



ILLUSTRATED PARTS MANUAL

415 4-WHEEL DRIVE TRACTOR

Models:

75-60010 STEINER 415 23HP KOHLER GAS



WARNING: If incorrectly used this machine can cause severe injury. Those who use and maintain this machine should be trained in its proper use, warned of its dangers and should read the entire manual before attempting to set up, operate, adjust or service the machine.



4131678 REV D

CALIFORNIA
Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.



WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Californie Proposition 65
Avertissement

Les échappements des moteurs diesel et certains de leurs composés sont reconnus par l'Etat de Californie pour être cancérigènes, provoquer des défauts congénitaux et d'autres dangers en matière de reproduction.



AVERTISSEMENT

L'émission du moteur de ce matériel contient des produits chimiques que l'Etat de Californie considère être cancérigènes, provoquer des défauts congénitaux et d'autres dangers en matière de reproduction.

California Advertencia
de la Proposicion 65

El estado de California hace saber que los gases de escape de los motores diesel y algunos de sus componentes producen cáncer, defectos de nacimiento y otros daños en el proceso de reproducción humana.



ADVERTENCIA

El estado de California hace saber que los gases de escape de este producto contienen productos químicos que producen cáncer, defectos de nacimiento y otros daños en el proceso de reproducción humana.

IMPORTANT MESSAGE

Thank you for purchasing this Steiner product. You have purchased a world class product, one of the best designed and built anywhere.

This machine comes with an Owner / Operator's Manual and an Illustrated Parts Manual. The useful life and good service you receive from this machine depends to a large extent on how well you read and understand these manuals. Treat your machine properly, lubricate and adjust it as instructed, and it will give you many years of reliable service.

Your safe use of this Steiner product is one of our prime design objectives. Many safety features are built in, but we also rely on your good sense and care to achieve accident-free operation. For best protection, study the manuals thoroughly. Learn the proper operation of all controls. Observe all safety precautions. Follow all instructions and warnings completely. Do not remove or defeat any safety features. Make sure those who operate this machine are as well informed and careful in its use as you are.

See a Steiner dealer for any service or parts needed. Steiner service ensures that you continue to receive the best results possible from Steiner's products. You can trust Steiner replacement parts because they are manufactured with the same high precision and quality as the original parts.

Steiner designs and builds its equipment to serve many years in a safe and productive manner. For longest life, use this machine only as directed in the manuals, keep it in good repair and follow safety warnings and instructions. You'll always be glad you did.

Jacobsen, a Textron Company
One Bob Cat Lane
Johnson Creek, WI 53038-0469

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NOTICE !!!

Unauthorized modifications may present **extreme** safety hazards to operators and bystanders and could also result in product damage.

Jacobsen, a Textron Company strongly warns against, rejects and disclaims any modifications, add-on accessories or product alterations that are not designed, developed, tested and approved by Jacobsen's Engineering Department. Any Jacobsen product that is altered, modified or changed in any manner not specifically authorized after original manufacture—including the addition of “after-market” accessories or component parts not specifically approved by Jacobsen—will result in the Jacobsen Warranty being voided.

Any and all liability for personal injury and/or property damage caused by any unauthorized modifications, add-on accessories or products not approved by Jacobsen will be considered the responsibility of the individual(s) or company designing and/or making such changes. Jacobsen will vigorously pursue full indemnification and costs from any party responsible for such unauthorized post-manufacture modifications and/or accessories should personal injury and/or property damage result.



This symbol means:
ATTENTION!
BECOME ALERT!

Your safety and the safety of others is involved.

Signal word definitions:

The signal words below are used to identify levels of hazard seriousness. These words appear in this manual and on the safety labels attached to Jacobsen machines. For your safety and the safety of others, read and follow the information given with these signal words and/or the symbol shown above.

⚠ DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, **WILL** result in death or serious injury.

⚠ WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.

⚠ CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate injury. It may also be used to alert against unsafe practices or property damage.

CAUTION

CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, **MAY** result in property damage.



MODEL NUMBER: This number appears on sales literature, technical manuals and price lists.

SERIAL NUMBER: This number appears only on your mower. It contains the model number followed consecutively by the serial number. Use this number when ordering parts or seeking warranty information.

PARTS SECTION

FIGURE 1

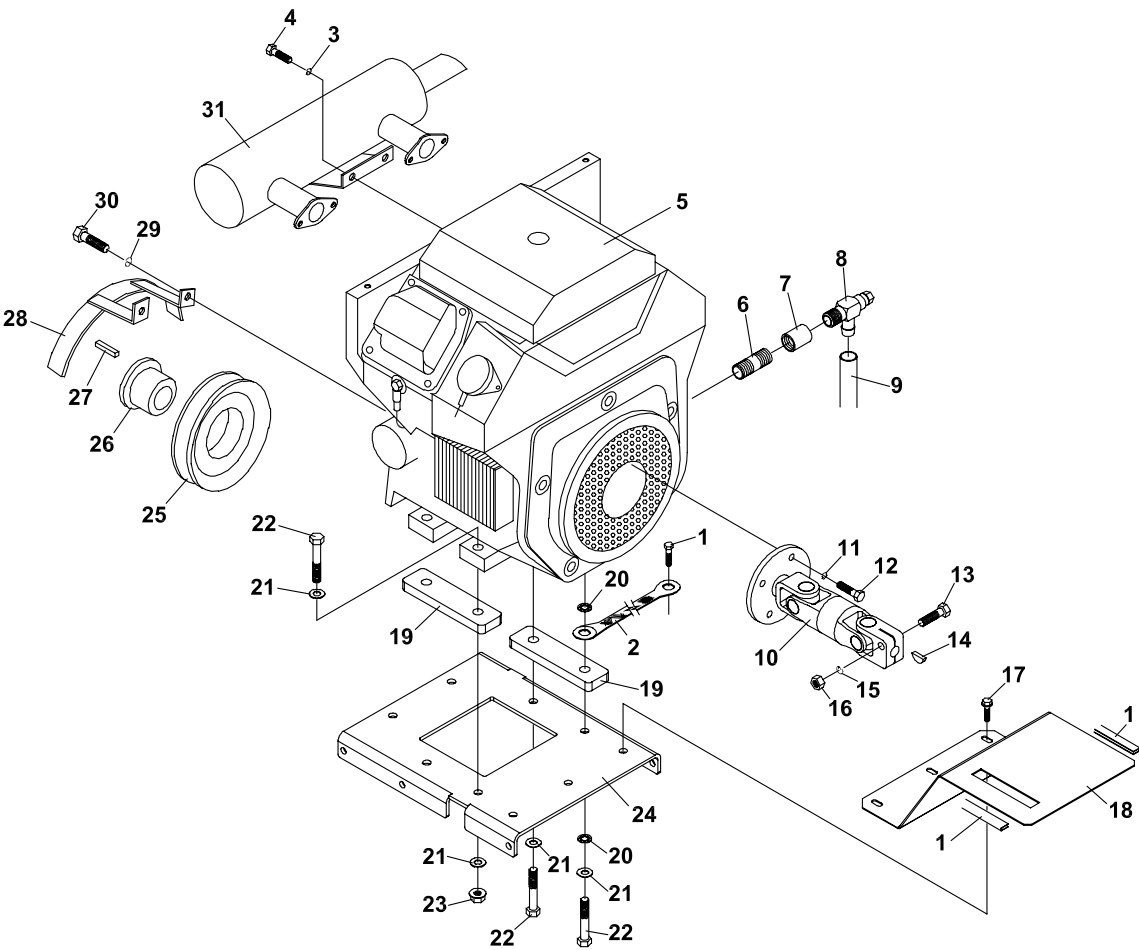


FIGURE 1

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1-1	56-027	TRIM, TRIM-LOC, 5"	2				
1-2	30-291	STRAP, BRAIDED GROUND	1				
1-3	64006-2	LOCKWASHER, 8MM ZP	2				
1-4	64205-001	BLT-M8-1.25X20	2				
1-5	13-148	ENGINE, 23 HP KOHLER	1				
	* 31-24-083-05	FILTER, PRE-CLEANER	1				
	* 31-24-083-03	AIR FILTER ELEMENT	1				
	* 13-12-050-01	OIL FILTER	1				
1-6	29-062	PIPE NIPPLE, 3/8 NPT X 2	1				
1-7	29-044	PIPE COUPLING, 3/8 NPT	1				
1-8	13-075	VALVE, OIL DRAIN 3/8 NPT	1				
1-9	27-018	HOSE, 1/2 PUSH LOCK 8"	1				
1-10	6127002	DRIVESHAFT, 415 KOHLER	1				
1-11	64006-02	LCKWSHER-HELICAL 5/16	4				
1-12	A1103051	BOLT-M8-1.25X25	4				
1-13	64123-87	BOLT-HEX 3/8-16X1-3/4	1				
1-14	85-W0305	WOODRUFF KEY	1				
1-15	64006-03	WSHR, 3/8 HELICAL LOCK	1				
1-16	64025-05	NUT-3/8-16 HEX	1				
1-17	64139-04	BOLT-WLF 1/4-20X3/4	3				
1-18	6127016	SHIELD, HEAT	1				
1-19	6127008.7	RISER, KOHLER ENGINE	2				
1-20	99-G04	SHAKEPROOF WSHR, 3/8"	2				
1-21	64163-61	WSHR .81X.406X16GA	8				
1-22	64123-100	BOLT-3/8-16X2-1/4 HEX	4				
1-23	64141-4	NUT-WLF 3/8-16	4				
1-24	6127006.7	PLATE, ENGINE MOUNTING	1				
1-25	83-BK60H	PULLEY	1				
1-26	83-H18	BUSHING, H 1 1/8	1				
1-27	64164-10	1/4X1/4X1-1/4 MACH KEY	1				
1-28	60-627	BELT GUARD (KOHLER)	1				
1-29	64006-06	LCKWSHER-HELICAL 7/16"	2				
1-30	64123-38	BLT-HEX 7/16-14X1	2				
1-31	4132729	MUFFLER, KOHLER	1				

* NOT ILLUSTRATED

This exploded view diagram illustrates the assembly of a vacuum pump system. The components are numbered as follows:

- 1**: A long, flexible vacuum hose.
- 2**: A small connector or fitting.
- 3**: Multiple O-rings or seals used for creating a vacuum-tight seal.
- 4**: A small vertical tube or connector.
- 5**: A cylindrical component, likely a filter or a part of the pump's internal assembly.
- 6**: A shorter, flexible vacuum hose.
- 7**: A small screw or fastener.
- 8**: A cap or plug for the top of the pump housing.
- 9**: The main vacuum pump housing, featuring a large circular air intake filter on the front.
- 10**: A small connector or fitting.
- 11**: A small screw or fastener.
- 12**: A small screw or fastener.
- 13**: A small screw or fastener.
- 14**: A small connector or fitting.
- 15**: A small screw or fastener.

