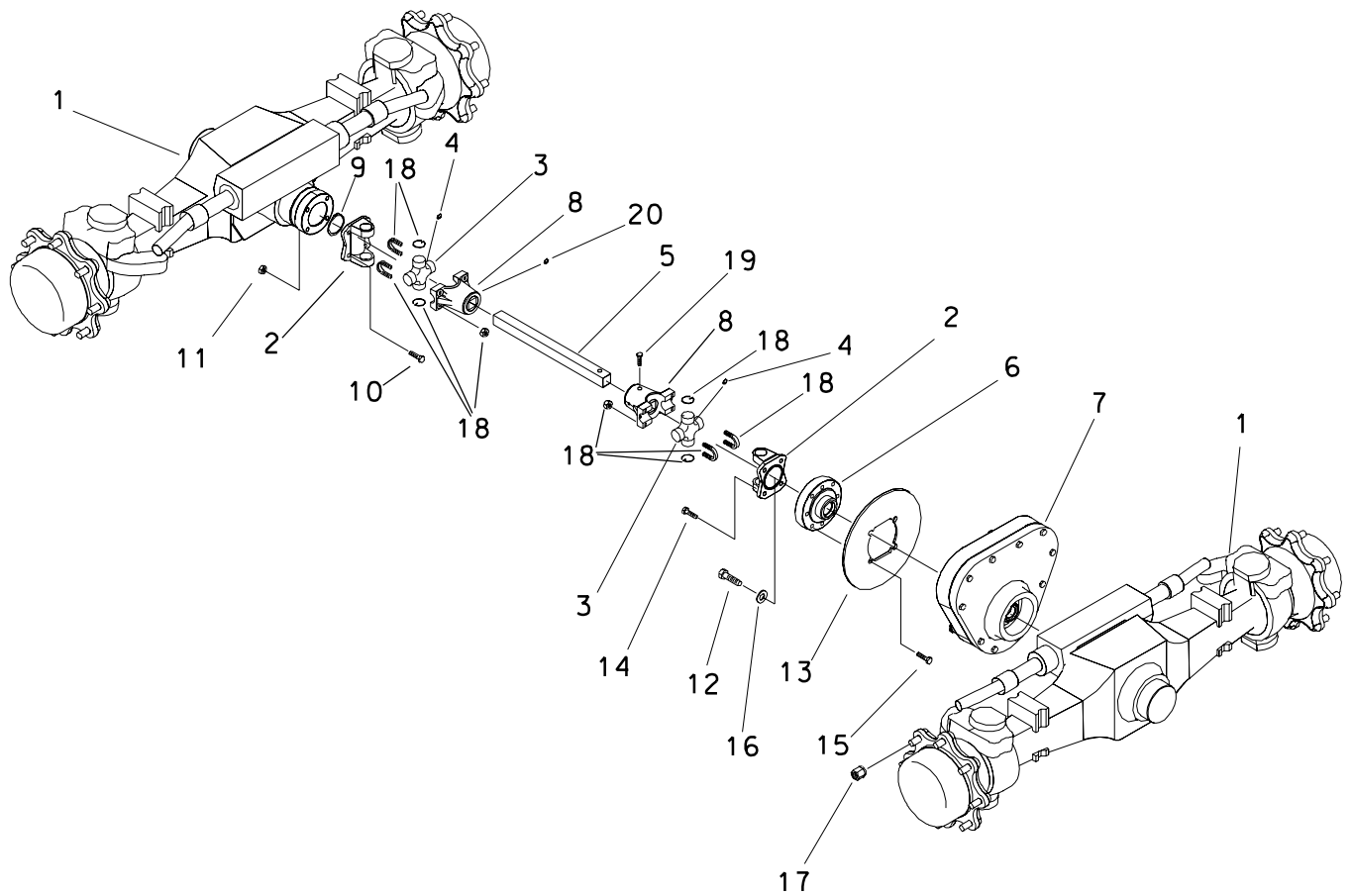
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	105-002	4	BOLT (1/2-NC X 2-1/2")	
2.	105-362	1	FLANGE NUT (7/8-NF)	LOCTITE (RED) RC271 / RC272
3.	105-516	1	ROLL PIN (3/16" X 1-1/2")	
4.	125-1066	2	TAPERED BEARING SET (2.250")	SUPERCEDES 125-260 & 125-284
5.	155-807	4	INTERNAL SEAL (1.500")	FRONT ONLY
6.	125-285	1	TAPERED ROLLER BEARING (1.25")	
7.	125-286	1	BEARING RACE ((2.875")	
8.	125-295	1	TAPERED ROLLER BEARING (1.625")	
9.	125-296	1	BEARING RACE (3.5")	
10.	155-853	1	PINION SEAL (1.875")	FRONT ONLY
	157-569	1	INTERNAL SEAL (1.875")	3500 & 3700 REAR
11.	161-297	1	FRONT AXLE HOUSING	WITH GEARS, SEE FOOTNOTE 2; INCL REF #5
	161-293	1	REAR RIGID AXLE HOUSING	WITH GEARS, SEE FOOTNOTE 2
12.	165-613	1	COVER GASKET	
13.	501-142	AR	SHIM (.003")	
	501-143	AR	SHIM (.005")	
	501-144	AR	SHIM (.010")	
	501-145	AR	SHIM (.032")	
14.	501-149	1	SLINGER	
15.	501-150	12	BOLT (1/2-NF X 1-1/8")	
16.	501-153	10	FLG LK BOLT (3/8-NC X 5/8")	
17.	501-160	2	SPIDER GEAR	
18.	501-161	1	SPIDER SHAFT	
19.	501-162	2	PINION GEAR SHIM (.032")	
20.	501-163	AR	SHIM (.003")	
	501-164	AR	SHIM (.005")	
	501-165	AR	SHIM (.010")	
	501-166	AR	SHIM (.030")	
21.	501-167	AR	SHIM (.003")	
	501-168	AR	SHIM (.005")	
	501-169	AR	SHIM (.010")	
22.	501-287	1	DIFFERENTIAL COVER	
23.	501-766	2	AXLE GEAR (1.5" - 35T)	
24.	501-341	1	CLUTCH PACK	
25.	501-767	1	RING GEAR & PINION (5.86:1 RATIO)	INCL REF #'S 2,6-10,12,13,15,20,21, & 27.
26.	161-278	1	CARRIER PARTS ASS'Y	INCL REF #'S 3,17-19,23 & 24
27.	501-425	1	OIL BAFFLE	

FOOTNOTES:

1. REFER TO ASSEMBLY INSTRUCTIONS 052-184
2. INCLUDES AXLE TUBES, DIFFERENTIAL CENTER CASTING, & ITEMS 1-9,12-28. LESS PINION SEAL & AXLE SHAFTS.

NOTE:

LOWER DRIVE LINE PLANETARY OPTION



LOWER DRIVE LINE PLANETARY OPTION

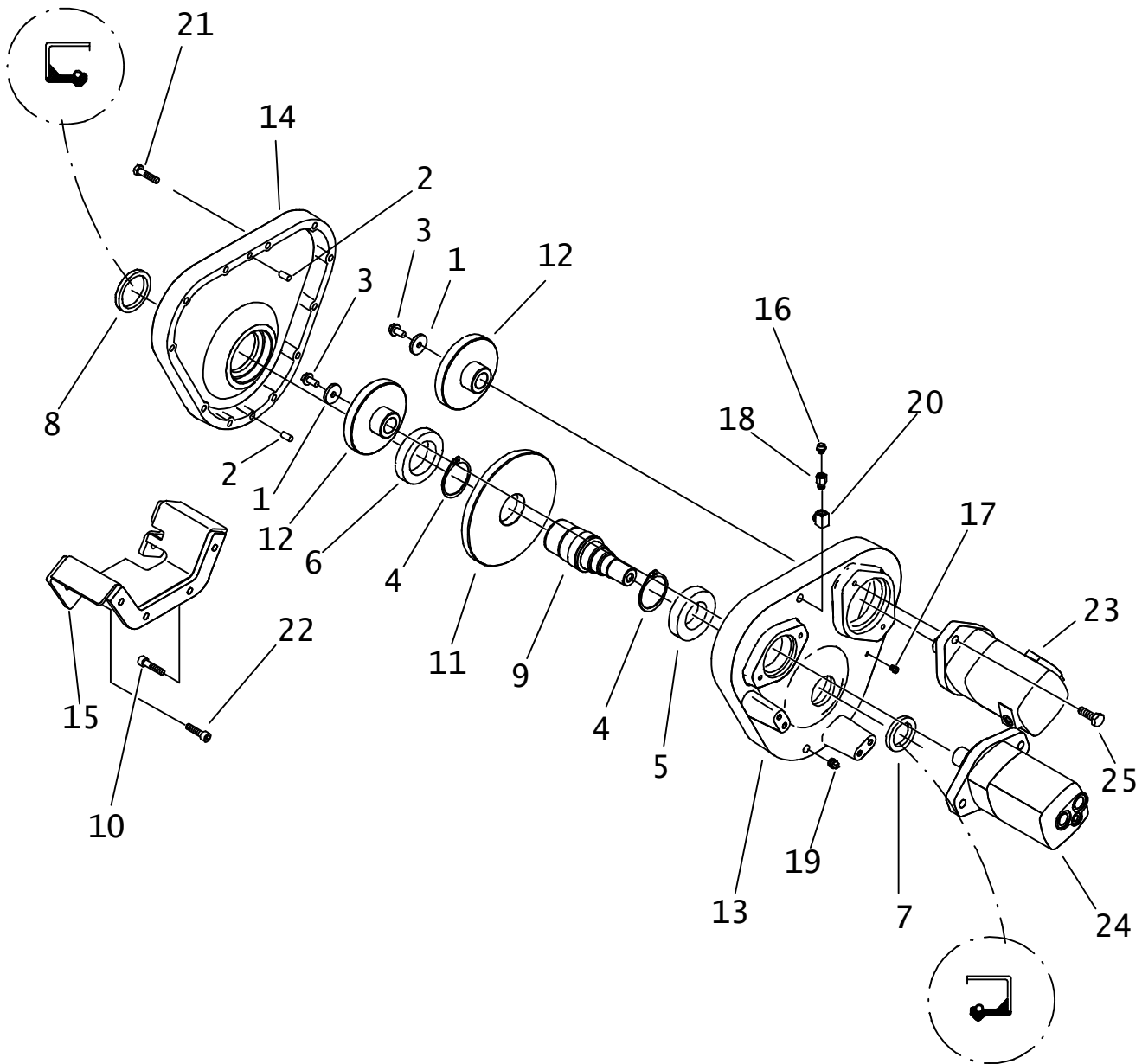
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	161-251	2	PLANETARY DIFFERENTIAL	INCL REF NO 9
2.	182-173	2	FLANGE YOKE	
3.	182-145	2	CROSS / BEARING KIT (1-3/16")	INCL REF NO 4
4.	115-003	1	ZERK (1/4-NF, STR)	
5.	165-566	1	DRIVE SHAFT	
6.	178-039	1	FLANGE	
7.	166-165	1	GEAR BOX	
8.	182-213	2	YOKE (1.125", SQ)	
9.	118-048		EXTERNAL SNAP RING (1.062")	
10.	106-974	4	BOLT (7/16-NF X 1.25", GD8)	
11.	105-188	4	LOCKNUT (7/16- NF)	
12.	105-172	1	BOLT (1/2-NF X 1")	
13.	160-765		BRAKE DISC	SEE FOOTNOTE 1
14.	105-289	4	BOLT (7/16-NC X 1")	
15.	105-826	4	FLG LK BOLT (3/8-NC X 1")	
16.	105-884	1	WASHER (1/2")	
17.	106-035	32	LUG NUT (M18-1.5)	
18.	182-146	2	U-BOLT KIT	
19.	105-827	1	FLG LK BOLT (3/8-NC X 1-1/4")	
20.	115-001	1	ZERK (02N)	

FOOTNOTES

1. SEE PARTS PAGE 805-306 "PARKING BRAKE"

NOTE

PLANETARY DRIVE GEAR BOX



PLANETARY DRIVE GEAR BOX

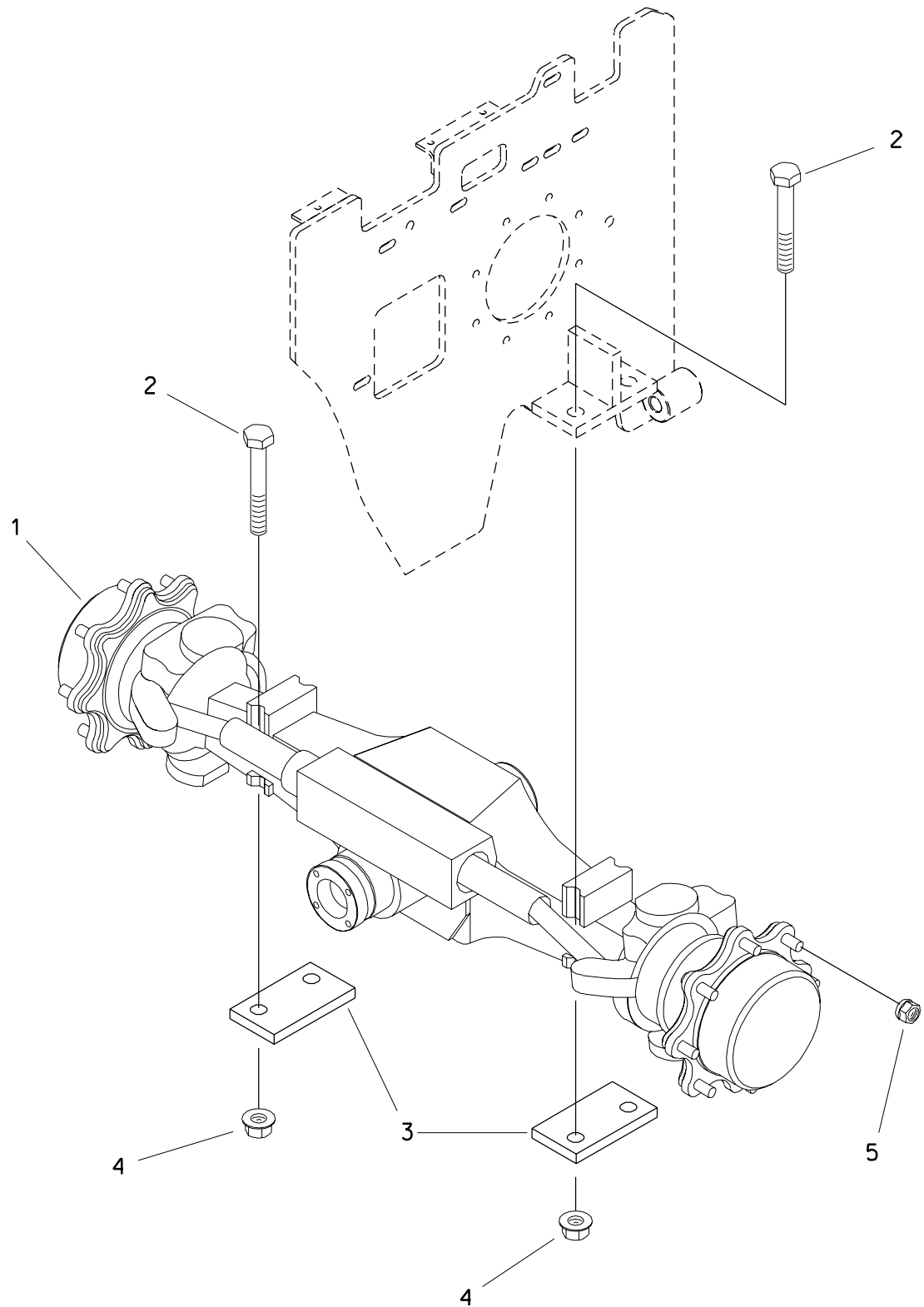
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	166-165		GEAR BOX PARTS ASS'Y	INCLUDES REF NO'S 1 - 25
1.	105-069	2	WASHER (3/8")	
2.	105-517	2	DOWEL PIN (.375" X 1")	
3.	105-848	2	BOLT (3/8-NC X 3/4 ")	
4.	115-457	2	EXTERNAL SNAP RING (2.50")	
5.	125-040	1	BALL BEARING (1.968")	
6.	125-129	1	BALL BEARING (60mm)	
7.	155-895	1	INTERNAL SEAL (1.688")	
8.	157-719	1	EXTERNAL SEAL (60mm)	
9.	167-325	1	OUTPUT SHAFT	
10.	105-281	4	BOLT (3/8-NC X 2-1/2", ALN, GD8)	
11.	168-042	1	OUTPUT GEAR (47T)	
12.	168-043	2	PINION (29T)	
13.	169-079	1	FRONT HOUSING	
14.	169-080	1	REAR HOUSING	
15.	328-353	1	GEAR BOX TORQUE ARM	
16.	159-003	1	AIR VENT (02N)	
17.	115-446	1	PLUG (02N, ALN, SS)	
18.	115-127	1	REDUCER (08N-02NF)	
19.	115-211	1	PLUG (08N, SQ, MAG)	
20.	115-115	1	STREET ELBOW (08N-08NF90)	
21.	105-883	8	FLG LOCK BOLT (3/8-NC X 2")	
22.	106-707	4	SCREW (M12-1.75 X 45mm, ALN)	
22.	106-707	4	SCREW (M12-1.75 X 45mm, ALN)	
23.	149-040	1	HYDRAULIC MOTOR	
24.	158-932	1	HYDRAULIC MOTOR	
25.	106-204	4	BOLT (1/2-NC X 1-1/2", ALN)	

NOT SHOWN:

FOOTNOTES:

NOTE:

REAR DIFFERENTIAL 5700 PLANETARY OPTION

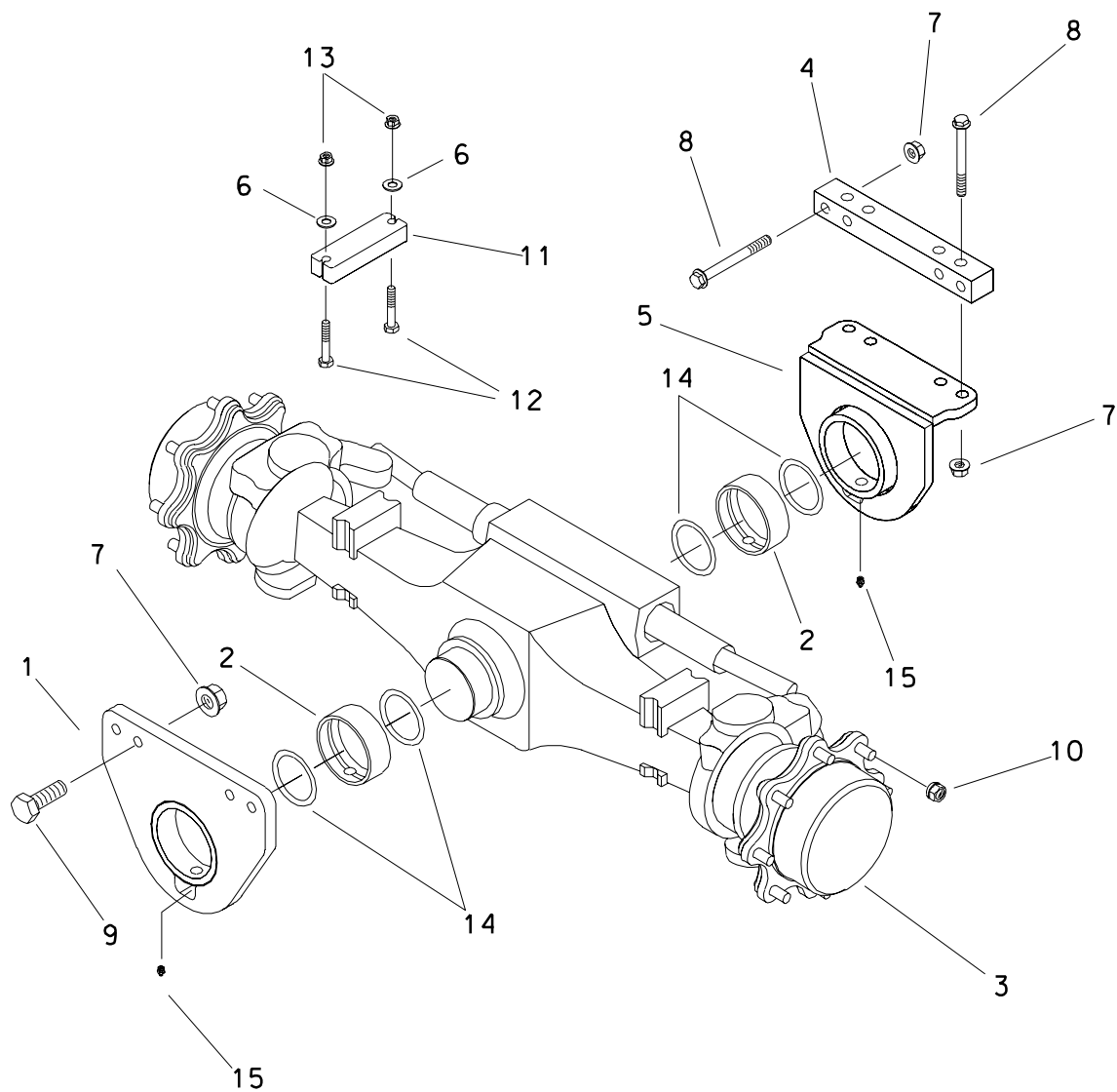


REAR DIFFERENTIAL 5700 PLANETARY OPTION

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	161-251	1	PLANETARY DIFFERENTIAL	
2.	105-973	4	BOLT (1-NC X 9")	
3.	312-552	2	BASE PLATE	
4.	105-919	4	FLG NUT (1-NC)	
5.	106-035	16	LUG NUT (M18-1.5)	

FOOTNOTES

FRONT DIFFERENTIAL 5700 PLANETARY OPTION



FRONT DIFFERENTIAL

5700 PLANETARY OPTION

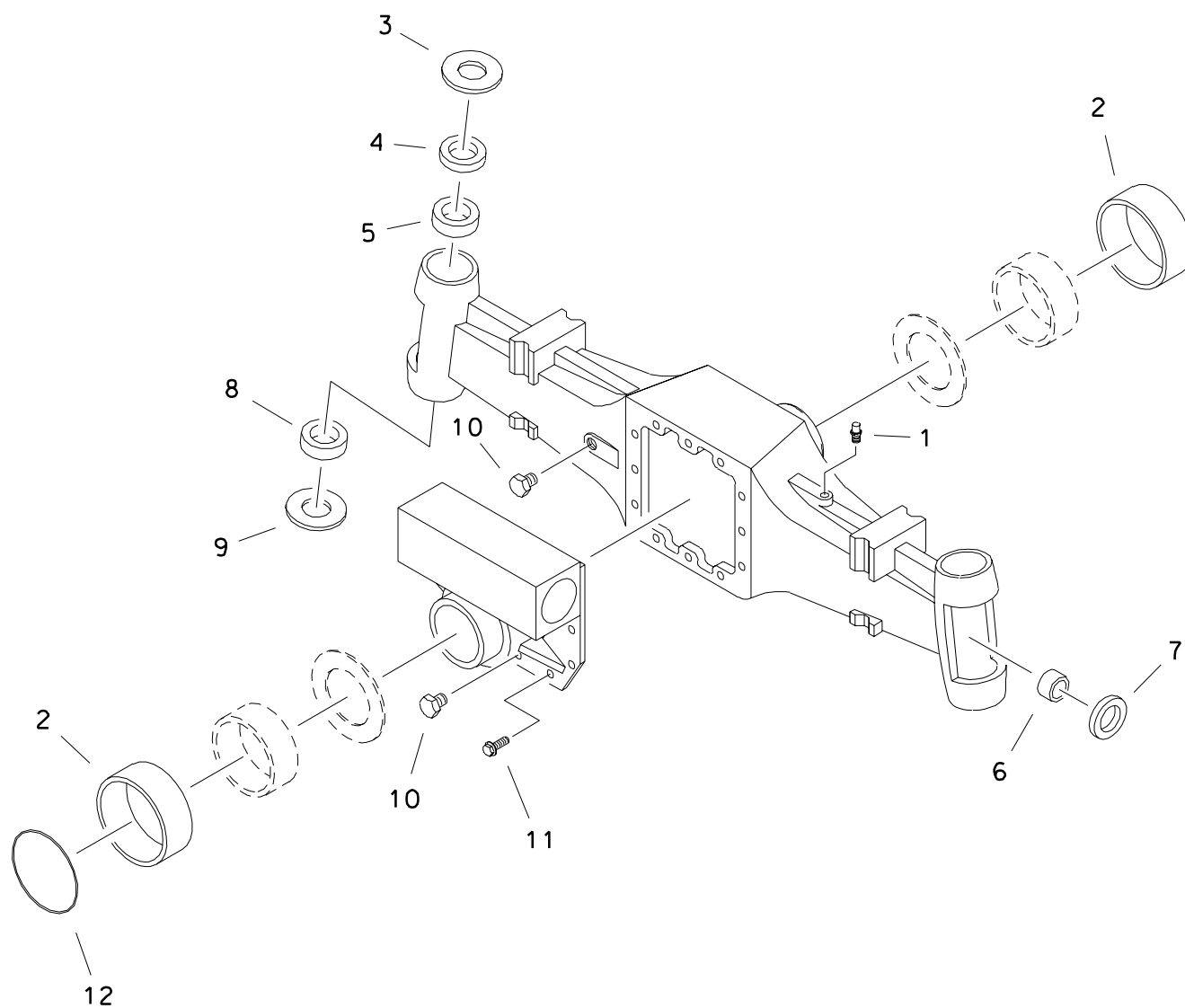
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	328-362	1	FRONT DIFFERENTIAL MOUNT	
2.	179-442	2	BRONZE BUSHING	BEGINS WITH S/N _____
3.	161-251	1	PLANETARY DIFFERENTIAL	
4.	328-364	1	REAR DIFFERENTIAL SUPPORT	
5.	328-363	1	REAR DIFFERENTIAL MOUNT	
6.	105-884	4	WASHER (1/2")	
7.	105-953	12	LOCKNUT (3/4-NC)	
8.	105-365	8	BOLT (3/4-NC X 4")	
9.	106-085	4	BOLT (3/4-NC X 3-1/4", GD_8)	
10.	106-035	16	LUG NUT (M18-1.5)	
11.	328-373	2	AXLE STOP	
12.	105-067	4	BOLT (1/2-NC X 2-3/4")	
13.	105-065	4	LOCKNUT (1/2-NC)	
14.	157-107	4	O-RING (157 D70)	BEGINS WITH S/N _____ SEE FOOTNOTE 1
15.	115-004	2	ZERK (02N45)	BEGINS WITH S/N _____

FOOTNOTES

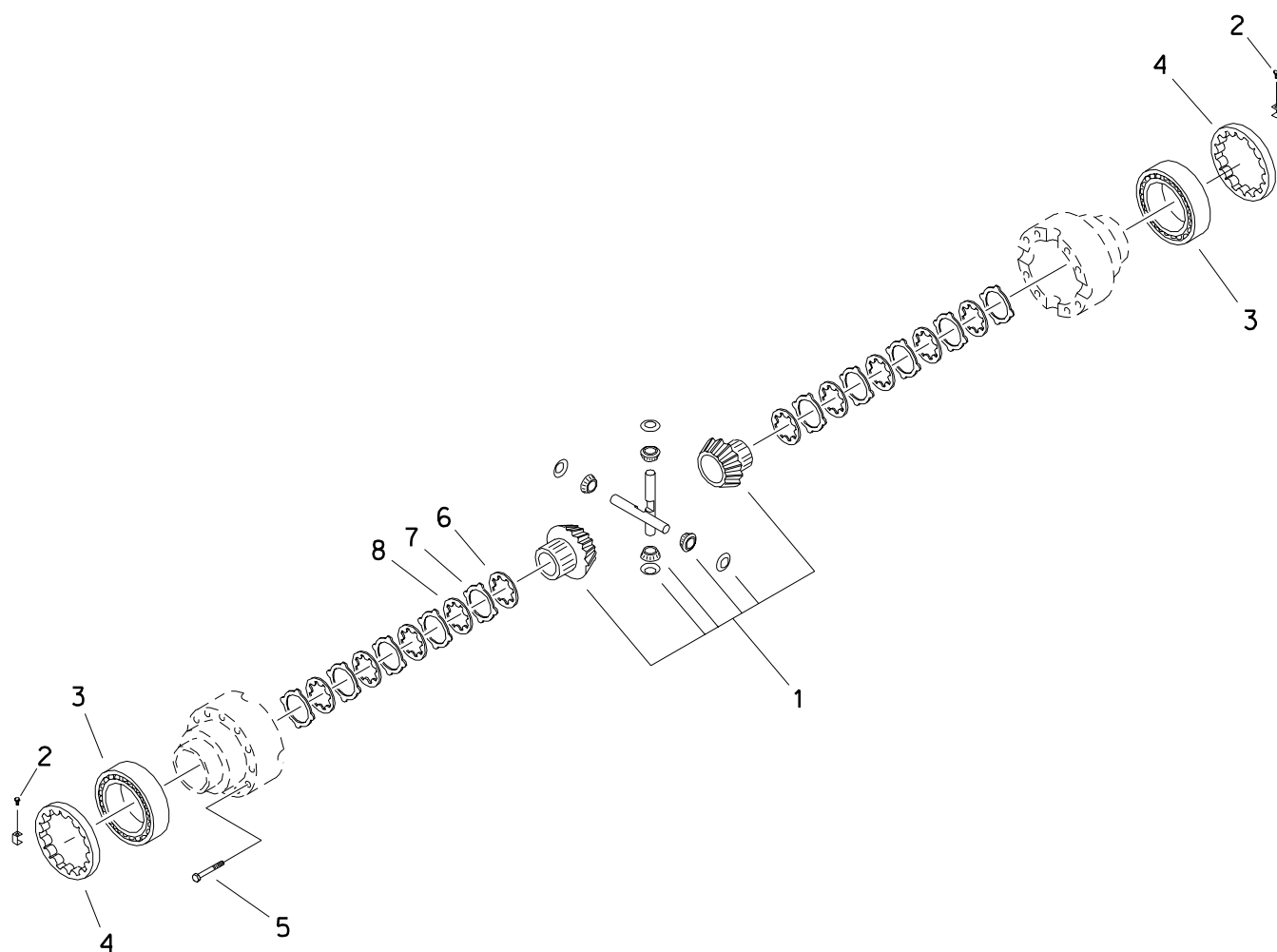
1. INSTALL O-RINGS IN OUTSIDE GROOVES OF BRONZE BUSHING (179-442).

HOUSING COMPONENTS

CARRARO PLANETARY



DIFFERENTIAL CARRARO PLANETARY



DIFFERENTIAL

CARRARO PLANETARY

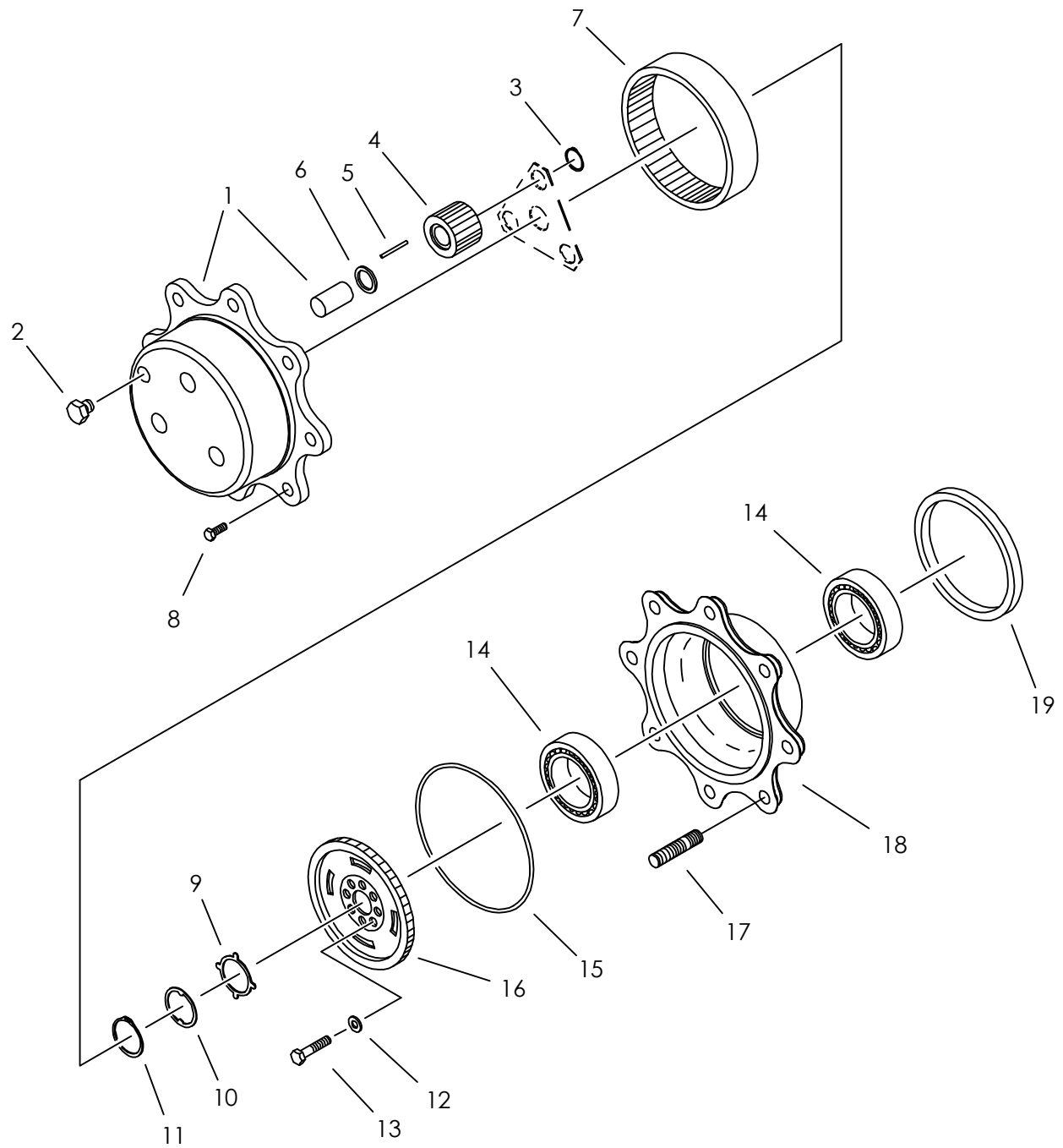
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	501-889	1	DIFFERENTIAL KIT	
2.	107-348	4	BOLT (M6-1X10) SELF-LOCK	
3.	126-202	2	BEARING, DIFF. HOUSING	
4.	501-893	2	RING NUT	
5.	107-346	12	BOLT (M10-1.5X75) SELF-LOCK	
6.	501-890	2	PLATE	
7.	501-891	8	PLATE	
8.	501-892	10	DRIVE PLATE	

FOOTNOTES

2 LOCKING PLATE
1 DIFFERENTIAL HOUSING
NOT AVAILABLE AT THIS TIME

CARRIER (CARRARO PLANETARY)

CARRARO PLANETARY



CARRIER (CARRARO PLANETARY)

CARRARO PLANETARY

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	161-313	2	CARRIER	INCL REF 2 THRU 19
2.	114-036	2	PLUG, CARRIER	
3.	118-060	6	EXTERNAL SNAP RING	
4.	501-894	6	PLANETARY GEAR, (Z=23)	
5.	126-203	18	BEARING, NEEDLE	
6.	501-895	6	THRUST WASHER	
7.	501-896	6	CROWN GEAR, (Z=60)	
8.	107-349	4	BOLT (M8X20)	
9.	501-897	2	THRUST WASHER	
10.	501-898	2	WASHER	
11.	118-061	2	EXTERNAL SNAP RING	
12.	178-175	12	CENTERING BUSHING	
13.	107-350	12	BOLT, (M10X45) SELF-LOCK	
14.	499-531	4	BEARING	
15.	157-224	2	O-RING	
16.	501-899	2	WHEEL CARRIER	
17.	107-351	16	STUD, WHEEL HUB	
18.	501-900	2	WHEEL HUB (INCLUDES 17)	
19.	157-749	2	SEAL, CASSETTE	

NOT SHOWN:

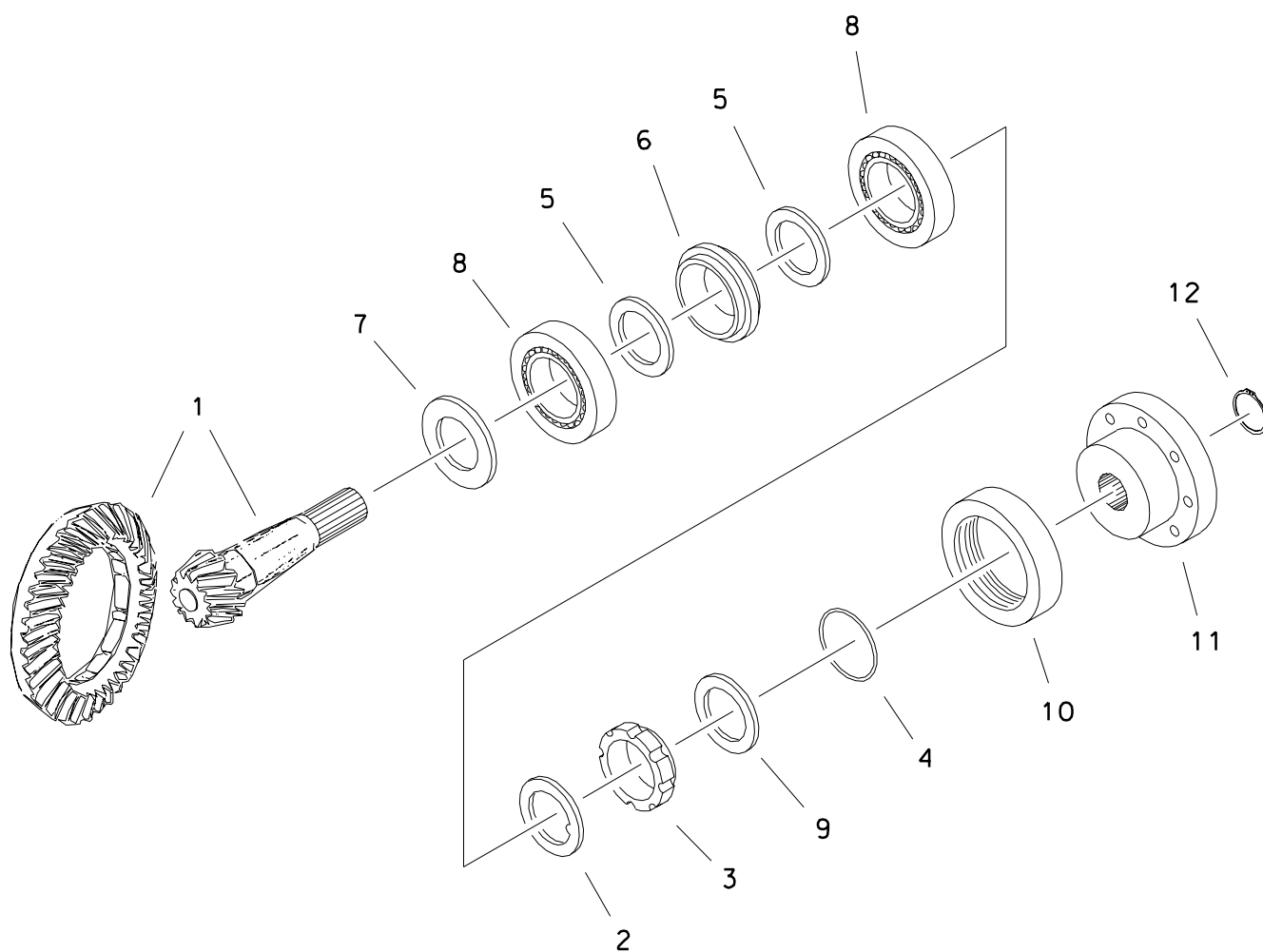
FOOTNOTES:

2 LOCK PIN
2 THRUST WASHER
2 LOCK RING

NOT AVAILABLE AT THIS TIME

NOTE:

RING GEAR AND PINION CARRARO PLANETARY



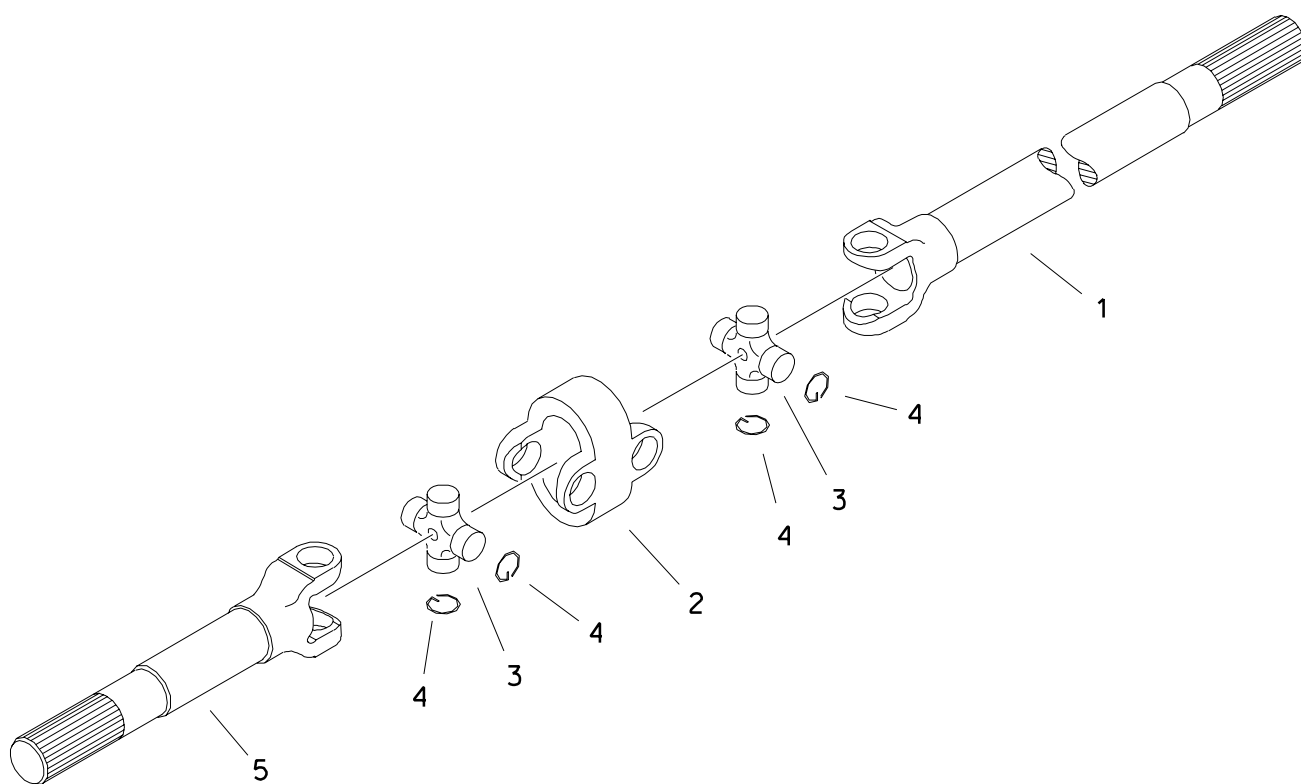
RING GEAR AND PINION

CARRARO PLANETARY

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	501-883	1	RING GEAR & PINION SET	INCL REF. 2 THRU 6
2.	501-884	1	LOCKWASHER	
3.	501-885	1	RING NUT M35-1.5	
4.	157-220	1	O-RING	
5.	107-347	2	WASHER 45mm X35.5mm X 2mm	
6.	501-886	1	SPACER, COLLAPSIBLE	
7.	168-606	AR	SHIM (2.50mm)	
	168-607	AR	SHIM (2.60mm)	
	168-608	AR	SHIM (2.70mm)	
	168-609	AR	SHIM (2.80mm)	
	168-610	AR	SHIM (2.90mm)	
	168-611	AR	SHIM (3.00mm)	
	168-612	AR	SHIM (3.10mm)	
	168-613	AR	SHIM (3.20mm)	
	168-614	AR	SHIM (3.30mm)	
	168-615	AR	SHIM (3.40mm)	
8.	126-201	2	BEARING	
9.	501-887	1	WASHER 45mm X 31.35mm X 3mm	
10.	157-748	1	OIL SEAL	
11.	501-888	1	FLANGE	
12.	118-058	1	EXTERNAL SNAP RING	