FIGURE 2

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
2-1	47-085	CABLE, CHOKE 44" LONG	1				
2-2	47-161	CABLE, THROTTLE 48-1/2"	1				
2-3	88042N	CLAMP, HOSE	4				
2-4	27-015	HOSE, 1/4 FUEL LINE, 8-1/2"	1				
2-5	13-021	FUEL FILTER	1				
2-6	27-015	HOSE, 1/4 FUEL LINE, 48"	1				
2-7	64-799	WASHER, 13/32x1-9/32	4				
2-8	47-126	FUEL CAP, 1-3/4 VENTED	1				
2-9	06-048	FUEL TANK W/MLD NECK	1				
2-10	13-127	BUSHING, FUEL TANK	1				
2-11	13-151	FUEL VALVE W/SHUT OFF	1				
2-12	64123-54	BOLT, 5/16-18X3/4 HEX	4				
2-13	64006-02	LCKWSHER-HELICAL 5/16	4				
2-14	99-K77	BOLT, BUTTON HD 1/4x5/8	2				
2-15	64141-2	NUT-WLF 1/4-20	2				

FIGURE 3

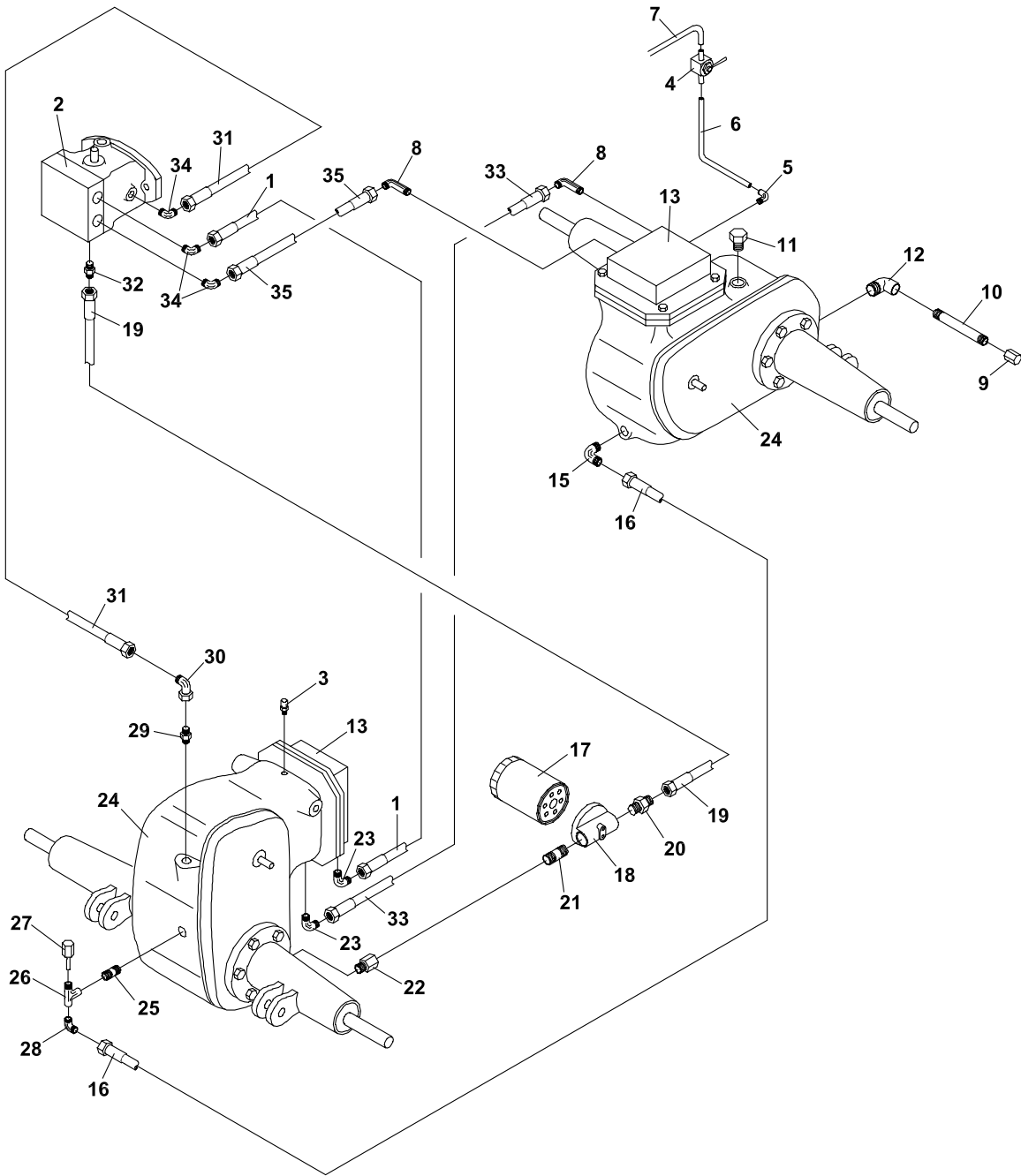


FIGURE 3

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
3-1	20-161	HOSE, 1/2 X 54 SWIV	1				
3-2	21-078	PUMP, SUNDSTRAND	1				
3-3	29-106	PIPE PLUG, VENT W/CAP	1				
3-4	13-082	VALVE, FUEL SHUT OFF	1				
3-5	29-047	FITTING, 90	1				
3-6	27-015	HOSE, 1/4 FUEL LINE 9"	1				
3-7	27-015	HOSE, 1/4 FUEL LINE 24"	1				
3-8	25-6801-LL-8	FITTING, 90, O-RING	2				
3-9	29-032	PIPE CAP, 3/8 NPT	1				
3-10	29-011	NIPPLE, 3/8 X 6	1				
3-11	25-05CP-10	FITTING, CAP	1				
3-12	29-018	PIPE ELBOW, 3/8 NPT, 90	1				
3-13	21-004	HYDRAULIC MOTOR	2				
3-14	* 21-005	GASKET, MOTOR	2				
3-15	25-3103-6-8	FITTING, 45	1				
3-16	22-048	HOSE, PUSH LOCK 1/2x41	1				
3-17	21-093	FILTER, HYDRAULIC	1				
3-18	21-073	FILTER HEAD, 3/4"	1				
3-19	22-046	HOSE, PUSH LOCK 3/4x26	1				
3-20	25-0103-12-12	FITTING	1				
3-21	29-128	PIPE NIPPLE, 3/4	1				
3-22	25-0502-10-12	FITTING	1				
3-23	25-3503-8-8	FITTING, 45, O-RING	2				
3-24	51-036	TRANSAXLE, W/ 1" AXLES	2				
3-25	29-039	NIPPLE, 3/8	1				
3-26	25-012T-6-6	FITTING, TEE	1				
3-27	24-041	DIPSTICK, REAR AXLE 2"	1				
3-28	25-2103-6-8	FITTING, 90	1				
3-29	25-0103-6-8	FITTING	1				
3-30	25-3903-8-8	FITTING, 90, SWIVEL	1				
3-31	22-047	HOSE, PUSH LOCK 1/2x55	1				
3-32	24-037	FITTING, AXLE PORT	1				
3-33	20-091	HOSE, 1/2 X 33 100R2	1				
3-34	25-2503-8-8	FITTING, 90, O-RING	3				
3-35	20-024	HOSE, 1/2 X 27 100R2	1				