FOOTNOTES:

DRIVE SHAFT CARRARO PLANETARY

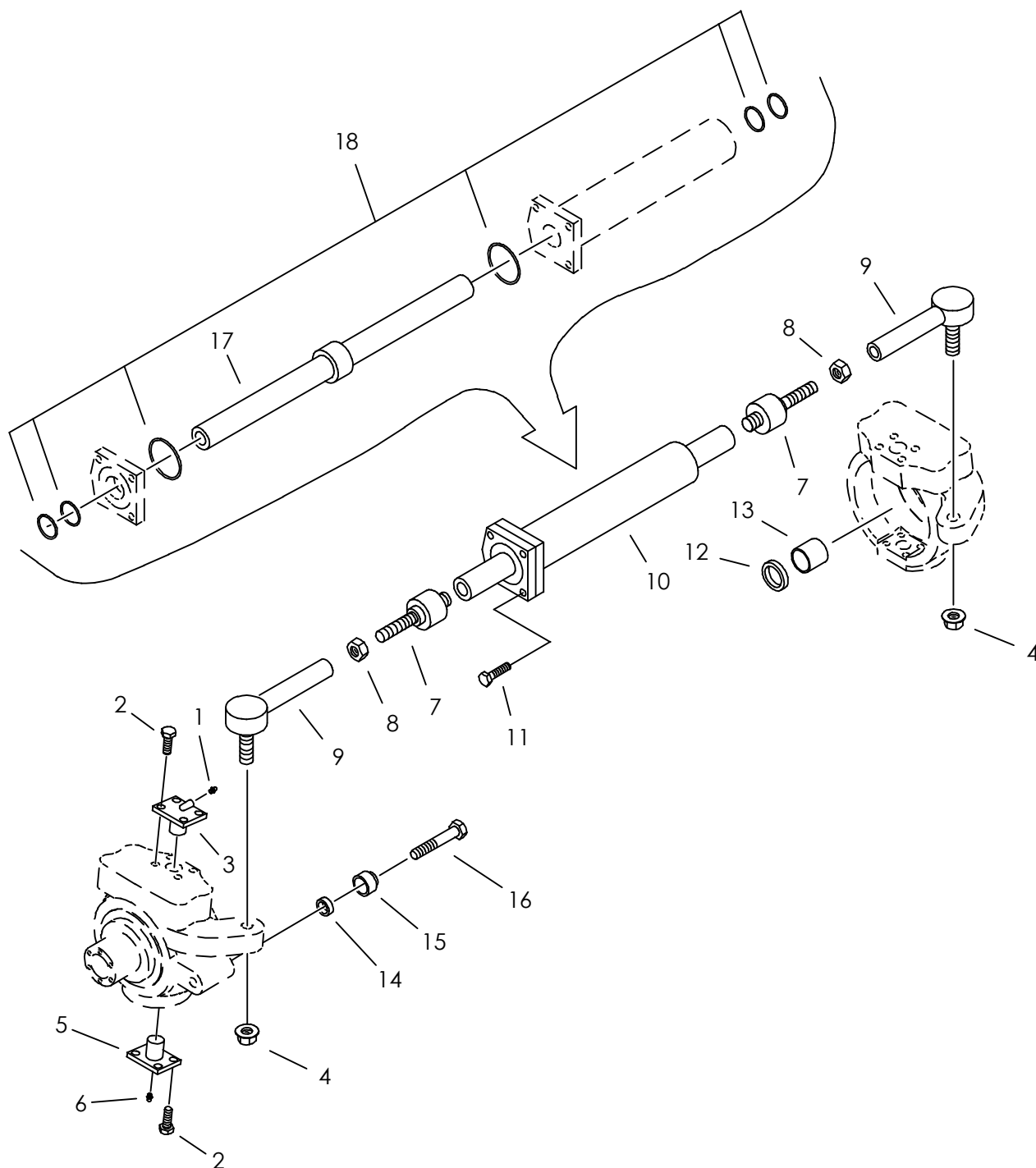


DRIVE SHAFT
CARRARO PLANETARY

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	161-309	2	DRIVE SHAFT	INCL REF. 1 THRU 5
1.	161-310	2	HALF SHAFT, DIFF SIDE	
2.	161-311	2	CENTRAL BODY (DOUBLE JOINT)	
3.	182-228	4	'SPIDER' U-JOINT	INCL REF. 5
4.	118-059	16	EXTERNAL SNAP RING	
5.	161-312	2	HALF SHAFT, WHEEL SIDE	

FOOTNOTES

STEERING ARM CARRARO PLANETARY



STEERING ARM CARRARO PLANETARY

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	115-065	2	ZERK M6-1	
2.	107-341	16	BOLT M12-1.75 X 30mm	
3.	501-882	2	KING PIN, SWIVEL HOUSING	
4.	107-342	2	NUT (M18-1.5) SELF-LOCK	
5.	501-881	2	KING PIN, SWIVEL HOUSING	
6.	115-066	2	ZERK M6-1X45 DEGREES	
7.	162-028	2	BALL JOINT	
8.	107-343	2	NUT (M18-1.5)	
9.	162-029	2	STEERING ARM	
10.	162-030	1	STEERING CYLINDER	INCL REF. 17
11.	107-344	4	BOLT (M12X45MM) SELF-LOCK	
12.	157-747	2	OIL SEAL	
13.	178-172	2	BUSHING	
14.	178-173	2	BUSHING	
15.	178-174	2	BUSHING	
16.	107-345	2	BOLT (M16X100MM)	
17.	162-031	1	TIE ROD	OBSOLETE
18.	190-894	1	OIL SEAL KIT	

NOT SHOWN:

FOOTNOTES:

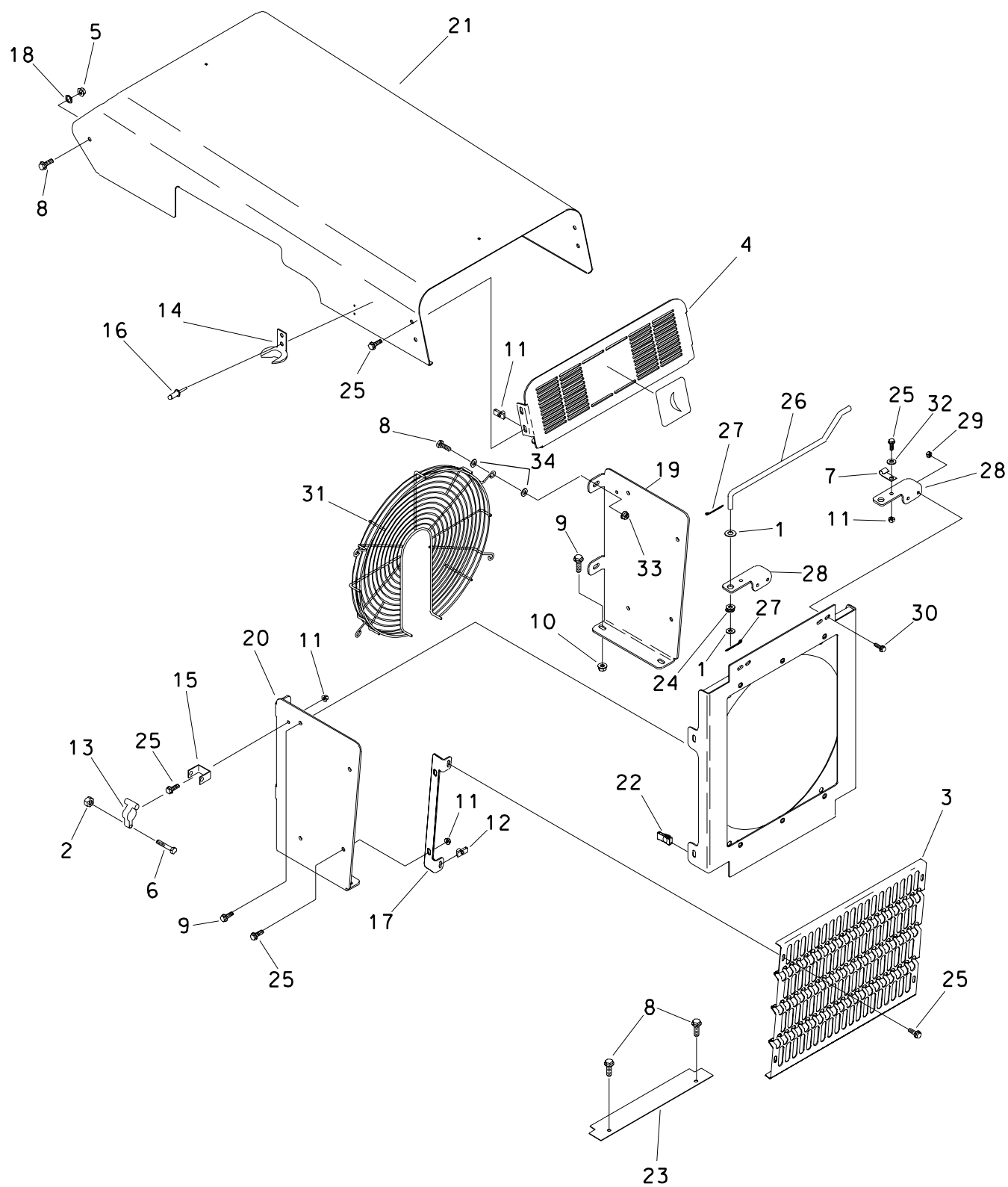
NOTE:

NOTES:

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POWER TRAIN

HOOD AND GRILLE

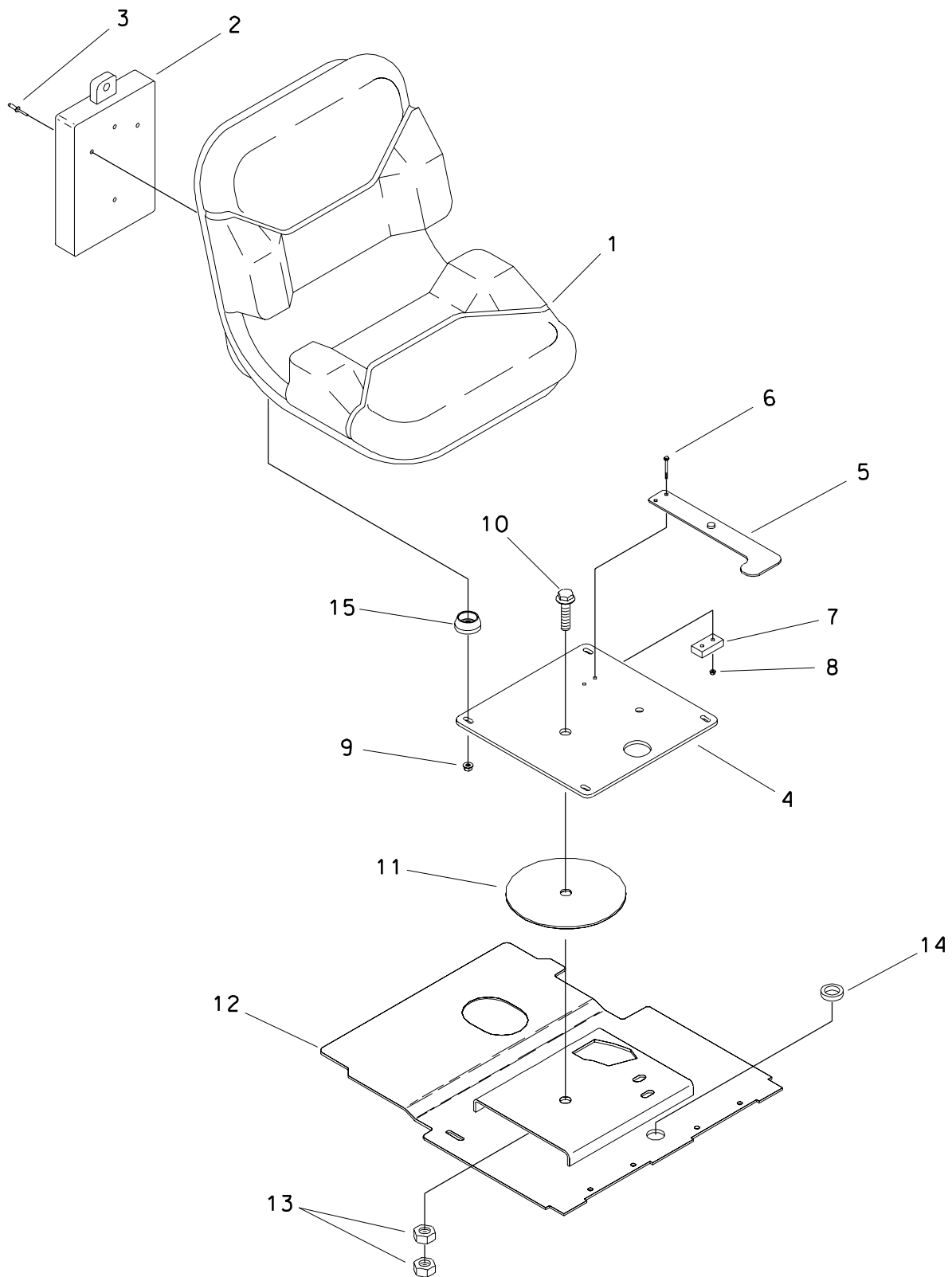


HOOD AND GRILLE

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	105-118	2	WASHER (3/8")	
2.	105-085	2	LOCKNUT (1/4-NC)	
3.	313-508	1	GRILLE	
4.	328-297	1	GRILLE PLATE	
5.	105-814	2	FLG LOCKNUT (3/8-NC)	
6.	105-818	2	BOLT (1/4-NC X 1-1/2")	
7.	110-492	1	J-CLIP (5/16-NC)	
8.	105-826	8	FLG BOLT (3/8-NC X 1-1/4")	
9.	105-826	12	FLG LK BOLT (3/8-NC X 1")	
10.	105-845	8	FLG LOCKNUT (3/8-NC)	
11.	105-003	7	FLG LOCKNUT (5/16-NC)	
12.	105-137	8	CLIP NUT (5/16-NC)	
13.	110-222	2	HOOD LATCH	
14.	110-223	2	HOOD LATCH BRACKET	
15.	110-224	2	ANCHOR BRACKET	
16.	110-253	4	POP RIVET (3/16" x 1/2")	
17.	313-510	2	GRILLE MOUNT	
18.	115-656	2	FRICTION WASHER (1/2")	
19.	328-298	1	LEFT FRONT SIDE PLATE	
20.	328-299	1	RIGHT FRONT SIDE PLATE	
21.	328-296	1	HOOD	
22.	105-853	4	CLIP NUT (3/8-NC)	
23.	362-581	1	COVER PLATE	
24.	502-001	1	GRDMMET (3/8")	
25.	105-823	4	FLG LK BOLT (5/16 NC X 3/4")	
26.	313-073	1	HOOD PROP ROD	
27.	105-508	2	COTTER PIN (3/32" X 1")	
28.	328-459	2	PROP BRACKET	
29.	106-386	4	FLG LOCKNUT (M8-1.25)	
30.	106-162	4	FLG SCREW (M8-1.25 X 20MM, 8.8)	
31.	194-624	1	FAN GUARD	
32.	105-117	1	WASHER (5/16")	
33.	105-834	4	FLG LOCKNUT (3/8")	
34.	105-117	8	WASHER (5/16")	

FOOTNOTES

SWIVEL SEAT

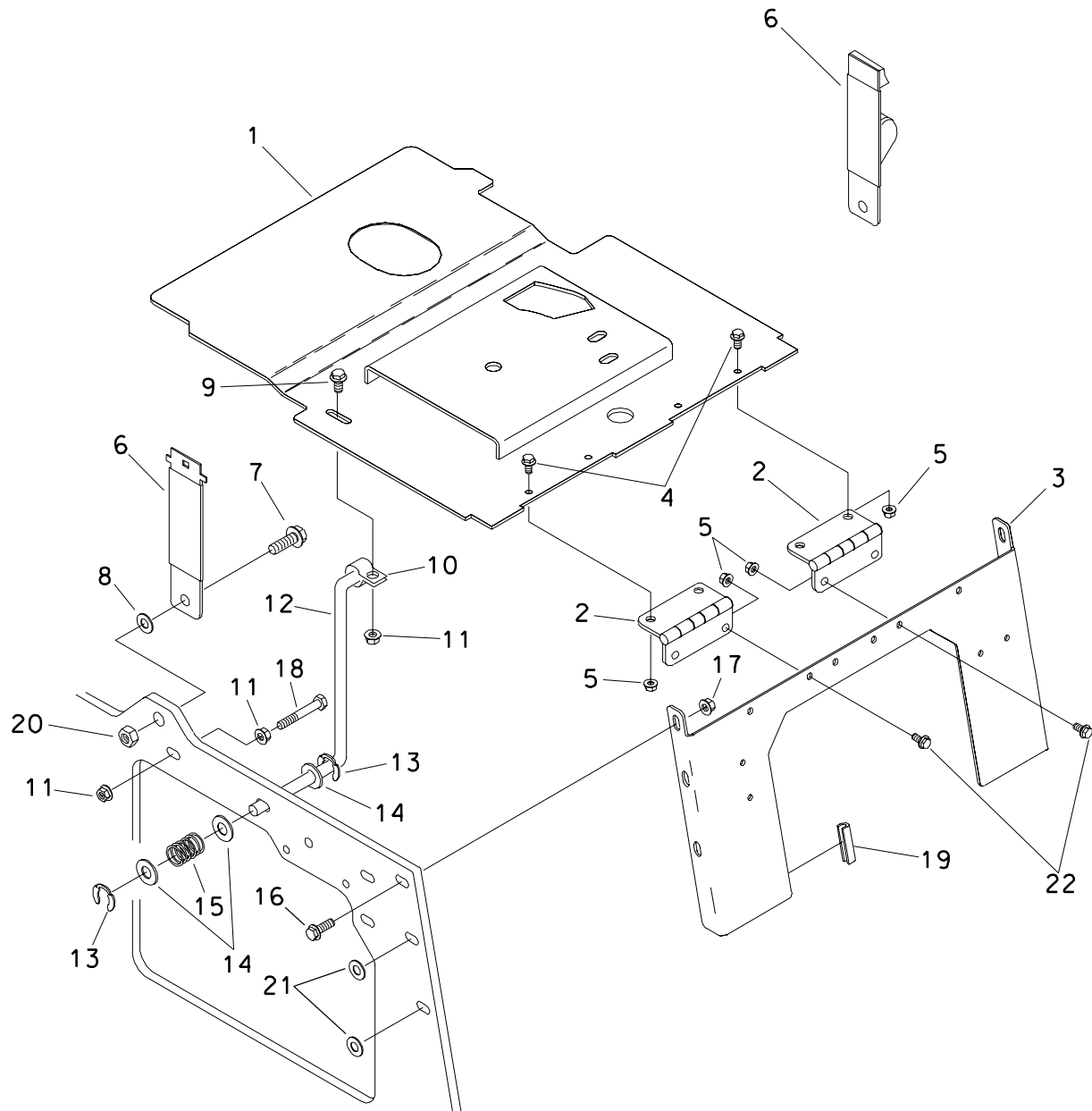


SWIVEL SEAT

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	115-425	1	SEAT	INCL SEAT TRACK & SWITCH
	115-428		SEAT TRACK SET	
	217-750		SEAT SWITCH	OPERATOR PRESENCE
	115-445		REPLACEMENT SEAT	
2.	250-622	1	MANUAL COMPARTMENT	
3.	110-253	2	POP RIVET (3/16" X 1/2")	
4.	313-532	1	SEAT MOUNT	
5.	328-413	1	SEAT LATCH	
6.	105-827	2	FLG LK BOLT (3/8-NC X 1-1/4")	
7.	328-414	1	SEAT STOP	
8.	105-834	2	FLG LOCKNUT (3/8-NC)	
9.	105-003	4	FLG LOCKNUT (5/16-NC)	
10.	105-379	1	FLG LK BOLT (3/4-NC X 1-1/4")	
11.	116-795	1	SEAT SWIVEL DISC	
12.	328-352		SEAT DECK	
13.	105-338	2	LOCKNUT (3/4-NC)	
14.	115-355	1	GROMMET (1-3/8")	
15.	105-267	4	CUP WASHER (5/16")	

FOOTNOTES

SEAT DECK

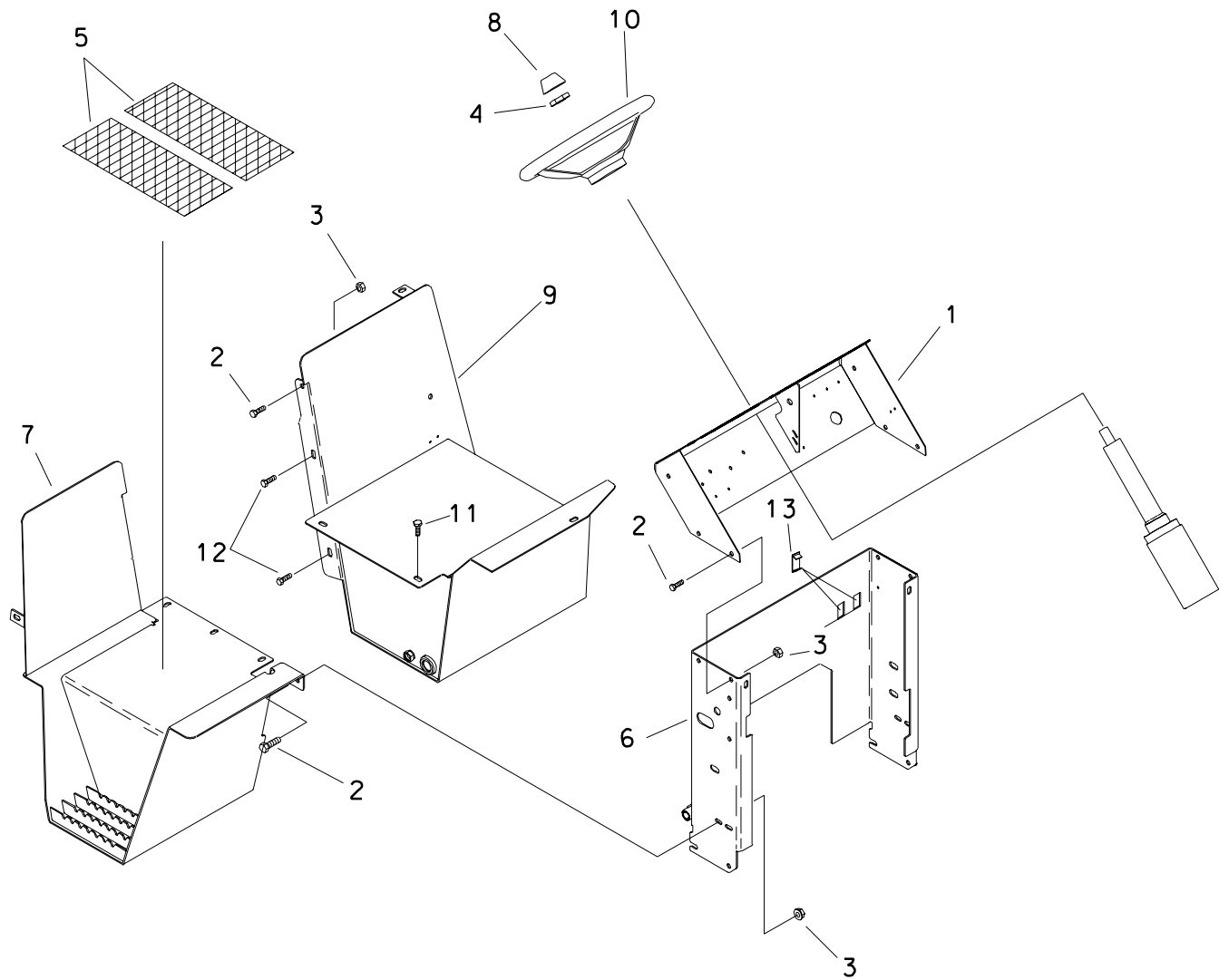


SEAT DECK

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	328-352	1	SEAT DECK	
2.	110-043	2	HINGE (6")	
3.	313-548	1	SEAT DECK MOUNT	
4.	501-325	4	FLG LK BOLT (5/16-NC X 5/8")	
5.	105-003	8	FLG LOCKNUT (5/16-NC)	
6.	110-272	1	SEAT BELT SET	
7.	105-831	2	FLG LK BOLT (1/2-NC X 1-1/2")	
8.	105-071	2	WASHER (1/2")	
9.	105-825	1	FLG LK BOLT (3/8-NC X 3/4")	
10.	110-126	1	BOLT-ON CLAMP (1/2")	
11.	105-834	3	FLG LOCKNUT (3/8-NC)	
12.	329-049	1	PROP ROD	
13.	115-477	2	GRIP RING (.375")	
14.	105-117	3	WASHER (5/16")	
15.	115-563	1	COMPRESSION SPRING	
16.	105-874	6	FLG LK BOLT (3/8-NC X 1-1/2")	
17.	105-845	4	FLG LOCKNUT (3/8-NC)	
18.	105-183	1	BOLT (3/8-NC X 2-1/2, GD8)	
19.	115-686	AR	BULK EDGE (5/32", SOLD PER 1")	USE 1 @ 35"
20.	105-833	2	FLG LOCKNUT (1/2-NC)	
21.	105-117	4	WASHER (3/8")	
22.	105-823	4	FLG LK BOLT (5/16-NC X 3/4")	

FOOTNOTES

CONSOLE AND STEPS



CONSOLE AND STEPS

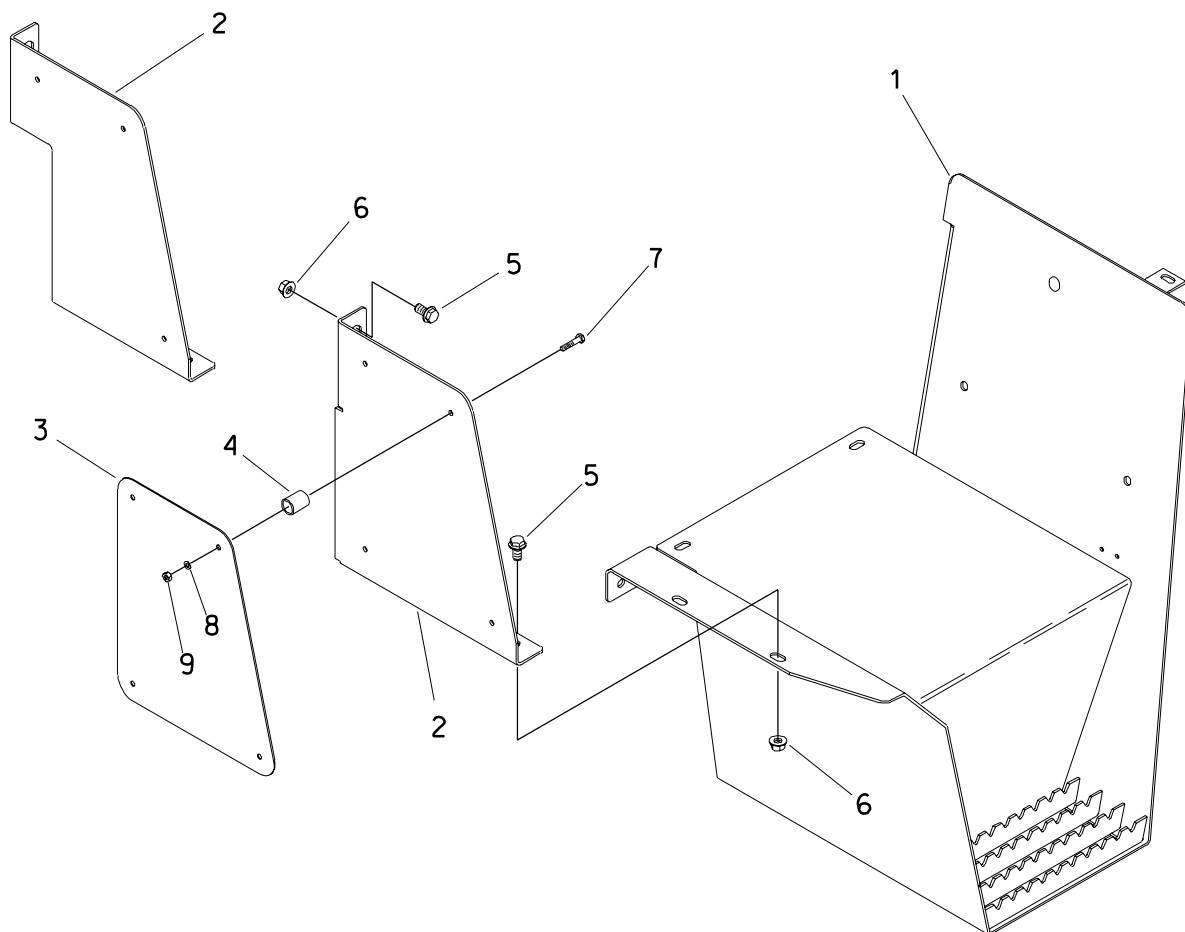
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	365-446	1	CONSOLE	
2.	105-827	10	FLG LOCK BOLT (3/8-NC X 1-1/4")	
3.	105-834	16	FLG LOCKNUT (3/8-NC)	
4.	105-361	1	JAM NUT (13/16-NF)	
5.	115-318	AR	BULK NON-SKID (6", SOLD PER 1')	USE 4 @ 17.5"
6.	328-374	1	FIREWALL	
7.	364-494	1	RIGHT STEP FUEL TANK	SEE FOOTNOTE 1
8.	110-730	1	STEERING WHEEL CAP	
9.	364-512	1	LEFT STEP FUEL TANK	
10.	160-428	1	STEERING WHEEL	
11.	105-826	5	FLG LK BOLT (3/8-NC X 1")	
12.	105-874	4	FLG LK BOLT (3/8-NC X 1-1/2")	
13.	362-823	2	COVER	

FOOTNOTES

1-ORDER SEPARATELY DECAL 275-185

HEAT SHEILD

5700



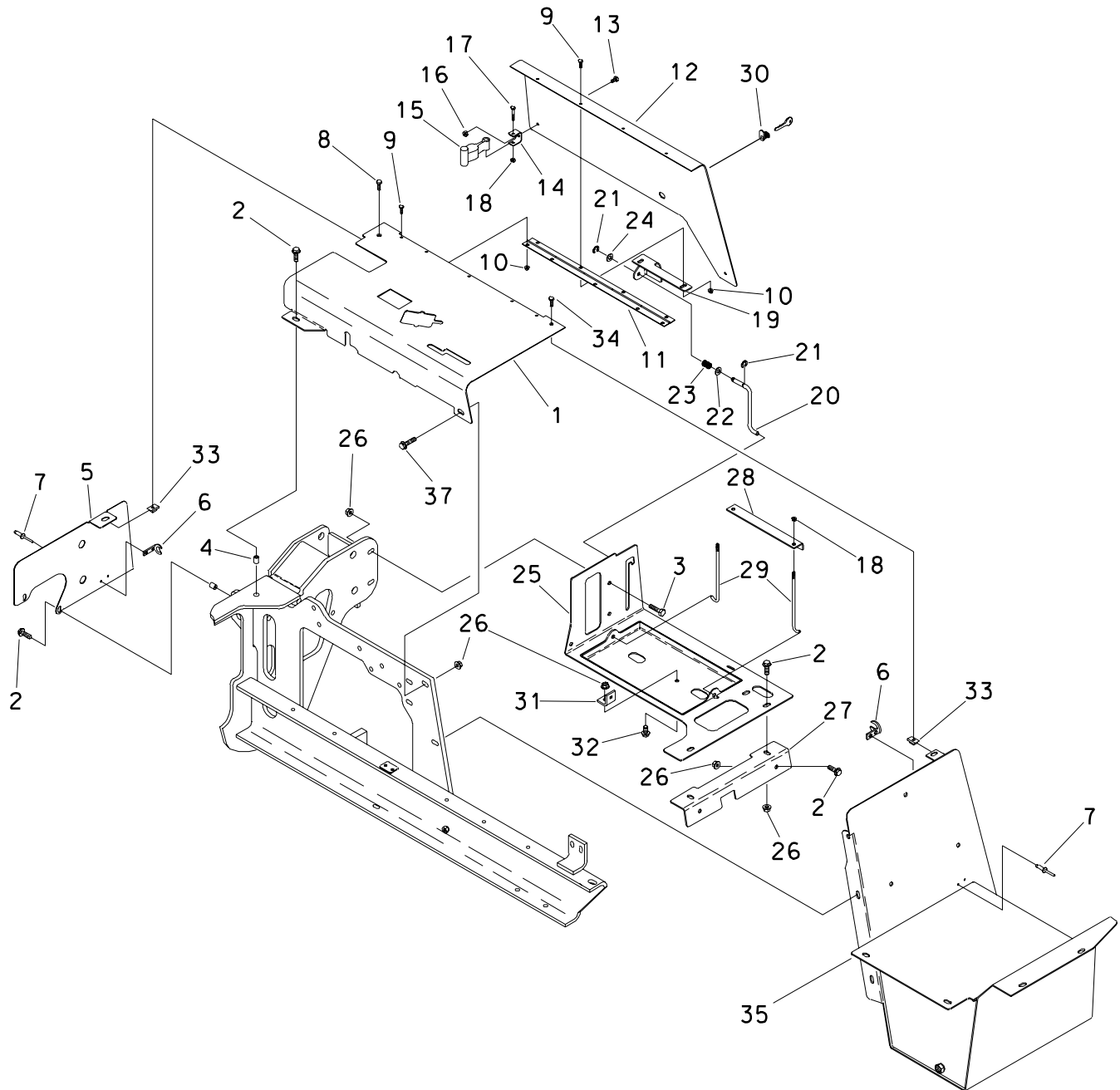
HEAT SHEILD

5700

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	364-512	-	LEFT STEP FUEL TANK	
2.	328-458	1	MUFFLER HEAT SHEILD	
	328-473	1	HEAT SHEILD 4-POST	
3.	328-466	1	HEAT DEFLECTOR	
4.	184-820	4	SPACER	
5.	105-825	3	FLG LK BOLT (3/8-NX X 3/4")	
6.	105-845	3	FLG LOCKNUT (3/8-NC)	
7.	105-856	4	BOLT (1/4-NC X 1-1/4")	
8.	105-284	4	WASHER (3/16")	
9.	105-085	4	LOCKNUT (1/4-NC)	

FOOTNOTES

LEFT FENDER



LEFT FENDER

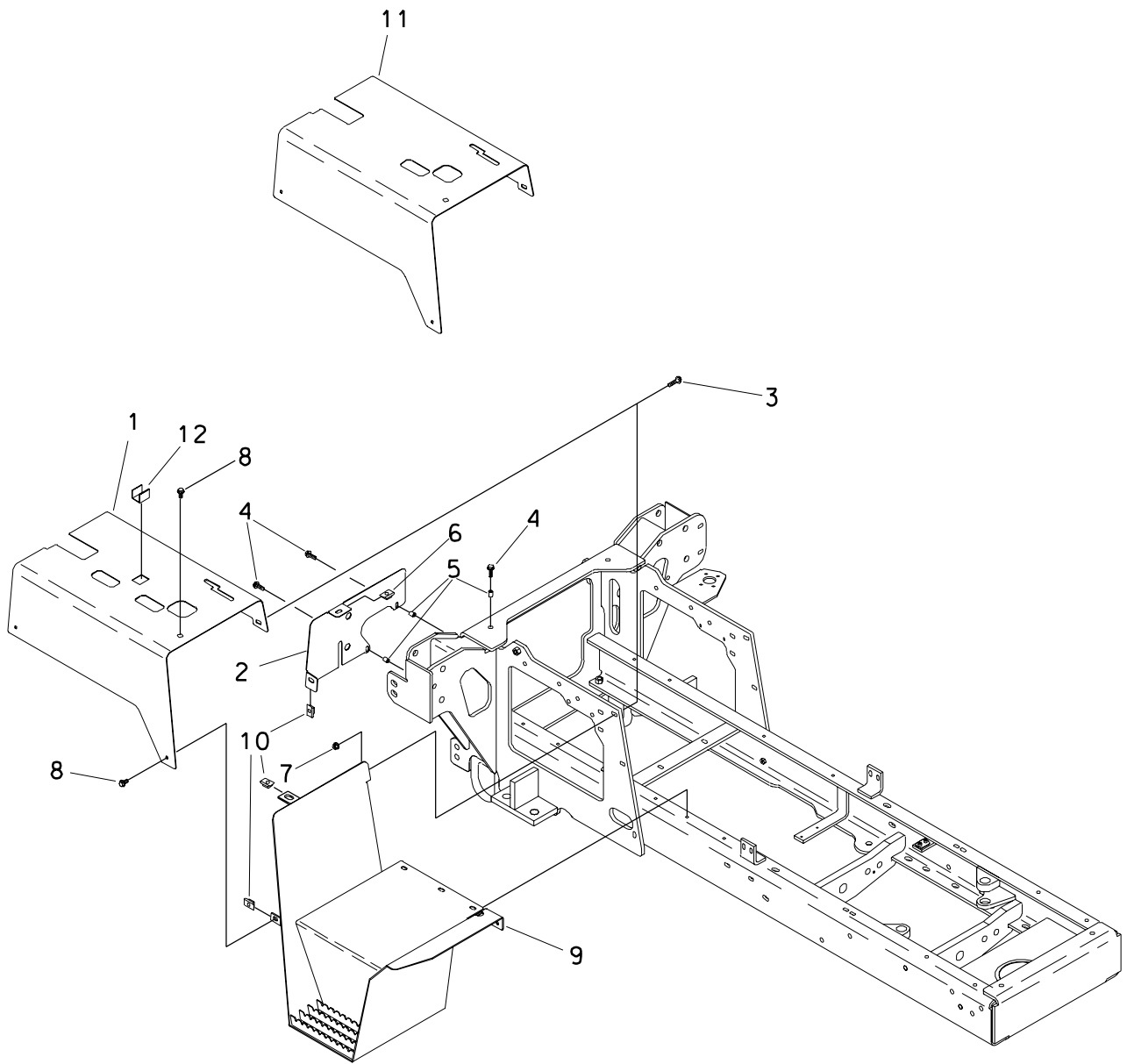
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	328-314	1	LEFT UPPER FENDER	
2.	105-826	6	FLG LK BOLT (3/8-NC X 1")	
3.	105-827	3	FLG LK BOLT (3/8-NC X 1-1/4")	
4.	106-039	2	NUTSERT (3/8-NC)	
5.	328-103	1	LEFT REAR FRAME COVER	
6.	110-223	2	BRACKET	
7.	110-527	4	POP RIVET (3/16" X 1/2")	
8.	105-823	1	FLG LK BOLT (5/16-NC X 3/4")	
9.	105-820	9	BOLT (1/4-NC X 3/4")	
10.	105-832	9	FLG LOCKNUT (1/4-NC)	
11.	110-582	1	HINGE (20-1/2")	
12.	328-106	1	LEFT REAR LOWER FENDER	
13.	105-822	2	FLG LK BOLT (5/16-NC X 1/2")	
14.	110-224	2	ANCHOR BRACKET	
15.	110-222	2	HOOD LATCH	
16.	105-003	2	FLG LOCKNUT (5/16-NC)	
17.	105-818	2	BOLT (1/4-NC X 1-1/2")	
18.	105-085	4	LOCKNUT (1/4-NC)	
19.	363-141	1	FENDER SUPPORT	
20.	365-179	1	ROD FENDER SUPPORT	
21.	115-477	2	GRIP RING (.375")	
22.	105-223	1	WASHER (.406")	
23.	115-563	1	COMPRESSION SPRING	
24.	105-118	1	WASHER (3/8")	
25.	328-155	1	LEFT INNER FENDER	
26.	105-845	9	FLG LOCKNUT (3/8-NC)	
27.	363-144	1	LEFT INNER FENDER SUPPORT	
28.	313-062	1	BATTERY HOLD DOWN	
29.	325-086	2	TIE DOWN ROD (1/4-NC X 7.2")	
30.	117-915	1	CAM LOCK (BASE CODE)	
	214-961		KEY, PAIR (BASE CODE)	
	110-502	1	CAM LOCK	INCL KEY
	110-598		KEY	
31.	361-561	1	OUTSIDE BRACKET	
32.	105-825	3	FLG LK BOLT (3/8-NC X 3/4")	
33.	105-841	2	CLIP NUT (5/16-NC)	
34.	105-823	1	FLG LK BOLT (5/16-NC X 3/4")	
35.	364-069		LEFT FUEL TANK STEP	
36.	105-874	1	FLG LK BOLT (3/8-NC X 1-1/2")	

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215-258 1 BATTERY

FOOTNOTES

RIGHT FENDER

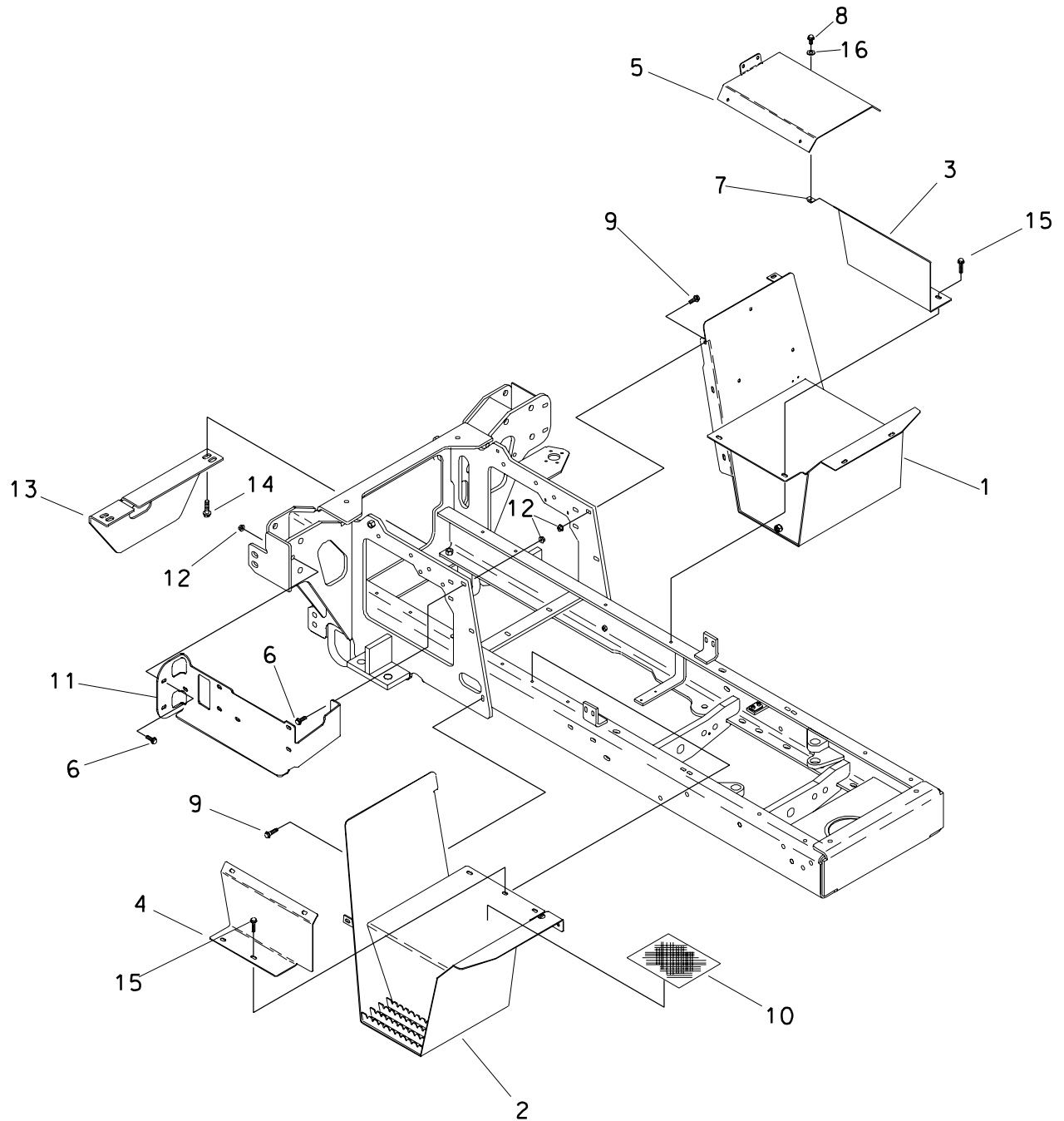


RIGHT FENDER

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	314-384	1	RIGHT REAR FENDER	REAR STEER
	328-211	1	RIGHT REAR FENDER	EARLY STYLE
2.	328-102	1	RIGHT REAR FRAME COVER	
3.	105-874	1	FLG LK BOLT (3/8-NC X 1-1/2")	
4.	105-826	3	FLG LK BOLT (3/8-NC X 1")	
5.	106-039	3	NUTSERT (3/8-NC)	
6.	105-260	1	CLIP NUT (3/8-NC)	
7.	105-845	1	FLG LOCKNUT (3/8-NC)	
8.	105-823	4	FLG LK BOLT (5/16-NC X 3/4")	
9.	364-494	-	RIGHT STEP FUEL TANK	
10.	105-841	3	CLIP NUT (5/16-NC)	
11.	314-490	1	RIGHT REAR FENDER	RIGID HD60
	328-457	1	RIGHT REAR FENDER	EARLY STYLE
12.	110-854	1	SWITCH ACTUATOR GUARD	