* NOT ILLUSTRATED

FIGURE 4

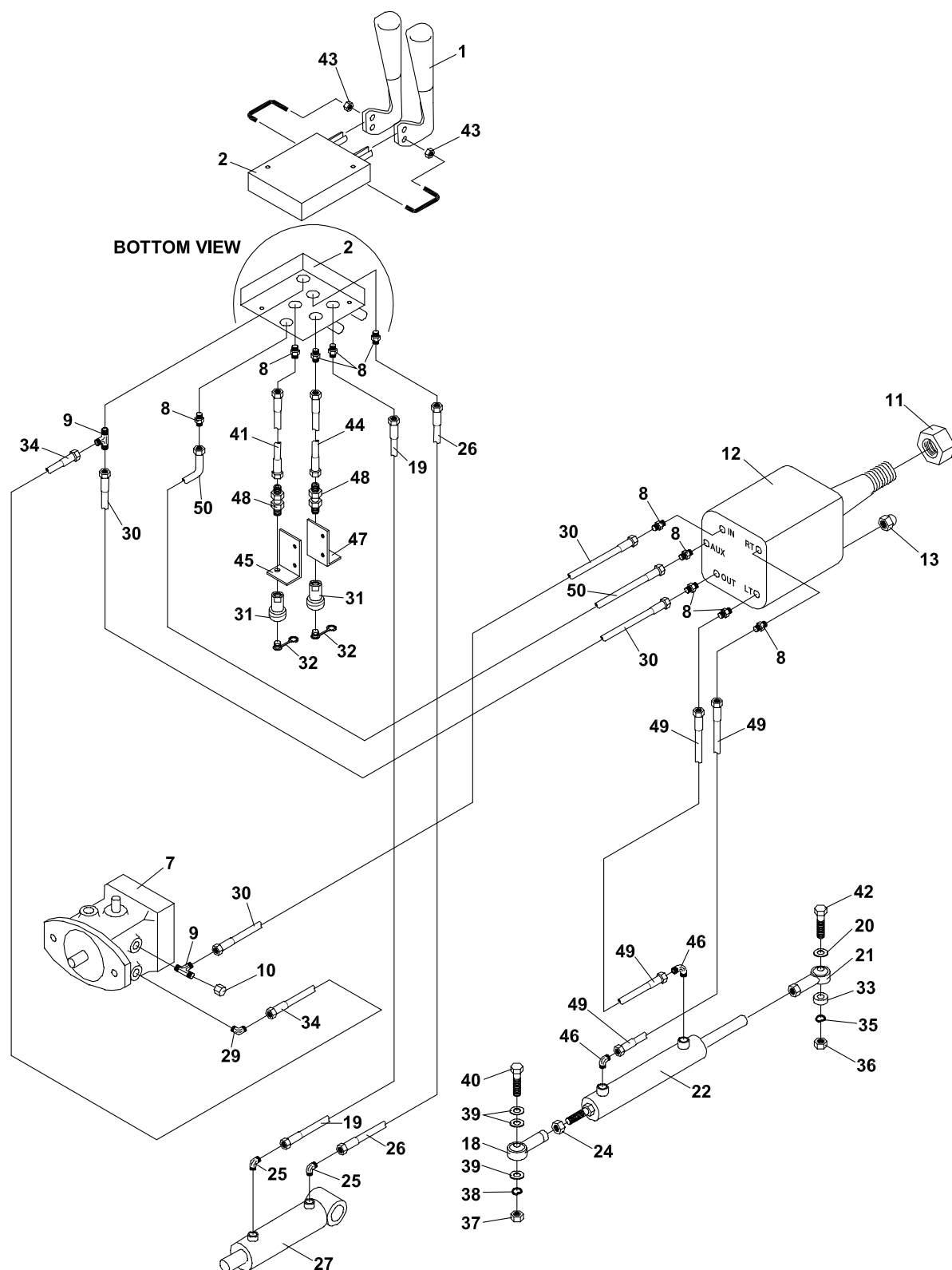


FIGURE 4

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
4-1	23-038	HANDLE	2	4-47	64-949.7	BRACKET-COUPLER	1
4-2	23-035	VALVE-2 SPOOL	1	4-48	25-2706-4-6	FITTING-STRAIGHT	2
4-3	* 23-041	DETENT KIT FOR 23-035	1	4-49	20-074	HOSE-1/4x31	2
4-4	* 23-1607-11	DETENT-SPOOL, 23-035	1	4-50	4135592	HOSE	1
4-5	* 23-30029249	SEAL KIT FOR 23-035	1				
4-6	* 23-038A	CLIP & PIN FOR HANDLES	2				
4-7	21-078	PUMP-SUNSTRAND	1				
4-8	25-0503-6-6	FITTING, O-RING	10				
4-9	25-053T-6-6	FITTING, TEE	2				
4-10	25-06CP-6	FITTING-CAP	1				
4-11	99-E11	NUT-STEERING VALVE	1				
4-12	23-054	VALVE-STEERING, 5 PORT	1				
4-13	99-E16	ACORN NUT 5/16 NF	4				
4-14	* 21-SK000011	SEAL KIT-STEERING VLV	1				
4-15	* 21-402405	OUTER SEAL-STEERING	1				
4-16	* 21-401443X1	SPRING KIT-STEERING	1				
4-17	* 21-061015	BUSHING-STEERING VLV	1				
4-18	4132294	ROD END - 1/2	1				
4-19	20-081	HOSE-1/4 X 29	1				
4-20	4138811	SPACER-STEERING CYL	1				
4-21	4132296	ROD END-5/8 STEEL	1				
4-22	4132310	CYLINDER-STEERING	1				
4-23	* 21-0A002813	SEAL KIT, CYLINDER	1				
4-24	64001-3	NUT, 1/2-20 HEX JAM	1				
4-25	25-2103-6-6	FITTING-90	2				
4-26	20-027	HOSE-1/4x22	1				
4-27	23-005	CYLINDER	1				
4-28	* 21-13909X	SEAL KIT FOR CYLINDER	1				
4-29	25-2503-6-6	FITTING-90	1				
4-30	20-075	HOSE-3/8x14	2				
4-31	23-003	QUICK COUPLER-FEMALE	2				
4-32	23-033	DUST COVER FOR 23-003	2				
4-33	4138810	SPACER-STEERING CYL	1				
4-34	20-077	HOSE, 3/8 X 19	1				
4-35	64006-04	LOCKWASHER-5/8	1				
4-36	64268-06	LOCKNUT-FL 5/8-11	1				
4-37	99-A08NF	LOCKNUT-1/2 NF	1				
4-38	64006-05	LOCKWASHER-1/2	1				
4-39	64163-67	FLAT WASHER-1/2	3				
4-40	91-0820	BOLT-1/2x2-1/2 NF	1				
4-41	20-217	HOSE-1/4 X 20	1				
4-42	64123-249	BLT-HEX 5/8-11 X 3-3/4	1				
4-43	99-E52	JAM NUT-5/16	2				
4-44	4132508	HOSE-1/4 X 17	1				
4-45	64-948.7	BRACKET-AUX VALVE	1				
4-46	25-2103-4-6	FITTING-90	2				

* NOT ILLUSTRATED

FIGURE 5

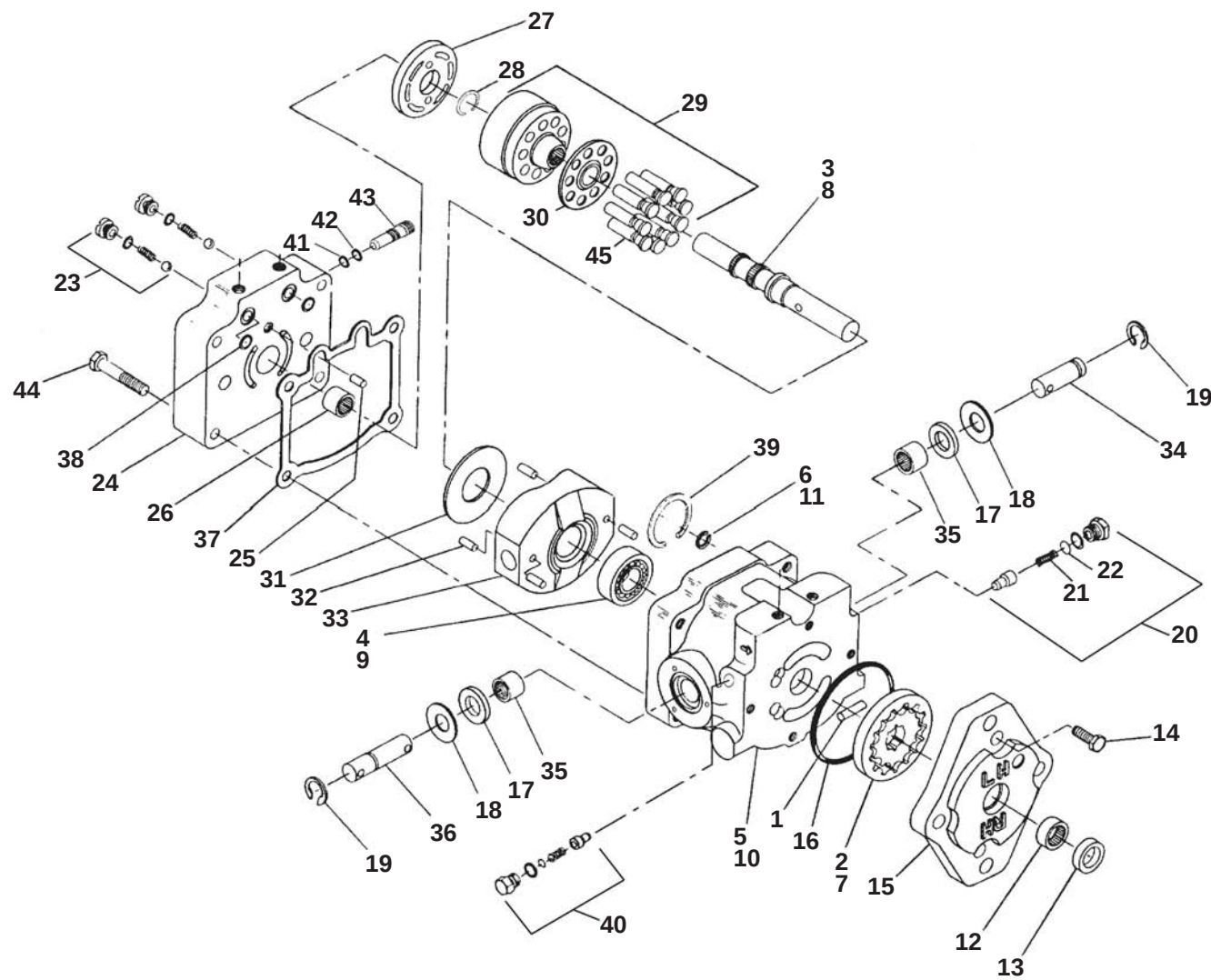


FIGURE 5

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
5-1	21-041	DRIVE PIN	1	5-33	21-021	SWASHPLATE-VARIABLE	1
5-2	21-027	GEROTOR, CHARGE PUMP	1	5-34	21-017	SHAFT-TRUNNION	1
5-3	21-028	SHAFT-PUMP	1	5-35	21-066	BEARING-BRONZE	1
5-4	21-032	BEARING	1	5-36	21-018	SHAFT-CONTROL	1
5-5	21-052	HOUSING-PUMP	1	5-37	21-020	GASKET	1
5-6	21-044	RING-RETAINING	1	5-38	21-037	O-RING	2
	(ITEMS 1-6 USED ON SERIES 15-2177)			5-39	21-042	RING-RETAINING	1
5-7	21-3104034	GEROTOR ASSEMBLY	1	5-40	21-065	KIT-RELIEF VALVE PRIOR	1
5-8	21-3103848	SHAFT-PUMP	1	5-41	21-9004100-0120	O-RING	1
5-9	21-5000153	BEARING	1	5-42	21-9006110-0120	BACKUP RING	1
5-10	21-3104080	HOUSING ASSEMBLY	1	5-43	21-3103786	BYPASS VALVE	1
5-11	21-9006300-0087	RING-RETAINING	1	5-44	64123-82	BOLT-HEX 3/8-16X2-1/2	4
	(ITEMS 7-11 USED ON SERIES 15-2264)			5-45	21-9510621	PISTON ASSEMBLY	9
5-12	21-036	BEARING-CHARGE PUMP	1	5-46	* 71-009	TOOL-SPRING COMPRESS	1
5-13	21-048	SEAL-INPUT SHAFT	1		(USED TO SERVICE ITEM 29)		
5-14	21-046	SCREW-HEX 5/16x7/8	4		* NOT ILLUSTRATED		
5-15	21-031	HOUSING-CHARGE PUMP	1				
5-16	21-038	O-RING	1				
5-17	21-047	SEAL-CONTROL SHAFT	2				
5-18	21-049	WASHER	2				
5-19	21-045	RING-RETAINER	2				
5-20	21-051	KIT-VALVE IMPLEMENT RLF1	1				
	(INCLUDES ITEMS 21 & 22)						
5-21	21-3102027	SPRING-IMPLEMENT RLF	1				
5-22	21-059	SHIM PACK	1				
5-23	21-050	KIT-CHECK VALVE	1				
5-24	21-023	END CAP-PUMP	1				
5-25	21-040	PIN-LOCATING	1				
5-26	21-034	BEARING-NEEDLE	1				
5-27	21-026	PLATE-VALVE PUMP	1				
5-28	21-092	RING-RETAINING	1				
5-29	21-029	KIT-CYLINDER BLOCK	1				
	(INCLUDES ITEMS 30 & 45)						
5-30	21-069	WASHER-PISTON RETAIN	1				
5-31	21-019	PLATE-THRUST	1				
5-32	21-039	SPRING PIN	4				

FIGURE 6

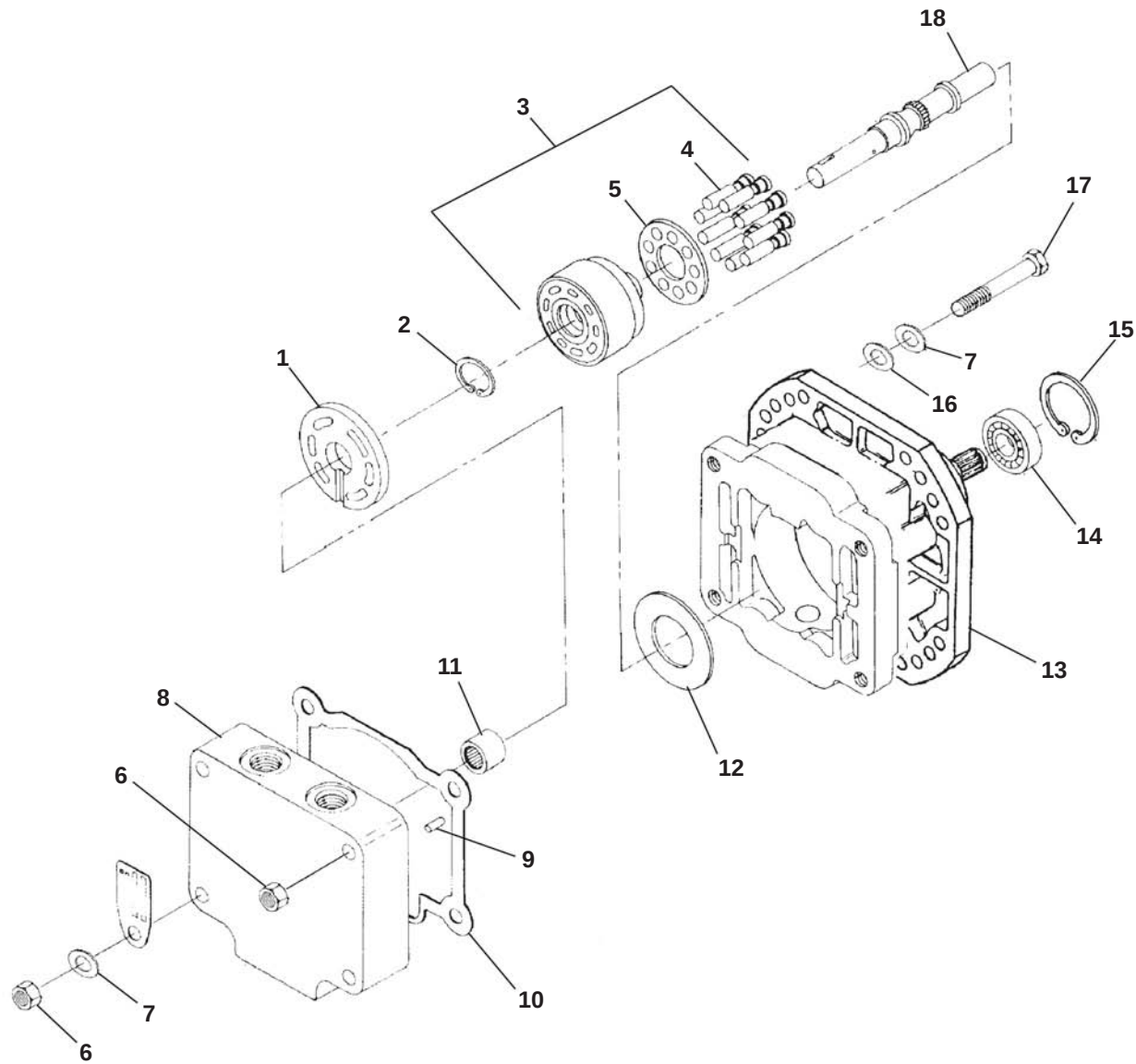


FIGURE 6

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
6-1	21-025	PLATE-VALVE MOTOR	1				
6-2	21-092	RING-RETAINING	1				
6-3	21-029	KIT-CYLINDER BLOCK (INCLUDES ITEMS 4 & 5)	1				
6-4	21-9510621	PISTON ASSEMBLY	9				
6-5	21-069	WASHER-PISTON RETAIN	1				
6-6	64025-05	NUT-3/8-16 HEX	4				
6-7	F3053	WASHER-FLAT 3/8x3/4x.13	5				
6-8	21-024	END CAP-MOTOR	1				
6-9	21-040	PIN-LOCATING	1				
6-10	21-020	GASKET	1				
6-11	21-034	BEARING-NEEDLE	1				
6-12	21-019	PLATE-THRUST	1				
6-13	21-030	HOUSING-MOTOR (ITEM 13 IS NOT AVAILABLE AS A SERVICE PART)	1				
6-14	21-033	BEARING	1				
6-15	21-043	RING-RETAINING	1				
6-16	21-9009640-3700	WASHER-PRESSURE	4				
6-17		BOLT-3/8x3-1/4, GRADE 8	4				
6-18	21-022	SHAFT-MOTOR	1				
6-19	* 51-011	PINION GEAR	1				
6-20	* 64144-01	SNAP RING 5/8	1				
6-21	* 71-009	TOOL-SPRING COMPRESS (USED TO SERVICE ITEM 3)	1				

* NOT ILLUSTRATED

FIGURE 7

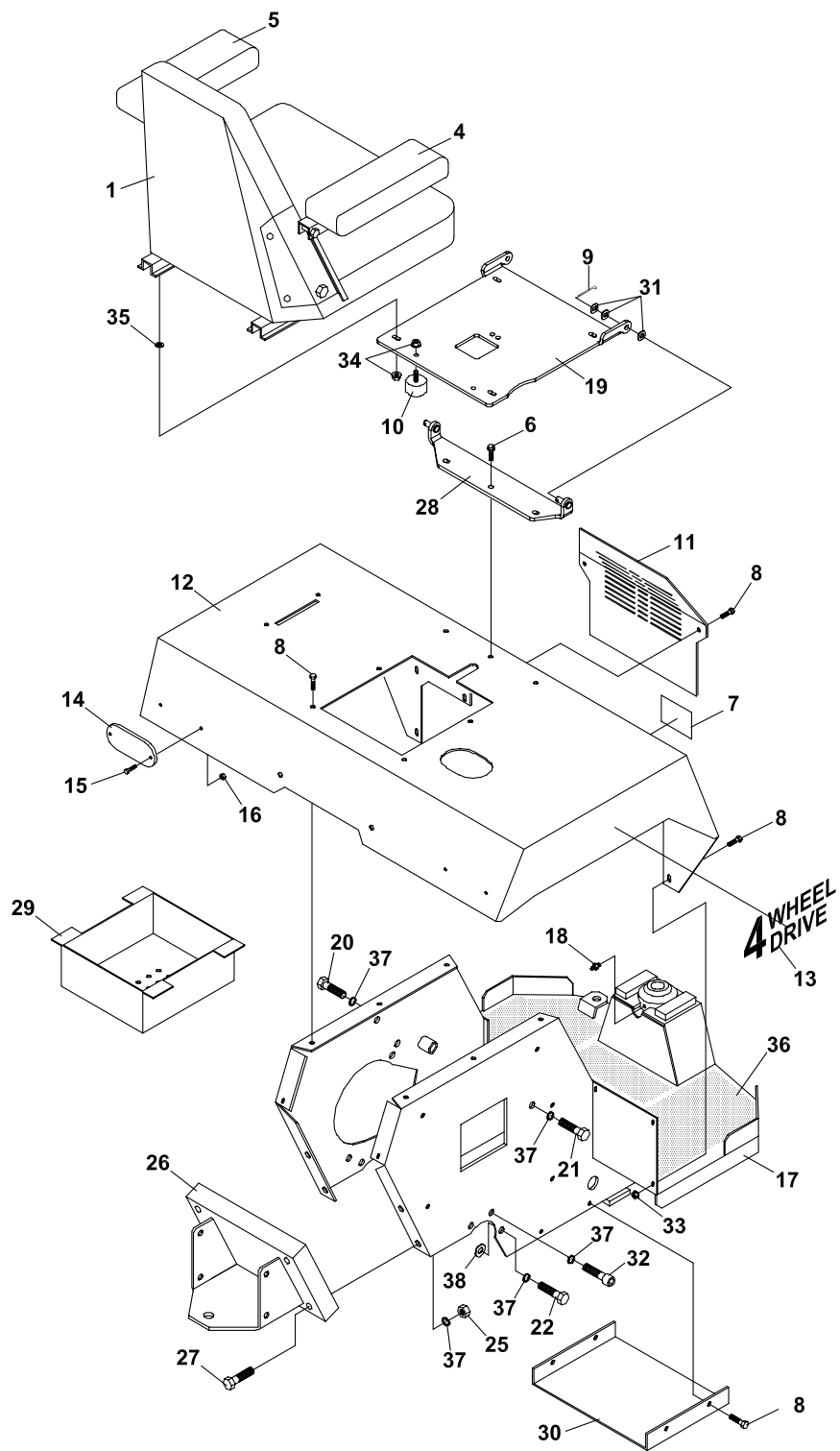


FIGURE 7

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
7-1	47-151	SEAT, XR-210 STEINER	1				
7-2	* 47-094	ADJUSTER, LATCHING	1				
7-3	* 47-095	ADJUSTER, SLAVE SEAT	1				
7-4	47-096	ARMREST, RH (OPTIONAL)	1				
7-5	47-097	ARMREST, LH (OPTIONAL)	1				
7-6	99-K27	BOLT, FLANGE 1/4-20x1	3				
7-7	00-393	DECAL, TRANSAXLE SHIFT	2				
7-8	64139-04	BOLT-WLF 1/4-20X3/4	17				
7-9	02-CP0406	COTTER PIN, 1/8x3/4	1				
7-10	05-019	BUMPER	2				
7-11	60-588.17	SHIELD, REAR MOTOR	1				
7-12	62-774.17	FENDER, REAR	1				
7-13	4128265	LABEL-4 WHEEL DRIVE	2				
7-14	33-012	REFLECTOR, AMBER OVAL	2				
7-15	01-025	SCREW, MACHINE 8-32x5/8	4				
7-16	64025-29	NUT-HEX #8-32 KEPS	4				
7-17	62-780.17	FRAME, REAR	1				
7-18	29-010	S/B GREASE FITTING	1				
7-19	62-885.7	PLATE, SEAT	1				
7-20	64123-24	BLT-HEX 1/2-13X2	1				
7-21	64123-39	BOLT-HEX 1/2-13x1-1/4	1				
7-22	90-0814	BOLT, 1/2 UNC x 1-3/4	1				
		(ITEM 22 USED ON RIGHT SIDE OF FRAME ONLY)					
7-23	* 64123-125	BOLT-HEX 1/2-13X2-3/4	3				
7-24	* 64-771	SPACER, REAR AXLE 1"	1				
		(ITEMS 23 & 24 USED ON LEFT SIDE OF FRAME ONLY)					
7-25	64025-09	HEX, NUT 1/2-13	4				
7-26	62-879.17	DRAWBAR, WELDMENT	1				
7-27	64123-125	BOLT-HEX 1/2-13X2-3/4	4				
7-28	62-886.7	HINGE, SEAT W/A	1				
7-29	62-785.7	TOOLBOX	1				
7-30	60-606.7	SHIELD, HYDRAULIC FILTR	1				
7-31	64163-61	WSHR .81X.406X16GA	3				
7-32	99-14	BOLT, 1/2-13 X 1-3/4 SHCS	2				
		(ITEM 22 USED ON RIGHT SIDE OF FRAME ONLY)					
7-33	64141-2	NUT-WLF 1/4-20	2				
7-34	64141-6	NUT, 5/16-18	6				
7-35	64163-02	WSHR-.321X.593X11GA	4				
7-36	4132693	FLEXTREAD, 415	1				
7-37	64006-05	LOCKWSHER-HELICAL 1/2	12				
7-38	64163-67	WASHER-.516X1X12GA	1				