FOOTNOTES

STEPS AND COVERS

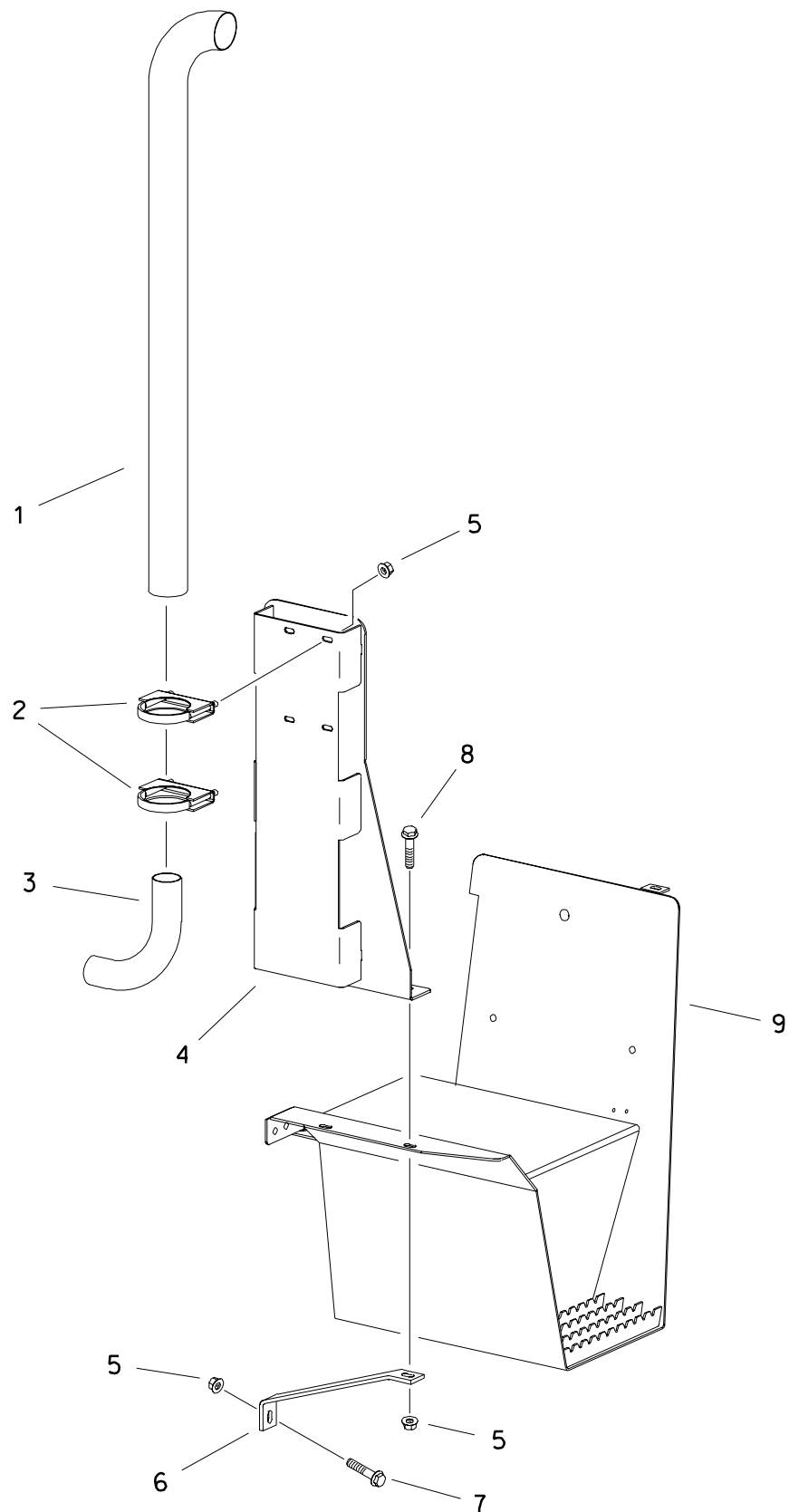


STEPS AND COVERS

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	364-069	1	LEFT FUEL STEP TANK	
2.	364-494	1	RIGHT FUEL STEP TANK	
3.	313-549	1	LEFT SIDE PLATE	
4.	313-550	1	RIGHT SIDE PLATE	
5.	362-918	1	TUNNEL COVER PLATE	
6.	105-827	7	FLG LK BOLT (3/8-NC X 1-1/4")	
7.	105-841	4	CLIP NUT (5/16-NC)	
8.	105-873	4	FLG LK BOLT (5/16-NC X 1")	
9.	105-874	3	FLG LK BOLT (3/8-NC X 1-1/2")	
10.	115-318	AR	BULK NON-SKID (6", SOLD PER 1')	USE 4 @ 15.5"
11.	313-422	1	CONTROL VALVE MOUNT	
12.	105-845	14	FLG LOCKNUT (3/8-NC)	
13.	362-588	1	STONE SHIELD	DIFFERENTIAL
14.	105-831	2	FLG BOLT (1/2-NC X 1-1/2")	
15.	105-826	4	FLG BOLT (3/8-NC X 1")	
16.	105-095	6	WASHER (1/4")	

FOOTNOTES

VERTICAL EXHAUST



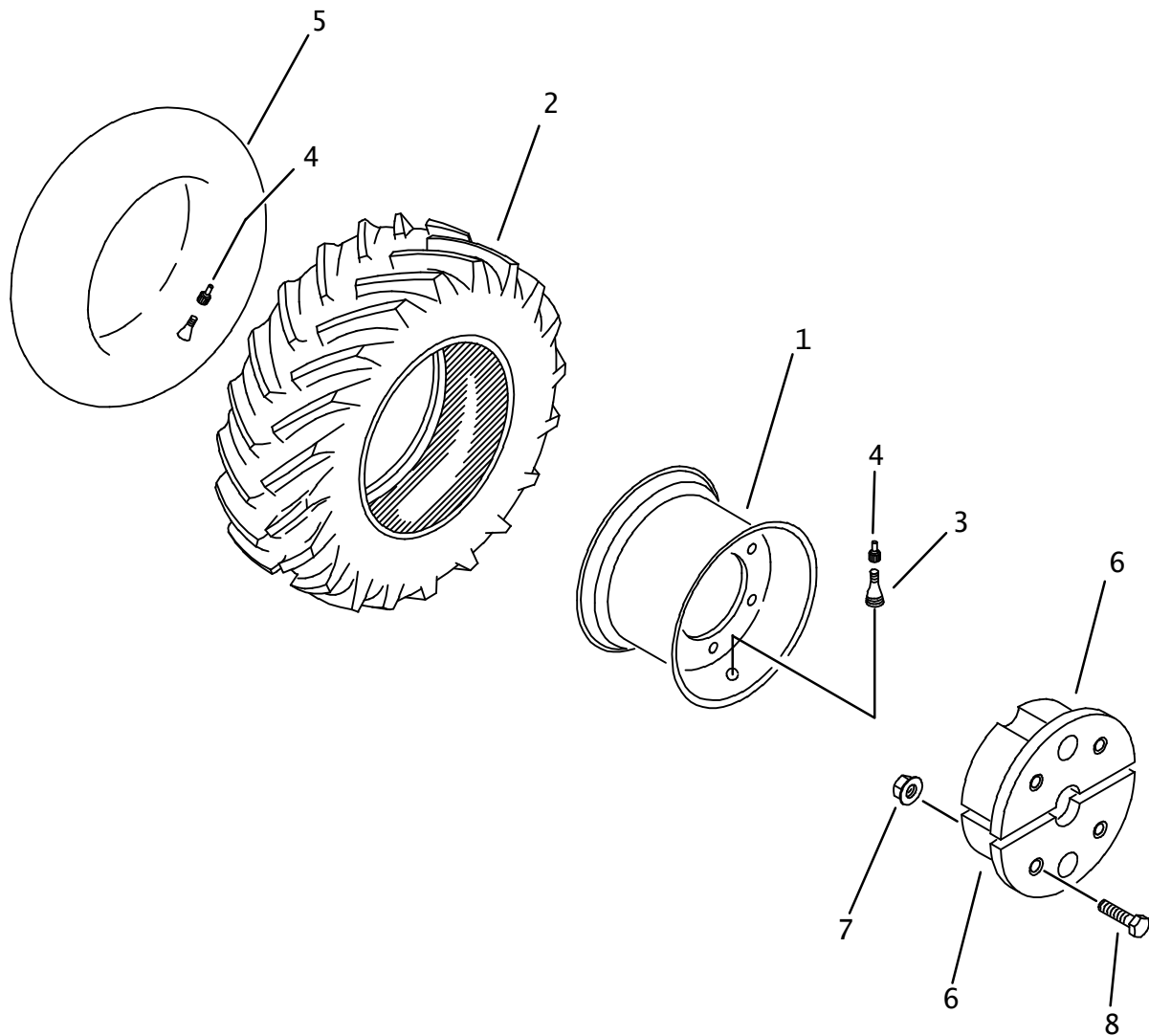
VERTICAL EXHAUST

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	196-385		VERTICAL EXHAUST KIT	INCL REF NO'S 1 THRU 8
1.	194-071	1	EXHAUST PIPE	
2.	107-356	2	U-BOLT CLAMP (2.5", FLAT)	
3.	194-072	1	EXHAUST ELBOW	SEE FOOTNOTE 1
4.	303-548	1	EXHAUST SUPPORT	SEE FOOTNOTE 2
5.	105-845	6	FLG LOCKNUT (3/8-NC)	
6.	303-269	1	SUPPORT BAR	SEE FOOTNOTE 3
7.	105-874	1	FLG LK BOLT (3/8-NC X 1-1/2")	
8.	105-826	3	FLG LOCK BOLT (3/8-NC X 1")	
9.	364-069	-	LEFT FUEL TANK STEP	

FOOTNOTES

1. REMOVE EXISTING 45 DEG ELBOW AND REPLACE WITH REF NO 3
2. REMOVE EXISTING HEAT SHIELD AND REPLACE WITH REF NO 4
3. MOUNT TO EXISTING HOLE ON SIDE OF TRACTOR FRAME.

TIRE - TUBE - WHEEL



TIRE - TUBE - WHEEL

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	205-926		T/W (29 X 12.50-15, B4TL, W/5)	INCL REF NO'S 1-3 & 4
	205-787		T/W (31 X 15.50-15, D8TT, W/5)	INCL REF NO'S 1-3 & 4
	205-919		T/W (31 X 15.50-15, D8TL, W/8)	INCL REF NO'S 1,2,4 & 5
1.	205-348	4	WHEEL (10 X 15, W/5)	
	205-255	4	WHEEL (13 X 15, W/5)	
	205-1153	4	WHEEL (15 X 15, W/8)	
2.	205-102	4	TIRE (29 X 12.50-15, B4TL)	
	205-109	4	TIRE (31 X 15.50-15, D8TT)	
3.	205-161	4	VALVE STEM (.625")	INCL REF NO 4
4.	205-165		VALVE CAP (.305"-32)	
5.	205-160		INNER TUBE (31 X 15.50-15)	INCL REF NO 4
6.	375-059	AR	WHEEL WEIGHT (100 LB)	2 PER WHEEL
7.	105-340	AR	FLANGE LOCKNUT (3/4-NC)	2 PER WEIGHT
8.	105-371	AR	BOLT (3/4-NC X 6-1/2")	INCL REF NO 4

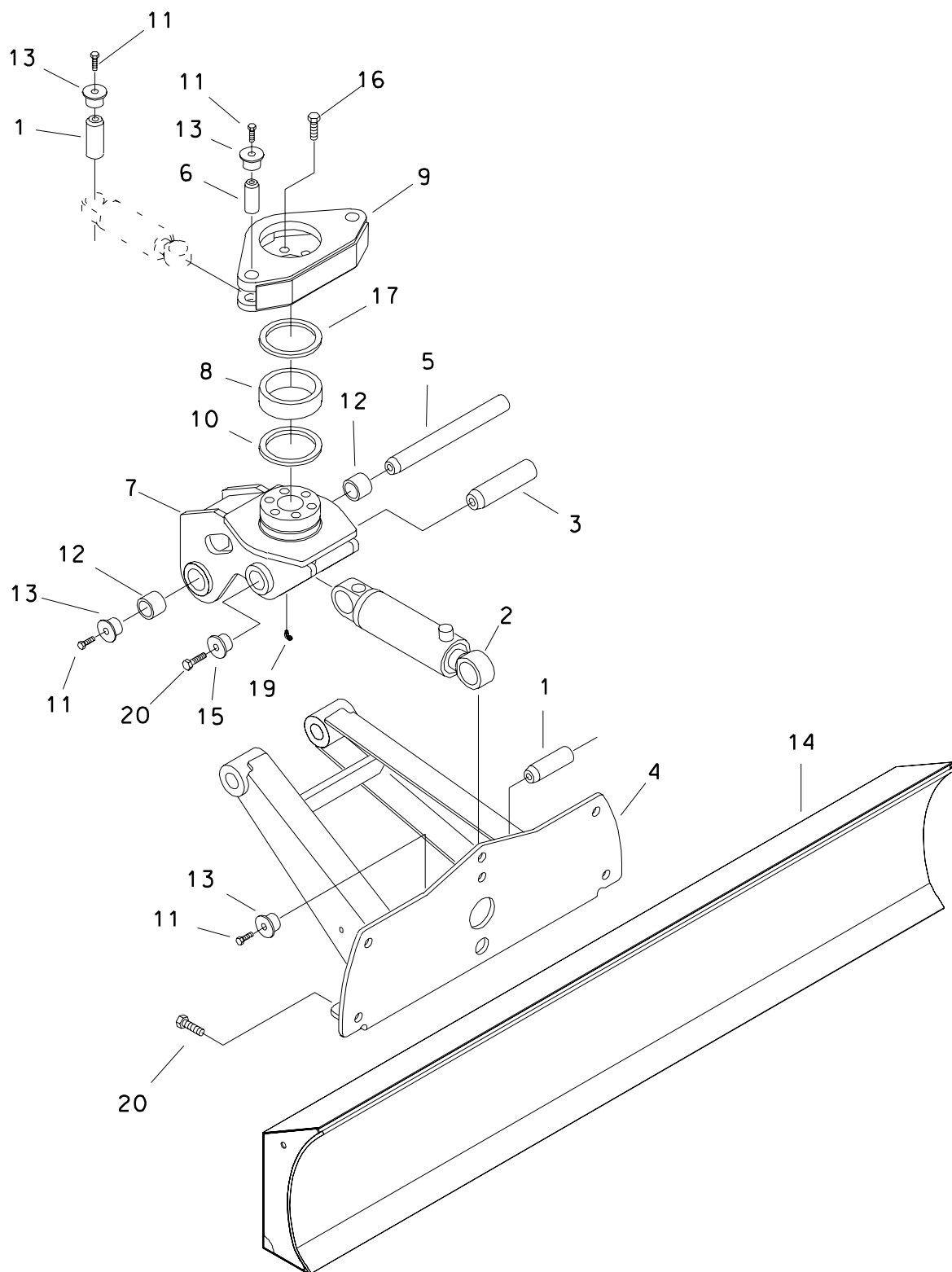
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FOOTNOTES:

NOTE:

BEFORE INSTALLING WHEELS ON TRACTOR, CLEAN LUG NUT CONICAL SEAT TO REMOVE PAINT; CLEAN WHEEL MOUNTING SURFACE (AXLE OR SPINDLE FLANGE AND WHEEL CENTER DISC) TO REMOVE PAINT.

BACKFILL BLADE (64")

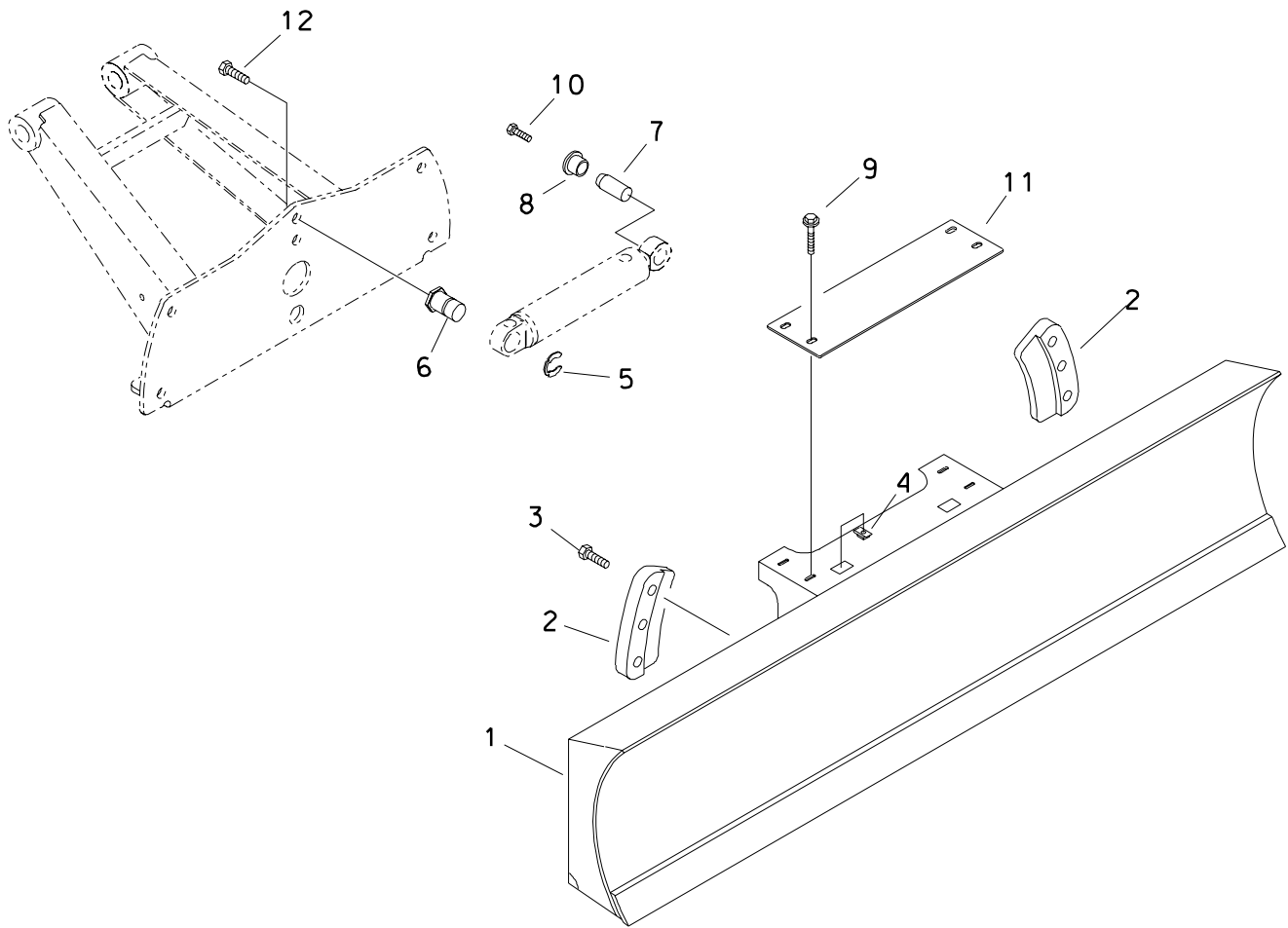


BACKFILL BLADE (64")

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	183-588	3	TAPERED PIN (1.25" X 3.94")	
2.	151-061		CYLINDER (2.5" X 1.25" X 6.0")	
3.	179-338	1	TAPERED PIN (1.5" X 5.85")	
4.	328-087	1	BACKFILL BLADE MOUNT	
5.	179-337	1	TAPERED PIN (1.25" X 11.59")	
6.	183-687	2	TAPERED PIN (1.25" X 2.69")	
7.	328-077	1	BACKFILL BLADE SWING POST	
8.	125-450	1	BRONZE BUSHING	
9.	328-083	1	SWING RETAINER	
10.	115-815	1	FRICTION WASHER (5.1")	
11.	106-096	6	FLG LK BOLT (1/2-NC X 1-3/4")	
12.	125-771	2	COMPOSITION BUSHING (1.25")	
13.	181-982	6	TAPERED INSERT (1.25")	
14.	313-027	1	64" BACKFILL BLADE	CUTTING EDGE
	335-037	1	64" BACKFILL BLADE	WELD ON
15.	181-974	1	TAPERED INSERT (1.5")	
16.	106-098	6	FLG BOLT (3/4-NC X 2")	LOCTITE & TORQUE TO 550 FT LBS.
17.	115-816	1	FRICTION WASHER (6.5")	
18.	105-831	1	FLG LK BOLT (1/2-NC X 1-1/2")	
19.	115-002	1	ZERK (O2N90)	
20.	105-969	6	FLG LK BOLT (5/8-NC X 1-1/2")	

FOOTNOTES

TILT BACKFILL BLADE (72")



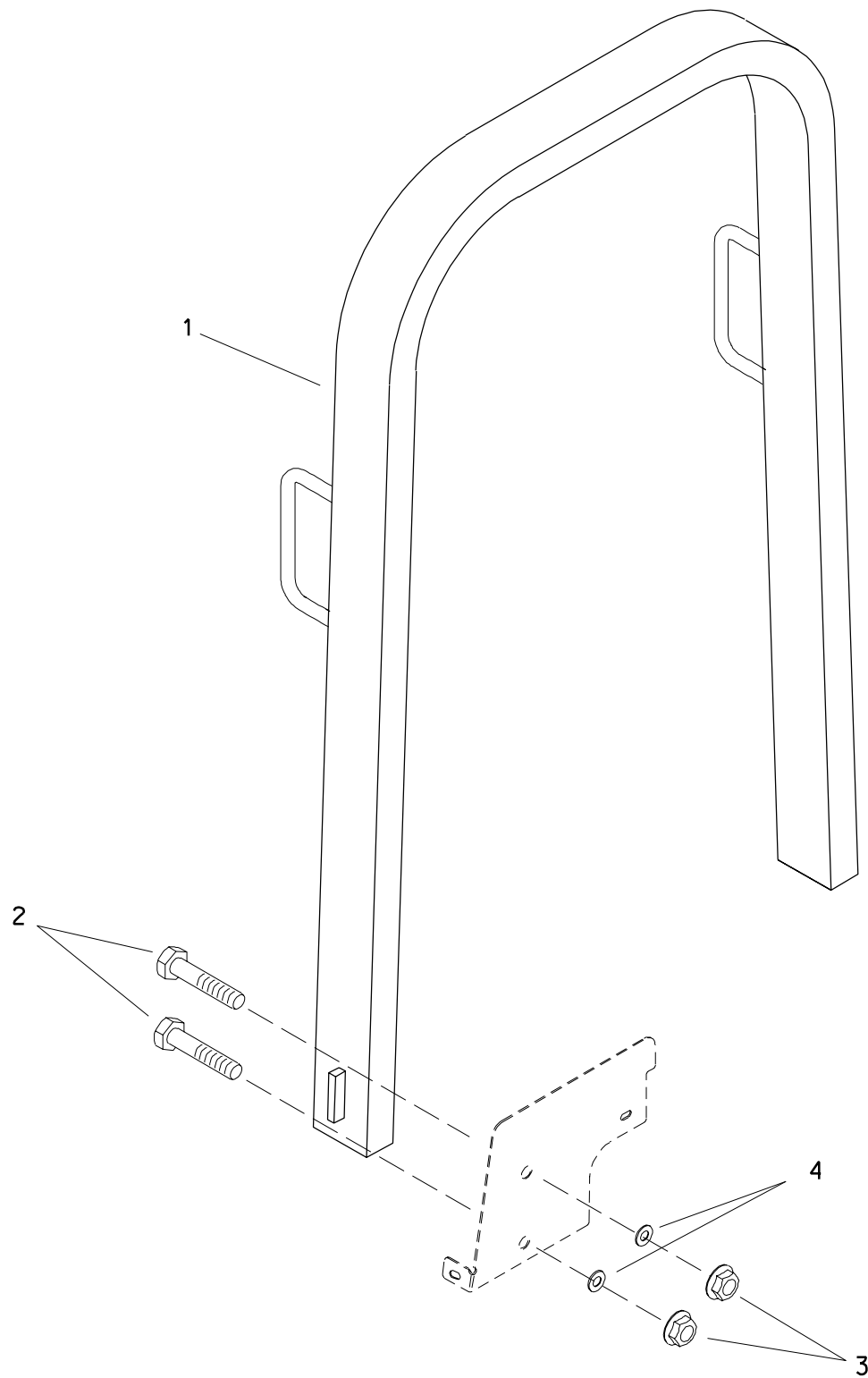
TILT BACKFILL BLADE (72")

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	190-477		TILT BFB CONVERSION KIT	INCL REF NO'S 1 - 12; SEE FOOTNOTE 1
1.	328-386	1	TILT BACKFILL BLADE	CUTTING EDGE
	302-103		CUTTING EDGE	WELD ON
2.	328-160	2	TILT BLADE RETAINER	
3.	105-303	6	FLG LK BOLT (5/8-NC X 2-1/2")	
4.	105-854	2	CLIP NUT (3/8-NC)	
5.	115-483	1	KLIP RING (1-1/4")	
6.	183-592	1	PIN (1.25" X 1.625")	
7.	183-584	1	TAPERED PIN (1" X 2.44")	
8.	181-981	1	TAPERED INSERT (1")	
9.	106-029	2	BOLT (3/8-NC X 3/4", BUT SOC)	
10.	105-874	1	FLG LK BOLT (3/8-NC X 1-1/2")	
11.	362-649	1	CYLINDER COVER	
12.	105-379	1	BOLT (3/4-NC X 1-1/4")	LOCTITE & TORQUE TO 225 FT LBS

FOOTNOTES

- FOR ADDITIONAL PARTS REFER TO PAGE TITLED "BACKFILL BLADE TILT HYDRAULICS".
REFER TO INSTALLATION INSTRUCTIONS 060-011.

2-POST ROPS

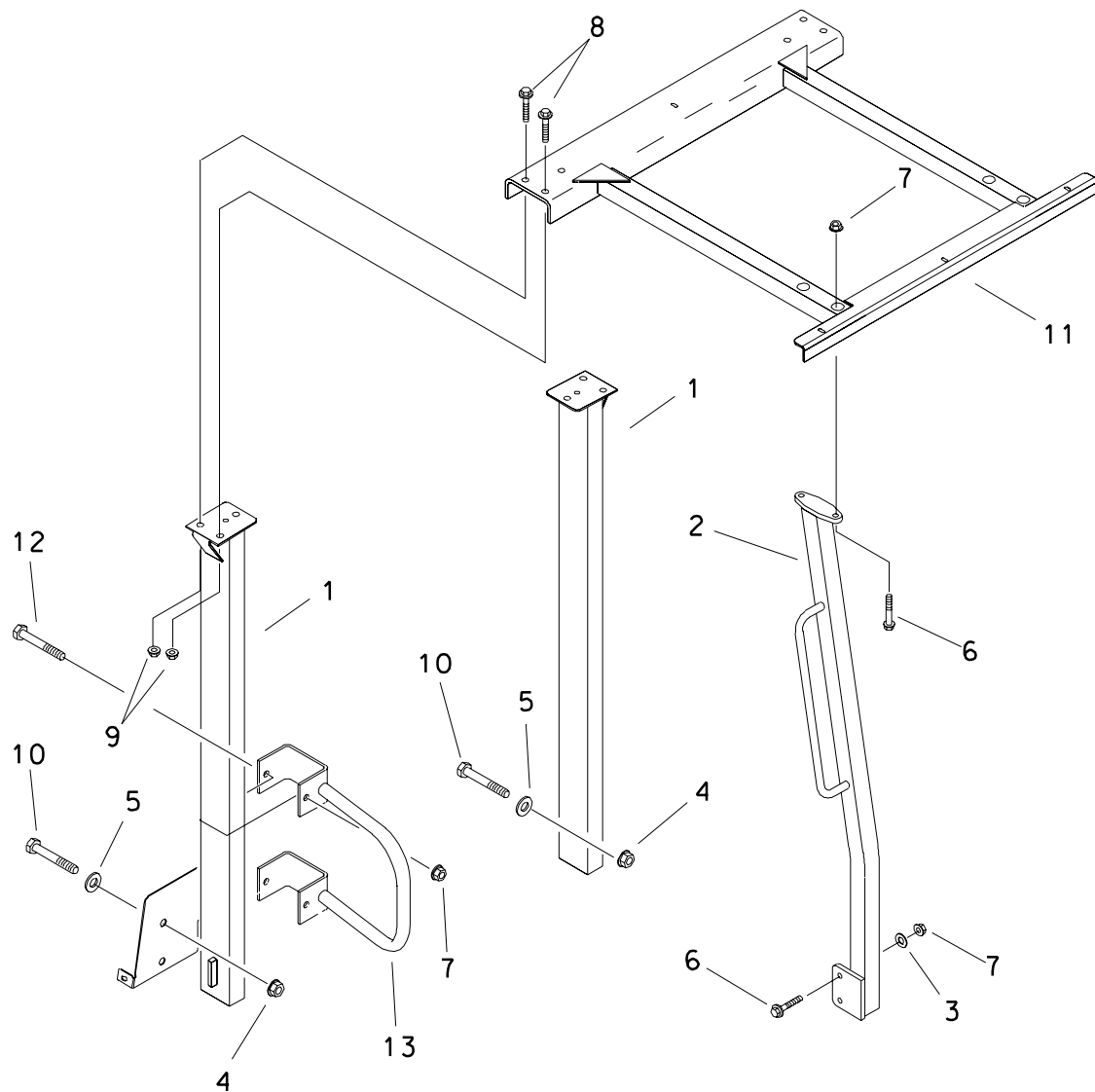


2-POST ROPS

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	306-362	1	2-POST ROPS	
2.	105-383	4	BOLT (3/4-NC X 6")	TORQUE TO 375 FT LBS
3.	105-340	4	FLG LOCKNUT (3/4-NC)	
4.	105-384	4	WASHER (3/4")	

FOOTNOTES

4-POST ROPS



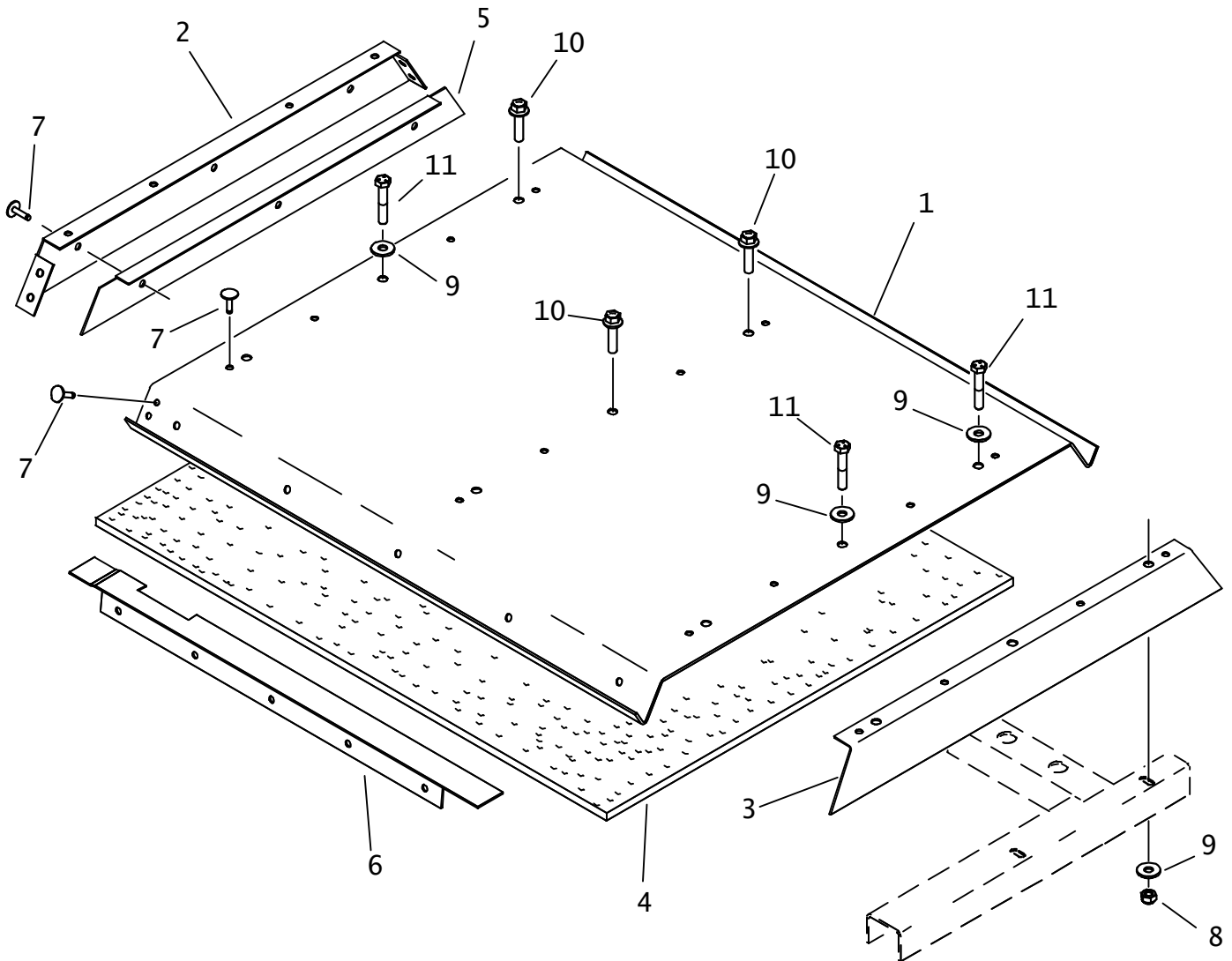
4-POST ROPS

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	190-449		4-POST ROPS CONVERSION KIT	INCL REF NO'S 1 - 11; SEE FOOTNOTE 1
1.	306-274	2	REAR LEG	
2.	306-239	1	RIGHT FRONT LEG	
	306-238	1	LEFT FRONT LEG	
3.	105-475	4	WASHER (1/2" X 2-1/4")	
4.	105-340	4	FLG LOCKNUT (3/4-NC)	
5.	105-384	4	WASHER (3/4")	
6.	105-381	10	FLG LK BOLT (1/2-NC X 1-1/2")	TORQUE TO 150 FT LBS
7.	105-833	12	FLG LOCKNUT (1/2-NC)	TORQUE TO 150 FT LBS
8.	105-969	6	FLG LK BOLT (5/8-NC X 1-1/2")	TORQUE TO 220 FT LBS
9.	105-994	6	FLG LOCKNUT (5/8-NC)	
10.	105-383	4	BOLT (3/4-NC X 6")	TORQUE TO 375 FT LBS
11.	306-276	1	TOP FRAME	
12.	105-472	4	BOLT (1/2-NC X 5")	
13.	313-399	2	REAR HANDLE	

FOOTNOTES

1. ADDITIONAL PARTS TO THIS KIT ARE SHOWN ON PAGE TITLED "4-POST ROPS COVER". REFER TO INSTALLATION INSTRUCTIONS.

4 POST ROPS COVER



4 POST ROPS COVER

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	190-449		4-POST ROPS CONVERSION KIT	INCL REF NO'S 1 - 11; SEE FOOTNOTE 1
1.	306-273	1	CANOPY	
2.	306-282	1	CANOPY REAR PLATE	
3.	306-283	1	CANOPY FRONT PLATE	
4.	117-1030	1	CANOPY HEADLINER	
5.	306-284	1	REAR HEADLINER SUPPORT	
6.	306-286	1	RT FRONT HEADLINER SUPPORT	
	306-285	1	LEFT FRONT HEADLINER SUPPORT	
7.	110-348	26	POP RIVET (3/16" X .664")	
8.	105-089	4	LOCKNUT (5/16-NC)	
9.	105-117	8	WASHER (5/16")	
10.	106-243	5	SCREW (5/16-NC X 1-1/2", SLF TAP)	
11.	105-285	4	BOLT (5/16-NC X 1-3/4")	

NOT SHOWN:

FOOTNOTES:

1. REFER TO INSTALLATION INSTRUCTIONS. ADDITIONAL PARTS TO THIS KIT ARE SHOWN ON PAGE TITLED "4-POST ROPS"

CANOPY AND HEADLINER ASSEMBLY:

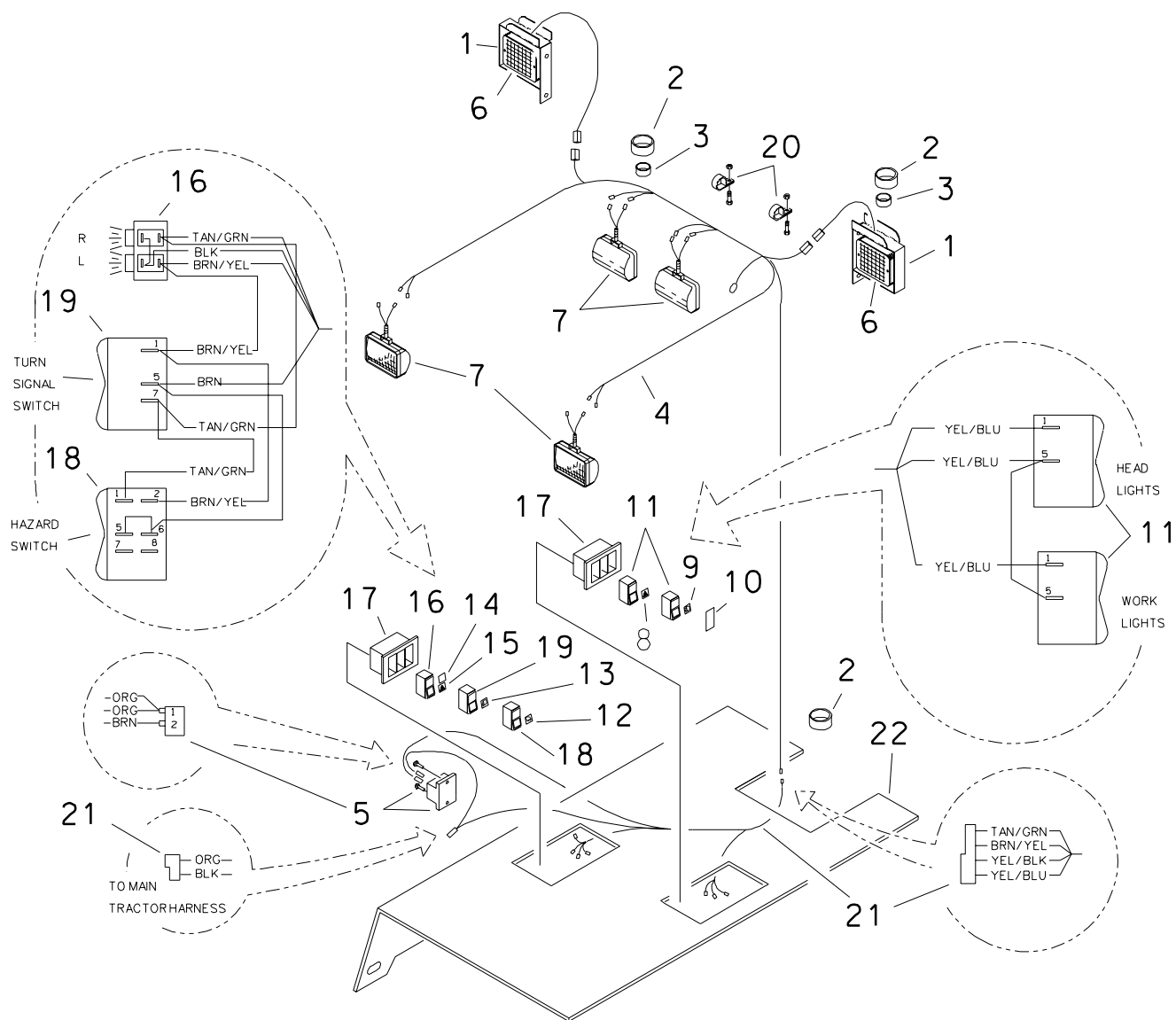
POP RIVET REAR PLATE (REF NO 2) TO CANOPY PLATE.

POP RIVET FRONT PLATE (REF NO 3) TO CANOPY PLATE.

INSTALL HEADLINER FLUSH AGAINST FRONT PLATE (REF NO 3).

POP RIVET REAR, RIGHT SIDE AND LEFT SIDE SUPPORTS, FOR HEADLINER, TO CANOPY PLATE.

4 POST R.O.P.S. LIGHT KIT



4 POST R.O.P.S. LIGHT KIT

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	190-460		LIGHT KIT	INCL. REF. NO.'S 1 THRU 22 & SEE FOOTNOTE 1
1.	363-149	2	WARNING LIGHT BRACKET	
	105-231	8	SCREW (1/4-NC X 3/4", SLF TAP)	
2.	115-355	3	GROMMET (1" ID)	
3.	116-203	2	GROMMET (9/16" ID)	
4.	215-839	1	4 POST R.O.P.S. LIGHT HARNESS	
5.	215-041	1	FLASHER	
	105-214	2	SCREW (NO. 10-24 X 1/2", SLF TAP)	
6.	215-442	2	WARNING LIGHT	AMBER, ROUND
	217-109	2	PEDESTAL TURN SIGNAL	AMBER, RECTANGULAR
	105-021	2	NUT (1/2-NC)	
7.	217-007	4	WORKING LIGHT	CLEAR, RECTANGULAR
8.	217-052	1	BLACK INSERT	HEADLIGHT
9.	217-032	1	BLACK INSERT	WORKING LIGHT
10.	217-713	1	BLANK INSERT	MOUNT FRAME
11.	217-717	2	ROCKER SWITCH (SPST)	
12.	217-033	1	ORANGE INSERT	WARNING LIGHT
13.	217-028	1	BLANK INSERT	ROCKER SWITCH
14.	217-049	1	GREEN INSERT	RIGHT TURN INDICATOR
15.	217-050	1	GREEN INSERT	LEFT TURN INDICATOR
16.	217-020	1	DUAL PILOT LAMP	
	217-046		LIGHT BULB	
17.	217-712	2	SWITCH MOUNTING FRAME	
18.	217-726	1	ROCKER SWITCH (DPDT)	
19.	217-727	1	ROCKER SWITCH (SPDT)	
20.	110-259	2	CLAMP (.63")	
	105-825	2	FLANGE LOCK BOLT (3/8-NC X 3/4")	
	105-834	2	FLANGE LOCKNUT (3/8-NC)	
21.	215-840	1	4 POST R.O.P.S. SWITCH HARNESS	
22.	328-105	1	LEFT REAR FENDER	

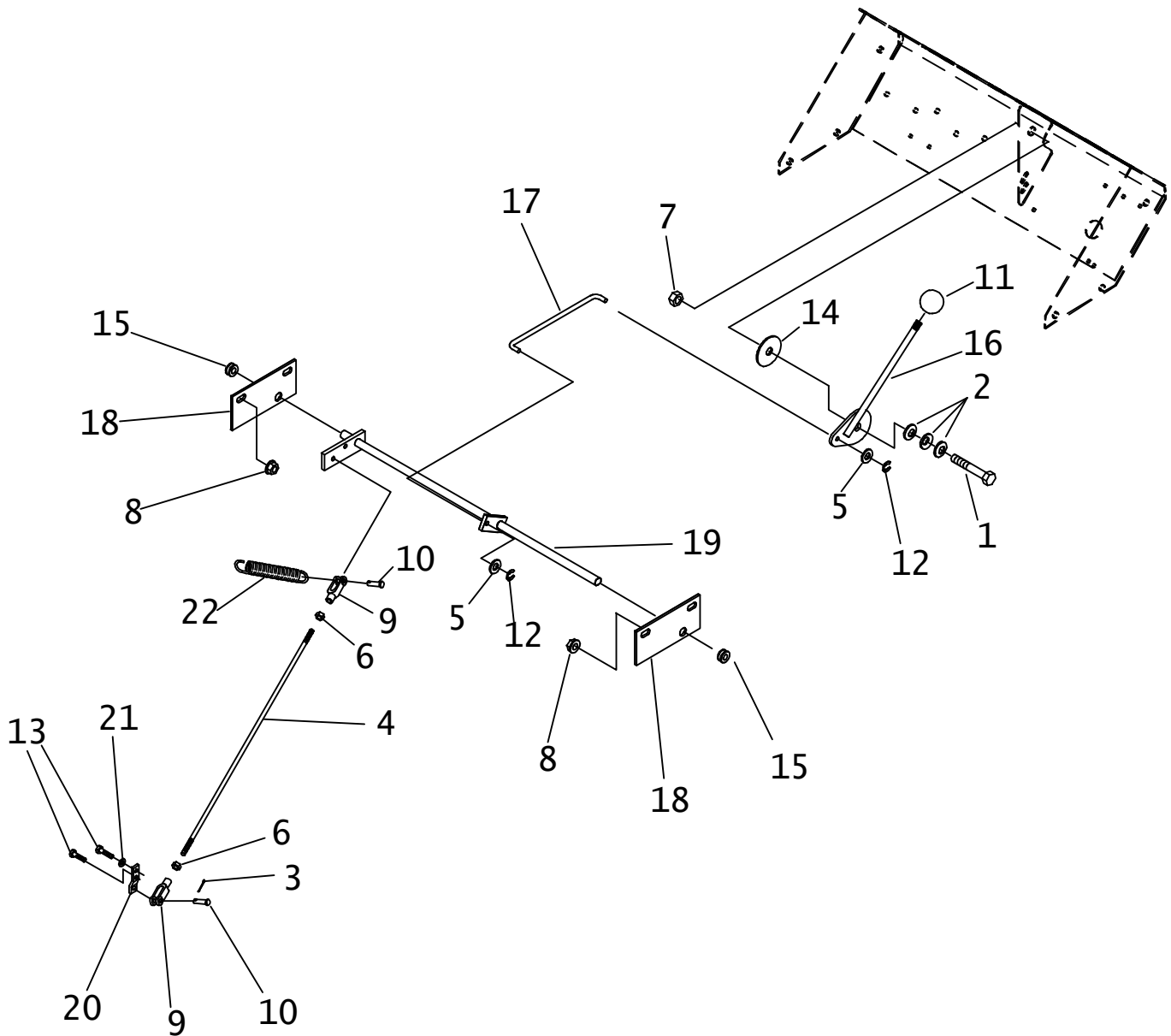
FOOTNOTES

1-REFER TO INSTALLATION INSTRUCTIONS.

NOTES:

CONTROL COMPONENTS

HAND THROTTLE



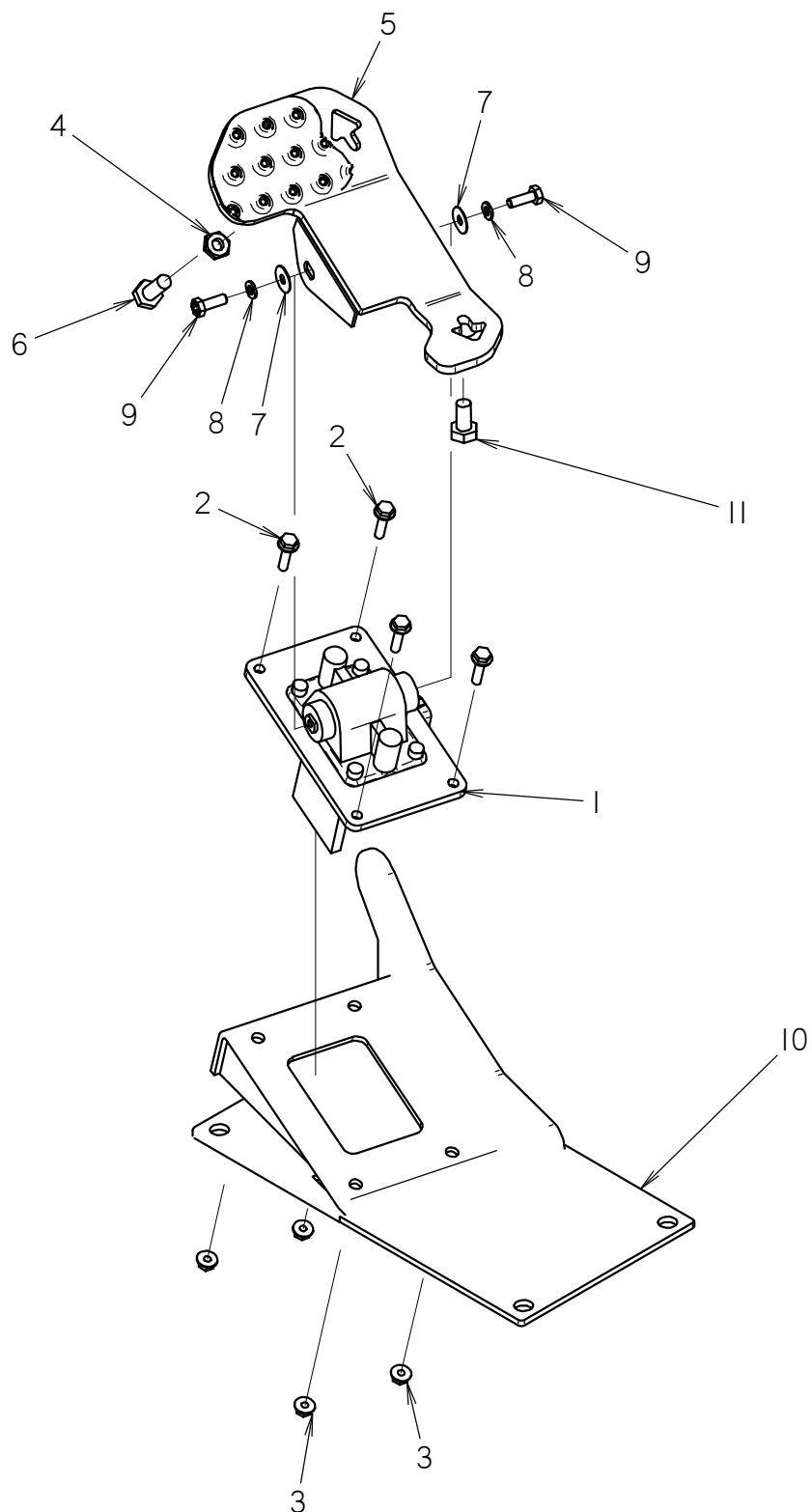
HAND THROTTLE

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	105-208	1	BOLT (1/2-NC X 1-1/4")	
2.	105-058	3	BELLEVILLE WASHER (1/2")	
3.	105-512	2	COTTER PIN (3/32" X 3/4")	SEE FOOTNOTE 1
4.	365-073	1	THROTTLE ROD (1/4-NF X 19.75")	3700
	365-185	1	THROTTLE ROD (1/4-NF X 24.00")	5700
5.	105-095	2	WASHER (1/4")	
6.	105-152	2	NUT (1/4-NF)	
7.	105-065	1	LOCKNUT (1/2-NC)	
8.	105-834	4	FLG LOCKNUT (3/8-NC)	
9.	110-067	2	CLEVIS (1/4-NF)	
10.	110-082	2	CLEVIS PIN (1/4" X 11/16")	
11.	110-590	1	KNOB (3/8-NC, ORANGE)	
12.	115-476	2	GRIP RING (.250")	
13.	106-270	2	BOLT (M6-1.0 X 20mm)	
14.	115-656	1	FRICTION WASHER (1/2", NYLON)	
15.	125-779	2	FLG BUSHING (.500", NYL)	
16.	365-458	1	HAND THROTTLE LEVER	
17.	365-460	1	THROTTLE ROD (1/4" X 7.995")	
18.	365-076	2	BELL CRANK PLATE	
19.	301-732	1	BELL CRANK	BEGINS WITH S/N
	<u>167-230</u>	1	BELL CRANK	
20.	365-082	1	THROTTLE LEVER (ENGINE)	
21.	105-079	2	LOCK WASHER (1/4")	
22.	115-601	1	EXTENSION SPRING (4.062")	BEGINS WITH S/N

FOOTNOTES

NOTE:

CRUISE FOOT CONTROL



CRUISE FOOT CONTROL

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	215-1941	1	ONE AXIS 12V FOOT CONTROL, DEUTSCH	SEE FOOTNOTES 1 & 2
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	106-079	1	SCREW (M10-1.50 X 30MM)	
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)	

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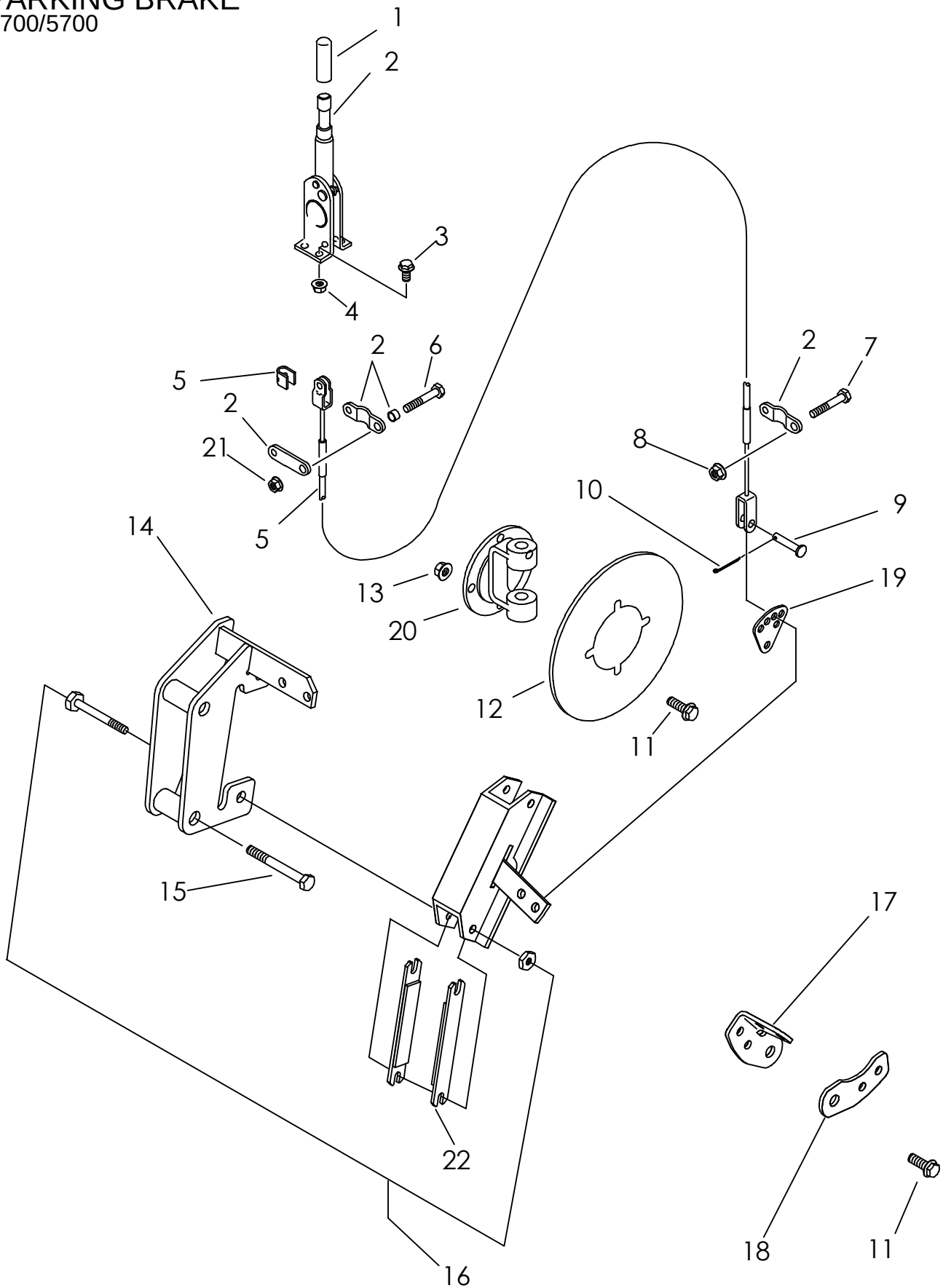
FOOTNOTES:

1. USE ON RT115Q BEGINS WITH S/N: CMWR115QHD0000478. FOR RT115Q UNITS BEFORE THIS SERIAL NUMBER, USE KIT 190-1827 TO REPLACE CONTROLS AND UPDATE THE WIRE HARNESS, 215-1559, WITH THE CORRECT CONNECTORS.
2. IF REPLACING FOOT CONTROL 215-1537 ON A RT95 CRUISE UNIT OR RT115 CRUISE UNIT, USE KIT 190-2091, WHICH INCLUDES FOOT CONTROL 215-1941 AND CONNECTORS, BEGINS WITH S/N: CMWR15T3HD0000307.

NOTE:

PARKING BRAKE

3700/5700



PARKING BRAKE 3700/5700

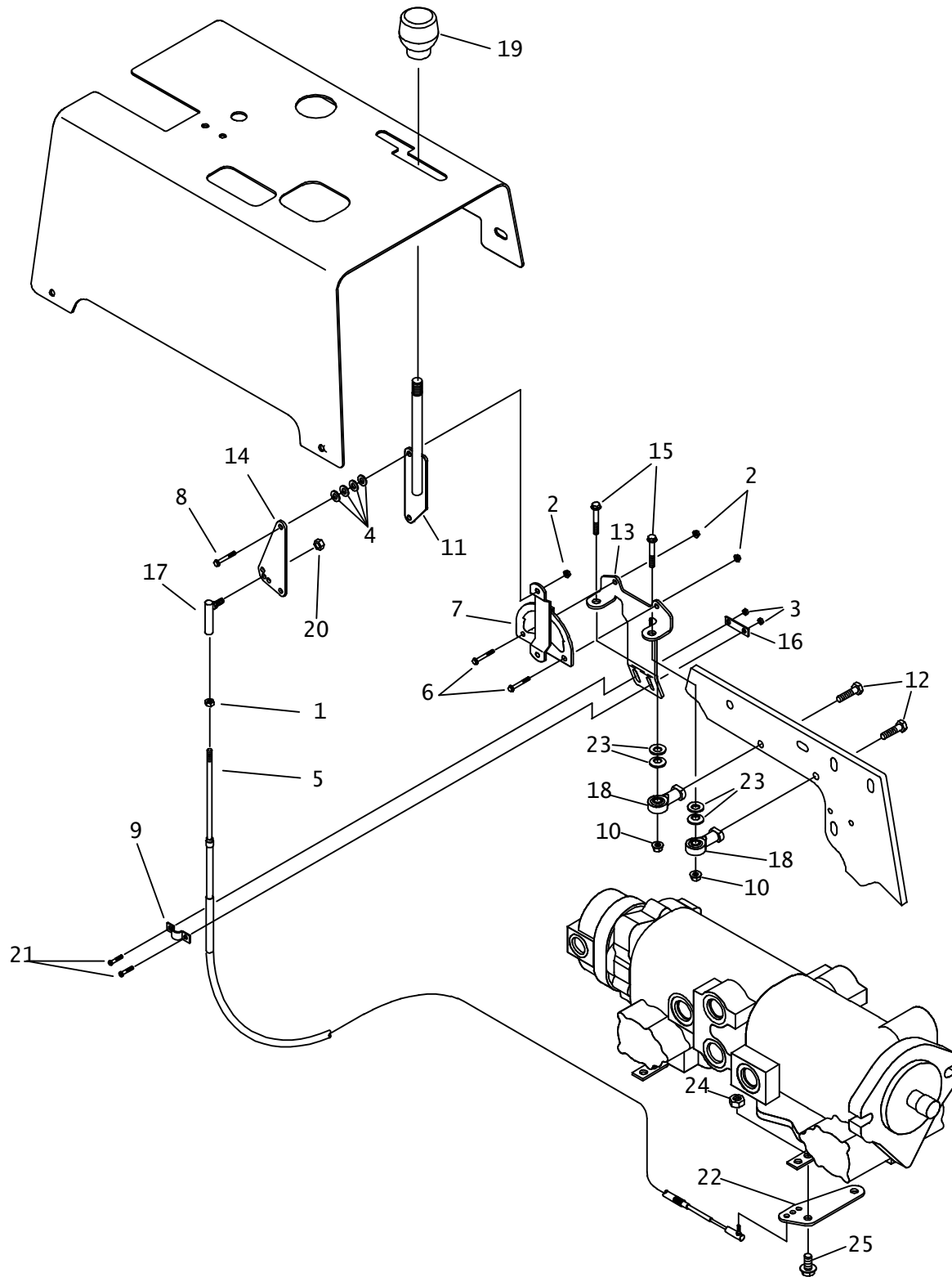
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	110-469	1	GRIP (7/8", ORANGE)	
2.	160-744	1	PARKING BRAKE LEVER	
3.	105-823	4	FLG LK BOLT (5/16-NC X 3/4")	
4.	105-003	4	FLG LOCKNUT (5/16-NC)	
5.	163-083	1	BRAKE CABLE (5/16" X 48.750")	
6.	105-826	3	FLG LOCK BOLT (3/8-NC X 1")	
7.	105-156	2	BOLT (3/8-NC X 1-1/2")	
8.	105-834	2	FLG LOCKNUT (3/8-NC)	
9.	110-150	2	CLEVIS PIN (5/16" X 1")	LOCTITE
10.	105-512	2	COTTER PIN (3/32" X 3/4")	
11.	105-826	8	FLG LCK BOLT (3/8-NC X 1")	5700 PLANETARY
12.	160-765	1	BRAKE DISC	
13.	105-834	4	FLG LOCKNUT (3/8-NC)	
14.	313-176	1	BRAKE CALIPER MOUNT	3700
15.	106-012	2	FLG BOLT (5/8-NC X 3")	
16.	163-209	1	BRAKE CALIPER	
17.	363-657	1	UPPER CALIPER MOUNT	5700 PLANETARY
18.	363-658	1	LOWER CALIPER MOUNT	5700 PLANETARY
19.	163-130	2	BRAKE ADJUSTMENT PLATE	5700 PLANETARY
20.	182-135		FLANGE YOKE (1.088"-14S)	OUTPUT
21.	105-047	2	LOCKNUT (3/8-NC)	
22.	163-218	1	BRAKE STATOR SHOE	BRAKE STATOR INCLUDES 2 PIECES.

NOT SHOWN:

FOOTNOTES:

NOTE:

GROUND DRIVE CONTROLS



GROUND DRIVE CONTROLS

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	506-021	1	NUT (#10-32)	
2.	105-832	4	FLG LOCKNUT (1/4-NC)	
3.	105-811	2	LOCKNUT (#10-24)	
4.	105-284	8	WASHER (3/16")	
5.	196-322	1	CONTROL CABLE (#10-32 X 37")	GROUND DRIVE
6.	105-865	2	BOLT (1/4-NC X 3/4", GD8)	
7.	196-131	1	FRICTION CONTROL	
8.	105-197	2	BOLT (1/4-NC X 1")	
9.	110-697	1	BOLT-ON CLAMP (.360")	
10.	105-047	2	LOCKNUT (3/8-NC)	GROUND DRIVE
11.	365-443	1	GROUND DRIVE LEVER	
12.	105-019	2	BOLT (3/8-NF X 1")	
13.	365-441	1	CABLE MOUNT	
14.	331-422	1	DRIVE PLATE	
15.	108-147	2	FLG LK BOLT (3/8-NC X 1-1/4")GD8	
16.	331-166	1	BOLT-ON BACK-UP (.360")	
17.	110-318	2	BALL JOINT (#10-32, FM)	
18.	110-102	2	ROD END (3/8-NF, FM)	
19.	110-487	1	KNOB (1/2-NC, ORG)	
20.	106-678	2	LOCKNUT (1/4-NF)	
21.	106-506	2	BOLT (#10-24 X 3/4")	
22.	313-543	1	CABLE MOUNT	
23.	105-805	4	BELLEVILLE WASHER (3/8")	
24.	105-047	2	LOCKNUT (3/8-NC)	
25.	501-153	2	FLG LK BOLT (3/8-NC X 5/8")	

FOOTNOTES

NOTE:

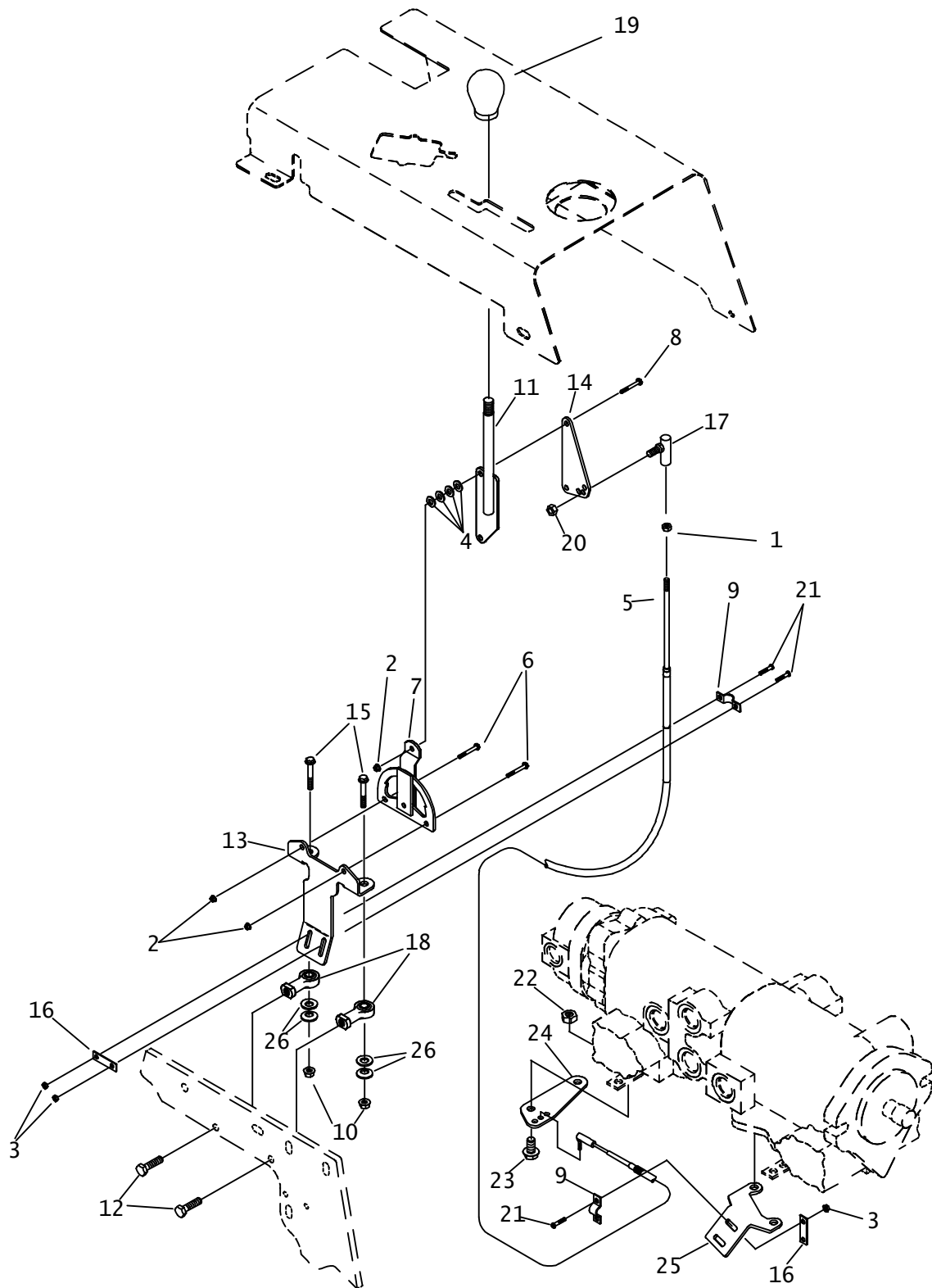
REAR STEER INDICATOR

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	313-554	1	INDICATOR PLATE	
2.	328-424	1	PIVOT ARM	
3.	328-422	1	PIVOT BASE	
4.	154-844	1	EXT HOSE (1/2"-19.25"-3000)	
5.	365-191	1	PIVOT LINK	
6.	363-678	1	PIVOT LINK MOUNT	
7.	328-112	1	INDICATOR MOUNT	SEE FOOTNOTE 1
8.	179-201	1	INDICATOR PIVOT STUB	SEE FOOTNOTE 1
9.	105-841	2	CLIP NUT (5/16-NC)	
10.	105-213	2	LOCKNUT (5/16-NF)	
11.	105-866	2	FLG BOLT (1/4-NC X 1-1/4")	
12.	106-103	1	BOLT (1/4-NC X 1/2", BUT SOC)	
13.	110-217	2	WORM CLAMP (7/16" TO 1")	
14.	115-480	1	GRIP RING (.750")	
15.	160-335	2	BALL JOINT (5/16-NF)	
16.	105-115	2	JAM NUT (5/16-NF)	
17.	105-284	1	WASHER (3/16")	
NOT SHOWN				
	274-087		INDICATOR DECAL	
	274-233		REAR STEER DISPLAY DECAL	
	274-751		REAR STEER FUNCTION	

FOOTNOTES

1. 179-201 MUST BE FLUSH WITH 328-112. SEE GRAPHICS ON OPPOSITE PAGE.

ATTACHMENT DRIVE CONTROLS



ATTACHMENT DRIVE CONTROLS

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	506-021	1	NUT (#10-32)	
2.	105-832	4	FLG LOCKNUT (1/4-NC)	
3.	106-048	4	LOCKNUT (#10-24)	
4.	105-284	8	WASHER (3/16")	
5.	196-334	1	CONTROL CABLE (#10-32 X 58")	GROUND DRIVE
6.	105-865	2	BOLT (1/4-NC X 3/4", GD8)	
7.	196-131	1	FRICTION CONTROL	
8.	105-197	2	BOLT (1/4-NC X 1")	
9.	110-697	2	BOLT-ON CLAMP (.360")	
10.	105-047	2	LOCKNUT (3/8-NC)	
11.	365-443	1	GROUND DRIVE LEVER	GROUND DRIVE
12.	105-019	2	BOLT (3/8-NF X 1")	3700
	105-108	2	BOLT (3/8-NF X 1-1/4")	5700
13.	365-441	1	CABLE MOUNT	
14.	331-422	1	DRIVE PLATE	
15.	108-147	2	FLG LK BOLT (3/8-NC X 1-1/4")GD8	
16.	331-166	2	BOLT-ON BACK-UP (.360")	
17.	110-318	2	BALL JOINT (#10-32, FM)	
18.	110-102	2	ROD END (3/8-NF, FM)	
19.	110-375	1	KNOB (1/2-NC, YELLOW)	
20.	106-678	2	LOCKNUT (1/4-NF)	
21.	106-049	4	BOLT (#10-24 X 3/4", PLPS)	
22.	105-047	2	LOCKNUT (3/8-NC)	
23.	501-153	2	FLG LK BOLT (3/8-NC X 5/8")	
24.	313-543	1	CABLE MOUNT	
25.	313-544	1	MOUNT BRACKET	
26.	105-805	4	BELLEVILLE WASHER (3/8")	

FOOTNOTES

NOTE:

[illegible]

HYDRAULICS



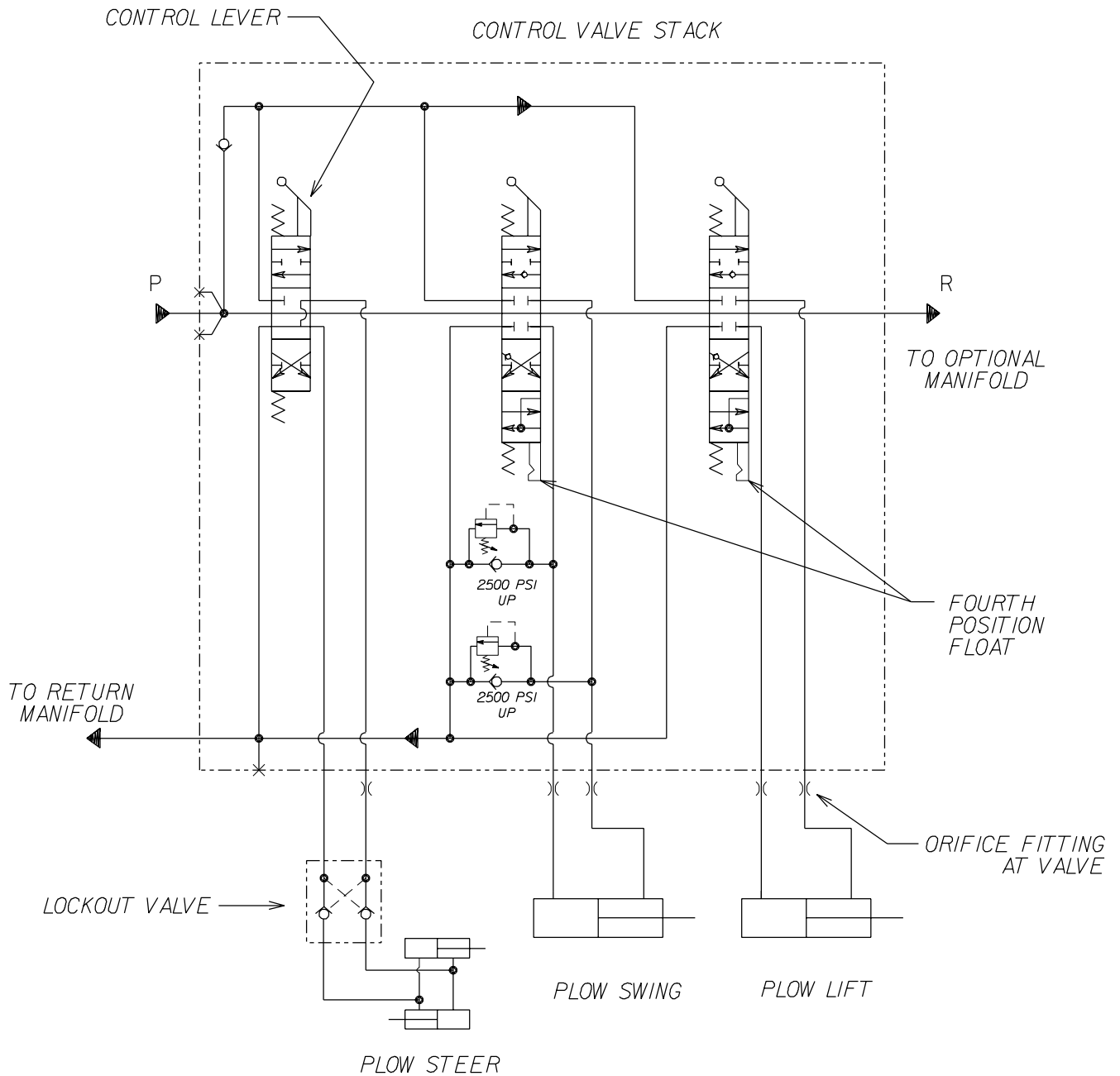
HYDRAULIC SCHEMATIC

SPECIFICATIONS

ENGINE		PUMP			MOTOR	
MFG (NO LOAD)	RPM	TYPE	GPM	DISPLACEMENT	TYPE	DISPLACEMENT
DEUTZ (DIESEL)	2650	GROUND DRIVE	28.7	2.5 in. ³	GROUND DRIVE	8.00 in. ³
		ATTACH DRIVE	28.7	2.5 in. ³	STEERING	7.42 in. ³
		AUXILIARY	11.7	1.02 in. ³		
					PLANETARY OPT GROUND DRIVE	8.00 in. ³ 8.00 in. ³

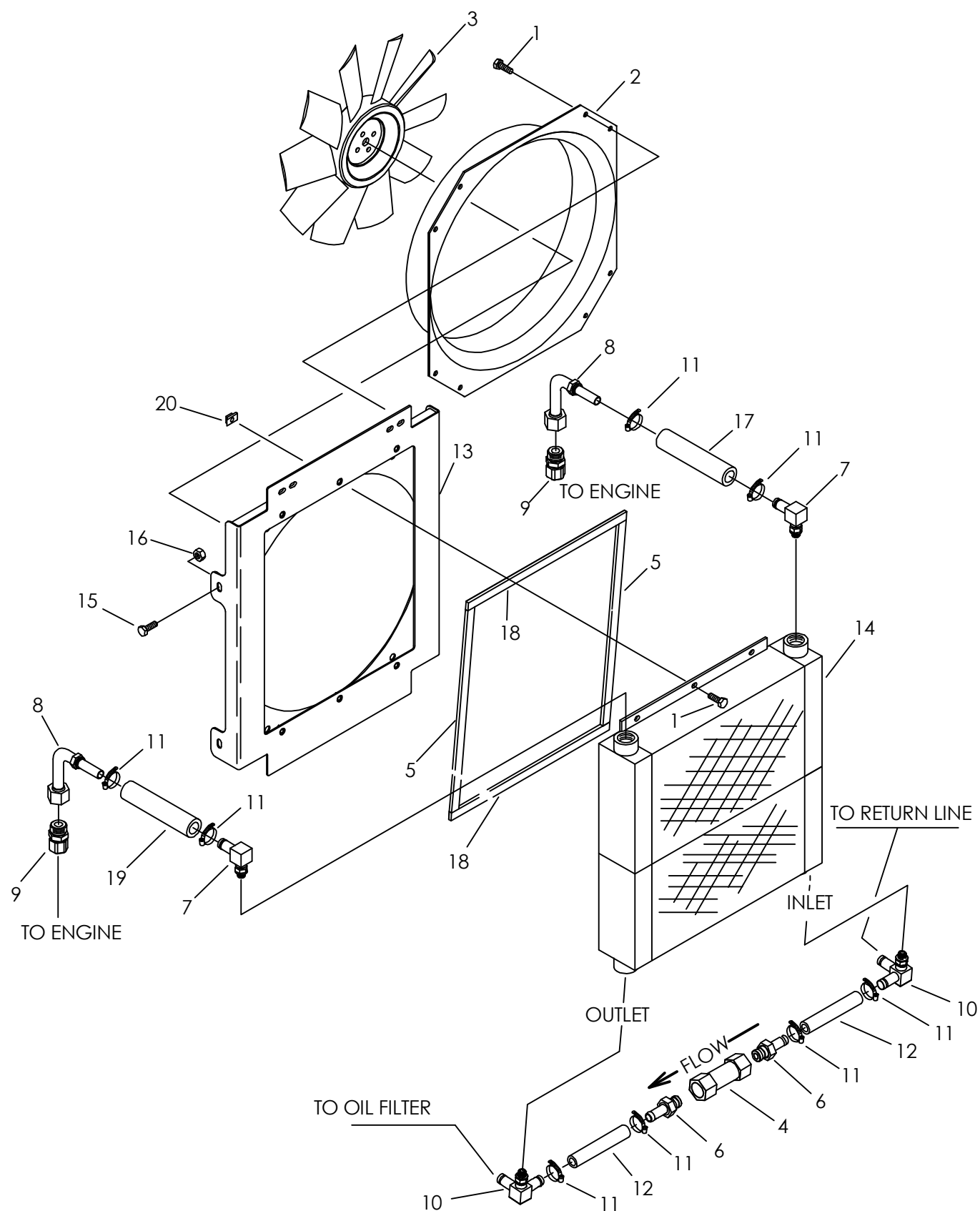
HYDRAULIC SCHEMATIC

5700



OIL COLLER HYDRAULICS

5700



OIL COLLER HYDRAULICS

5700

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	105-825	14	FLG LK BOLT (3/8-NC X 3/4")	
2.	194-612	1	FAN SHROUD	OBSOLETE
3.	194-033	-	COOLER FAN	
4.	158-576	1	CHECK VALVE (12SF-12SF)	
5.	115-399	AR	BULK STRIP (3/4", SOLD PER 1")	USE 2 @ 19", PER SIDE
6.	155-161	2	S/O COUPLER (12S-16H)	
7.	155-174	2	S/O COUPLER (12S-12H90)	
8.	149-093	2	S/O COUPLER (120FX-12H90)	
9.	514-021	2	CONNECTOR (120-12JFX)	
10.	514-114	2	S/O BRANCH TEE (12S-16H-16H)	
11.	110-353	8	WORM CLAMP (3/4" TO 1-1/2")	
12.	116-460	AR	BULK HOSE (1", SOLD PER 1")	USE 2 @ 5-3/4"
13.	306-813	1	OIL COOLER MOUNT	SEAL GAPS WITH CAULKING
14.	362-937	1	OIL COOLER	
15.	105-826	4	FLG LK BOLT (3/8-NC X 1")	
16.	105-845	4	FLG LOCKNUT (3/8-NC)	
17.	116-636	AR	BULK HOSE (3/4", SOLD PER 1')	USE 1 @ 33"
18.	115-399	AR	BULK STRIP (3/4", SOLD PER 1")	USE 2 @ 15-5/16", TOP & BOTTOM
19.	116-636	AR	BULK HOSE (3/4", SOLD PER 1")	USE 1 @ 16-1/2"
20.	107-011	6	CLIP NUT (3/8-NC)	

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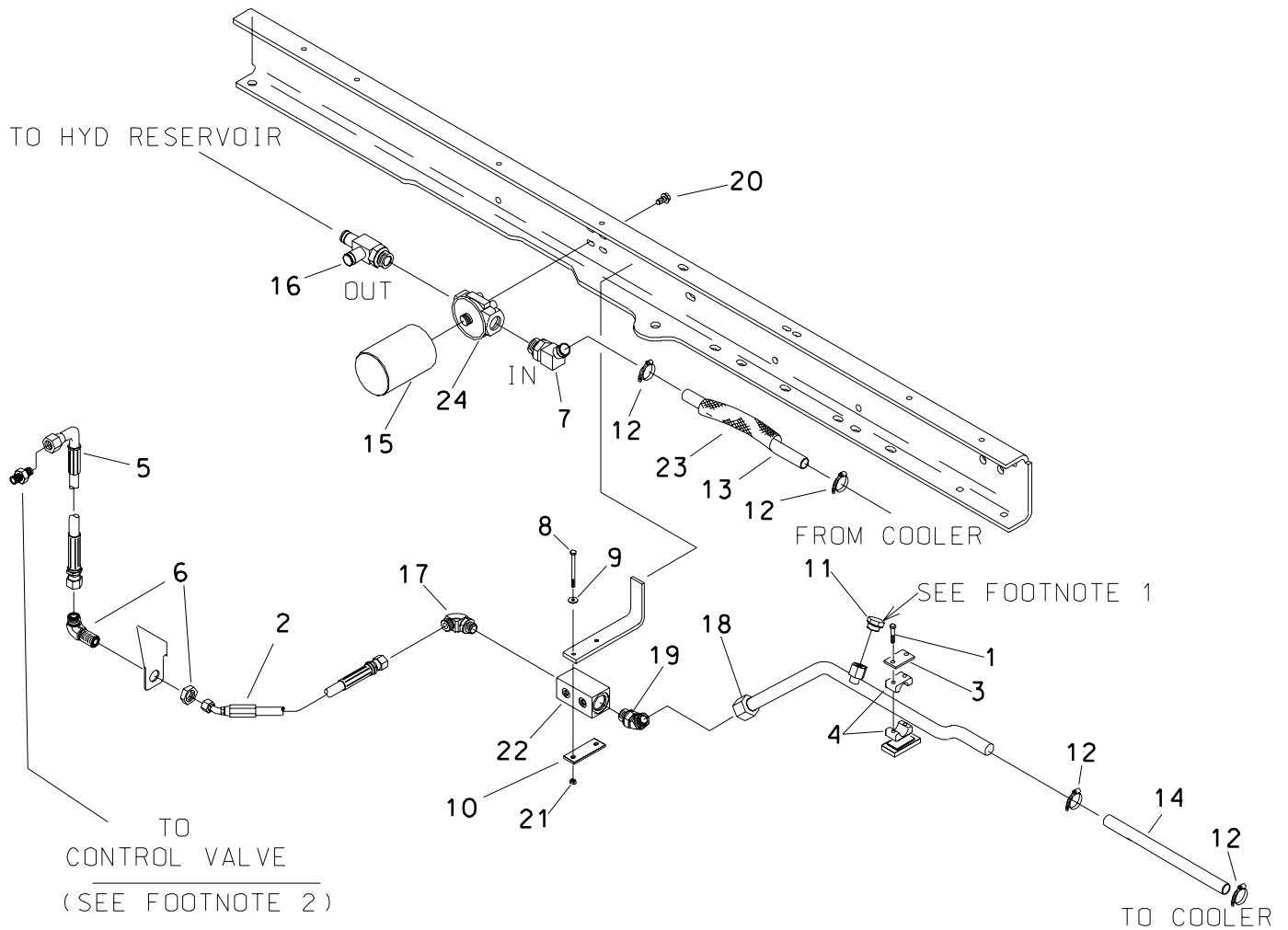
FOOTNOTES:

NOTE:

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

COOLER/FILTER HYDRAULICS

5700



COOLER/FILTER HYDRAULICS

5700

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	105-818	2	BOLT (1/4-NC X 1-1/2")	
2.	515-604	-	HOSE (100FX45-20"-3000)	
3.	322-289	1	BACK-UP (BOLT-ON)	
4.	110-573	1	BOLT-ON CLAMP (1", SOLD PER SET)	
5.	515-605	-	HOSE (100FX90-20"-3000)	
6.	154-291	-	BK CONNECTOR (100-10090BK)	
7.	155-230	1	S/D COUPLER (16S-16H45)	
8.	105-297	2	BOLT (1/4-NC X 3-1/4")	
9.	106-076	2	WASHER (1/4")	
10.	313-540	1	MANIFOLD STRAP	
11.	500-294	1	PLUG (10S)	SEE FOOTNOTE 1
12.	110-353	4	WORM CLAMP (3/4" TO 1-1/2")	
13.	116-460	AR	BULK HOSE (1", SOLD PER 1")	USE 1 @ 55"
14.	116-460	AR	BULK HOSE (1", SOLD PER 1")	USE 1 @ 12-1/2"
15.	159-074	1	FILTER ELEMENT (1-3/8 UNF)	SEE FOOTNOTE 3
	149-874	-	FILTER ELEMENT (1-3/8)	
16.	514-434	-	S/D RUN TEE (16S-16H-12H)	
17.	156-298	-	CONNECTOR (10S-10090)	
18.	156-121	1	COOLER SUPPLY LINE	
19.	154-388	1	CONNECTOR (16S-16045)	
20.	105-826	4	FLG LK BOLT (3/8-NC X 1")	
21.	105-085	2	LOCKNUT (1/4-NC)	
22.	159-412	-	RETURN MANIFOLD	
23.	117-679	1	ABRASION SLEEVE (1.59" X 32")	
24.	157-946	1	HEAD ASSEMBLY	

FOOTNOTES

- REF NO 11 (500-294) IS USED ONLY WHEN TRENCHER IS NOT EQUIPPED WITH A POWER BEYOND MANIFOLD. REFER TO PARTS PAGE 805-345 TITLED "POWER BEYOND OPTION" FOR INSTALLATION INSTRUCTIONS.
- REFER TO PARTS PAGE 805-353 "HYDRAULIC CONTROL VALVE" FOR DESCRIPTION OF THIS FITTING.
- USE 159-074 FOR NORMAL MAINTENANCE. USE 149-874 AFTER COMPONENT REPLACEMENT OR REPAIR.