* NOT ILLUSTRATED

FIGURE 8

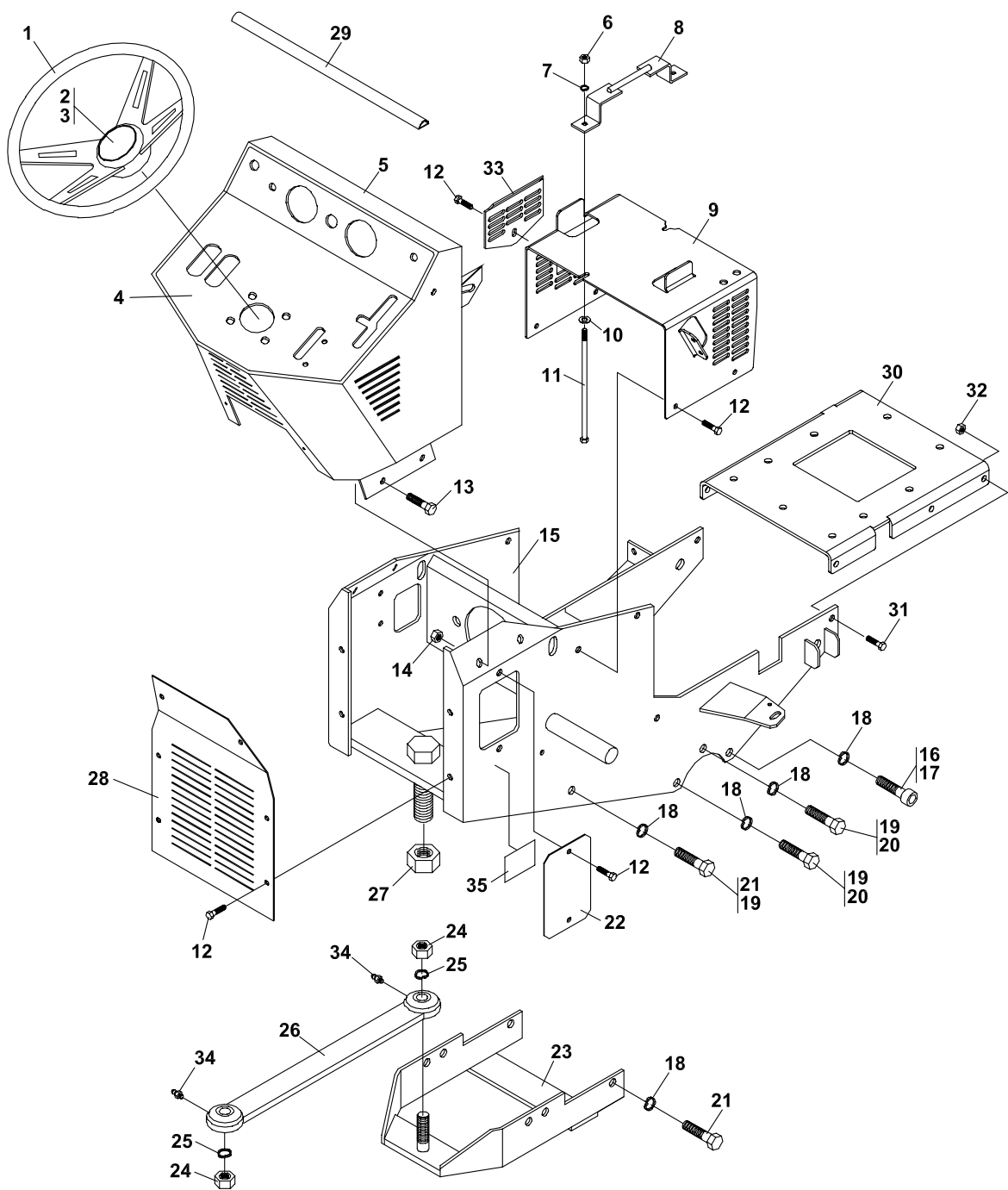


FIGURE 8

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
8-1	47-103	STEERING WHEEL	1	8-22	60-595.17	SIDE FRAME ACCESS PNL	1
8-2	47-104	CAP, STR WHEEL CENTER	1	8-23	62-778	FRAME, LOWER FRONT	1
8-3	4128434	LABEL-EMBLEM, STEERING	1	8-24	64025-16	NUT-HEX 5/8-18	2
8-4	00-181	DECAL, DASH	1	8-25	64006-04	LOCKWSHR-HELICAL 5/8	2
8-5	62-781.17	PANEL, DASH & CONTROL	1	8-26	62-776.7	LINK, CENTER PIVOT	1
8-6	64025-01	NUT-1/4-20 HEX	2	8-27	64151-9	HEX LOCK NUT	1
8-7	64006-01	LOCKWASHER-1/4 HELICAL	2	8-28	60-589.17	SHIELD, PUMP COVER	1
8-8	64-777.7	BRACKET, BATTERY MNT	1	8-29	56-062-15	MOLDING-TRIM	1
8-9	6127023.7	TRAY, BATTERY	1	8-30	6127006.7	PLATE, ENGINE MOUNTING	1
8-10	64163-86	WSHR-FLAT .265x.625x.125	2	8-31	64139-08	BOLT-5/16-18X3/4 WLF	4
8-11	90-0448	BOLT, 1/4-20 X 6 NC	2	8-32	64141-6	NUT, 5/16-18	4
8-12	64139-04	BOLT-WLF 1/4-20X3/4	13	8-33	60-679.7	SHIELD, BATTERY TRAY	1
8-13	64139-21	BLT-WLF 3/8-16X3/4	4	8-34	29-010	S/B GREASE FITTING	2
8-14	64141-4	NUT-WLF 3/8-16	4	8-35	00-393	DECAL, TRANSAXLE SHIFT	1
8-15	62-862.17	FRAME, FRONT MAIN	1				
8-16	99-14	BOLT, 1/2-13 X 1-3/4 SHCS (ITEM 16 USED ON RIGHT SIDE)	1				
8-17	99-16	BOLT, 1/2-13 X 2-3/4 SHCS (ITEM 17 USED ON LEFT SIDE OPPOSITE ITEM 16)	1				
8-18	64006-05	LOCKWSHR-HELICAL 1/2	14				
8-19	90-0814	BOLT, 1/2 UNC x 1.3/4 (QTY 2 OF ITEM 19 USED ON RIGHT SIDE) (QTY 1 OF ITEM 19 USED ON LEFT SIDE OPPOSITE ITEM 21)					
8-20	64123-125	BOLT-HEX 1/2-13X2-3/4 (ITEM 17 USED ON LEFT SIDE OPPOSITE ITEM 16)	2				
8-21	64123-39	BOLT-HEX 1/2-13X1-1/4 (QTY 1 OF ITEM 21 USED ON RIGHT SIDE) (QTY 4 OF ITEM 21 USED ON ITEM 23)					