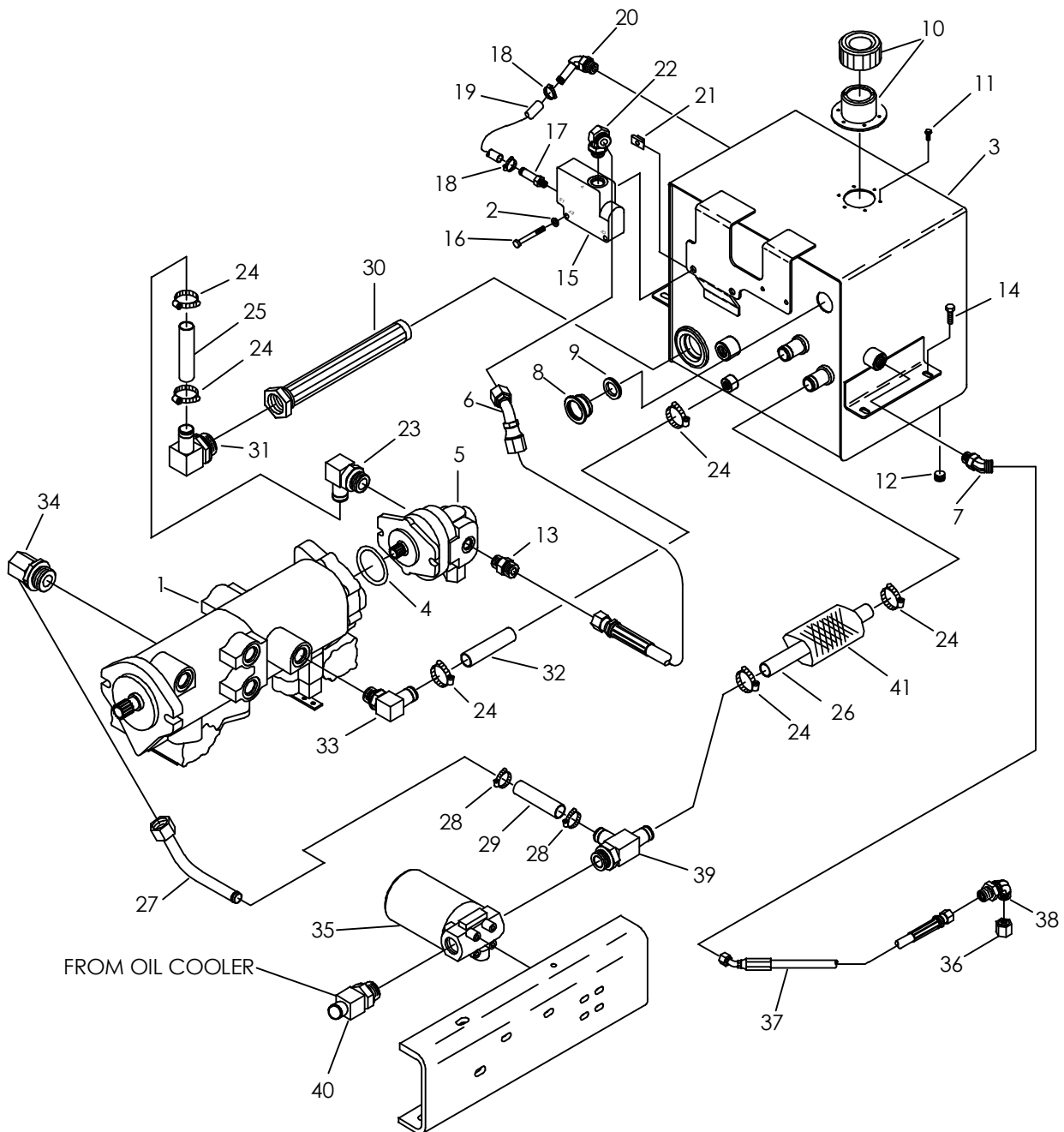
NOTE:

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

PUMPS AND RESERVOIR

5700

ENDS WITH S/N



PUMPS AND RESERVOIR

5700

ENDS WITH S/N

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	158-025	1	HYD TANDEM PUMP(PISTON)	
	190-805		SEAL REPAIR KIT	
	499-633		NEUTRAL START MOUNTING KIT	SEAL KIT AVAILABLE (500-1573)
	500-639		NEUTRAL START SWITCH	
2.	105-226	2	WASHER (5/16")	
3.	364-456	1	HYDRAULIC RESERVOIR	
4.	157-041	1	O-RING (152 D70)	
5.	158-459	1	HYDRAULIC PUMP	
6.	515-594	1	HOSE (100FX45-22"-3000)	
7.	154-284	1	CONNECTOR (08S-08045)	
8.	116-218	1	SIGHT GLASS (2")	INCL REFLECTOR
9.	115-320	1	GROMMET (1-1/2")	
10.	110-008	1	FILTER BREATHER (2-1/8")	
	110-828	1	HYD BREATHER CAP	LOCKABLE: EXPORT ONLY
11.	105-214	6	FLG SCREW (#10-24 X 1/2")	SEE FOOTNOTE 1
12.	155-074	1	PLUG (08S, SOC FM)	
13.	154-301	1	CONNECTOR (10S-100)	
14.	105-826	4	FLG LK BOLT (3/8-NC X 1")	
15.	158-901	1	PRIORITY VALVE	
16.	105-190	2	BOLT (5/16-NC X 2-3/4")	
17.	514-296	1	S/O COUPLER (04S-08H)	
18.	110-217	2	WORM CLAMP (7/16" TO 1")	
19.	116-286	AR	BULK HOSE (1/2", SOLD PER 1")	USE 1 @ 10"
20.	514-297	1	S/O COUPLER (08S-08H90)	
21.	105-841	2	CLIP NUT (5/16-NC)	
22.	154-298	1	CONNECTOR (10S-10090)	
23.	154-188	1	S/O COUPLER (16S-16H90)	
24.	110-353	6	WORM CLAMP (3/4" TO 1-1/2")	
25.	116-460	AR	BULK HOSE (1", SOLD PER FT)	USE 1 @ 10.5"
26.	116-460	AR	BULK HOSE (1", SOLD PER FT)	USE 1 @ 22"
27.	156-935	1	CHARGE PRESSURE LINE	
28.	110-026	2	WORM CLAMP (1/2" TO 1-1/4")	
29.	116-636	AR	BULK HOSE (3/4", SOLD PER FT)	USE 1 @ 12.5"
30.	110-336	1	STRAINER (24S-20SF)	
31.	155-195	1	S/O COUPLER (20S-16H90)	
32.	116-460	AR	BULK HOSE (1", SOLD PER FT)	USE 1 @ 17.5"
33.	155-146	1	S/O COUPLER (12S-16H90)	
34.	514-010	1	CONNECTOR (120-20S90)	
35.	159-073	-	HYD OIL FILTER (16SF-16SF)	
36.	154-327	1	CAP (080F)	
37.	515-182	1	HOSE (080FX45-14"-3000)	
38.	154-396	1	BK CONNECTOR (080-08090BK)	
39.	514-434	1	S/O RUN TEE (16S-16H-12H)	
40.	155-230	-	S/O COUPLER (16S-16H45)	
41.	115-777	-	ABRASION SLEEVE (1.59" X 15")	

FOOTNOTES:

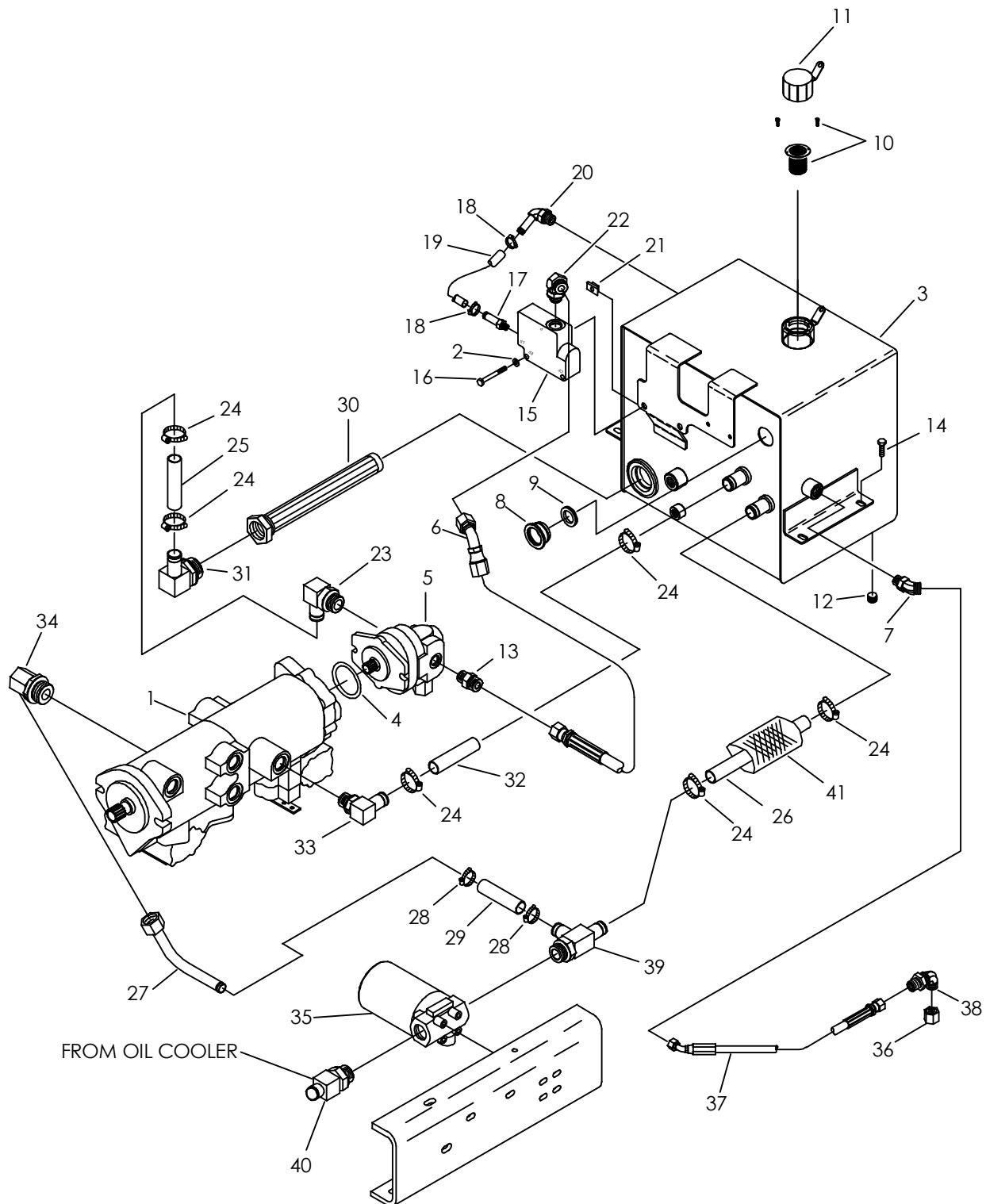
1. USE SCREWS, REF# 11, IN PLACE OF SCREWS THAT COME WITH FILTER BREATHER KIT, REF# 10.

NOTE:

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

PUMP AND RESERVOIR

5700
BEGINS WITH S/N



PUMP AND RESERVOIR

5700

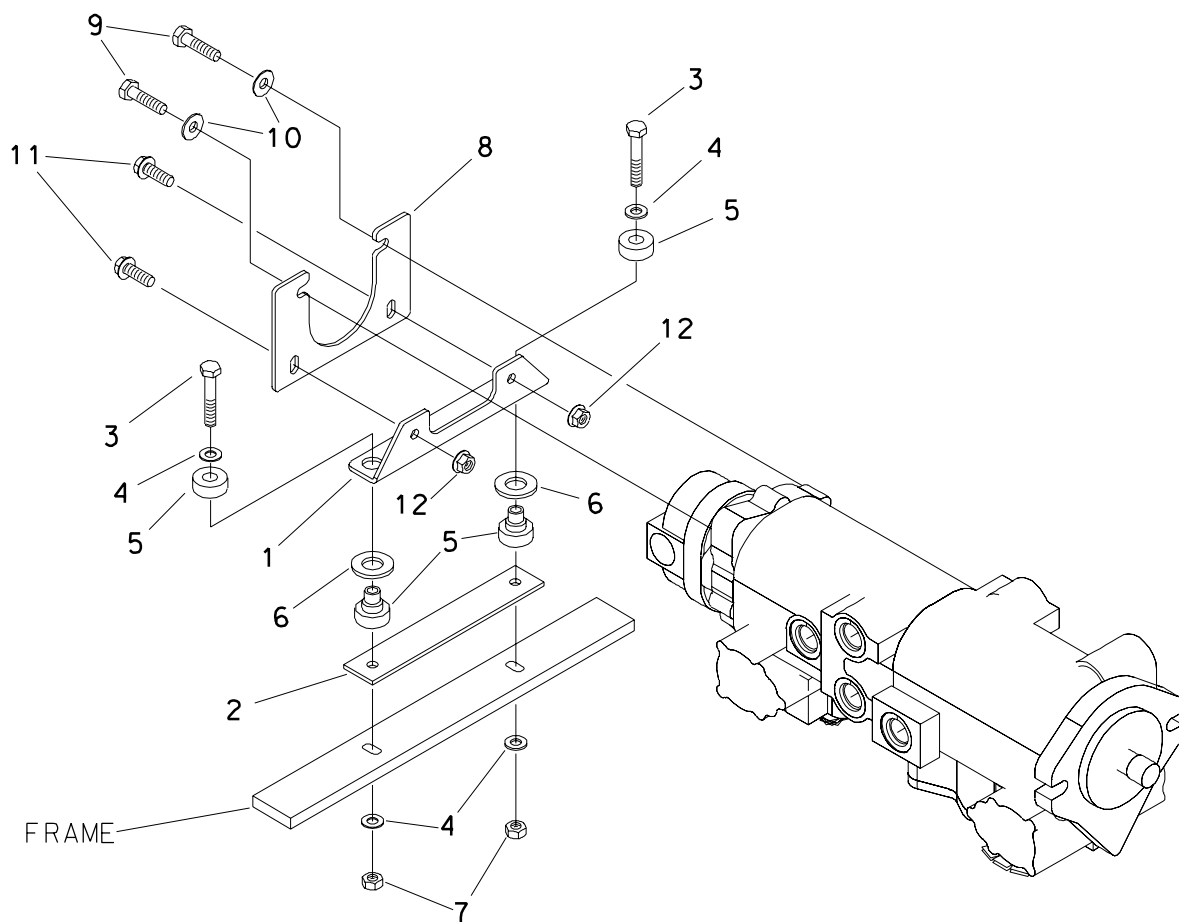
BEGINS WITH S/N

REF	PART				
NO.	NUMBER	QTY	DESCRIPTION	REMARKS	
1.	158-025	1	HYD TANDEM PUMP(PISTON)		
	190-805		SEAL REPAIR KIT		
	499-633		NEUTRAL START MOUNTING KIT	SEAL KIT AVAILABLE (500-1573)	
	500-639		NEUTRAL START SWITCH		
2.	105-226	2	WASHER (5/16")		
3.	364-456	1	HYDRAULIC RESERVOIR		
4.	157-041	1	O-RING (152 D70)		
5.	158-459	1	HYDRAULIC PUMP		
6.	515-594	1	HOSE (100FX45-22"-3000)		
7.	154-284	1	CONNECTOR (08S-08045)		
8.	116-218	1	SIGHT GLASS (2")	INCL REFLECTOR	
9.	115-320	1	GROMMET (1-1/2")		
10.	153-900	1	STRAINER		
	105-189	2	SCREW (#6-32 X 1/2")		
11.	153-766	1	LOCKING CAP (VENTED)		
12.	155-074	1	PLUG (08S, SOC FM)		
13.	154-301	1	CONNECTOR (10S-100)		
14.	105-826	4	FLG LK BOLT (3/8-NC X 1")		
15.	158-901	1	PRIORITY VALVE		
16.	105-190	2	BOLT (5/16-NC X 2-3/4")		
17.	514-296	1	S/O COUPLER (04S-08H)		
18.	110-217	2	WORM CLAMP (7/16" TO 1")		
19.	116-286	AR	BULK HOSE (1/2", SOLD PER 1")	USE 1 @ 10"	
20.	514-297	1	S/O COUPLER (08S-08H90)		
21.	105-841	2	CLIP NUT (5/16-NC)		
22.	154-298	1	CONNECTOR (10S-10090)		
23.	154-188	1	S/O COUPLER (16S-16H90)		
24.	110-353	6	WORM CLAMP (3/4" TO 1-1/2")		
25.	116-460	AR	BULK HOSE (1", SOLD PER FT)	USE 1 @ 10.5"	
26.	116-460	AR	BULK HOSE (1", SOLD PER FT)	USE 1 @ 22"	
27.	156-935	1	CHARGE PRESSURE LINE		
28.	110-026	2	WORM CLAMP (1/2" TO 1-1/4")		
29.	116-636	AR	BULK HOSE (3/4", SOLD PER FT)	USE 1 @ 12.5"	
30.	110-336	1	STRAINER (24S-20SF)		
31.	155-195	1	S/O COUPLER (20S-16H90)		
32.	116-460	AR	BULK HOSE (1", SOLD PER FT)	USE 1 @ 17.5"	
33.	155-146	1	S/O COUPLER (12S-16H90)		
34.	514-010	1	CONNECTOR (120-20S90)		
35.	159-073	-	HYD OIL FILTER (16SF-16SF)		
36.	154-327	1	CAP (080F)		
37.	515-182	1	HOSE (080FX45-14"-3000)		
38.	154-396	1	BK CONNECTOR (080-08090BK)		
39.	514-434	1	S/O RUN TEE (16S-16H-12H)		
40.	155-230	-	S/O COUPLER (16S-16H45)		
41.	115-777	-	ABRASION SLEEVE (1.59" X 15")		

NOTE:

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

PUMP MOUNT



PUMP MOUNT

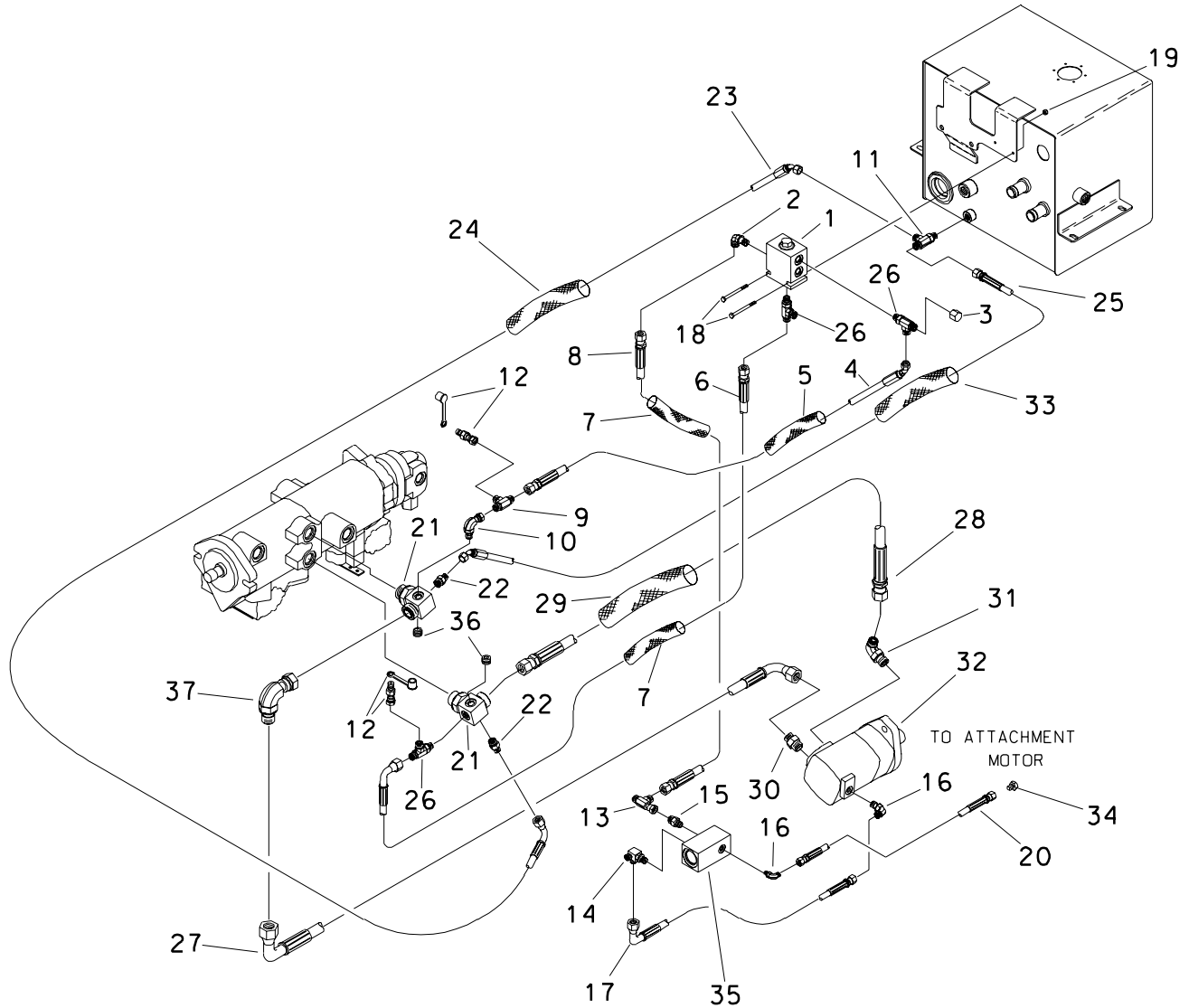
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	328-368	1	PUMP BRACKET	
2.	328-369	1	PUMP BRACKET SPACER	
3.	105-183	2	BOLT (3/8-NC X 2-1/2", GD8)	
4.	105-118	4	WASHER (3/8")	
5.	116-142	2	SHOCK MOUNT	
6.	105-975	2	WASHER (3/4")	
7.	105-047	2	LOCKNUT (3/8-NC)	
8.	363-635	1	PUMP SUPPORT PLATE	
9.	105-238	2	BOLT (3/8-NC X 1-1/2", ALN)	
10.	105-805	2	BELLEVILLE WASHER (3/8")	
11.	105-826	2	FLG LK BOLT (3/8-NC X 1")	
12.	105-834	2	FLG LOCKNUT (3/8-NC)	

FOOTNOTES

GROUND DRIVE HYDRAULICS

5700

ENDS WITH S/N 3S0752



GROUND DRIVE HYDRAULICS

5700

ENDS WITH S/N 3S0752

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	501-829	1	FLUSHING VALVE	
2.	154-342	1	CONNECTOR (06S-06090)	
3.	154-326	1	CAP (06DF)	
4.	515-587	1	HOSE (06DFX45-20"-3000)	
5.	117-672	1	ABRASION SLEEVE (1.00" X 20")	
6.	515-176	1	HOSE (06DFX90-38"-3000)	
7.	117-718	2	ABRASION SLEEVE (1.00" X 36")	
8.	154-788	1	HOSE (06DFX-40"-3000)	
9.	154-437	1	TEE (060-060-060)	
10.	154-343	1	UNION (06S-06FX90)	
11.	154-346	1	RUN TEE (06S-060-060)	
12.	159-157	2	QDC ADAPTER (02-060F)	
	159-148	2	DUST CAP (1/8")	
13.	154-344	1	UNION RUN TEE (06DFX-060-060)	
14.	154-230	1	BRANCH TEE (06S-040-040)	
15.	159-388	1	CHECK VALVE (06S-060)	
16.	154-252	2	CONNECTOR (04S-04090)	
17.	154-726	1	HOSE (04DFX90-15"-3000)	
18.	105-224	2	BOLT (1/4-NC X 2-1/2")	
19.	105-085	2	LOCKNUT (1/4-NC)	
20.	154-669	1	HOSE (04DFX-50"-3000)	
21.	149-058	2	RUN TEE (16S-120-06SF-06SF-06SF)	
22.	159-381	2	CHECK VALVE (06S-060)	
23.	154-888	1	HOSE (06DFX45/90/270-46"-3000)	
24.	117-717	1	ABRASION SLEEVE (1.00" X 40")	
25.	154-845	1	HOSE (06DFX45-26"-3000)	
26.	154-345	3	BRANCH TEE (06S-060-060)	
27.	515-007	1	HOSE (12DFX90-16.5"-4000)	
28.	149-197	1	HOSE (12DFX-28"-5000)	
29.	117-679	1	ABRASION SLEEVE (1.59" X 32")	
30.	154-247	1	CONNECTOR (10S-120)	
31.	154-273	1	CONNECTOR (10S-12090)	
32.	149-112	1	HYDRAULIC MOTOR	
	500-658		SEAL REPAIR KIT	
33.	115-713	2	ABRASION SLEEVE (1.59" X 24")	
34.	154-297	1	PLUG (040)	
35.	159-412	-	RETURN MANIFOLD	
36.	154-384	2	PLUG (06S)	
37.	154-457	1	UNION (120-12DFX90)	

FOOTNOTES

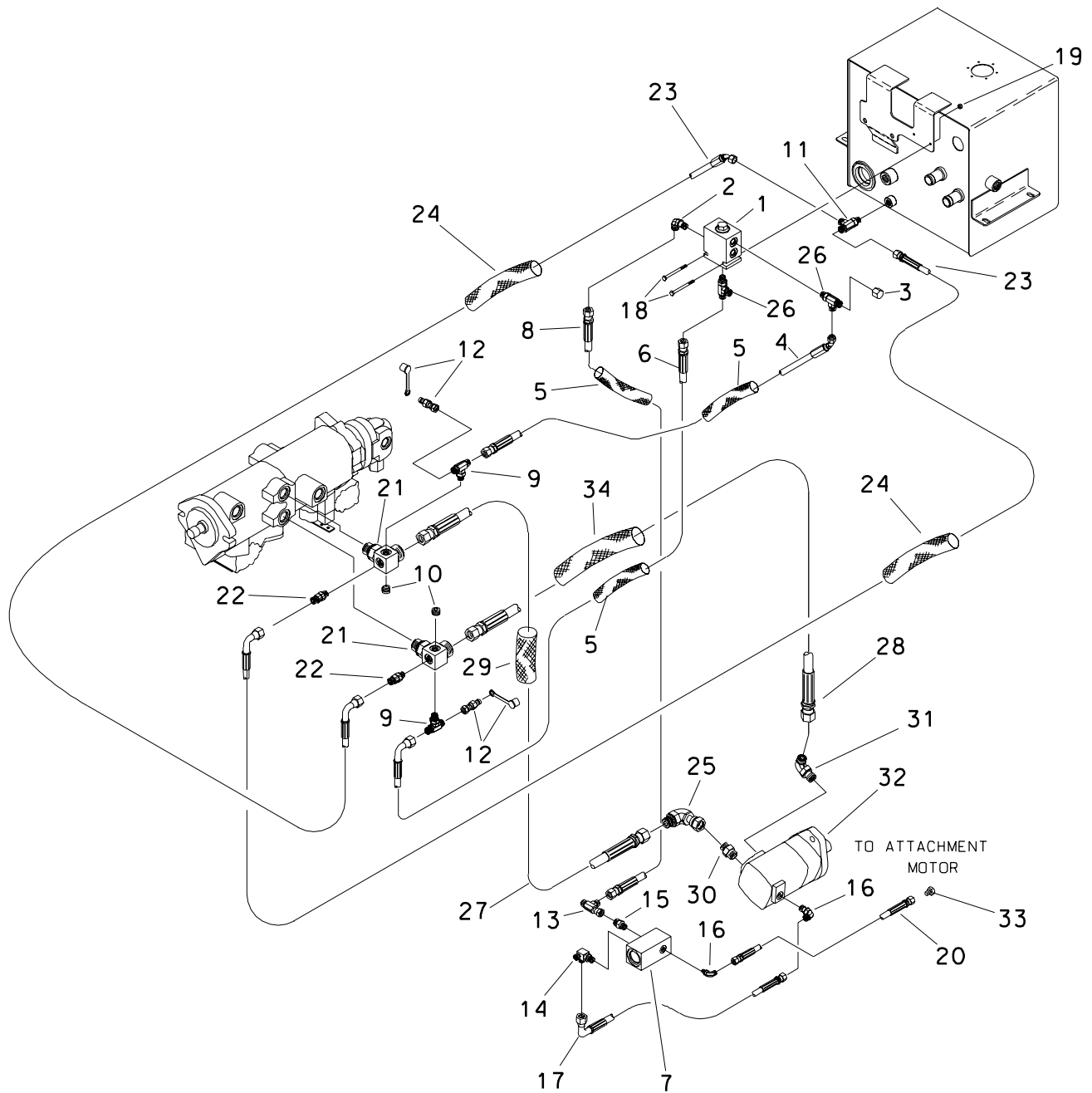
NOTE

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

GROUND DRIVE HYDRAULICS

5700

BEGINS WITH S/N 3S0753



GROUND DRIVE HYDRAULICS

5700

BEGINS WITH S/N 3S0753

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	501-829	1	FLUSHING VALVE	
2.	154-342	1	CONNECTOR (06S-06090)	
3.	154-326	1	CAP (06DF)	
4.	515-587	1	HOSE (06DFX45-20"-3000)	
5.	117-718	3	ABRASION SLEEVE (1.00" X 36")	
6.	154-807	1	HOSE (06DFX-24"-3000)	
7.	159-412	-	RETURN MANIFOLD	
8.	154-788	1	HOSE (06DFX-40"-3000)	
9.	154-346	2	TEE (060-060-060)	
10.	154-384	2	PLUG (06S)	
11.	154-346	1	RUN TEE (06S-060-060)	
12.	159-157	2	QDC ADAPTER (02-060F)	
	159-148	2	DUST CAP (1/8")	
13.	154-344	1	UNION RUN TEE (06DFX-060-060)	
14.	154-230	1	BRANCH TEE (06S-040-040)	
15.	159-388	1	CHECK VALVE (06S-060)	
16.	154-252	2	CONNECTOR (04S-04090)	
17.	154-726	1	HOSE (04DFX90-15"-3000)	
18.	105-224	2	BOLT (1/4-NC X 2-1/2")	
19.	105-085	2	LOCKNUT (1/4-NC)	
20.	154-669	1	HOSE (04DFX-50"-3000)	
21.	149-058	2	RUN TEE (16S-120-06SF-06SF-06SF)	
22.	159-381	2	CHECK VALVE (06S-060)	
23.	515-176	2	HOSE (06DFX45/90/270-38"-3000)	
24.	117-718	2	ABRASION SLEEVE (1.00" X 36")	
25.	154-457	1	UNION (120-120FX90)	
26.	154-345	2	BRANCH TEE (06S-060-060)	
27.	148-582	1	HOSE (12DFX-34"-4000)	
28.	149-197	1	HOSE (12DFX-28"-5000)	
29.	117-679	1	ABRASION SLEEVE (1.59" X 32")	
30.	154-247	1	CONNECTOR (10S-120)	
31.	154-273	1	CONNECTOR (10S-12090)	
32.	149-112	1	HYDRAULIC MOTOR	
	500-658	-	SEAL REPAIR KIT	
33.	154-297	1	PLUG (040)	
34.	115-713	1	ABRASION SLEEVE (1.59" X 24")	

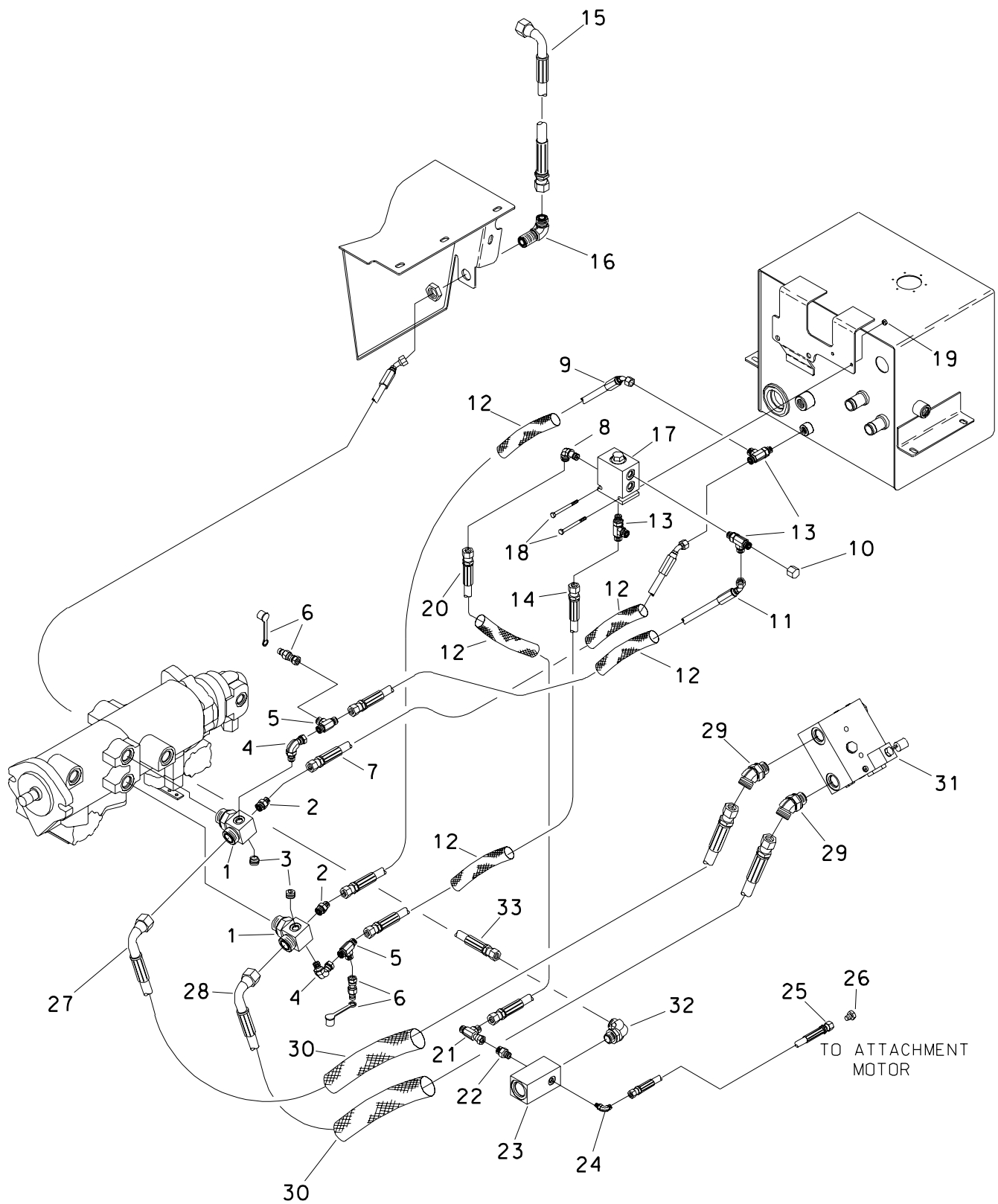
FOOTNOTES

NOTE

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

GROUND DRIVE HYDRAULICS

PLANETARY



GROUND DRIVE HYDRAULICS

PLANETARY

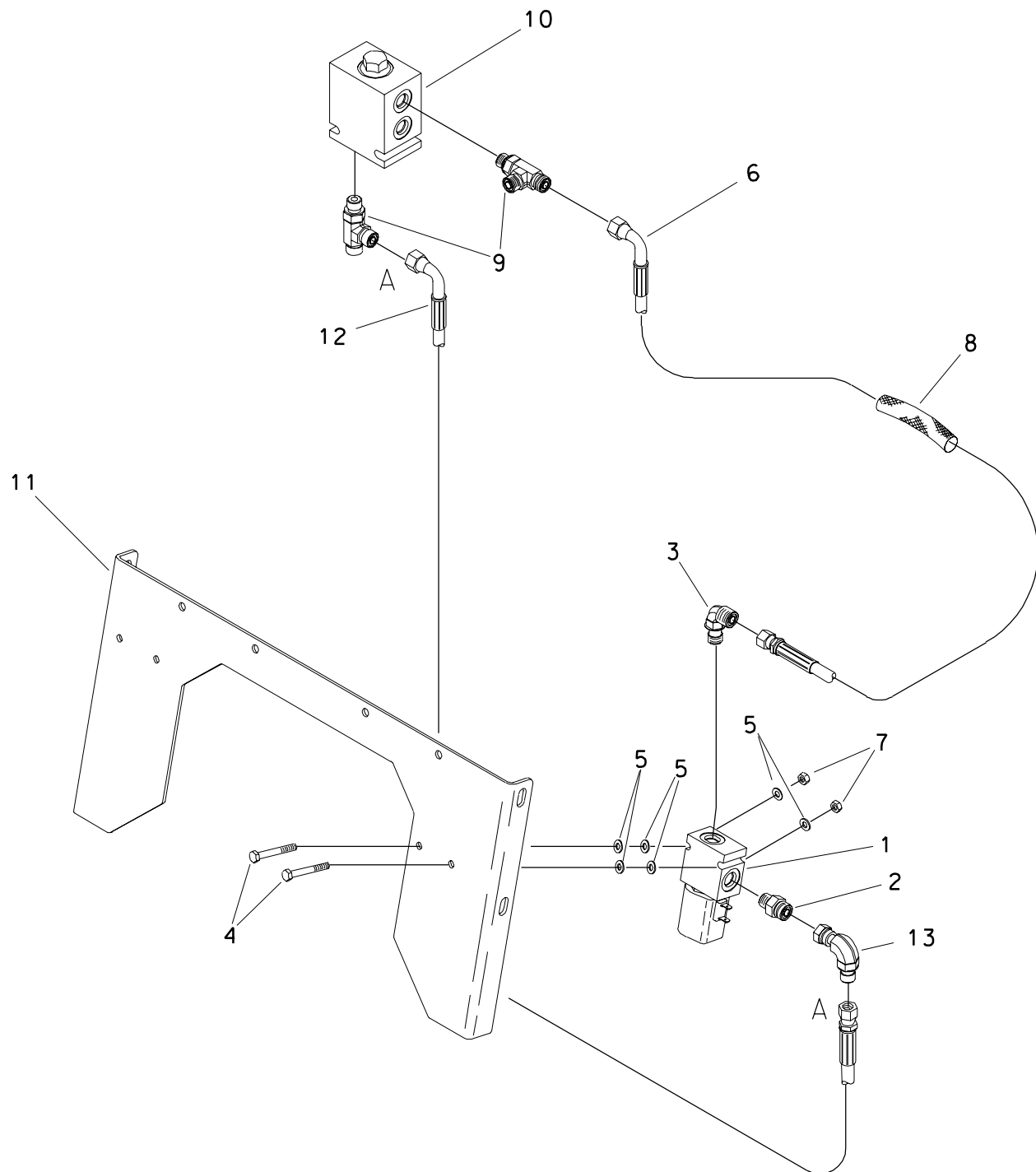
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	149-058	-	RUN TEE (16S-120-06SF-06SF-06SF)	
2.	159-381	-	CHECK VALVE (06S-060)	
3.	154-384	2	PLUG (06S)	
4.	154-343	2	UNION (06S-060FX90)	
5.	154-437	2	TEE (060-060-060)	
6.	159-157	2	QDC ADAPTER (02-060F)	
	159-148	2	DUST CAP (1/8")	
7.	154-845	1	HOSE (060FX45-26"-3000)	
8.	154-342	1	CONNECTOR (06S-06090)	
9.	154-887	1	HOSE (060FX45-23"-3000)	
10.	154-326	1	CAP (060F)	
11.	515-587	-	HOSE (060FX45-20"-3000)	
12.	117-672	5	ABRASION SLEEVE (1.00" X 20")	
13.	154-345	3	RUN TEE (06S-060-060)	
14.	154-807	1	HOSE (060FX-24"-3000)	
15.	153-294	1	HOSE (100FX90S-17"-3000)	
16.	154-291	1	BK CONNECTOR 100-10090BK)	
17.	501-829	-	FLUSHING VALVE	
18.	105-224	-	BOLT (1/4-NC X 2-1/2")	
19.	105-085	-	LOCKNUT (1/4-NC)	
20.	154-788	-	HOSE (060FX-40"-3000)	
21.	154-344	-	UNION RUN TEE (060FX-060-060)	
22.	159-388	-	CHECK VALVE (06S-060)	
23.	159-412	-	RETURN MANIFOLD	
24.	154-252	-	CONNECTOR (04S-04090)	
25.	154-705	-	HOSE (040FX90-60"-3000)	
26.	154-297	-	PLUG (040)	
27.	515-607	1	HOSE (120FX90-31"-3000)	
28.	154-818	1	HOSE (120FX90-26.5"-4000)	
29.	154-251	2	CONNECTOR (12S-12045)	
30.	117-708	2	ABRASION SLEEVE (1.59" X 28")	
31.	159-454	-	SERIES/PARALLEL MANIFOLD	
32.	154-298	1	CONNECTOR (10S-10090)	
33.	515-604	1	HOSE (100FX45-20"-3000)	

FOOTNOTES

NOTE

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

TOW VALVE HYDRAULICS



TOW VALVE HYDRAULICS

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	215-072	1	SOLENOID CONTROL VALVE	SEE FOOTNOTE 1
2.	154-221	1	CONNECTOR (06S-060)	
3.	154-342	1	CONNECTOR (06S-06090)	
4.	105-297	2	BOLT (1/4-NC X 3")	
5.	105-095	6	WASHER (1/4")	
6.	515-586	1	HOSE (060FX90-21"-3000)	
7.	105-085	2	LOCKNUT (1/4-NC)	
8.	117-672	1	ABRASION SLEEVE (1.00" X 20")	
9.	154-345	1	RUN TEE (06S-060-060)	
10.	501-829	1	FLUSHING VALVE	
11.	313-514		SEAT DECK MOUNT	
12.	515-586		HOSE (060FX90-21"-3000)	
13.	154-228	1	UNION (060-060FX90)	