* NOT ILLUSTRATED

FIGURE 9

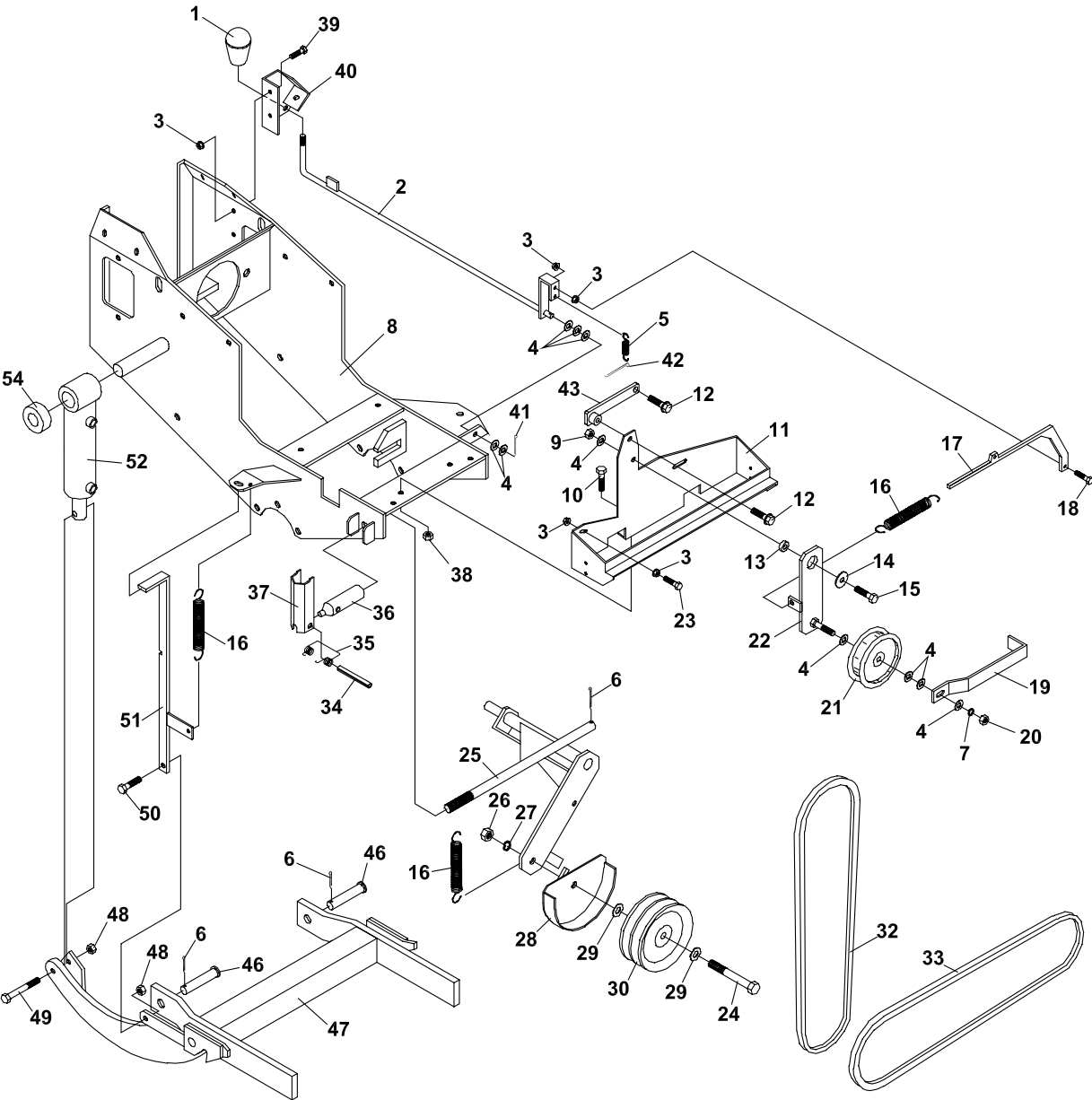


FIGURE 9

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
9-1	47-001	KNOB, SMALL	1	9-46	64188-18	PIN, CLEVIS	2
9-2	40-138	LEVER, PTO	1	9-47	62-833.7	FRONT LIFT	1
9-3	64141-2	NUT-WLF 1/4-20	6	9-48	64229-03	LOCKNUT-NYLON 3/8-16	2
9-4	64163-61	WSHR .81X.406X16GA	10	9-49	64123-100	BOLT-3/8-16x2-1/4 HEX	1
9-5	41-013	SPRING	1	9-50	64123-50	BOLT-HEX 3/8-16x1	1
9-6	02-CP0510	COTTER PIN, 5/32x1-1/4	3	9-51	40-304.7	LEVER, HITCH RELEASE	1
9-7	64006-03	WASHER, 3/8 HELICAL LCK	2	9-52	23-005	CYLINDER	1
9-8	62-862.17	FRAME, FRONT MAIN	1	9-53	* 21-13909X	SEAL KIT, CYLINDER	1
9-9	64229-03	LOCKNUT-NYLON 3/8-16	1	9-54	85-SC16	SET COLLAR	1
9-10	64139-21	BLT-WLF 3/8-16X3/4	2				
9-11	62-777.7	BRACKET, PTO	1				
9-12	99-K13	S/B BOLT, FLANGE 3/8-16x1	2				
9-13	99-B40	WSHR, 3/8"ID X 1"OD X .255	1				
9-14	99-B10	FLATWSHR, 1/8x13/32x1-1/2	1				
9-15	64123-16	BLT-HEX 3/8-16X1-1/4	1				
9-16	41-010	SPRING	3				
9-17	42-474	ROD, PTO TENSION	1				
9-18	64123-114	BOLT-HEX 1/4-20X1	1				
9-19	64-746.7	BRACKET, BELT GUARD	1				
9-20	64025-05	NUT-3/8-16 HEX	1				
9-21	83-029	IDLER	1				
9-22	40-309.7	IDLER ARM, PTO	1				
9-23	64123-89	BOLT-HEX 1/4-20X3/4	1				
9-24	90-0828	S/B BOLT, 1/2-13X3 1/2 NC	1				
9-25	62-760.7	ARM, IDLER SLIDER BRKT	1				
9-26	64229-05	LOCKNUT, 1/2-13 NYLON	1				
9-27	64006-05	LOCKWSHR-HELICAL 1/2	1				
9-28	64-745.7	SHIELD, DOUBLE IDLER	1				
9-29	64163-67	WASHER-.516X1X12GA	2				
9-30	83-026	PULLEY, 2GR IDLER	1				
9-31	* 55-6204	BEARING, REP. FOR 83-026	2				
9-32	81-B039	BELT, B39	1				
9-33	81-A040	BELT, 84420	1				
9-34	02-RP1224	ROLL PIN, 3/8 X 3	1				
9-35	41-062	SPRING, TORSION	1				
9-36	62-818	PTO IDLER BRKT ADJ. NUT	1				
9-37	64-859.7	IDLER LOCK	1				
9-38	64141-4	NUT-WLF 3/8-16	2				
9-39	64139-04	BOLT-WLF 1/4-20X3/4	2				
9-40	64-207.7	PTO SWITCH MOUNT	1				
9-41	02-CP0408	COTTER PIN, 1/8 X 1	1				
9-42	02-CP0404	COTTER PIN, 1/8 X 1/2	1				
9-43	6127024.7	PLATE, SUPPORT W/A	1				
9-44	* 00-071	DECAL-PTO CLUTCH SYM.	1				
9-45	* 4116761	LABEL-MADE IN USA	1				

* NOT ILLUSTRATED

This exploded view diagram illustrates the assembly of a device chassis. The main components and their assembly points are as follows:

- 1**: Main chassis housing.
- 2**: Bottom cover plate.
- 3**: Screws for the top cover.
- 4**: Top cover plate.
- 6**: Lock pin for the bottom cover.
- 7**: Pin for the bottom cover.
- 8**: Screws for internal components.
- 9**: Screws for the front panel.
- 10**: Screws for the front panel.
- 11**: Screws for the front panel.
- 12**: Front panel.
- 13**: Bottom rail.
- 14**: Spring for the front panel.
- 15**: Screws for the front panel.
- 16**: Screws for the front panel.
- 17**: Side cover plate.
- 18**: Screws for internal components.
- 19**: Screws for the top cover.
- 20**: Screws for the top cover.
- 22**: Screws for the bottom cover.
- 23**: Bottom cover plate.
- 24**: Bottom cover plate.

FIGURE 10

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
10-1	4136722.17	HOOD, 415	1				
10-2	56-027	TRIM, TRIM-LOC 18"	1				
10-3	99-K47	BOLT, 1/4-20x3/4 BTN HD	2				
10-4	4128797	LABEL-415 HOOD, LH	1				
10-5	* 4128796	LABEL-415 HOOD, RH	1				
10-6	04-004	POP RIVET, 3/16 X 1/4 SS	4				
10-7	04-030	POP RIVET, 3/16 X 1/8 SS	4				
10-8	64141-2	NUT-WLF 1/4-20	11				
10-9	64123-68	BOLT-HEX 5/16-18X1	2				
10-10	64163-04	WASHER, 25/64x5/8x16GA	6				
10-11	64229-02	LOCKNUT-NYLON 5/16-18	2				
10-12	64-776.17	HINGE, HOOD	1				
10-13	6127015.7	PROP, HOOD W/A	1				
10-14	41-039	SPRING, COMPRESSION	1				
10-15	64163-86	WSHR-FLAT .265x.625x.125	1				
10-16	64229-01	LOCKNUT-NYLON 1/4-20	1				
10-17	56-027	TRIM, TRIM-LOC 15"	3				
10-18	30-082	CLAMP, INSULATED HALF	4				
10-19	99-K70	BOLT, 1/4-20x1/2 BTN HD	8				
10-20	99-K39	BOLT, 1/4-20x1-1/2 BTN HD	1				
10-21	4128798	LABEL-415	2				
10-22	47-030	RUBBER LATCH ASSY	2				
10-23	33-031	HEADLAMP, 410/415	2				
10-24	4136723	GROMMET, 415 FRT HDLT	2				

* NOT ILLUSTRATED

FIGURE 11

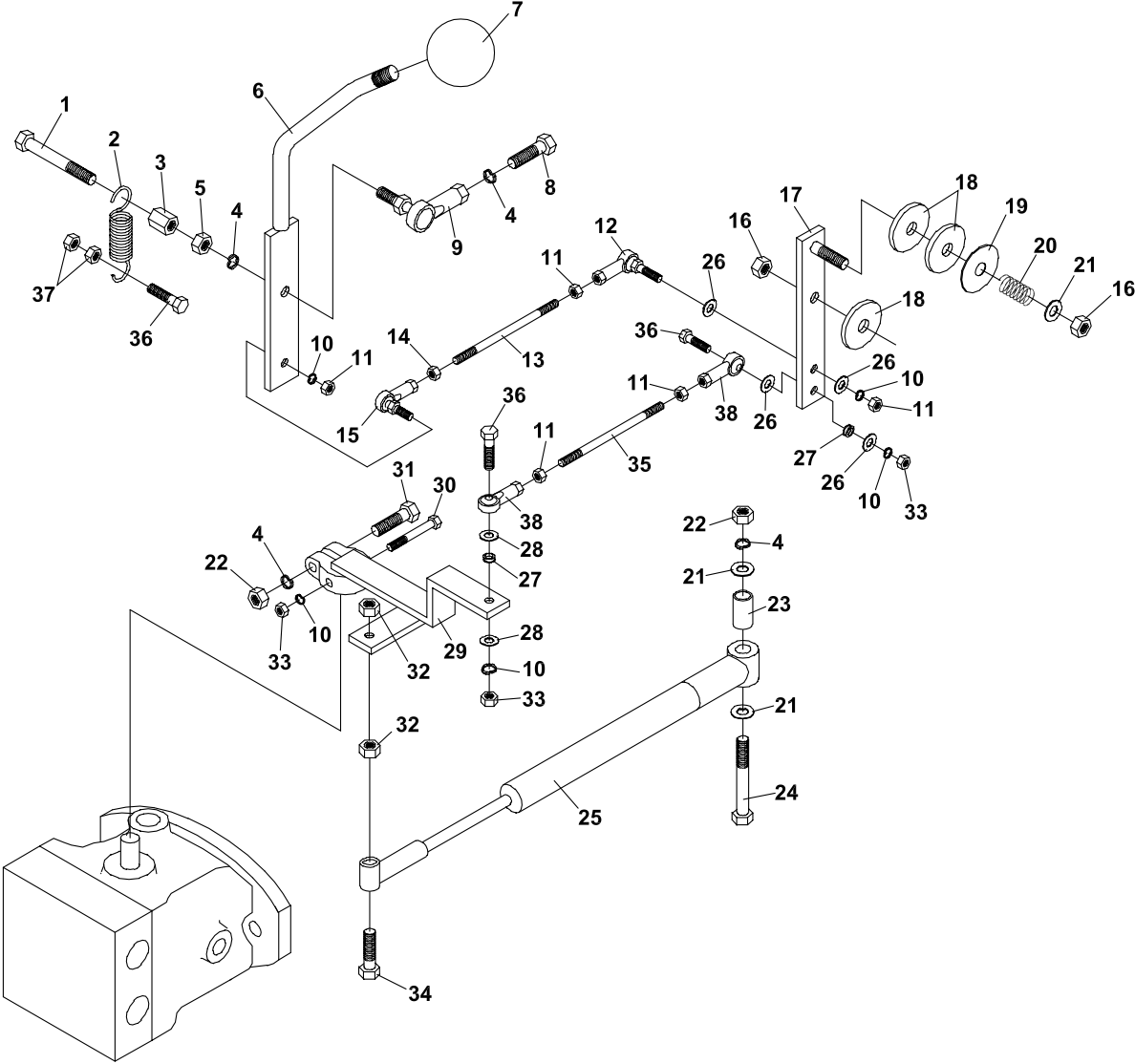


FIGURE 11

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
11-1	64123-34	BLT-HEX 3/8-24 X 2-1/2	1				
11-2	41-054	SPRING,EXT 0.50 X 2.938	1				
11-3	99-E23	HIGH NUT, 3/8-24 NF	1				
11-4	64006-03	WASHER, 3/8 HELICAL LCK	4				
11-5	64025-04	NUT-3/8-24 HEX	1				
11-6	40-307	LEVER, FORWARD/REV	1				
11-7	47-038	KNOB, LARGE	1				
11-8	64123-02	BLT-HEX 3/8-24X1	1				
11-9	43-006SA	ROD END 3/8" STUDD	1				
11-10	64006-01	LOCKWASHER-1/4 HELICAL	5				
11-11	64025-23	NUT-HEX 1/4-28	5				
11-12	43-004S	ROD END	1				
11-13	42-476	LINK, F/R LEVER ADJ.	1				
11-14	93-04LH	NUT,1/4-28 LEFT HAND	1				
11-15	43-004SL	FEMALE ROD END	1				
11-16	64229-03	LOCKNUT-NYLON 3/8-16	2				
11-17	40-308.7	ARM, PUMP PIVOT	1				
11-18	05-024	WASHER, FRICTION	3				
11-19	99-B16	FENDER WASHER, 3/8	1				
11-20	41-039	SPRING, COMPRESSION	1				
11-21	64163-61	WSHR .81X.406X16GA	3				
11-22	64025-05	NUT-3/8-16 HEX	2				
11-23	64-774	SPACER, F/R SHOCK	1				
11-24	64123-88	BOLT, 3/8-16X2-3/4 HEX	1				
11-25	47-002	STABILIZER	1				
11-26	64163-86	WSHR-FLAT .265x.625x.125	4				
11-27	05-025	GROMMET, 1/4 ID X 5/8 OD	2				
11-28	64163-03	WSHR-.256IDx.62ODx18GA.	2				
11-29	40-306.7	LEVER, PUMP CONTROL	1				
11-30	64123-60	BOLT, 1/4-20X2 HEX	1				
11-31	64123-87	BOLT-HEX 3/8-16X1-3/4	1				
11-32	64141-4	NUT-WLF 3/8-16	2				
11-33	64025-01	NUT-1/4-20 HEX	3				
11-34	64123-70	BOLT-HEX 3/8-16X1-1/2	1				
11-35	42-475	LINK, PIVOT ARM ADJ	1				
11-36	64123-80	BLT-HEX 1/4-20X1-1/4	3				
11-37	64141-2	NUT-WLF 1/4-20	2				
11-38	43-004A	ROD END, 1/4"	2				