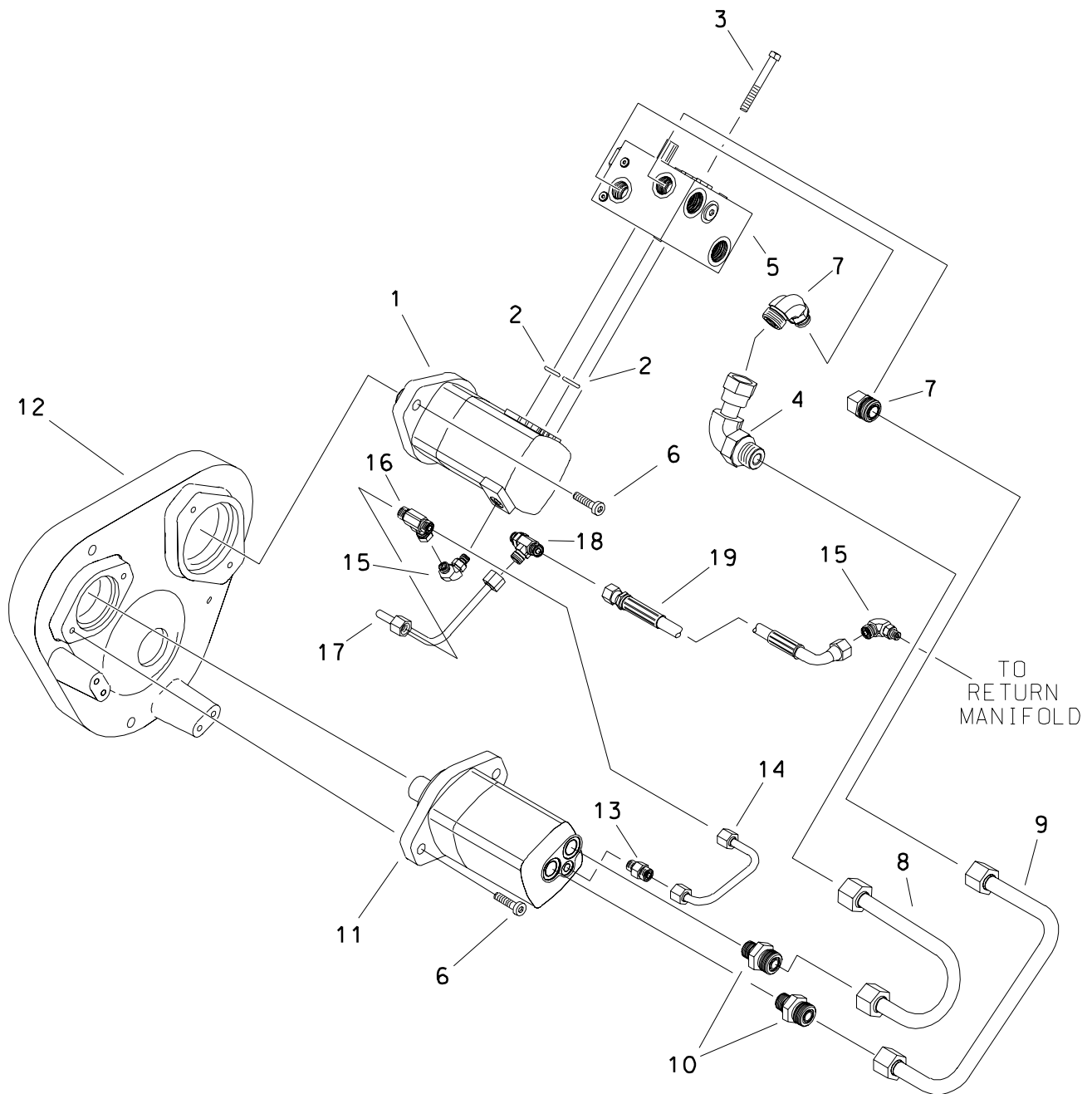
FOOTNOTES

1. REFER TO A222 / A422 MOUNTING INSTRUCTIONS

NOTES:

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

PLANETARY DRIVE HYDRAULICS



PLANETARY DRIVE HYDRAULICS

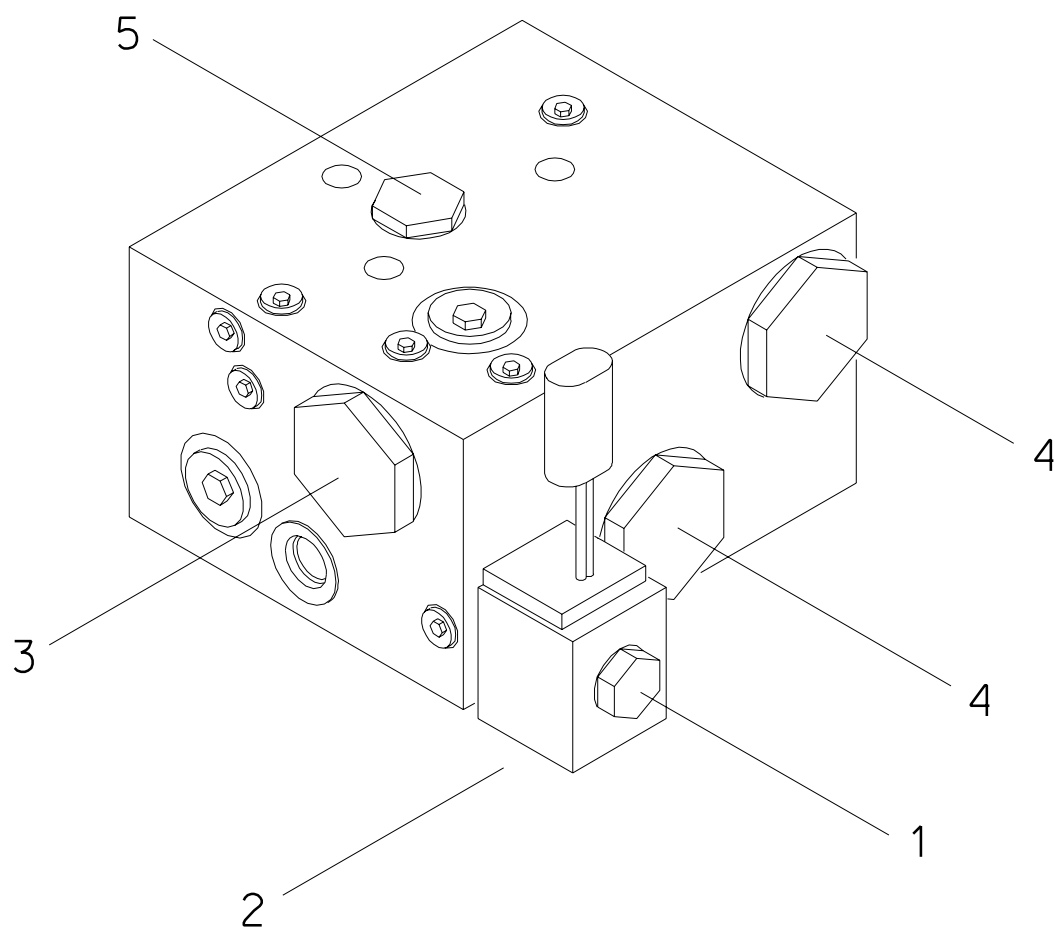
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	149-040	1	HYDRAULIC MOTOR	
	500-347		SEAL REPAIR KIT	
2.	155-776	2	O-RING (117 D70)	
3.	105-022	3	BOLT (3/8-NC X 4")	
4.	154-457	1	UNION (120-120FX90)	
5.	159-454	1	SERIES/PARALLEL MANIFOLD	
6.	106-204	4	BOLT (1/2-NC X 1-1/2", ALN)	
7.	154-273	2	CONNECTOR (10S-12090)	
8.	156-168	1	HYDRAULIC LINE	
9.	156-169	1	HYDRAULIC LINE	
10.	154-247	2	CONNECTOR (10S-120)	
11.	158-932	1	HYDRAULIC MOTOR	
12.	169-079	-	FRONT HOUSING	
13.	154-411	1	CONNECTOR (04S-060)	
14.	156-188	1	HYDRAULIC LINE	
15.	514-049	2	CONNECTOR (04S-06090)	
16.	154-346	1	BRANCH TEE (06S-060-060)	
17.	156-187	1	HYDRAULIC LINE	
18.	154-345	1	RUN TEE (06S-060-060)	
19.	515-603	1	HOSE (060FX90-14"-3000)	

FOOTNOTES

NOTE:

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

SERIES/PARALLEL MANIFOLD

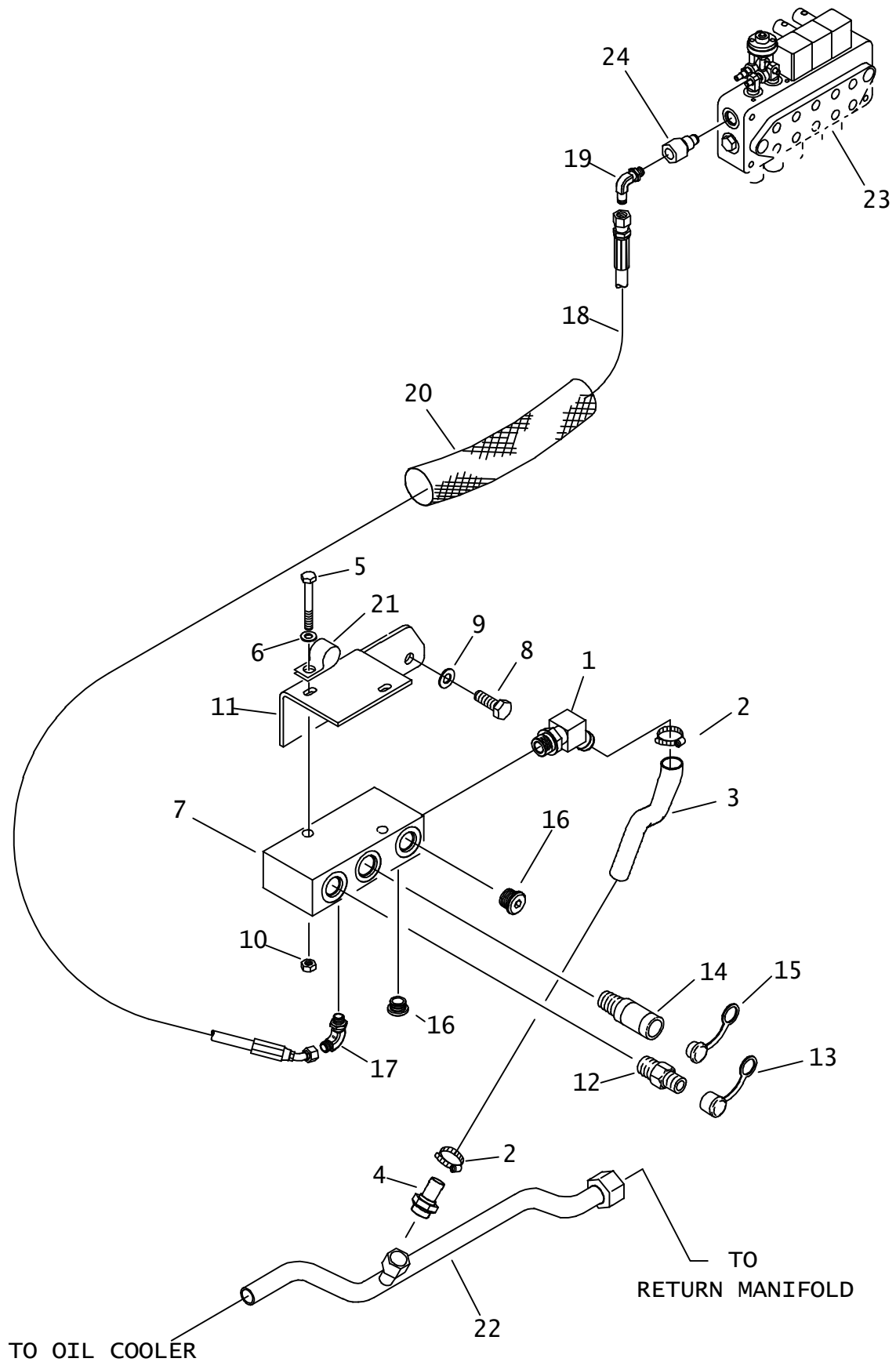


SERIES/PARALLEL MANIFOLD

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	159-454	-	SERIES/PARALLEL MANIFOLD	
1.	214-733	1	SOLENOID	
2.	214-734	1	SOLENOID COIL	
3.	153-053	1	LOGIC VALVE PILOT TO CLOSE	
4.	153-054	2	LOGIC VALVE PILOT TO CLOSE	
5.	153-055	1	BACK TO BACK CHECK VALVE	

FOOTNOTES

POWER BEYOND HYDRAULICS 5700



POWER BEYOND HYDRAULICS 5700

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	190-918		AUX. MANIFOLD KIT	INCLUDES REF. NO.'S 1-21
1.	155-197	1	S/O COUPLER (12S-16H45)	
2.	110-353	2	WORM CLAMP (3/4" TO 1-1/2")	
3.	116-335	AR	BULK HOSE (1", SOLD PER FT)	USE 1 @ 6.5"
4.	155-161	1	S/O COUPLER (12S-16H)	
5.	500-226	2	BOLT (3/8-NC X 3")	
6.	105-117	2	WASHER (5/16")	
7.	159-127	1	AUXILIARY MANIFOLD	
8.	106-596	2	SCREW (M14-2.00 X 30mm, EPOXY LK)	
9.	106-598	2	WASHER (9/16", HARDENED)	
10.	105-047	2	LOCKNUT (3/8-NC)	
11.	328-463	1	MOUNT BRACKET	
12.	155-933	1	QDC ADAPTER (12S-12J)	
13.	155-935	1	DUST CAP (1/2"-3/4")	
14.	155-958	1	TRICK QDC BODY (12-14S)	
15.	155-936	1	DUST PLUG (1/2-3/4")	
16.	500-302	2	PLUG (12S)	
17.	154-300	1	CONNECTOR (100-12S90)	
18.	515-539	1	HOSE (100FX45-92"-3000)	
19.	154-323	1	CONNECTOR (08S-10090)	
20.	117-764	1	ABRASION SLEEVE (1.59" X 90")	
21.	110-259	1	BOLT ON CLAMP (.625")	
22.	156-121		COOLER SUPPLY LINE	
23.	153-573		HYD CONTROL VALVE (5 SPOOL)	
24.	153-499	1	POWER BEYOND SLEEVE	SEE FOOTNOTE 1

NOT SHOWN:

FOOTNOTES:

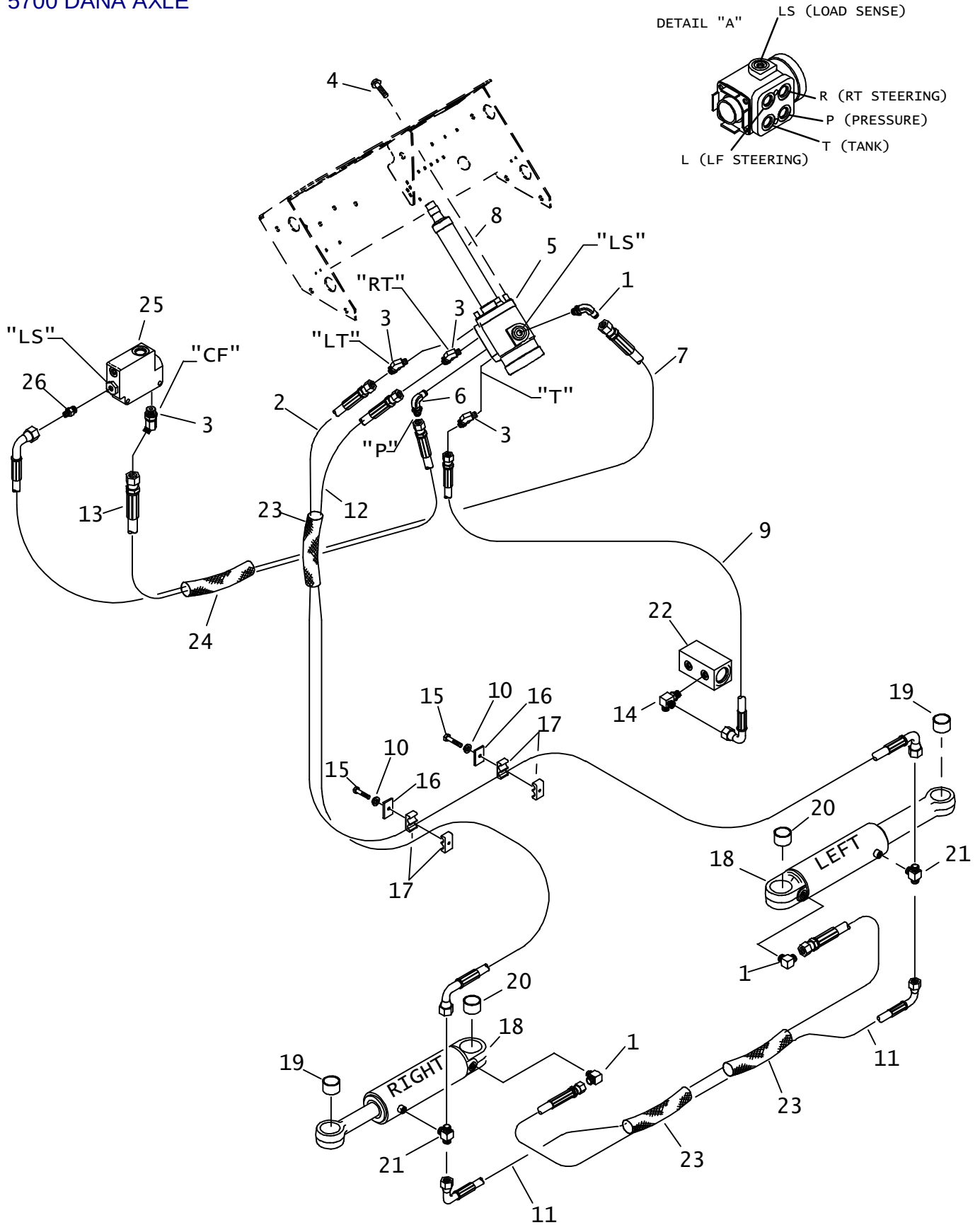
1. IF OPTIONAL MANIFOLD 159-127 IS NOT USED, POWER BEYOND SLEEVE/ELBOW 500-969/153-499 MUST BE REMOVED AND PLUG 500-736 INSTALLED IN THIS PLACE, SEE PARTS PAGE 805-353.

NOTE:

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

FRONT STEERING HYDRAULICS

5700 DANA AXLE



FRONT STEERING HYDRAULICS

5700 DANA AXLE

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	154-252	3	CONNECTOR (04S-04090)	
2.	154-840	1	HOSE (040FX90-66"-3000)	
3.	154-223	4	CONNECTOR (040-08S45)	
4.	105-827	4	FLG LK BOLT (3/8-NC X 1-1/4")	
5.	158-900	1	POWER STEERING VALVE	INCL REF NO 8
6.	154-276	1	CONNECTOR (040-08S90)	
7.	515-534	1	HOSE (040FX90-71"-3000)	
8.	158-902	1	STEERING COLUMN	
9.	515-093	1	HOSE (040FX90-42"-3000)	
10.	105-072	2	LOCK WASHER (3/8")	
11.	154-706	2	HOSE (040FX90-40"-3000)	
12.	154-705	1	HOSE (040FX90-60"-3000)	
13.	515-533	1	HOSE (040FX-68"-3000)	
14.	154-230	1	BRANCH TEE (06S-040-040)	
15.	105-075	2	BOLT (3/8-NC X 2")	
16.	305-256	2	BACK-UP SPACER	
17.	110-270	4	BOLT-ON CLAMP (9/16", HALF)	
18.	151-039	2	CYL (2.0" X 1.0" X 5.0")	
19.	125-770	2	COMPOSITION BUSHING (1.000")	
20.	125-771	2	COMPOSITION BUSHING (1.250")	
21.	154-293	2	BRANCH TEE (04S-040-040)	
22.	159-412	1	RETURN MANIFOLD	
23.	115-713	3	ABRASION SLEEVE (1.59" X 24")	
24.	115-755	1	ABRASION SLEEVE (1.59" X 60")	
25.	158-901	-	PRIORITY VALVE	
26.	154-278	1	CONNECTOR (04S-040)	

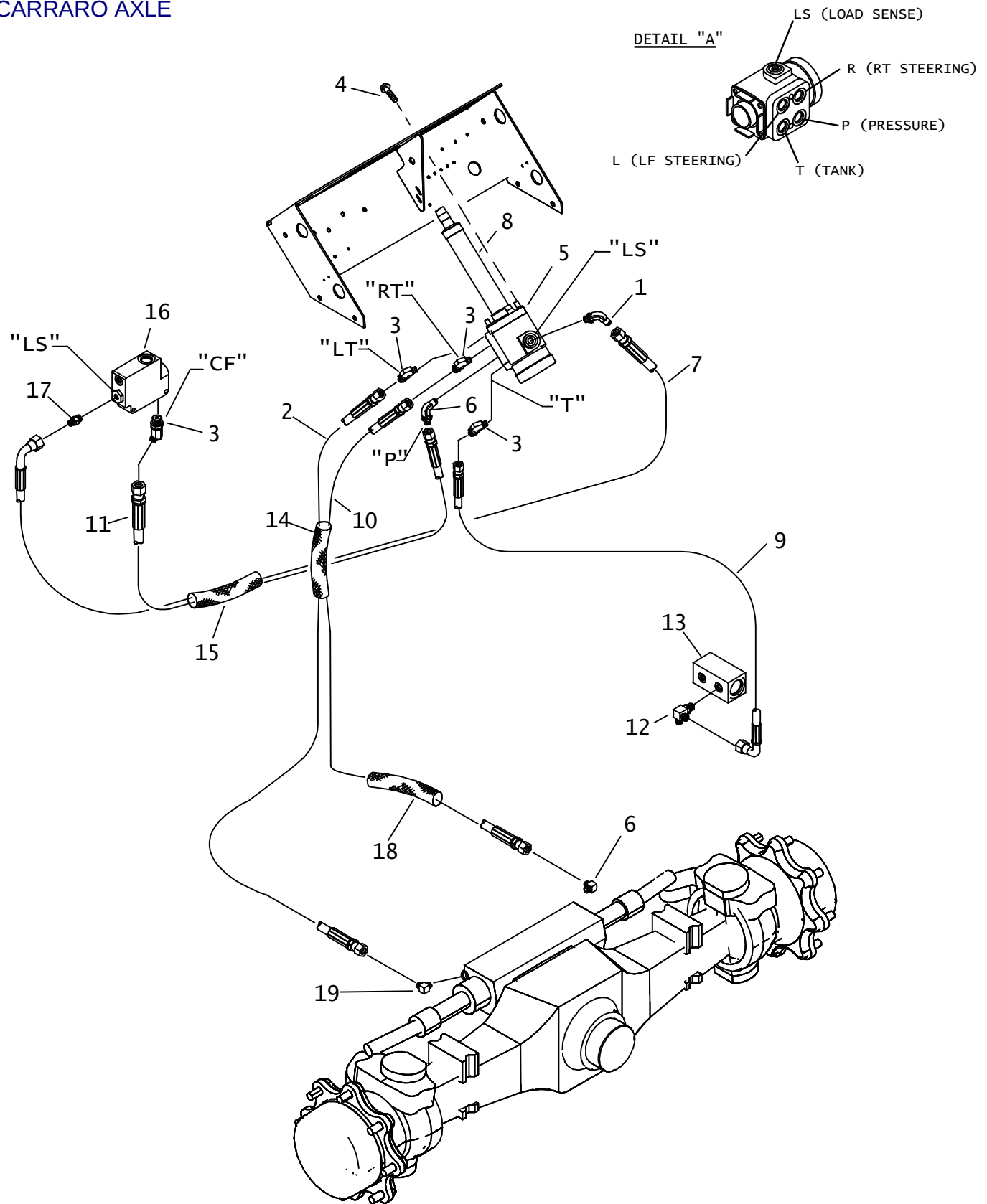
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FOOTNOTES:

NOTE:

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

FRONT STEERING HYDRAULICS CARRARO AXLE



FRONT STEERING HYDRAULICS

CARRARO AXLE

REF	PART				
NO.	NUMBER	QTY	DESCRIPTION	REMARKS	
1.	154-252	1	CONNECTOR (04S-04090)		
2.	515-156	1	HOSE (040FX45-40"-3000)		
3.	154-223	4	CONNECTOR (040-08S45)		
4.	105-827	4	FLG LK BOLT (3/8-NC X 1-1/4")		
5.	158-900	1	POWER STEERING VALVE	INCL REF NO 8	
	190-913		SEAL REPAIR KIT		
6.	154-276	1	CONNECTOR (040-08S90)		
7.	515-534	1	HOSE (040FX90-71"-3000)		
8.	158-902	1	STEERING COLUMN		
9.	515-093	1	HOSE (040FX90-42"-3000)		
10.	154-669	1	HOSE (040FX-60"-3000)		
11.	515-533	1	HOSE (040FX-68"-3000)		
12.	154-230		BRANCH TEE (06S-040-040)		
13.	159-412	1	RETURN MANIFOLD		
14.	115-713	3	ABRASION SLEEVE (1.59" X 24")		
15.	115-755	1	ABRASION SLEEVE (1.59" X 60")		
16.	158-901		PRIORITY VALVE		
17.	154-278	1	CONNECTOR (04S-040)		
18.	117-672	1	ABASION SLEEVE (1" X 20")		
19.	149-185	1	CONNECTOR (04S-08S90 SPECIAL)		

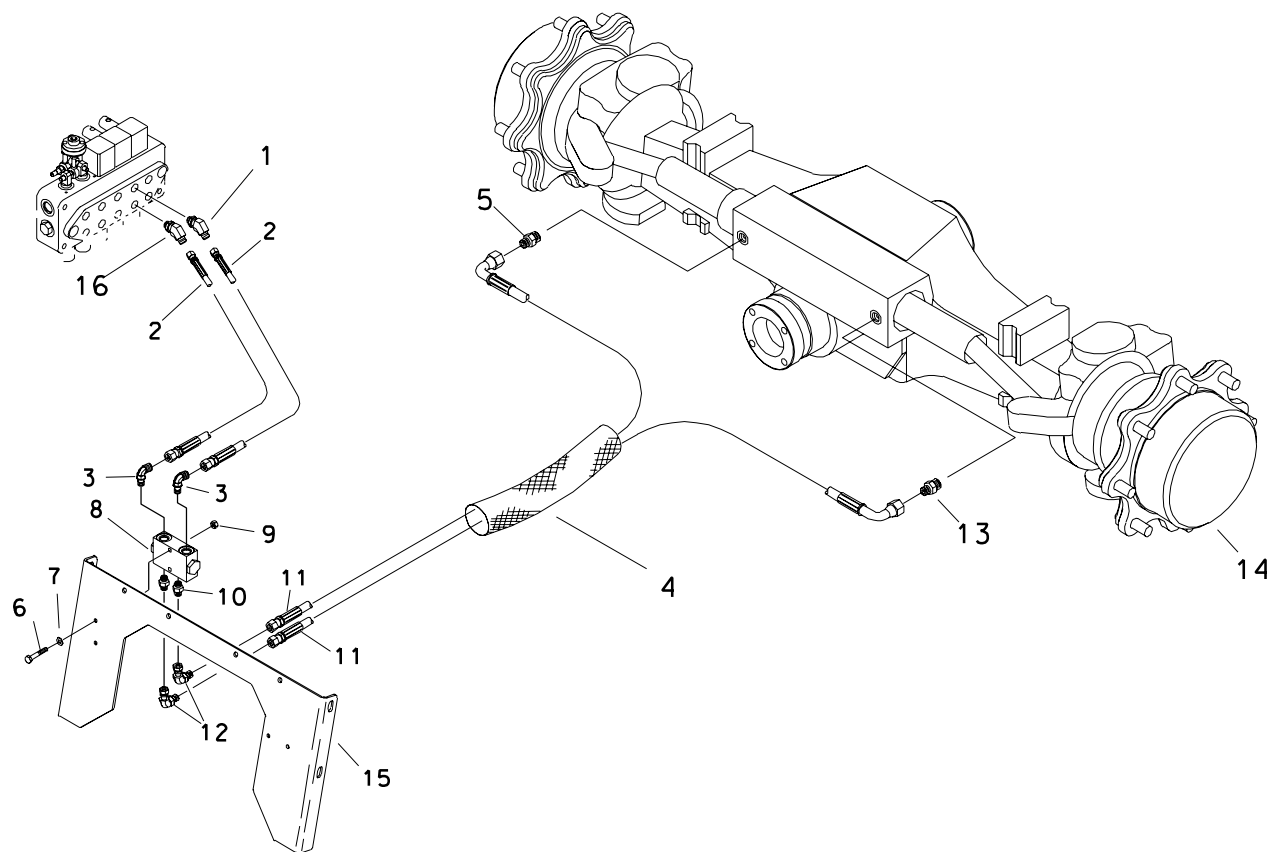
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FOOTNOTES:

NOTE:

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

REAR STEERING HYDRAULICS



REAR STEERING HYDRAULICS

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1	154-250	1	CONNECTOR (040-06S45)	
2.	154-715	2	HOSE (040FX90-18"-3000)	
3.	154-220	2	CONNECTOR (040-06S)	
4.	115-713	1	ABRASION SLEEVE (1.59" X 24")	
5.	154-261	2	CONNECTOR (040-08S)	
6.	105-818	2	BOLT (1/4-NC X 1-1/2")	
7.	105-095	2	WASHER (1/4")	
8.	149-136	1	HYD LOCKOUT VALVE	8 GPM, 3000PSI
9.	105-085	2	LOCKNUT (1/4-NC)	
10.	154-220	2	CONNECTOR (040-06S)	
11.	515-011	2	HOSE (040FX90-32"-3000)	
12.	154-255	2	UNION (040-040FX90)	
13.	149-186	1	CONNECTOR 040-08S SPECIAL	
14.	161-251		DIFFERENTIAL-CARRARO PLANETARY	
15.	313-548		SEAT DECK MOUNT	
16.	514-118	1	CONNECTOR (040-06S45, ORF)	

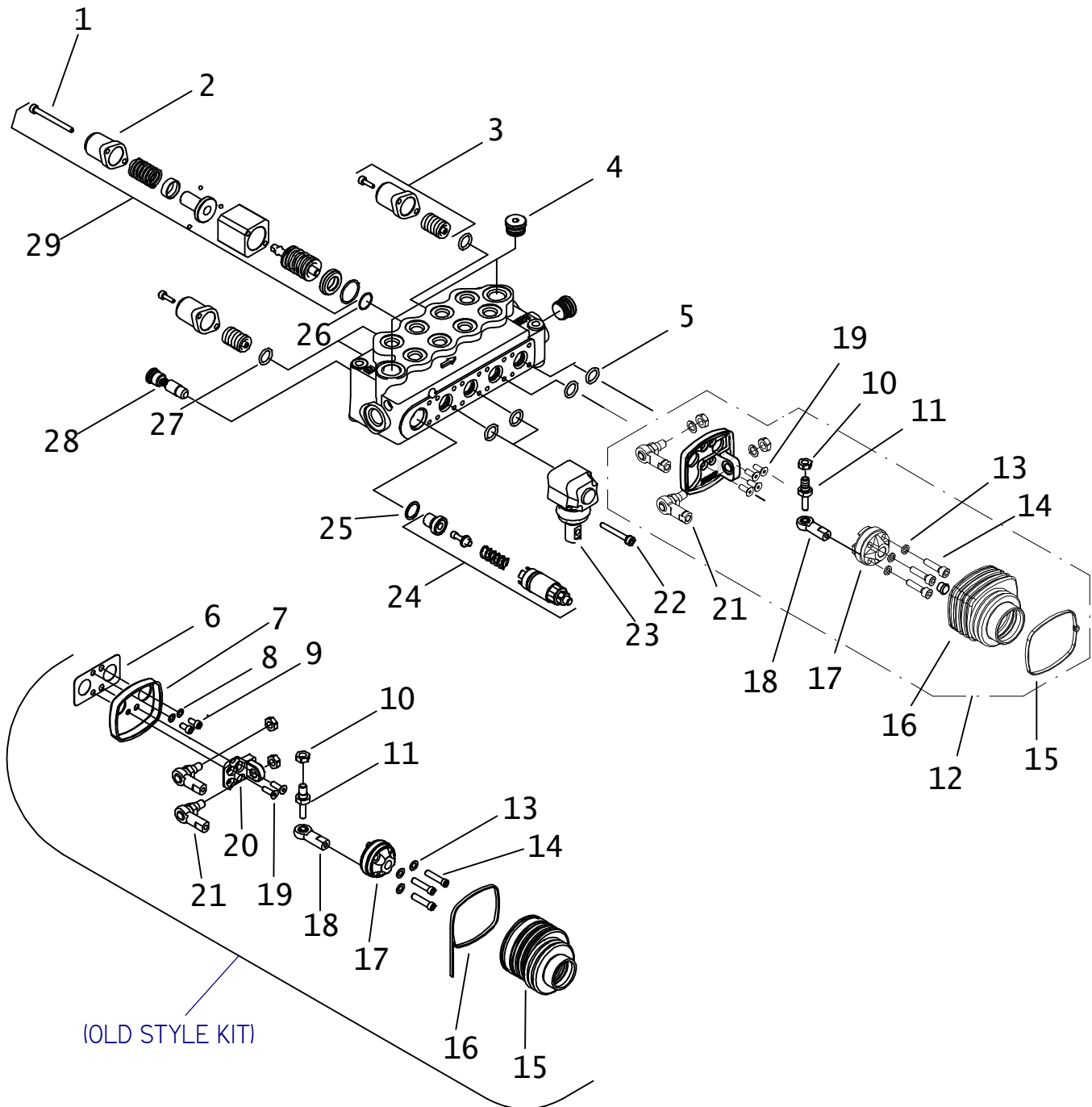
FOOTNOTES

NOTE:

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

HYDRAULIC CONTROL VALVE

3610, 3700, 5700



HYDRAULIC CONTROL VALVE

3610, 3700, 5700

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	516-035		HYDRAULIC CONTROL VALVE(4-SPOOL)	
	516-045		HYDRAULIC CONTROL VALVE(5-SPOOL)	
1.	107-431	1	SCREW (M5 X 55MM)	
2.	500-731	1	SPOOL BONNET	
3.	153-063	AR	VALVE SPRING KIT	
4.	155-074	1	PLUG (Ø8S, SOC, FM)	
5.	157-218	AR	O-RING (____ D70)	
6.	157-744	1	SEAL, JOYSTICK	OBSOLETE
7.	153-080	1	VALVE FLANGE	OBSOLETE
8.	107-432	2	WASHER, SCHNORR	
9.	107-428	2	SCREW (M5X10MM)	
10.	106-078	3	NUT (M8-1.25)	
11.	499-133	1	PIN, ROD END	
12.	499-006	1	JOYSTICK LEVER ASSEMBLY	INCLUDES REF NO'S 10, 11, 13 - 19, 21 AND NEW STYLE FULCRUM.
13.	107-534	3	A6 GALVANIZED WASHER	
14.	107-322	3	SCREW (M6-1.00x25MM, SOC, 12.9)	USE LOCTITE 243 OR EQUIVALENT.
15.	499-135	1	RUBBER BELLOW	
16.	499-137	1	CLAMP, BELLOW	
17.	499-134	1	ARTICULATION HOLDER	
18.	499-138	1	ROD END	
19.	107-427	4	SCREW (M5 X 14MM)	
20.	499-166	1	FULCRUM (JOYSTICK)	OBSOLETE
21.	499-139	2	ARTICULATED JOINT (ASSY)	
22.	107-429	AR	SCREW (M5 X 35MM)	
23.	499-143	AR	LEVER, VALVE	
24.	153-065	1	RELIEF VALVE KIT	
25.	153-066	1	16X20X1 SEAL RING	
26.	153-067	1	15.80X1.78 70 SEAL RING	
27.	157-218	AR	O-RING (____ D70)	
28.	149-664	1	CHECK VALVE	
29.	153-062	1	VALVE SPRING KIT	OBSOLETE
	499-331	1	VALVE SPRING KIT	SEE FOOTNOTE I

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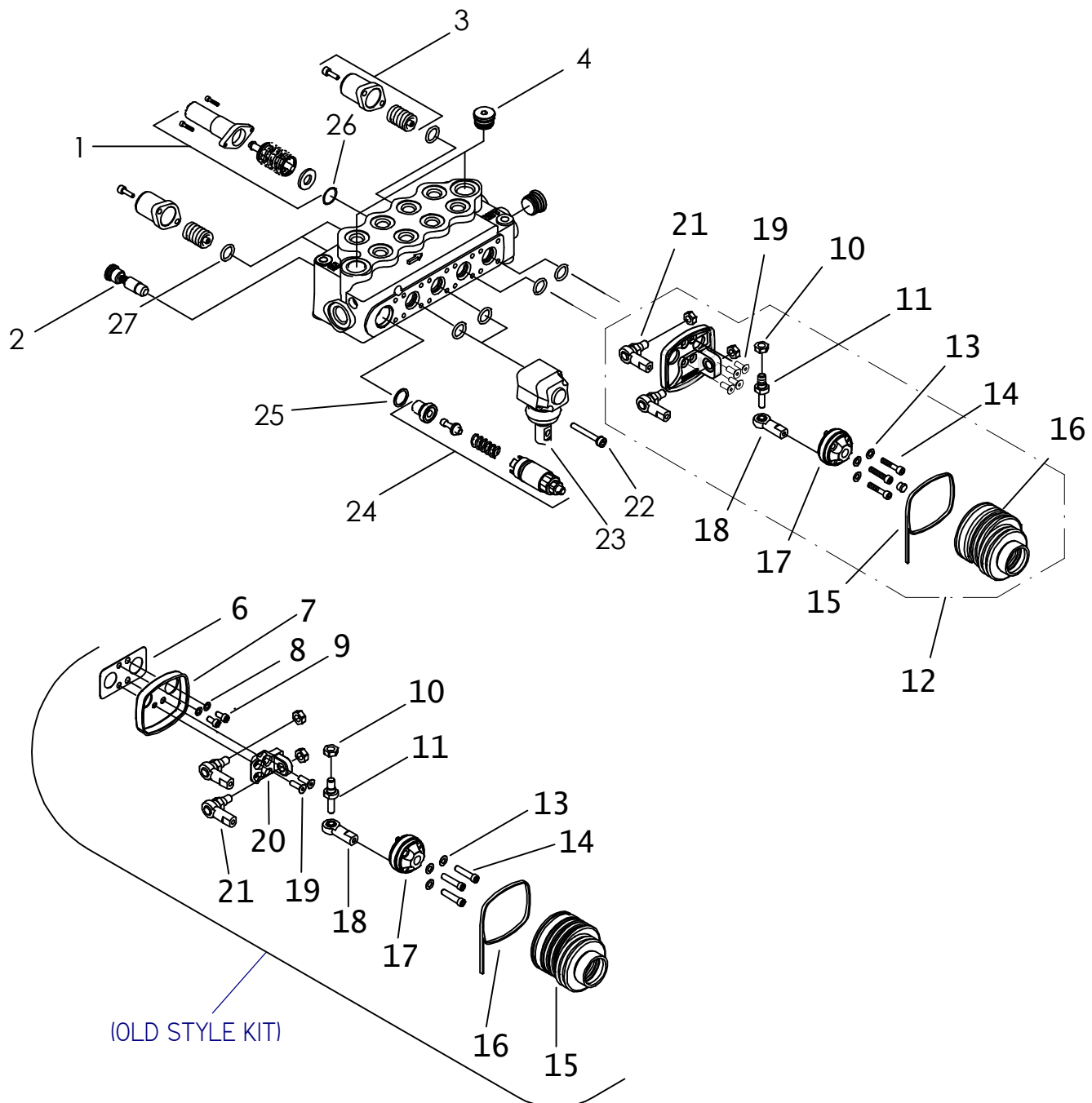
FOOTNOTES:

- I. IF REPLACING VALVE SPRING KIT 153-062 (SQUARE SPRING HOUSING) WITH 499-331 (ROUND SPRING HOUSING) YOU MUST ALSO ORDER 500-1049, SPOOL.

NOTE:

HYDRAULIC CONTROL VALVES

3610, 3700, 5700, RT36, RT40, RT45



HYDRAULIC CONTROL VALVES

3610, 3700, 5700, RT36, RT40, RT45

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	153-572		HYDRAULIC CONTROL VALVE(4-SPOOL)	
	153-573		HYDRAULIC CONTROL VALVE(5-SPOOL)	
1.	153-062	1	VALVE SPRING KIT	OBSOLETE, SEE FOOTNOTE I
	499-331	1	VALVE SPRING KIT	
2.	149-664	1	CHECK VALVE	
3.	153-063	AR	VALVE SPRING KIT	
4.	155-074	1	PLUG (Ø8S, SOC, FM)	
5.	157-218	AR	O-RING (____ D70)	
6.	157-744	1	SEAL, JOYSTICK	OBSOLETE
7.	153-080	1	VALVE FLANGE	OBSOLETE
8.	107-432	2	WASHER, SCHNORR	
9.	107-428	2	SCREW (M5X10MM)	
10.	106-078	3	NUT (M8-1.25)	
11.	499-133	1	PIN, ROD END	
12.	499-006	1	JOYSTICK LEVER ASS'Y	INCLUDES REF NO'S 10, 11, 13 - 19, 21 AND NEW STYLE FULCRUM.
13.	107-534	3	A6 GALVANIZED WASHER	
14.	107-322	3	SCREW (M6-1.00X25MM,SOC,12.9)	USE LOCTITE 243 OR EQUIVALENT.
15.	499-135	1	RUBBER BELLOW	
16.	499-137	1	CLAMP, BELLOW	
17.	499-134	1	ARTICULATION HOLDER	
18.	499-138	1	ROD END	
19.	107-427	4	SCREW (M5 X 14MM)	
20.	499-166	1	FULCRUM (JOYSTICK)	OBSOLETE
21.	499-139	2	ARTICULATED JOINT (ASSY)	
22.	107-429	AR	SCREW (M5 X 35MM)	
23.	499-143	AR	LEVER, VALVE	
24.	153-065	1	RELIEF VALVE KIT	
25.	153-066	1	16X20X1 SEAL RING	
26.	153-067	1	15.80X1.78 70 SEAL RING	
27.	157-218	AR	O-RING (____ D70)	

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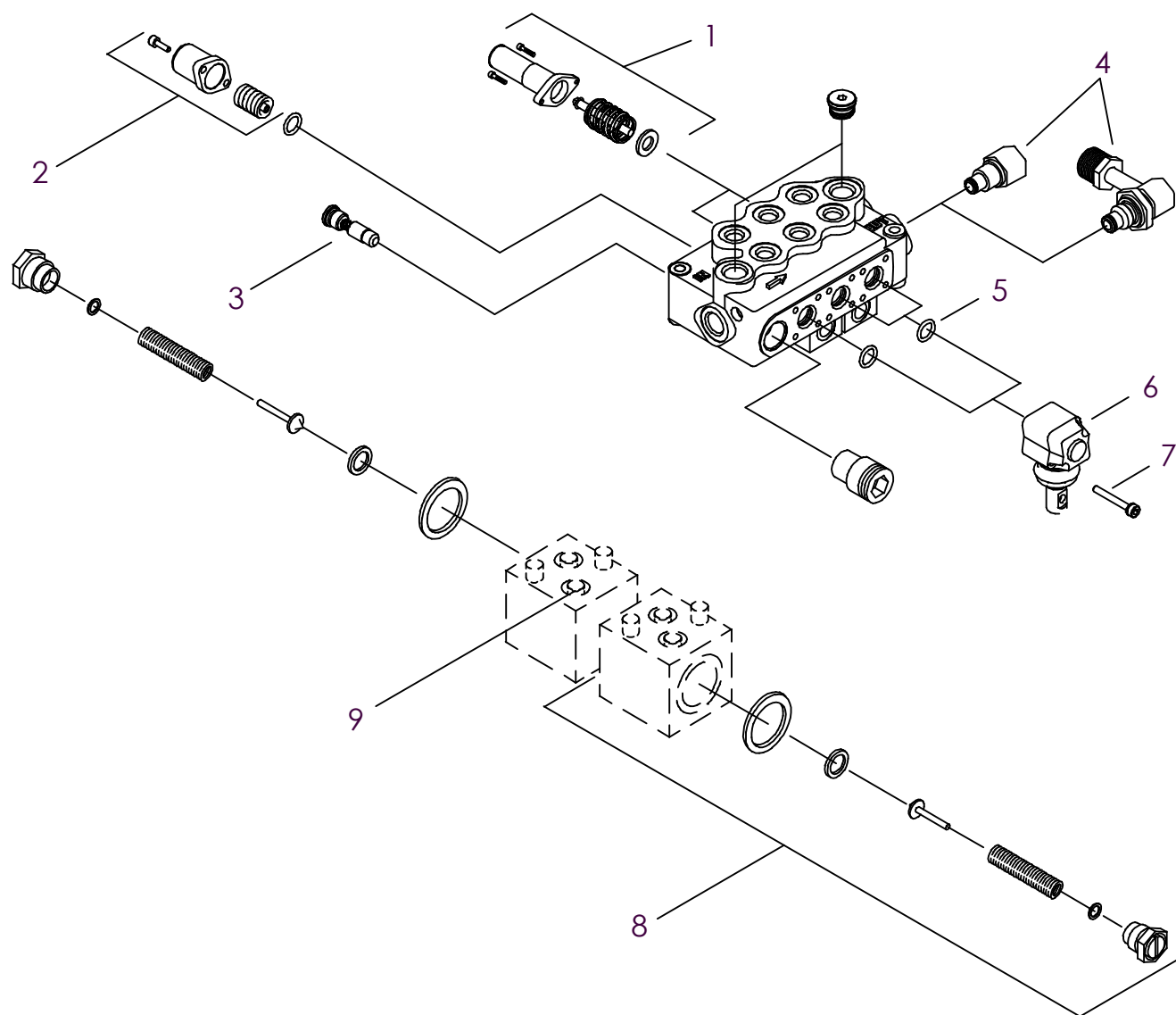
FOOTNOTES:

- I. IF REPLACING VALVE SPRING KIT 153-062 (SQUARE SPRING HOUSING) WITH 499-331 (ROUND SPRING HOUSING) YOU MUST ALSO ORDER 500-1049, SPOOL.

NOTE:

HYDRAULIC CONTROL VALVES

5700



HYDRAULIC CONTROL VALVES

5700

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	153-574		HYD CONTROL VALVE (3-SPOOL)	
1.	153-062	2	VALVE SPRING KIT	SEE FOOTNOTE 1
	499-331	2	VALVE SPRING KIT	
2.	153-063	1	VALVE SPRING KIT	
3.	149-664	1	CHECK VALVE	
4.	153-499	1	POWER BEYOND SLEEVE ELBOW	
	500-969	1	POWER BEYOND SLEEVE	
5.	157-218	4	O-RING (D70)	
6.	499-143	3	LEVER, VALVE	
7.	107-429	6	SCREW (M5 X 35MM)	
8.	149-787	2	VUP VALVE CARTRIDGE	
9.	157-037	4	O-RING (011 D90)	

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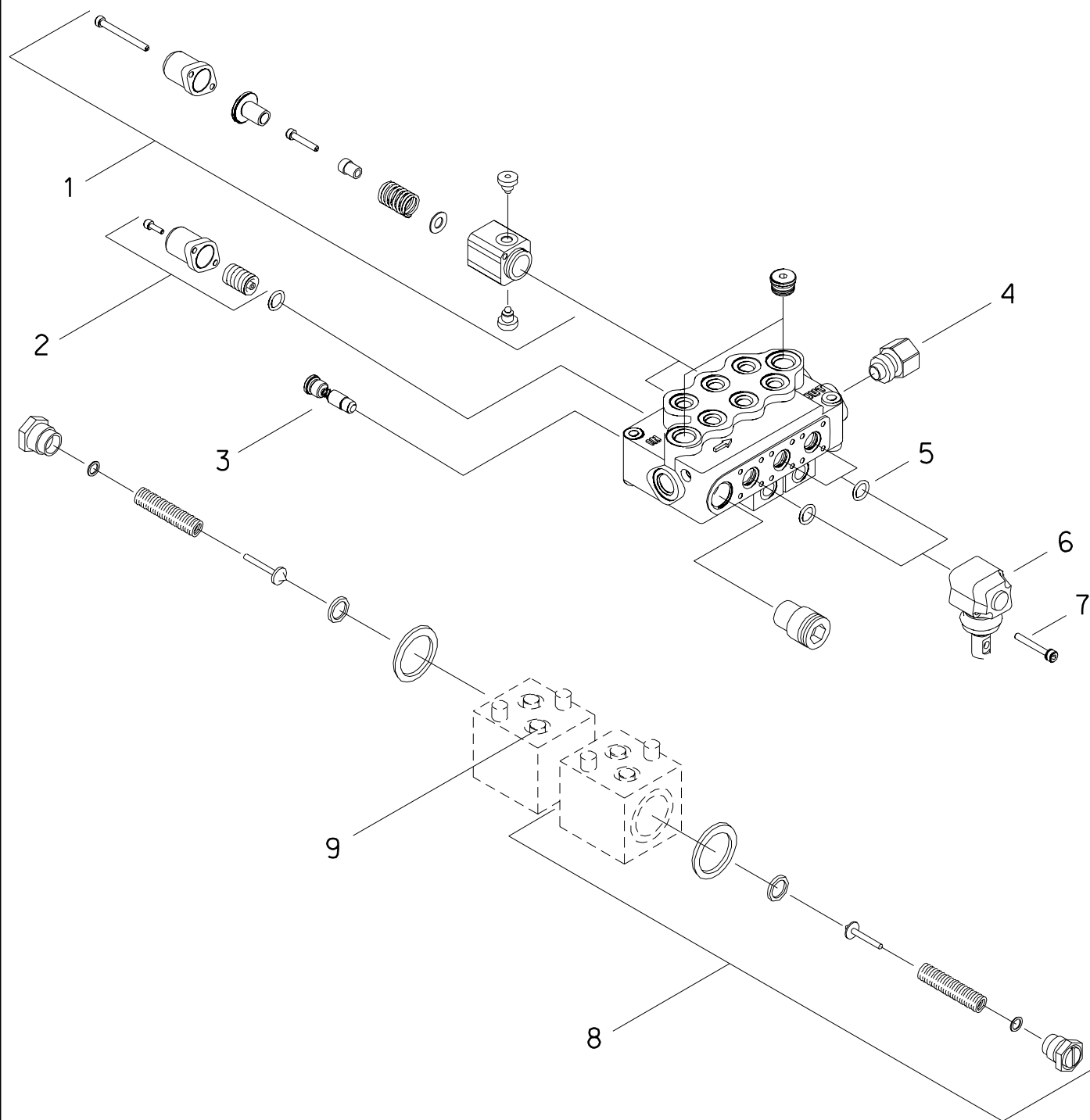
FOOTNOTES:

1. IF REPLACING VALVE SPING KIT 153-062 (SQUARE SPRING HOUSING) WITH 499-331 (ROUND SPRING HOUSING) YOU MUST ALSO ORDER 500-1049, SPOOL.

NOTE:

HYDRAULIC CONTROL VALVES

5700



HYDRAULIC CONTROL VALVES
5700

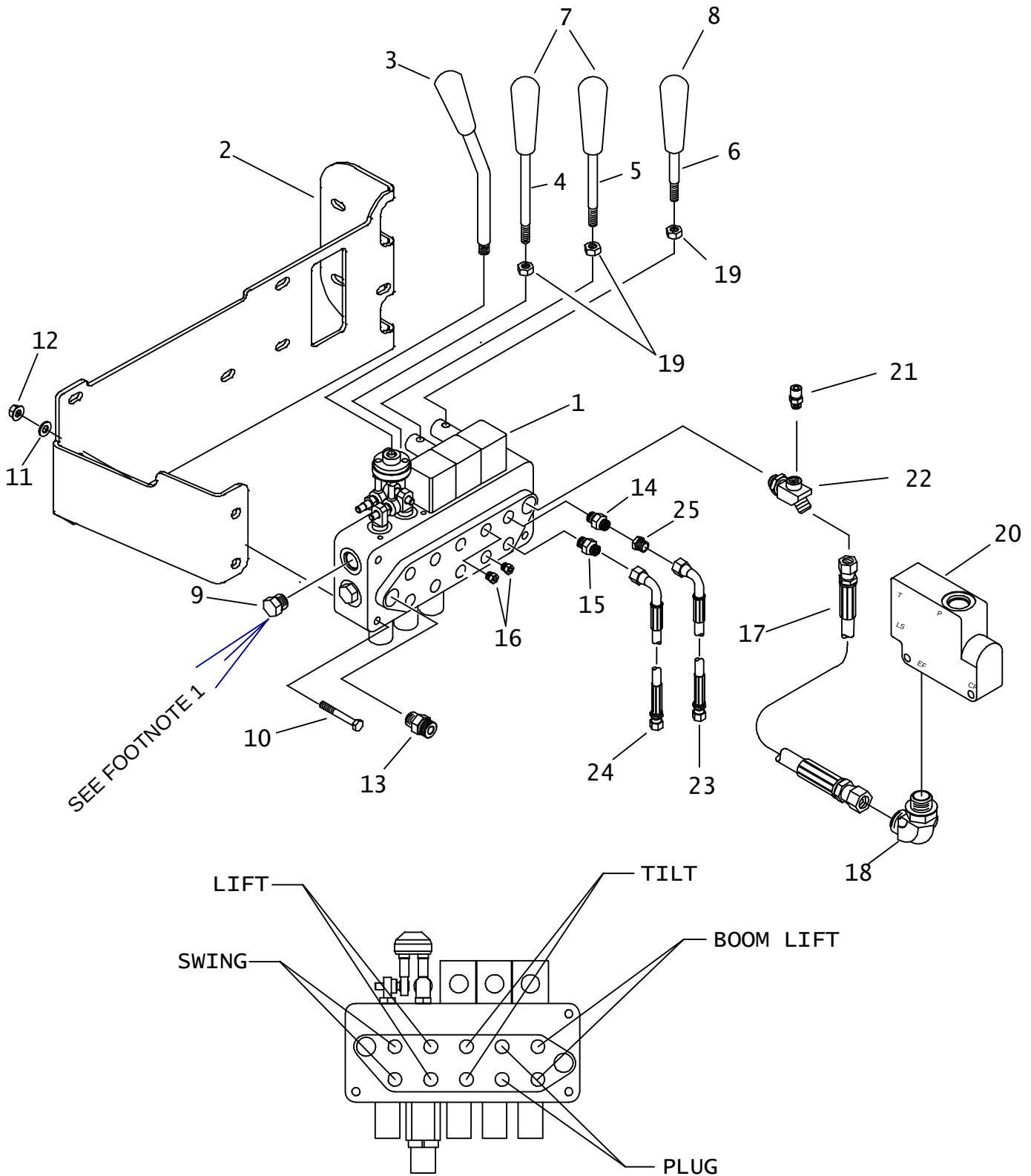
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	516-047		HYD CONTROL VALVE (3-SPOOL)	
1.	153-064	2	VALVE SPRING KIT	
2.	153-063	1	VALVE SPRING KIT	
3.	149-664	1	CHECK VALVE	
4.	500-969	1	POWER BEYOND SLEEVE	
5.	157-218	4	O-RING (___ D70)	
6.	499-143	3	LEVER, VALVE	
7.	107-429	6	SCREW (M5 X 35MM)	
8.	149-787	2	VUP VALVE CARTRIDGE	
9.	157-037	4	O-RING (011 D90)	

FOOTNOTES

CONTROL VALVE HYDRAULICS

5-SPOOL

5700 W/O REAR STEER, W/O OPTIONAL MANIFOLD



CONTROL VALVE HYDRAULICS

5-SPOOL

5700 W/O REAR STEER, W/O OPTIONAL MANIFOLD

REF	PART				
NO.	NUMBER	QTY	DESCRIPTION	REMARKS	
1.	153-573	1	HYD CONTROL VALVE (5-SPOOL)		
2.	313-422	-	CONTROL VALVE MOUNT		
3.	499-022	1	LEVER (M12 X 200mm)		
4.	365-477	1	LEVER (7.25")		
5.	365-478	1	LEVER (5.88")		
6.	365-479	1	LEVER (4.50")		
7.	110-439	2	HANDLE (3/8-NC, BLACK)		
8.	110-442	1	HANDLE (3/8-NC, GREEN)		
9.	500-736	1	PLUG (SD5 THD)	SEE FOOTNOTE 1	
10.	105-178	3	BOLT (5/16-NC X 2-1/2", GD8)		
11.	105-117	6	WASHER (5/16")		
12.	105-089	3	LOCKNUT (5/16-NC)		
13.	154-391	1	CONNECTOR (08S-100)		
14.	149-963	1	FLOW CHECK VALVE (.062 " ORF)		
15.	154-220	1	CONNECTOR (040-06S)		
16.	155-130	2	PLUG (06S)		
17.	515-049	1	HOSE (100FX-13"-3000)		
18.	154-298	1	CONNECTOR (10S-10090)		
19.	106-078	3	NUT (M8-1.25, 10.9)		
20.	158-901	-	PRIORITY VALVE		
21.	159-147	1	QDC ADAPTER (02-06S)		
22.	149-943	1	CONNECTOR (08S-10045-06SF)		
23.	154-857	2	HOSE (040FX90-19"-3000)		
24.	154-715	2	HOSE (040FX90-18"-3000)		
25.	154-373	1	REDUCER (040-060)		

NOT SHOWN:

FOOTNOTES:

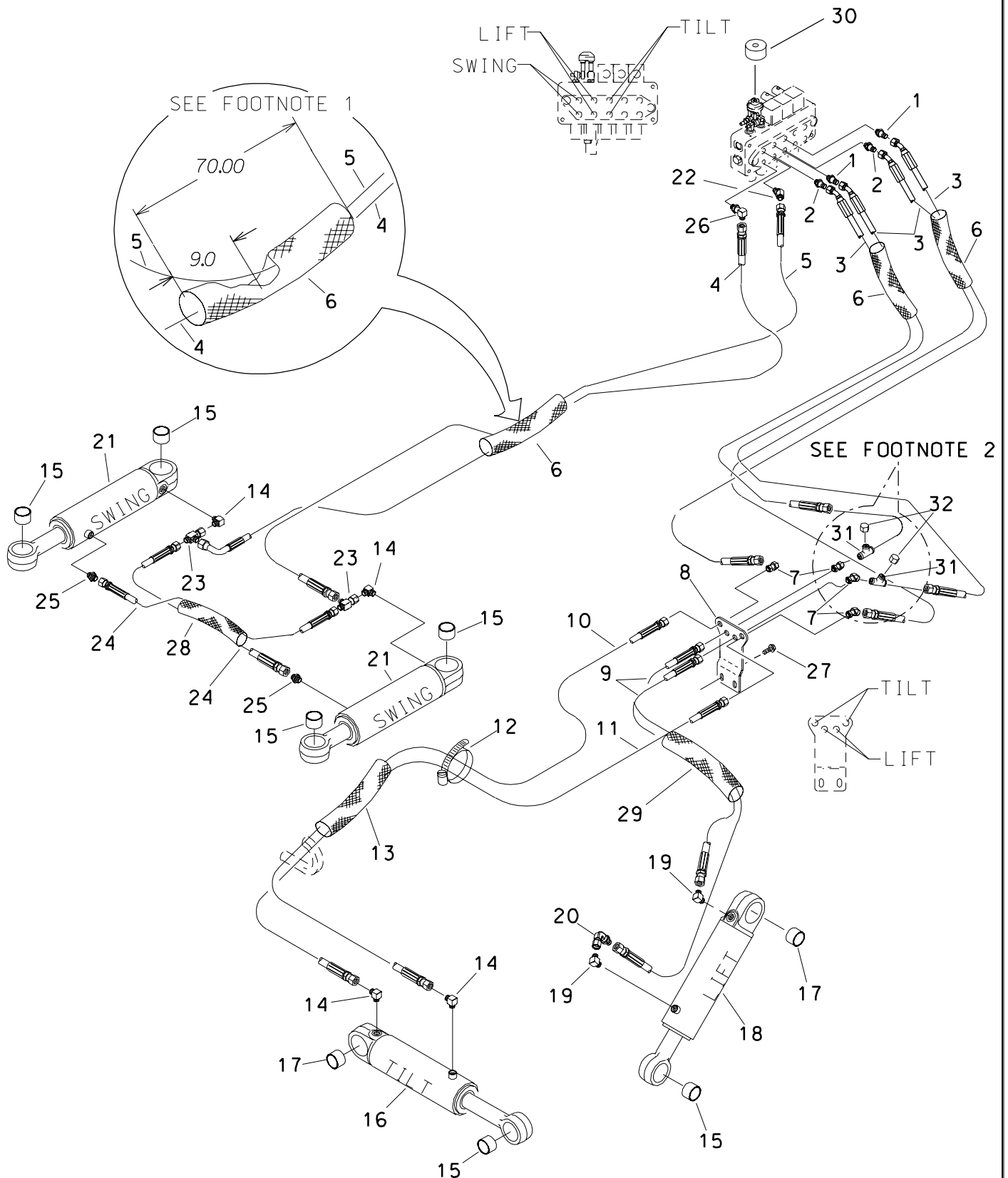
- I. IF OPTIONAL MANIFOLD 159-127 IS NOT USED, REMOVE POWER BEYOND SLEEVE/ELBOW 500/499)
AND INSTALL ITEM #9 500-756. IF OPTIONAL MANIFOLD IS USED , SEE PARTS PAGE 805-343.

NOTE:

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

BACKFILL BLADE HYDRAULICS

SWING/TILT/LIFT



BACKFILL BLADE HYDRAULICS

SWING/TILT/LIFT

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	154-220	2	CONNECTOR (040-06S)	
2.	514-018	2	CONNECTOR (040-06S, ORF)	
3.	154-703	4	HOSE (040FX45-74"-3000)	
4.	515-054	1	HOSE (040FX-74"-3000)	
5.	154-883	1	HOSE (040FX90-66"-3000)	
6.	117-761	3	ABRASION SLEEVE (1.59" X 70")	
7.	154-285	4	BK CONNECTOR (040-04045BK)	
8.	363-140	1	FRONT BULKHEAD MOUNT	
9.	154-702	2	HOSE (040FX-30"-3000)	
10.	154-669	1	HOSE (040FX-50"-3000)	
11.	154-692	1	HOSE (040FX-54"-3000)	
12.	110-169	1	WORM CLAMP (2.81" TO 3.75")	
13.	115-813	1	ABRASION SLEEVE (1.59" X 36")	
14.	154-252	4	CONNECTOR (04S-04090)	
15.	125-771	6	COMPOSITION BUSHING (1.250")	
16.	151-041	1	CYL (2.0" X 1.0" X 3.0")	
17.	125-772	2	COMPOSITION BUSHING (1.5")	
18.	151-061	1	CYL (2.5" X 1.25" X 6.0")	
19.	154-226	2	CONNECTOR (040-06S90)	
20.	154-255	1	UNION (040-040FX90)	
21.	151-060	2	CYL (2.0" X 1.25" X 5.0")	
22.	154-250	1	CONNECTOR (040-06S45)	
23.	154-265	2	UNION RUN TEE (040FX-040-040)	
24.	154-701	2	HOSE (040FX-14"-3000)	
25.	154-278	2	CONNECTOR (04S-040)	
26.	514-118	1	CONNECTOR (040-06S45, ORF)	
27.	105-827	2	FLG LK BOLT (3/8-NC X 1-1/4")	
28.	115-776	1	ABRASION SLEEVE (1.59" X 7")	
29.	115-713	1	ABRASION SLEEVE (1.59" X 24")	
30.	111-077	1	VINYL CAP (1.625")	
31.	154-265	2	UNION RUN TEE (040X-040-040)	SEE FOOTNOTE 2
32.	154-296	2	HEX CAP (040F)	SEE FOOTNOTE 2

FOOTNOTES

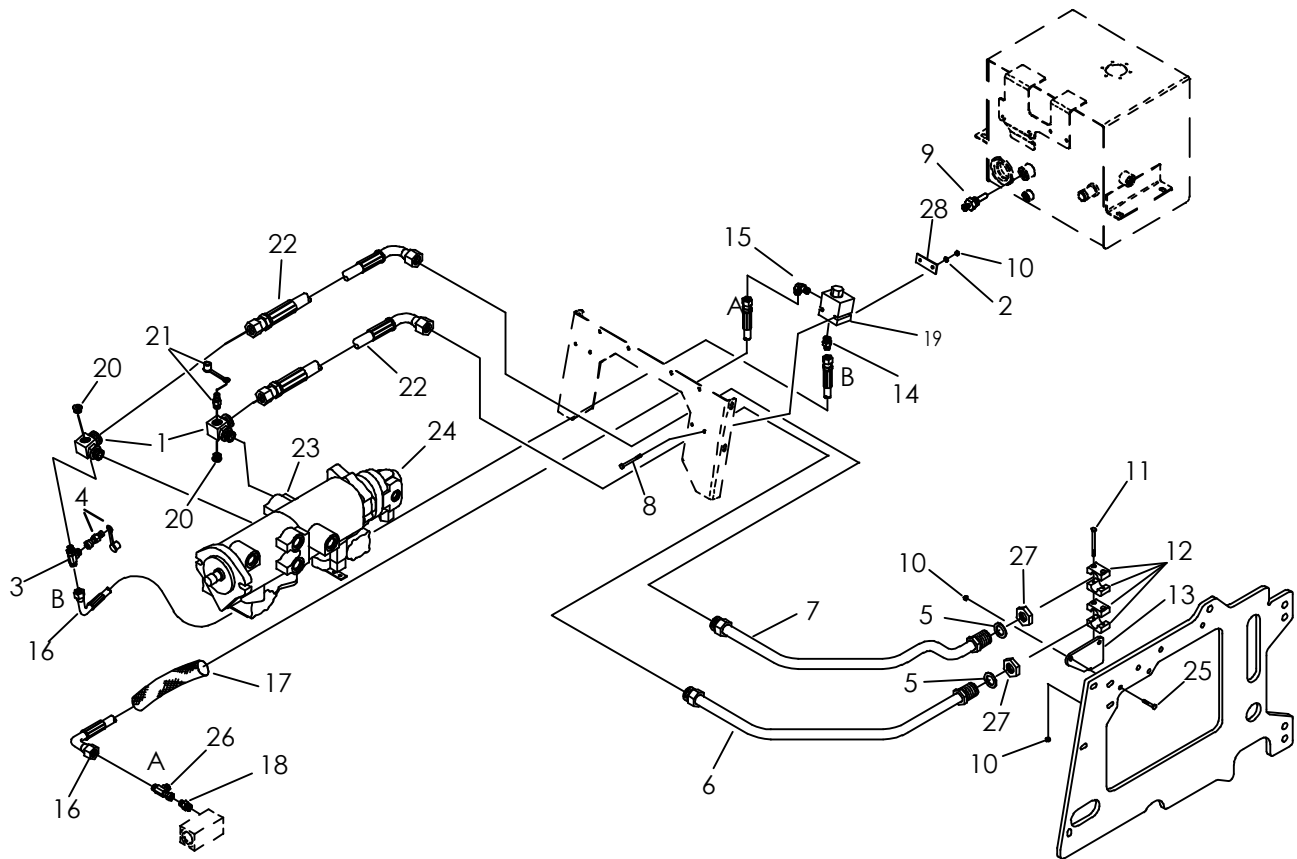
1. ABRASION SLEEVE, REF NO 6: CUT NOTCH 9" FROM CYLINDER END TO ALLOW HOSE, REF NO 5, TO EXIT SLEEVE TO ATTACH TO SWING CYLINDER.
2. ITEMS 31 AND 32 USED ONLY WITH AUXILLIARY MANIFOLD KIT (604-224)

NOTE:

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

ATTACHMENT PUMP HYDRAULICS

5700



ATTACHMENT PUMP HYDRAULICS

5700

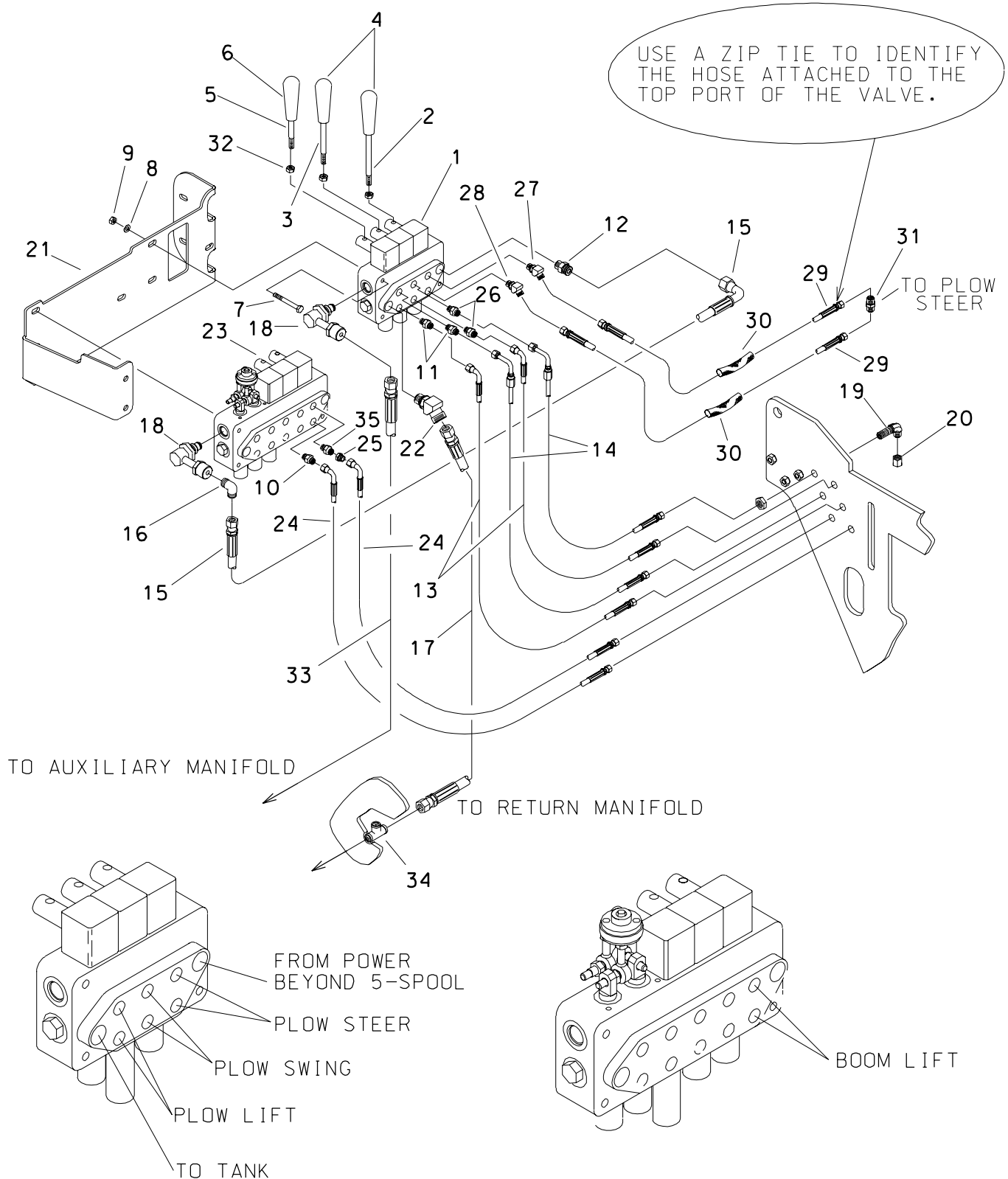
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	514-322	2	CONNECTOR (16S-16090-6SF-6SF)	
2.	106-076	2	WASHER (1/4")	
3.	154-345	1	RUN TEE (06S-060-060)	
4.	159-157	1	QDC ADAPTER (02-060F)	
	159-148	1	DUST CAP (1/8")	
5.	110-220	2	MACH BUSHING (1-1/2", 14GA)	
6.	156-120	1	HYDRAULIC LINE (16)	ATTACHMENT RETURN
7.	156-119	1	HYDRAULIC LINE (16)	ATTACHMENT PRESSURE
8.	105-224	2	BOLT (1/4-NC X 2-1/2")	
9.	215-148	-	TEMPERATURE SWITCH	ENDS WITH S/N
	214-819	1	TEMPERATURE SWITCH	BEGINS WITH S/N
10.	105-085	4	LOCKNUT (1/4-NC)	
11.	106-215	2	BOLT (1/4-NC X 4")	
12.	110-573	2	BOLT-ON CLAMP (1", PER SET)	
13.	365-466	1	MOUNT BRACKET	
14.	154-221	1	CONNECTOR (06S-060)	
15.	154-342	1	CONNECTOR (06S-06090)	
16.	515-221	2	HOSE (060FX90S-28"-3000)	
17.	117-684	2	ABRASION SLEEVE (1" X 26")	
18.	159-388	-	CHECK VALVE (06S-060)	
19.	158-939	1	FLOW REGULATOR	
20.	154-384	2	PLUG (06S)	
21.	159-147	1	QDC ADAPTER (02-06S)	
	159-148	1	DUST CAP (1/8")	
22.	154-987	2	HOSE (160FX90S-13.75"-5000)	
23.	158-025	-	HYD PUMP	TANDEM PISTON
	190-805	-	SEAL REPAIR KIT	
	499-633	-	NEUTRAL START MOUNTING KIT	SEAL KIT AVAILABLE (500-1573)
	500-639	-	NEUTRAL START SWITCH	
24.	158-459	-	HYD PUMP	AXUILIARY
25.	105-856	2	BOLT (1/4-NC X 1-1/4")	
26.	154-344	-	UN RUN TEE (060FX-060-060)	
27.	149-066	2	JAM NUT (1-5/16-NF)	
28.	328-468	1	STRAP	

NOTE:

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

ATTACHMENT HYDRAULICS

5700



ATTACHMENT HYDRAULICS

5700

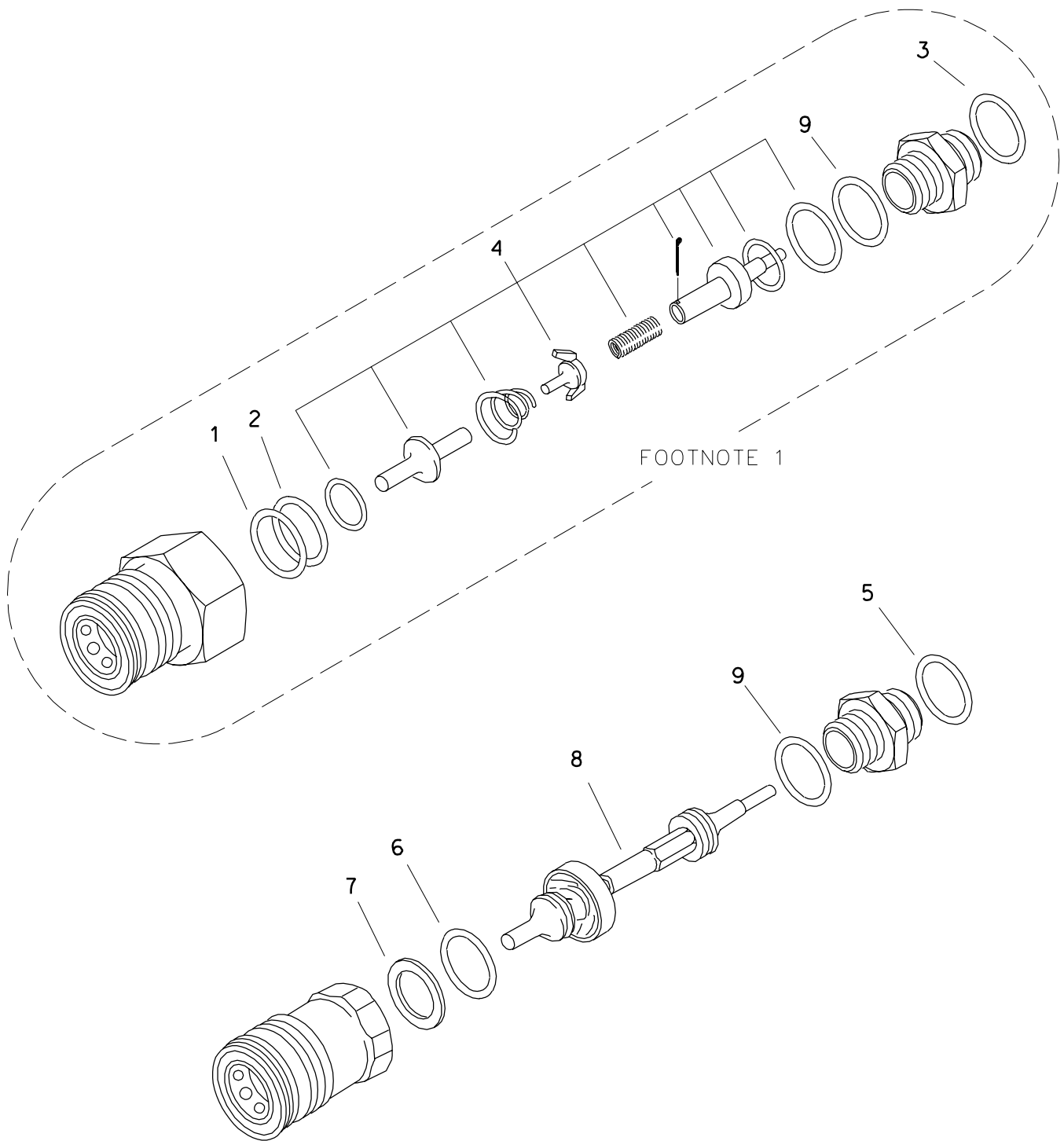
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	153-574	1	HYD CONTROL VALVE (3-SPOOL)	
2.	365-477	1	LEVER (7.25")	
3.	365-478	1	LEVER (5.88")	
4.	110-439	2	HANDLE (3/8-NC, BLACK)	
5.	365-479	1	LEVER (4.50")	
6.	110-442	1	HANDLE (3/8-NC, GREEN)	
7.	105-178	3	BOLT (5/16-NC X 2-1/2", GD8)	
8.	105-117	3	WASHER (5/16")	
9.	105-089	3	LOCKNUT (5/16-NC)	
10.	154-220	1	CONNECTOR (040-06S)	
11.	514-018	2	CONNECTOR (040-06S, .062 ORF)	
12.	154-391	1	CONNECTOR (08S-100)	
13.	515-598	1	HOSE (040FX90-12"-3000)	
14.	515-599	1	HOSE (040FX90-13"-3000)	
15.	154-970	1	HOSE (100FX90L-28"-3000)	
16.	154-315	1	CONNECTOR (100-100FX90)	
17.	515-733	1	HOSE (100FX-27"-3000)	
18.	153-499	2	POWER BEYOND SLEEVE ELBOW	
19.	154-355	6	BK CONNECTOR (040-04090BK)	
20.	154-296	6	CAP (040F)	
21.	313-422	1	VALVE MOUNT	
22.	154-313	1	CONNECTOR (08S-10045)	
23.	153-573	1	HYD CONTROL VALVE (5-SPOOL)	
24.	154-715	2	HOSE (040FX90-18"-3000)	
25.	154-373	1	REDUCER (040-060F)	
26.	154-385	2	CONNECTOR (040-06S, .046 ORF)	
27.	154-250	1	CONNECTOR (040-06S45)	
28.	514-118	1	CONNECTOR (040-06S45, .060 ORF)	
29.	154-783	2	HOSE (040FX-24"-3000)	
30.	117-672	2	ABRASION SLEEVE (1.0" X 20")	
31.	154-335	1	CONNECTOR (040-040)	
32.	106-078	3	NUT (M8-1.25, 10.9)	
33.	515-539	-	HOSE (100FX45-92"-3000)	
34.	154-488	1	TEE UN RUN (100FX-100-100)	
35.	149-963	1	FLOW CHECK VALVE (.062" ORF)	

FOOTNOTES

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

NOTE: THE PILOT LINE TO THE ATTACHMENT PRESSURE SEQUENCE VALVE STARTED AT S/N 3R1248.
THE PILOT LINE WAS REMOVED AND THE "UP" CARTRIDGE WAS ADDED TO THE 516-047 VALVE
STARTING WITH S/N 3R1598.

TRICK QUICK COUPLER



TRICK QUICK COUPLER

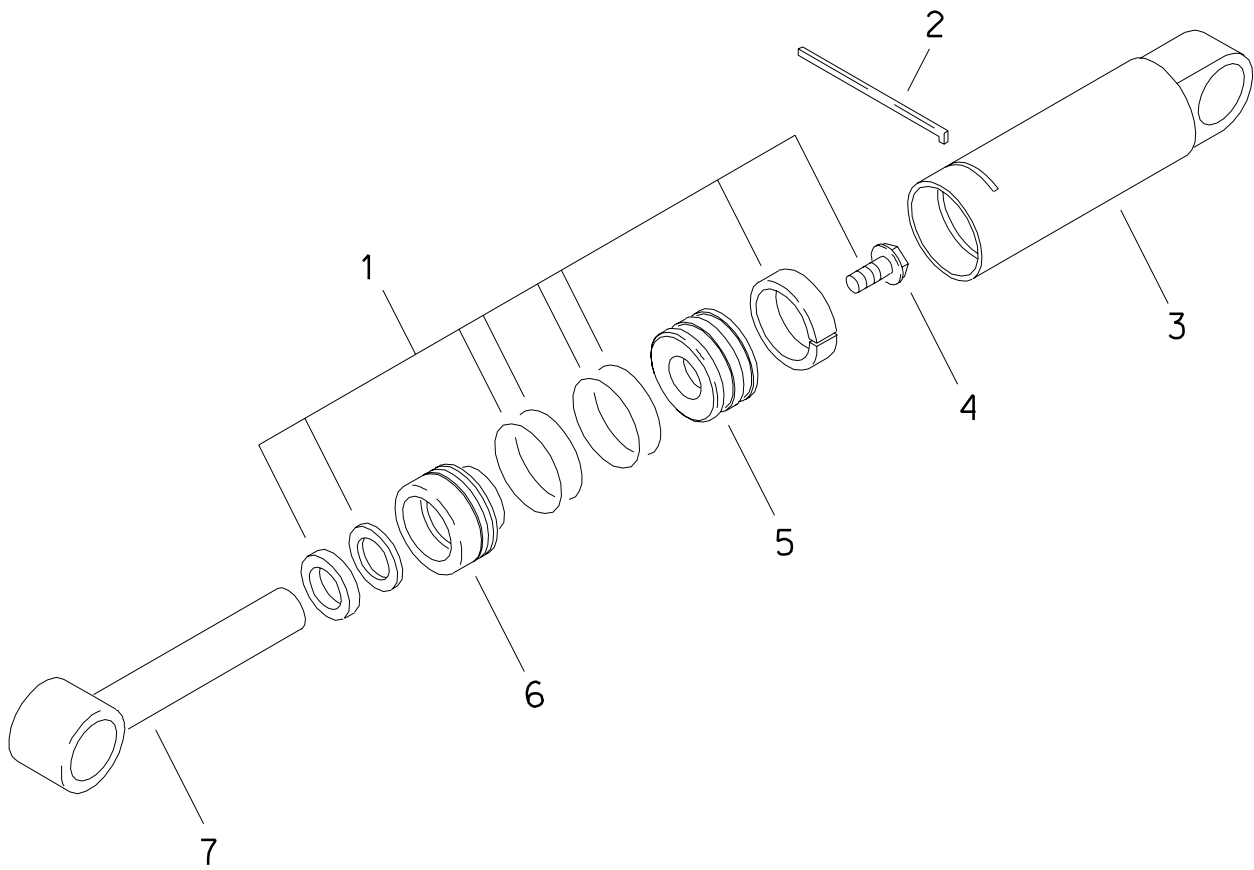
REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	155-958		TRICK QDC BODY (12-14S)	SEE FOOTNOTE 2
1.	155-728	1	BACKUP RING (213 D90)	SEE FOOTNOTE 1
2.	155-745	1	O-RING (213 D70)	SEE FOOTNOTE 1
3.	155-747	1	O-RING (914 D90)	SEE FOOTNOTE 1
4.	500-358	1	VALVE STEM REPAIR KIT	SEE FOOTNOTE 1
5.	155-747	1	O-RING (914 D90)	SEE FOOTNOTE 2
6.	155-777	1	O-RING (119 D90)	SEE FOOTNOTE 2
7.	157-016	1	BACKUP RING (119 D90)	SEE FOOTNOTE 2
8.	500-493	1	VALVE STEM REPAIR KIT	SEE FOOTNOTE 2
6.	157-233	1	O-RING (025 D70)	SEE FOOTNOTE 2

FOOTNOTES

1. THESE PARTS ARE ASSOCIATED WITH "SNAPTITE" COUPLERS, WHICH ARE NO LONGER AVAILABLE.
2. THESE PARTS ARE ASSOCIATED WITH "FASTER" COUPLERS, WHICH ARE USED IN PRESENT PRODUCTION AND ALL REPLACEMENTS.