FIGURE 12

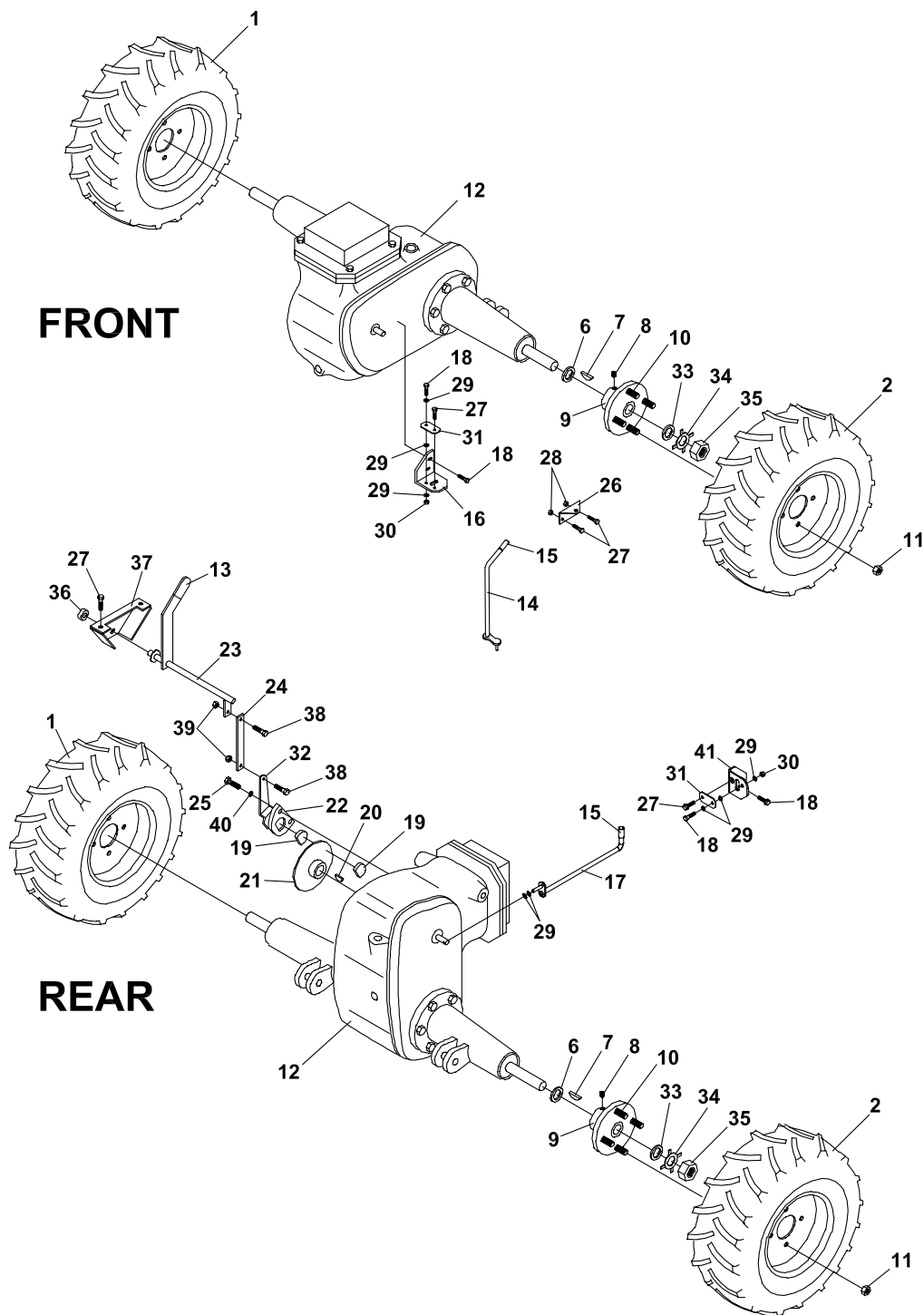


FIGURE 12

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
12-1	53-015	WHEEL ASSY, 21X1100X8 TRACTION BAR TIRE (INCLUDES ITEMS 3 & 4)	2				
12-2	53-016	WHEEL ASSY, 21X1100X8 TRACTION BAR TIRE (INCLUDES ITEMS 3 & 4)	2				
12-3	* 53-043	TIRE-TRACTION BAR TYPE	1				
12-4	* 53-051	RIM-8x8.5	1				
12-5	* 53-091	TIRE-TURFMATE (ITEM 5 IS AN OPTIONAL TIRE)					
12-6	51-780005	SPACER	4				
12-7	85-W0417	WOODRUFF KEY	4				
12-8	85-SS15	SET SCREW, 5/16-24x1/4	4				
12-9	50-085	HUB, 4-BOLT WHEEL 1"ID	4				
12-10	99-K08	LUGBOLT, 1/2-20 X 1-1/4	16				
12-11	64187-03	WHEEL NUT 1/2-20	16				
12-12	51-036	TRANSAXLE, W/1" AXLES	2				
12-13	47-048	HANDLE GRIP	1				
12-14	64-833.7	TRANSAXLE SHIFTER FRT	1				
12-15	47-046	HANDLE GRIP, 3/8 IDx3/4	2				
12-16	64-831.7	SHIFT LEVER BRACKET	1				
12-17	6127009.7	SHIFTER, REAR TRANS	1				
12-18	64123-89	BOLT-HEX 1/4-20X3/4	6				
12-19	53-021	BRAKE PADS, (2)	1				
12-20	64164-19	KEY WOODRUFF.19X.75 #9	1				
12-21	53-020	DISC, PARKING BRAKE	1				
12-22	53-022	BRAKE, CALIPER CMPLT	1				
12-23	40-305.7	LEVER, BRAKE LOCK	1				
12-24	42-478.7	LINK, PARKING BRAKE	1				
12-25	64123-70	BOLT-HEX 3/8-16X1-1/2	2				
12-26	64-766.7	TWO LEVER SHFTR BRKT	1				
12-27	64139-04	BOLT-WLF 1/4-20X3/4	6				
12-28	64141-2	NUT-WLF 1/4-20	2				
12-29	64163-86	WSHR-FLAT .265x625x.125	8				
12-30	64229-01	LOCKNUT-NYLON 1/4-20	2				
12-31	64-860.7	SHIFTER LOCK STRAP	2				
12-32	53-113	BRAKE LEVER	1				
12-33	64163-64	WASHER	4				
12-34	53-018	TAB, LOCKING	4				
12-35	53-019	NUT, 1" JAM	4				
12-36	85-SC08	SET COLLAR	1				
12-37	64-767.7	BRKT, PARK BRAKE PIVOT	1				
12-38	64123-54	BOLT, 5/16-18X3/4 HEX	2				
12-39	64229-02	LOCKNUT-NYLON 5/16-18	2				
12-40	64006-03	WASHER, 3/8 HELICAL LCK	2				
12-41	6127007.7	BRACKET, REAR SHIFTER	1				