HYDRAULIC CYLINDER – NON-STANDARD

2.0" ID BARREL X 1.00" OD ROD X 3.0" STROKE



HYDRAULIC CYLINDER – NON-STANDARD

2.0" ID BARREL X 1.00" OD ROD X 3.0" STROKE

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	151-041		CYL (2" X 1" X 3")	INCL REF NO.'S 1 - 7
1.	190-165	1	SEAL REPAIR KIT (2.0" X 1.0")	
2.	150-778	1	LOCK RING (2")	
3.	150-282	1	CYLINDER BARREL (2.0")	
4.	106-096	1	FLG BOLT (1/2-NC X 1-3/4", GD8)	SEE FOOTNOTE 1
5.	150-775	1	CYLINDER PISTON (2.0" X 1.0")	
6.	150-772	1	CYLINDER HEAD (2.0" X 1.0")	
7.	150-424	1	CYLINDER ROD (1.0" X 6.9")	

NOT SHOWN:

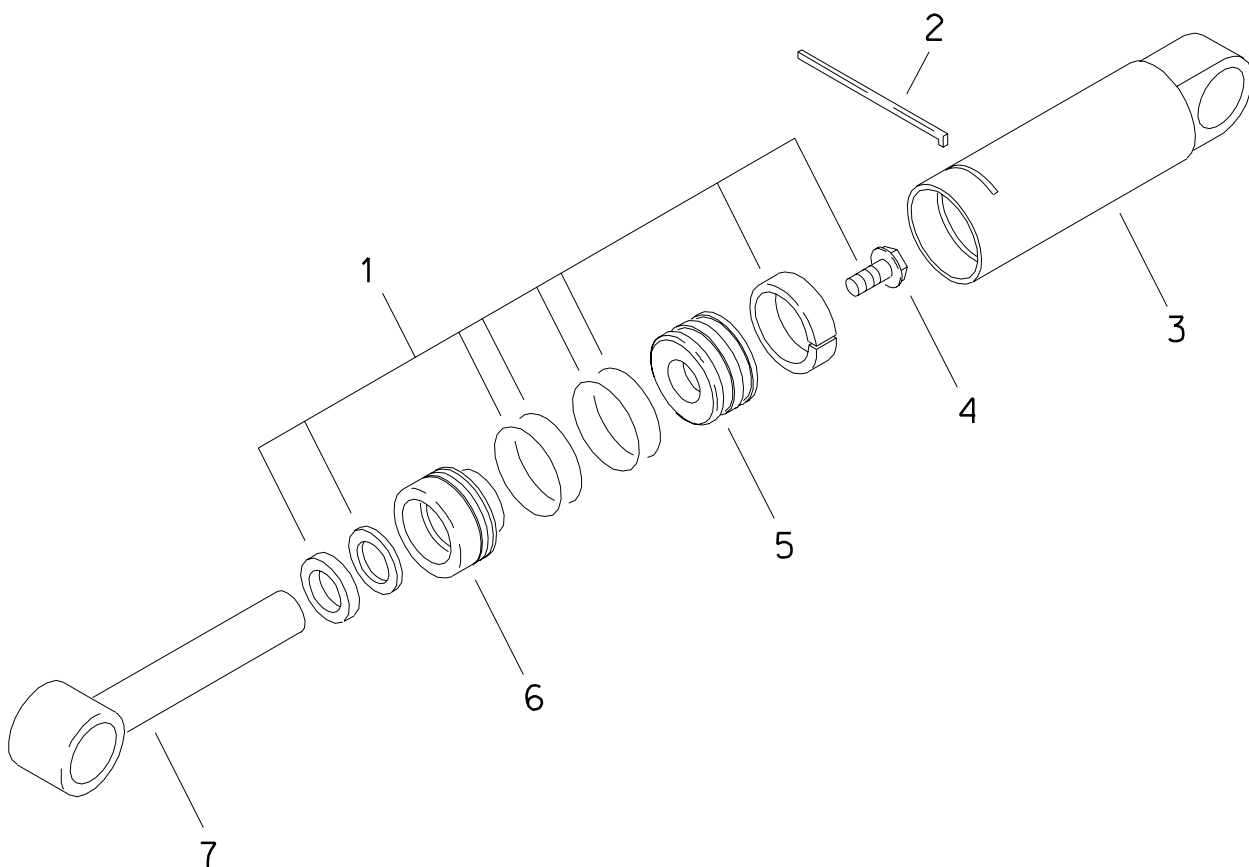
	259-100		U-SEAL INSTALLER (1" - 1.499")	
	259-235		ROD WIPER INSTALLER (1")	
	259-239		WIPER/SEAL INSTALLER (2")	
	259-241		PISTON INSTALLER (2")	
	259-188		CYL HEAD SPANNER - TWO PIN	

FOOTNOTES

1. CLEAN & DRY THREADS. APPLY RED LOCTITE (RC 271 OR RC 272). TORQUE TO 90-100 FT LBS (120-135 NM)

HYDRAULIC CYLINDER

2.0" ID BARREL X 1.00" OD ROD X 5.0" STROKE



HYDRAULIC CYLINDER

2.0" ID BARREL X 1.00" OD ROD X 5.0" STROKE

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	151-039		CYL (2" X 1" X 5")	INCL REF NO.'S 1 THRU 7
1.	190-165	1	SEAL REPAIR KIT (2.0" X 1.0")	
2.	150-778	1	LOCK RING (2")	
3.	150-291	1	CYLINDER BARREL (2.0")	
4.	106-096	1	FLG BOLT (1/2-NC X 1-3/4", GD8)	SEE FOOTNOTE 1
5.	150-775	1	CYLINDER PISTON (2.0" X 1.0")	
6.	150-772	1	CYLINDER HEAD (2.0" X 1.0")	
7.	150-422	1	CYLINDER ROD (1.0")	

NOT SHOWN:

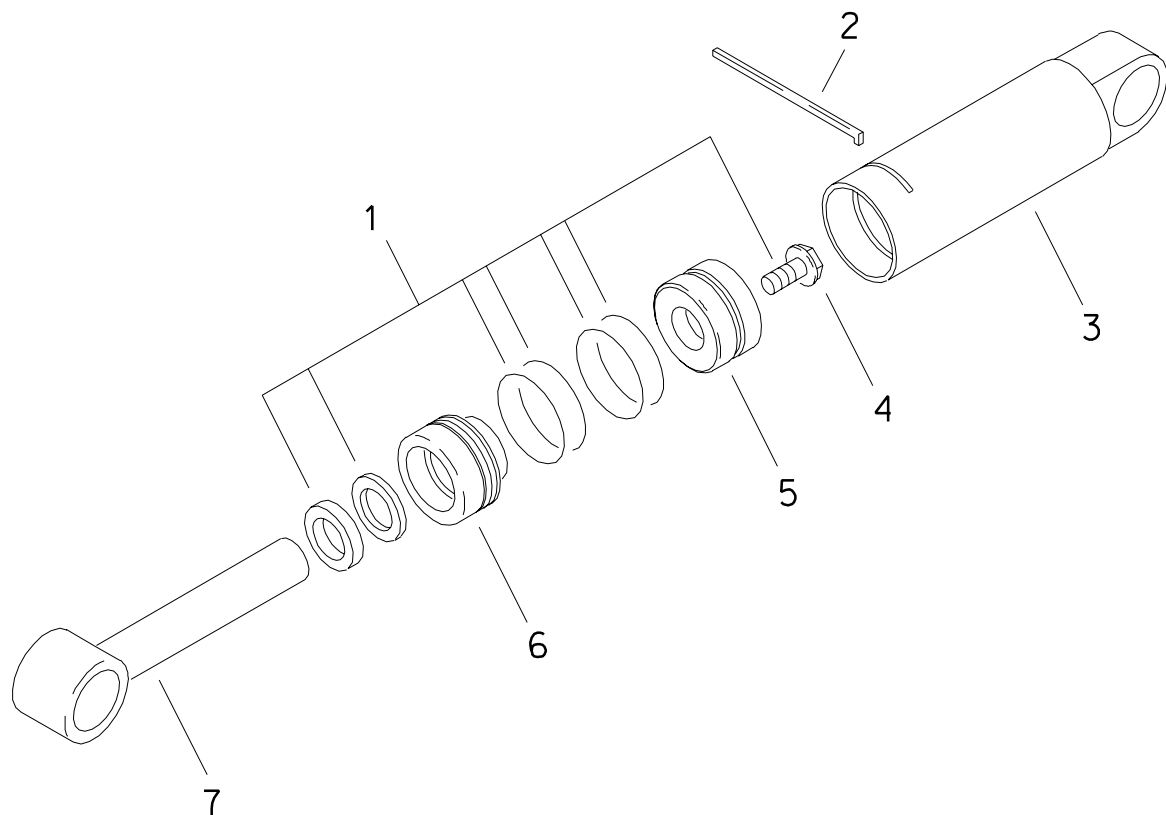
	259-100		U-SEAL INSTALLER (1" X 1.499")	
	259-235		ROD WIPER INSTALLER (1")	
	259-239		WIPER/SEAL INSTALLER (2")	
	259-241		PISTON INSTALLER (2")	
	259-188		CYL HEAD SPANNER - TWO PIN	

FOOTNOTES

1. CLEAN & DRY THREADS. APPLY RED LOCTITE (RC 271 OR RC 272). TORQUE TO 90-100 FT LBS (120-135 NM)

HYDRAULIC CYLINDER

2.0" ID BARREL X 1.25" OD ROD X 5.0" STROKE



HYDRAULIC CYLINDER

2.0" ID BARREL X 1.25" OD ROD X 5.0 STROKE

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	151-060		HYDRAULIC CYLINDER	INCL REF NO.'S 1 THRU 7
1.	190-169	1	SEAL REPAIR KIT	
2.	150-778	1	LOCK RING (2")	
3.	150-291	1	CYLINDER BARREL	
4.	106-097	1	FLG BOLT (5/8-NC X 1-3/4", GD 8)	SEE FOOTNOTE 1
5.	150-771	1	PISTON	INCLUDES MOLDED-ON WEAR RING
6.	150-770	1	CYLINDER HEAD	
7.	150-423	1	CYLINDER ROD	

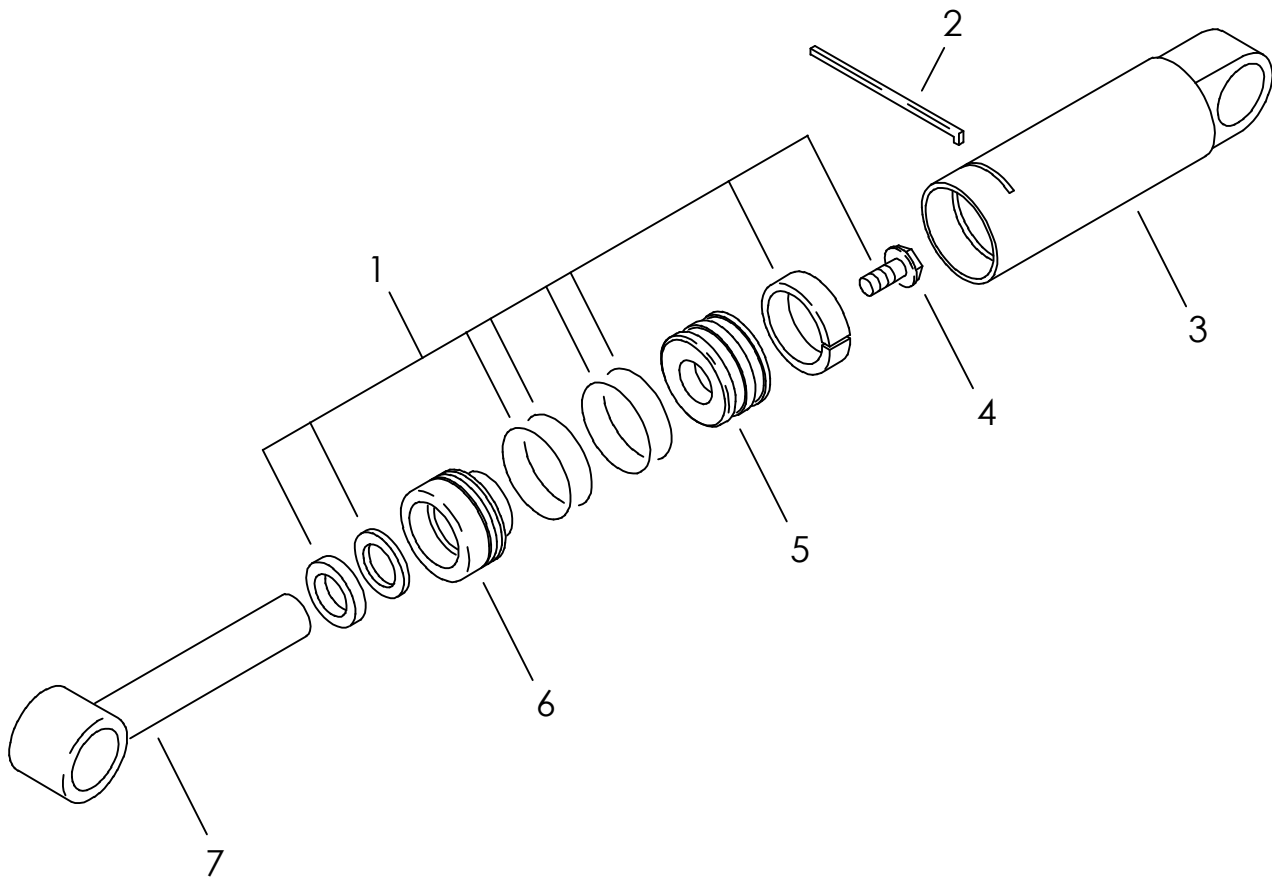
NOT SHOWN:

	259-100		U-SEAL INSTALLER (1" - 1.4")	
	259-236		WIPER INSTALLER (1.25")	
	259-239		WIPER/SEAL INSTALLER (2")	
	259-241		PISTON INSTALLER (2")	
	259-188		CYL HEAD SPANNER - TWO PIN	

FOOTNOTES

1. LUBRICATE WITH WD-40 OR EQUAL. TORQUE TO 180-200 FT-LBS (245-270 N.M)

HYDRAULIC CYLINDER (2.5" X 1.250" X 6.000")



HYDRAULIC CYLINDER

(2.5" X 1.250" X 6.000")

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	151-061		CYL (2.5" X 1.25" X 6")	INCLUDES REF NO'S 1-7
1.	190-166	1	SEAL REPAIR KIT (2.5" X 1.25")	
2.	150-779	1	LOCK RING (2.5")	
3.	152-010	1	CYLINDER BARREL	
4.	106-097	1	FLG BOLT (5/8-NC X 1-3/4", GD8)	SEE FOOTNOTE 1
5.	150-776	1	CYLINDER PISTON (2.5" X 1.25")	
6.	150-773	1	CYLINDER HEAD (2.5" X 1.25")	
7.	150-438	1	CYLINDER ROD	

NOT SHOWN:

259-100	U-SEAL INSTALLER (1"-1.499")
259-236	WIPER INSTALLER (1.25")
259-242	PISTON SEAL INSTALLER (2.5")
259-243	PISTON INSTALLER (2.5")

FOOTNOTES:

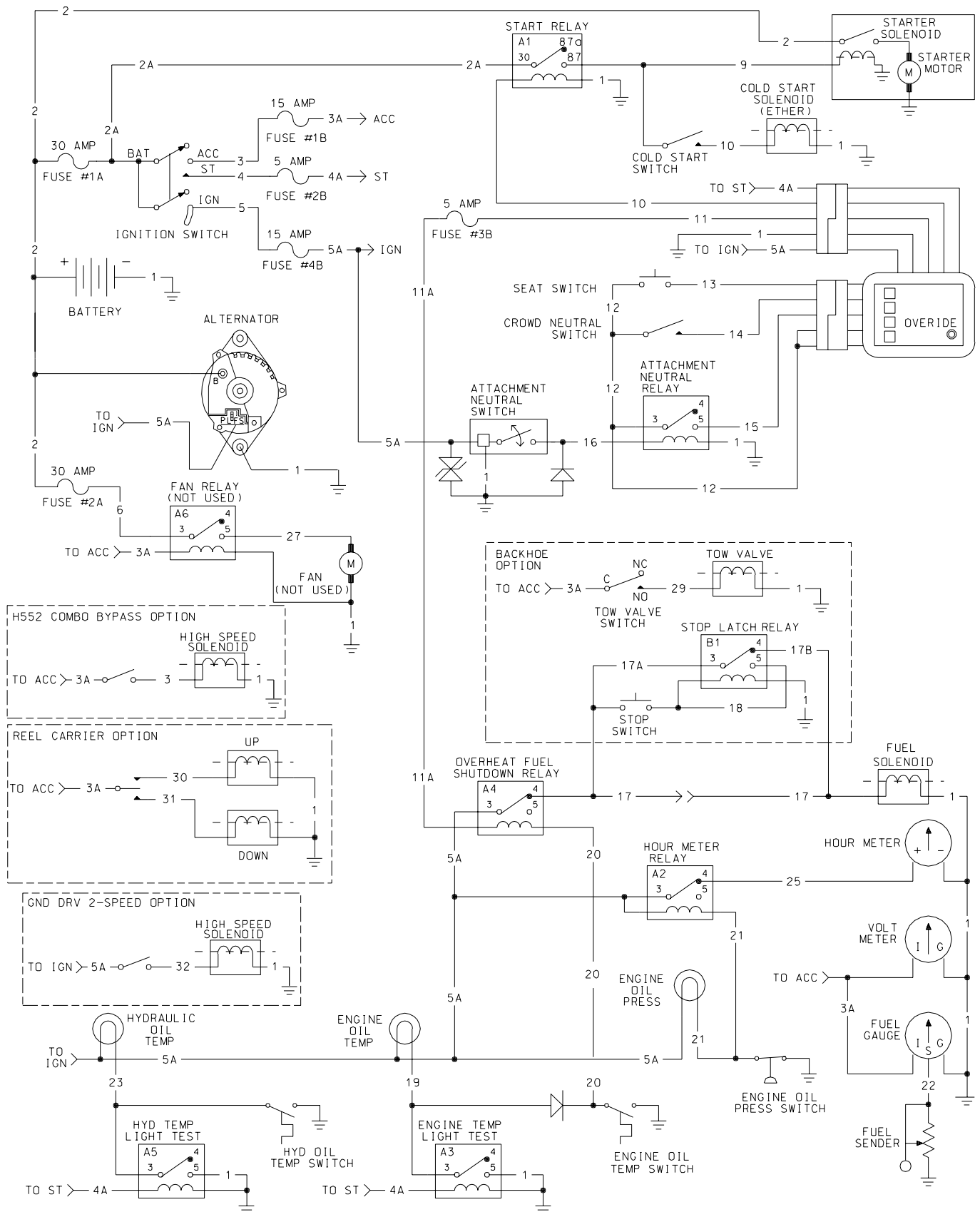
1. APPLY LOCTITE 271 OR 277, TORQUE TO 180-200 FT-LBS (245-270 NM)

NOTE:

ELECTRICAL

ELECTRICAL SCHEMATIC

5700



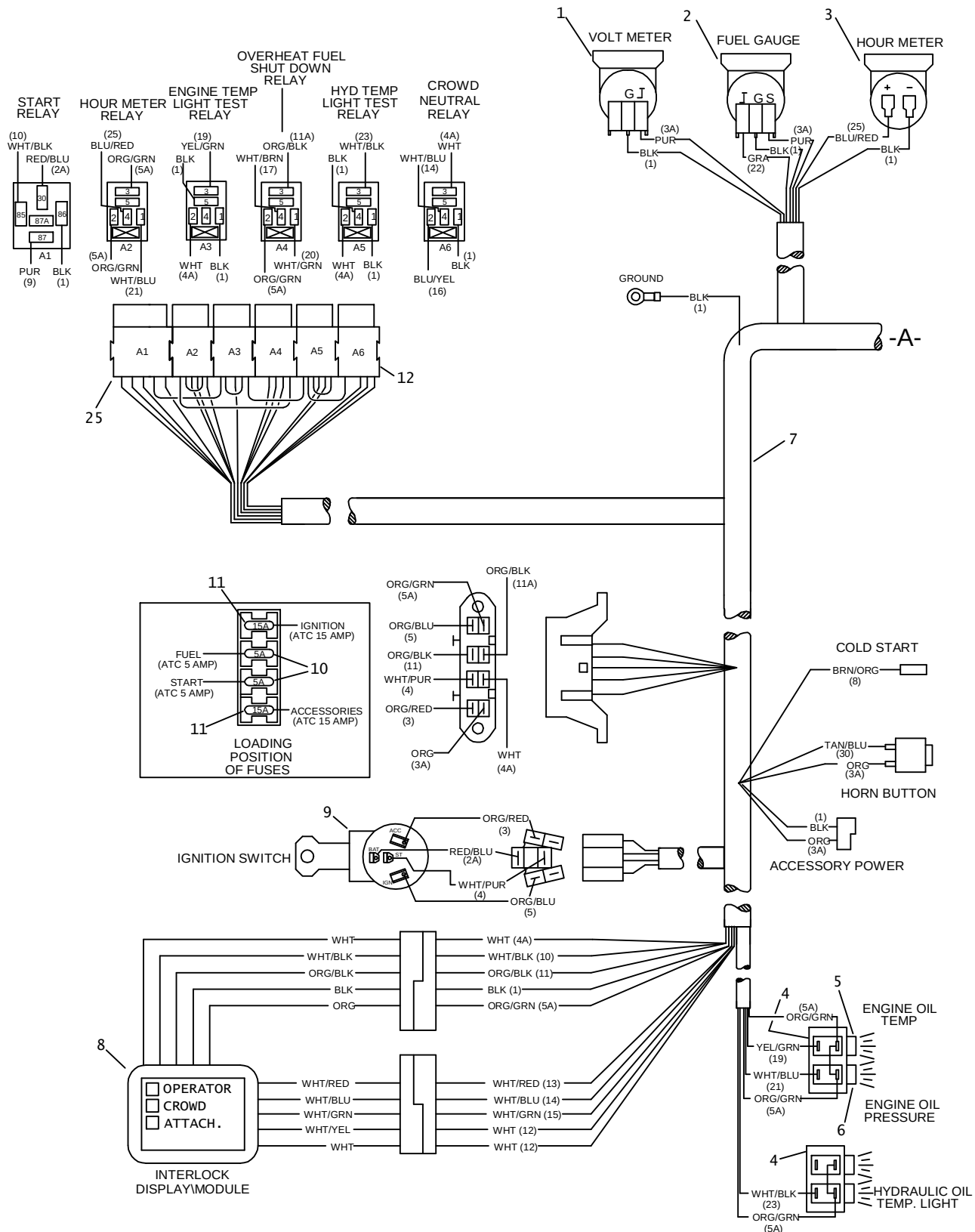
ELECTRICAL SCHEMATIC

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CKT NO.	WIRE COLOR	FUNCTION	REMARKS
1.	BLK	SYSTEM GROUND	
2.	RED	BATTERY CIRCUIT	
2A.	RED	FUSED BATTERY CIRCUIT	
3.	ORG/RED	ACCESSORY CIRCUIT	
3A.	ORG	FUSED ACCESSORY CIRCUIT	
4.	WHT/PUR	START CIRCUIT	
4A.	WHT	FUSED START CIRCUIT	
5.	ORG/BLU	IGNITION CIRCUIT	
5A.	ORG/GRN	FUSED IGNITION CIRCUIT	
6.	RED/WHT	FUSED AUXILIARY CIRCUIT	
7.			
8.			
9.	PUR	START RELAY (A1) TO START SOLENOID	
10.	WHT/BLK	START INTERLOCK TO START RELAY (A1)	
11.	ORG/BLK	START INTERLOCK TO FUEL FUSE	
11A.	ORG/BLK	FUEL FUSE TO OVERHEAT FUEL SHUTDOWN RELAY (A4)	
12.	WHT	5 VOLT START INTERLOCK POWER TO NEUTRAL SWITCHES	
13.	WHT/RED	SEAT SWITCH TO START INTERLOCK	
14.	WHT/BLU	CROWD SWITCH TO START INTERLOCK	
15.	WHT/GRN	TRANS SWITCH TO START INTERLOCK	
16.	BLU/YEL	GROUND DRIVE NEUTRAL SWITCH TO NEUTRAL RELAY	
17.	WHT/BRN	OVERHEAT FUEL SHUTDOWN RELAY (A4) TO FUEL SOLENOID	
17A.	ORG/GRN	TRACTOR HARNESS TO BACKHOE STOP SWITCH & STOP LATCH RELAY (B2)	
17B.	ORG/BLK	STOP LATCH RELAY (B1) TO TRACTOR HARNESS	
18.	ORG	STOP SWITCH TO STOP LATCH RELAY (B1)	
19.	YEL/GRN	ENGINE OIL TEMP LIGHT TO ENGINE TEMP LIGHT TEST RELAY (A3) AND DIODE	
20.	WHT/GRN	DIODE & OVERHEAT FUEL RELAY (A4) TO ENGINE OIL TEMP SWITCH	
21.	WHT/BLU	ENGINE OIL PRESSURE LIGHT TO PRESSURE SWITCH AND HOURMETER RELAY (A2)	
22.	BRN	FUEL GAUGE TO FUEL SENDER	
23.	WHT/BLK	HYDRAULIC TEMP LIGHT TO TEMP SWITCH AND LIGHT TEST RELAY (B4)	
24.	GRA/YEL	PARK BRAKE SWITCH TO PARK BRAKE ALARM	
25.	BLU/RED	HOUR METER RELAY (A2) TO HOUR METER	
26.	YEL/BLK	CROWD SWITCH TO PARK BRAKE SWITCH	
27.	YEL	FAN RELAY TO FAN (NOT USED)	
28.			
29.	ORG/BLU	TOW VALVE SWITCH TO TOW VALVE	
30.	GRN/BLU	REEL CARRIER SWITCH TO UP SOLENOID	
31.	GRA/BLU	REEL CARRIER SWITCH TO DOWN SOLENOID	
32.	ORG/WHT	GROUND DRIVE TWO-SPEED SWITCH TO SOLENOID	

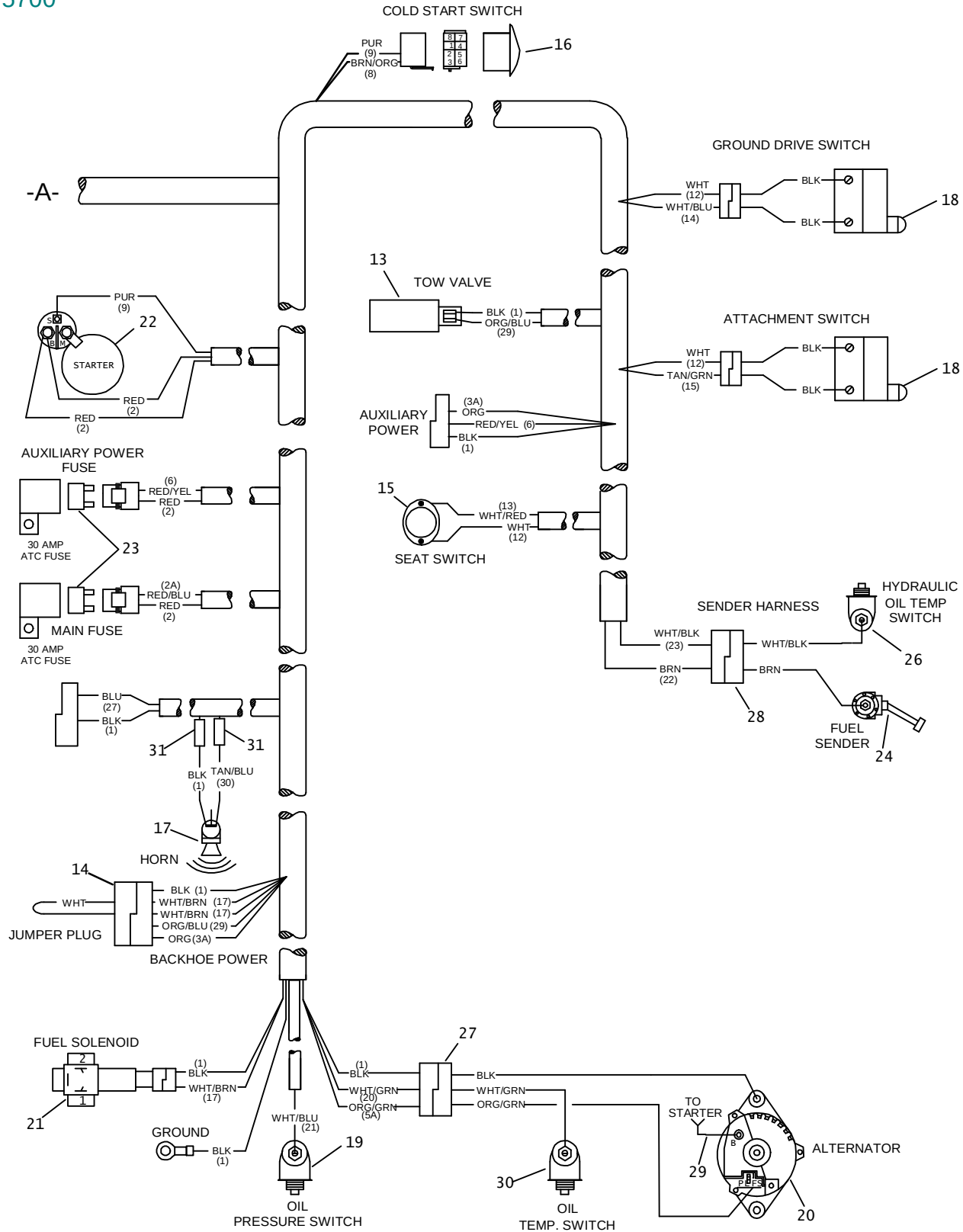
ELECTRICAL DIAGRAM

5700



ELECTRICAL DIAGRAM

5700



ELECTRICAL DIAGRAM

5700

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
1.	215-129	1	VOLT METER	
	215-415		NITE LIGHT KIT (12V DC)	
2.	215-133	1	FUEL GAUGE	
	215-415		NITE LIGHT KIT (12V DC)	
3.	215-2594	1	HOUR METER	
4.	217-020	2	PILOT LIGHT	
5.	217-021	1	INSERT (RED) ENGINE OIL PRESS	
6.	217-051	1	ENGINE TEMPERATURE	
7.	214-324	1	ENGINE HARNESS	
8.	217-245	1	INTERLOCK MODULE	
	217-845	1	INTERLOCK MODULE	OBSOLETE
9.	214-852	1	IGNITION SWITCH	BEGINS WITH S/N
	214-961		KEY, PAIR	
	214-962		SWITCH MOUNTING NUT	
10.	217-809	2	FUSE (5 AMP ATC)	
11.	217-811	2	FUSE (15 AMP ATC)	
12.	217-710	5	MICRO RELAY (SPDT)	
13.	215-058	1	TOW VALVE SOLENOID	
14.	214-132	1	JUMPER PLUG	
15.	217-750	1	SEAT SWITCH	
16.	217-789	1	COLD START SWITCH	
17.	192-006	1	HIGH FREQUENCY HORN	
	306-609	1	HORN	OBSOLETE
18.	500-639	2	MICRO SWITCH	
19.	217-721	1	OIL PRESSURE SWITCH	
20.	215-159	1	ALTERNATOR (12V, 61 AMP)	
21.	217-722	1	FUEL SHUT-OFF SOLENOID	
22.	195-897	1	STARTER MOTOR	
23.	217-813	2	FUSE (30 AMP ATC)	
24.	217-517	1	FUEL SENDER	
25.	217-826	1	MINI RELAY	
26.	215-148	-	TEMPERATURE SWITCH	ENDS WITH S/N
	214-819	1	TEMPERATURE SWITCH	BEGINS WITH S/N
27.	214-456	1	ALTERNATOR ADAPTER HARNESS	
28.	215-988	1	SENDER HARNESS	
29.	214-457	1	ALTERNATOR TO STARTER WIRE	
30.	217-518	1	ENGINE OIL TEMPERATURE SWITCH	
31.	215-478	2	BUTT CONNECTOR (14-16) GA.	

NOT SHOWN:

215-258 1 BATTERY

FOOTNOTES:

NOTE:

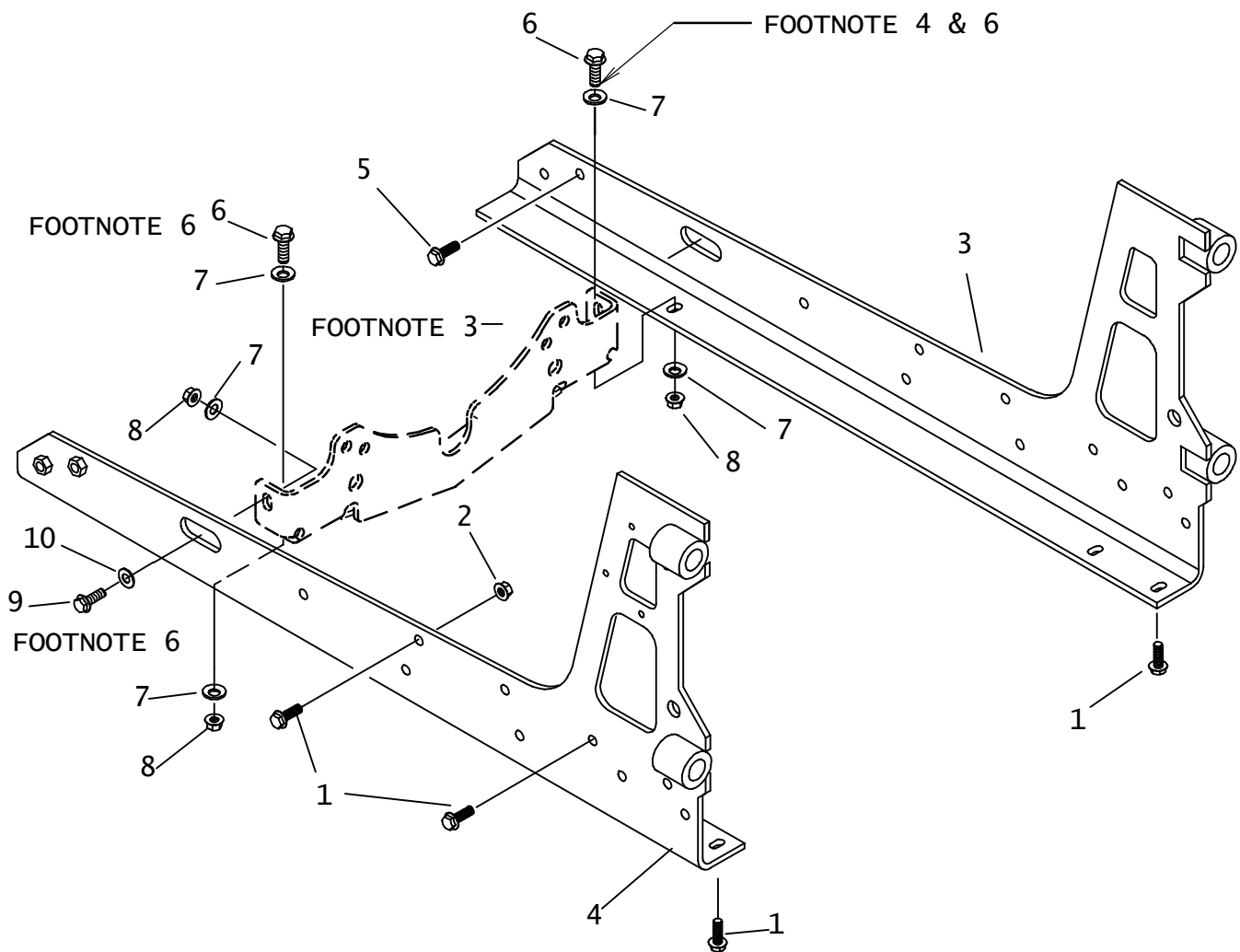
USE THIS DIAGRAM WITH ENGINE P/N 195-445
 USE THIS DIAGRAM WITH PARTS PAGE 805-576 "ELECTRICAL SCHEMATIC"

NOTES:

ACCESSORIES

FRAME CONVERSION PARTS

3500, 3610, 4500, AND 5700



FRAME CONVERSION PARTS

3500, 3610, 4500, AND 5700

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	190-463		BACKHOE MOUNT CONVERSION KIT	FOR 4500 - INCL REF NO.'S 1 THRU 4
	190-423		BACKHOE MOUNT CONVERSION KIT	FOR 3500 - INCL REF NO.'S 1 THRU 6
	190-504		BACKHOE MOUNT CONVERSION KIT	FOR 3500 - INCL REF NO.'S 1 THRU 6
	190-518		BACKHOE MOUNT CONVERSION KIT	FOR 3610 - INCL REF NO.'S 1 THRU 6
	190-463		WATER TANK CONVERSION KIT	FOR 4500 - INCL REF NO.'S 1 THRU 4
	190-569		WATER TANK CONVERSION KIT	FOR 3500 & 3610 - INCL REF NO.'S 1 THRU 6
	190-1378		BOSS MOUNT KIT	FOR 5700 - INCL REF NO.'S 1 THRU 4
1.	105-831	AR	FLG LK BOLT (1/2-NC X 1-1/2")	SEE FOOTNOTE 1
	105-830	AR	FLG LK BOLT (1/2-NC X 1-1/4")	SEE FOOTNOTE 1
2.	105-833	AR	FLG LOCKNUT (1/2-NC)	SEE FOOTNOTE 2
3.	321-945	1	LEFT BRACKET MOUNT	3500, 3610
	321-953	1	LEFT BRACKET MOUNT	4500
	328-388	1	NS" LEFT BOSS MOUNT	5700
4.	321-946	1	RIGHT BRACKET MOUNT	3500, 3610
	321-954	1	RIGHT BRACKET MOUNT	4500
	328-389	1	NS" RIGHT BOSS MOUNT	5700
5.	105-830	4	FLG LK BOLT (1/2-NC X 1-1/4")	3500, 3610
6.	105-871	2	BOLT (1/2-NC X 2")	SEE FOOTNOTE 4 & 6
7.	106-116	6	BELLVILLE WASHER (1/2")	SEE FOOTNOTE 5 & 6
8.	106-198	4	LK NUT (1/2-NC)	SEE FOOTNOTE 5 & 6
9.	106-096	2	FLG BOLT (1/2-NC X 1-3/4", GR 8)	SEE FOOTNOTE 5 & 6
10.	106-743	2	WASHER (1/2", HARDENED)	SEE FOOTNOTE 5 & 6

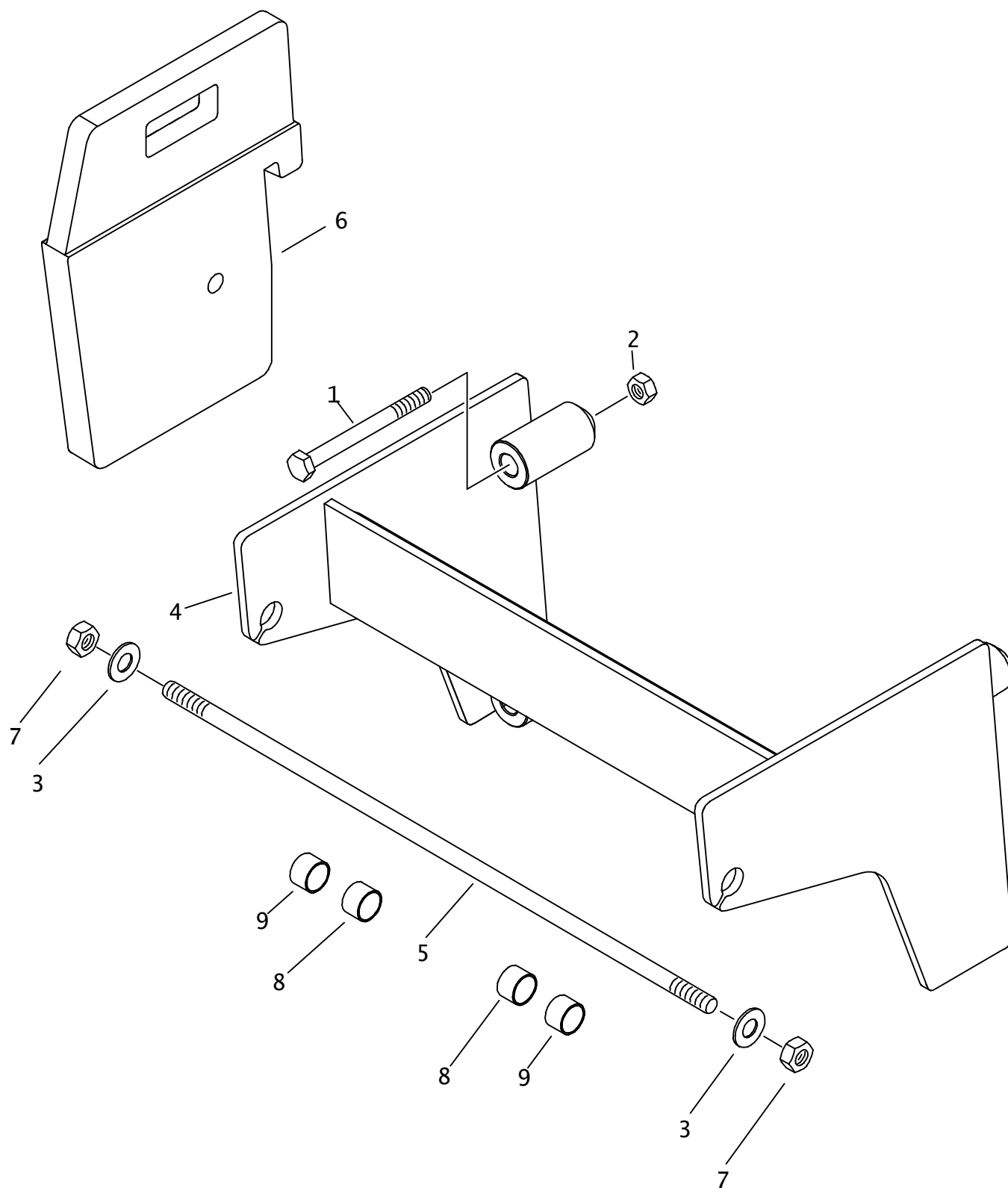
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FOOTNOTES:

1. USE QUANTITY OF 22 (REF #1, 105-831) FOR 3500, 3610
USE QUANTITY OF 26 (REF #1, 105-831) FOR 4500
USE QUANTITY OF 30 (REF #1, 105-830) FOR 5700
2. USE QUANTITY OF 10 (REF #2, 105-833) FOR 3500, 3610
USE QUANTITY OF 22 (REF #2, 105-833) FOR 4500
USE QUANTITY OF 30 (REF #2, 105-833) FOR 5700
3. 3610 ENGINE MOUNT SHOWN; 3500 SIMILAR
4. REMOVE 2 EXISTING MOUNTING BOLTS & REPACE WITH ITEM REF. #6 WHEN INSTALLING RT. & LEFT MOUNT
--3500 & 3610
5. EXISTING ENGINE MOUNTING HARDWARE (GR 8); SEE TRACTOR PARTS BOOK AT PAGE ENTITLED "ENGINE MOUNTS"
FOR MORE INFORMATION. 3610 (803-899) & 3500 (802-188).
6. LOCTITE (RED 271) ENGINE MOUNTING BOLTS, TORQUE 110-120 FOOT POUNDS.

NOTE:

FRONT COUNTERWIEGHT



FRONT COUNTERWEIGHT

REF NO.	PART NUMBER	QTY	DESCRIPTION	REMARKS
	100-290		COUNTERWEIGHT MOUNT KIT	INCL. REF. NO.'S 1 THRU 5 & 7 THRU 9.
1.	105-979	4	BOLT (7/8-NC X 9")	
2.	105-985	4	FLG NUT (7/8-NC)	
3.	105-422	2	WASHER (3/4")	
4.	328-344	1	COUNTERWEIGHT FRAME	
5.	107-058	1	MOUNT BOLT (3/4-NC X 33")	
6.	375-080	15	WEIGHT CASTING (100 LB)	
7.	105-351	2	NUT (3/4-N/C)	
8.	181-398	2	SPACER	
9.	178-189	2	SPACER	

NOT SHOWN:

FOOTNOTES:

NOTE:

NOTES:

[illegible]

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

5700

Related Publications

Component	Ass'y	P/N
Model:		
5700 Parts Manual		053-476
5700 Operators Manual		054-519
5700 Repair Guide (Service Manual)		N/A
5700 Supplementary Maint Guide - Trencher		050-633
5700 Special Tools Guide		052-901
Engine:		
Deutz Parts Manual - F4M1011F	194-032	053-053
Deutz Operators Manual - F4M1011F		054-047
Deutz Service (Shop) Manual - F4M1011F		055-049
Differential:		
Dana Parts Manual - 60 Hd/Ls Front	161-304	N/A
Dana Parts Manual - 60 Hd/Ls Rear	161-293	N/A
Dana Operators Manual - 60 Hd/Ls Front/Rear		N/A
Dana Service (Shop) Manual - 60 Hd/Ls Front/Rear		055-022

Filters

Engine:		
Air Filter Parts Ass'y		195-816
Element (primary)		195-817
Element (secondary)		195-818
Air Stack Cap (2.500")		195-692
Oil Filter Element (3/4-npt, 3-9/16" spin-on) - Deutz		195-849
Fuel Filter Element (spin-on) - Deutz		195-807
Hydraulic:		
Oil Filter Element (1-3/8-UNF, spin-on)		159-074
Oil Strainer (24S-20SF)		110-336

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


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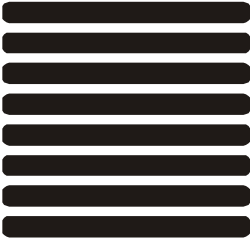
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