*NOT ILLUSTRATED

FIGURE 13

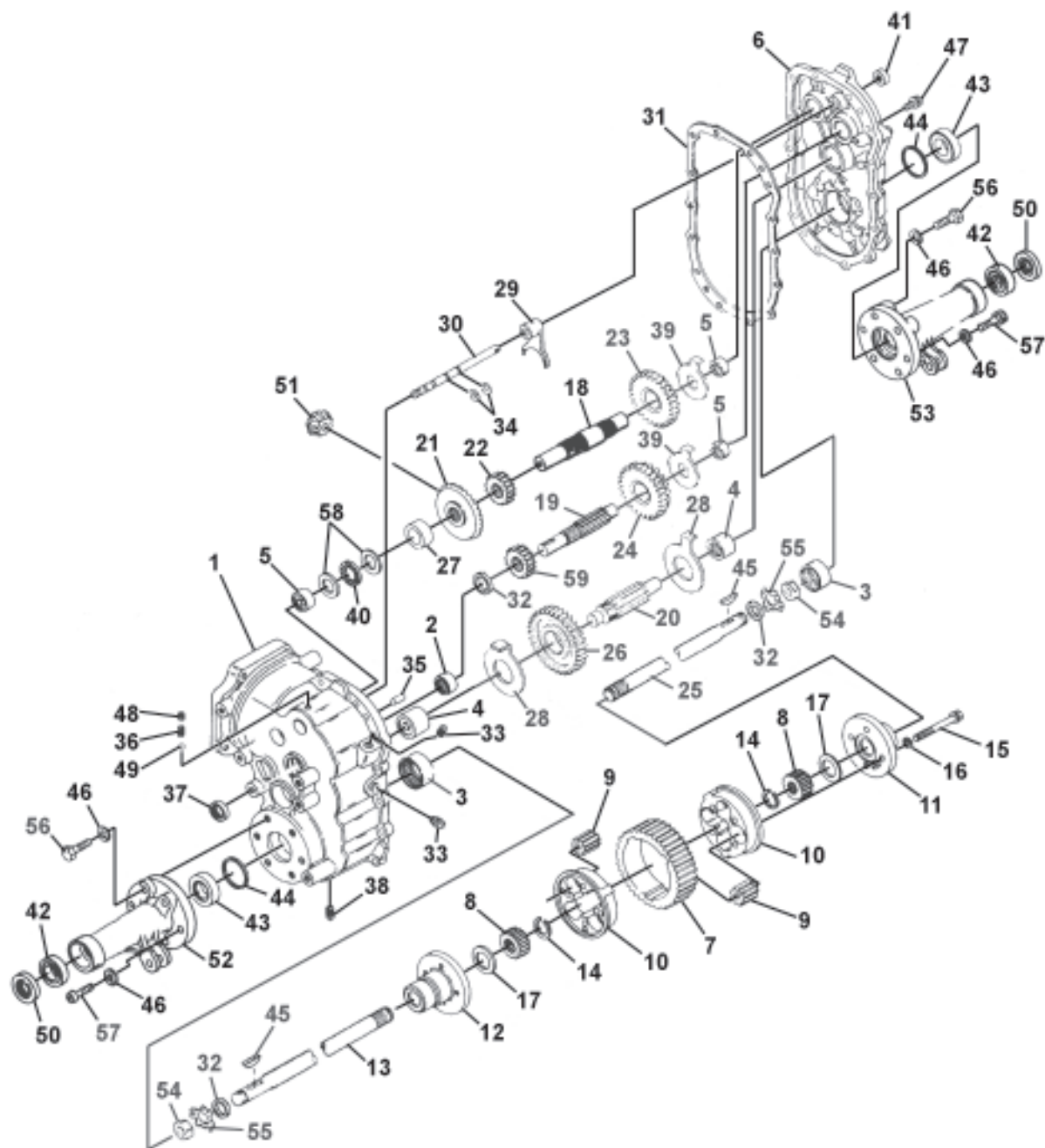


FIGURE 13

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
13-1	51-770060B	TRANSAXLE CASE (INCLUDES ITEMS 2-5)	1	13-42	51-780103	BEARING, AXLE	2
13-2	51-780097	NEEDLE BEARING	1	13-43	51-780104	THRUST BEARING	2
13-3	51-780098	NEEDLE BEARING	2	13-44	51-021	O-RING (788048)	2
13-4	51-780099	NEEDLE BEARING	2	13-45	85-W0417	WOODRUFF KEY	2
13-5	51-780100	NEEDLE BEARING	3	13-46	51-792066	LOCKWASHER, 1/2"	8
13-6	51-772065	TRANSAXLE COVER (INCLUDES ITEMS 3-5)	1	13-47	51-792067	SCREW, 5/16x1"	14
13-7	51-778084	RING GEAR	1	13-48	51-792068	DETENT SET SCREW	1
13-8	51-778085	SIDE GEAR	2	13-49	51-792004	DETENT BALL	1
13-9	51-778086	PINION GEAR	8	13-50	89-006	SEAL, AXLE	2
13-10	51-786054	CORE BODY	2	13-51	51-011	PINION GEAR (778093A)	1
13-11	51-774199	DIFFERENTIAL CARRIER	1	13-52	51-782040	AXLE HOUSING, LEFT	1
13-12	51-774200	DIFFERENTIAL CARRIER	1	13-53	51-782039	AXLE HOUSING, RIGHT	1
13-13	51-774444	AXLE, 18-7/32" LONG	1	13-54	53-019	JAM NUT, HEX	2
13-14	51-792062	SNAP RING	2	13-55	53-018	LOCK TAB	2
13-15	51-792063	DIFFERENTIAL BOLT	4	13-56	51-792065	BOLT, 1/2 UNCx1-1/2	4
13-16	51-792011	LOCKWASHER, 3/8"	4	13-57	51-792069	BOLT, 1/2x1-1/2" SHCS	4
13-17	51-780101	THRUST WASHER	2	13-58	51-780045	THRUST WASHER	2
13-18	51-776209	COUNTER SHAFT	1	13-59	51-778102	SPUR GEAR, 17 TEETH	1
13-19	51-776119	BRAKE SHAFT	1				
13-20	51-776120A	OUTPUT PINION	1				
13-21	51-778087	BEVEL GEAR, 30 TEETH	1				
13-22	51-778088	SPUR GEAR, 16 TEETH	1				
13-23	51-778099	SPUR GEAR, 20 TEETH	1				
13-24	51-778100	CLUSTER GEAR	1				
13-25	51-774445	AXLE, 16-17/32" LONG	1				
13-26	51-778103	OUTPUT GEAR, 33 TEETH	1				
13-27	51-786094	SPACER	1				
13-28	51-780156	THRUST WASHER, TAB	2				
13-29	51-784195	SHIFTER FORK	1				
13-30	51-784196A	SHIFTER ROD	1				
13-31	51-788047	GASKET-CASE & COVER	1				
13-32	51-780005	SPACER	3				
13-33	51-792010	PLUG-PIPE	2				
13-34	51-792064	SNAP RING	2				
13-35	51-786026	PIN-DOWEL	2				
13-36	51-792003	DETENT SPRING	1				
13-37	89-008	SEAL-OIL (788008)	1				
13-38	51-792019	DRAIN PLUG, MAGNETIC	1				
13-39	51-780157	THRUST WASHER, TAB	2				
13-40	51-780012	THRUST BEARING	1				
13-41	89-007	SEAL-OIL (788034)	1				

FIGURE 14

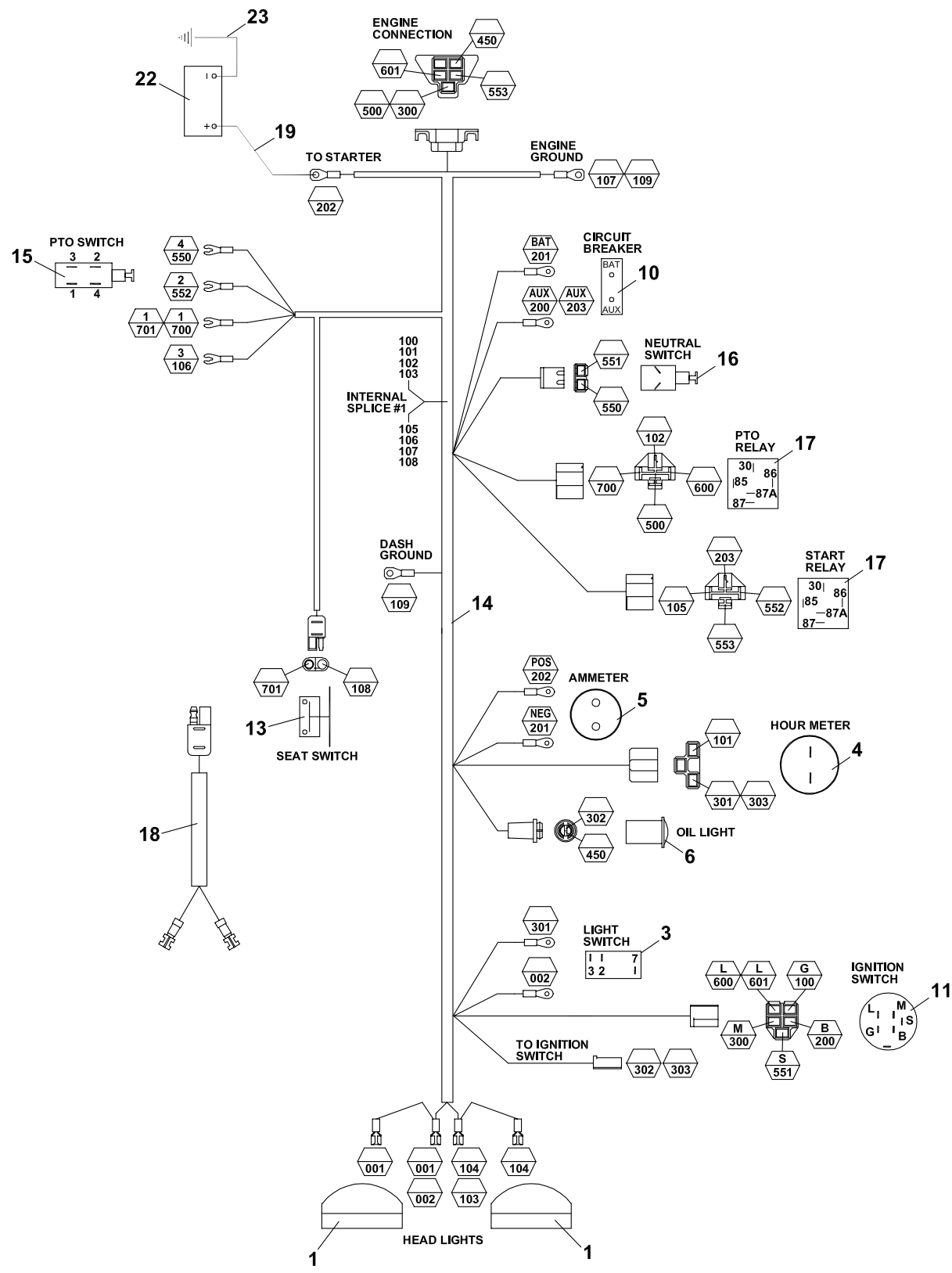


FIGURE 14

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
14-1	33-031	HEADLAMP	2	14-14	30-418	WIRE HARNESS, 415	1
14-2	4136723	GROMMET, 415 FRT HDLHT	2	14-15	31-011	PTO SWITCH	1
14-3	31-064	SWITCH, PUSH/PULL LIGHT	1	14-16	31-004	SWITCH, 2-TERMINAL	1
14-4	35-014	HOUR METER	1	14-17	35-067	RELAY	2
14-5	35-016	AMMETER	1	14-18	30-242	WIRE ASSY, SEAT SWITCH	1
14-6	33-045	OIL PRESS. LIGHT BULB	1	14-19	30-180	BATTERY CABLE, 29" RED	1
14-7 *	33-027	LENS, OIL PRESS. LIGHT	1	14-20 *	30-184	COVER, POS TERMINAL	1
14-8 *	33-030	NUT, 3/4-32 FOR OIL LIGHT	1	14-21 *	56-081	SLEEVING, 0.77 NYLON, 24"	1
14-9 *	33-029	LOCKWASHER, 3/4	1	14-22	33-020	BATTERY, TYPE 10U1L	1
14-10	30-059	CIRCUIT BREAKER	1	14-23	30-419	BATTERY CABLE, BLK 29"	1
14-11	31-033	IGNITION SWITCH	1	14-24 *	30-185	COVER, NEG TERMINAL	1
14-12 *	31-046	KEY, MOLDED	1				
14-13	158135-01	SWITCH-SEAT, NO	1				

* NOT ILLUSTRATED

ELECTRICAL CIRCUIT LEGEND			
#	GAUGE	COLOR	DESTINATION
001	16	YELLOW	HEADLIGHT TO HEADLIGHT
002	16	YELLOW	LIGHT SWITCH TO HEADLIGHT
100	16	BLACK	INTERNAL SPLICE #1 TO IGNITION SWITCH (G)
101	16	BLACK	INTERNAL SPLICE #1 TO HOUR METER
102	16	BLACK	INTERNAL SPLICE #1 TO PTO RELAY
103	16	BLACK	INTERNAL SPLICE #1 TO HEADLIGHT
104	16	BLACK	HEADLIGHT TO HEADLIGHT
105	16	BLACK	INTERNAL SPLICE #1 START RELAY
106	16	BLACK	PTO SWITCH TERMINAL 3 TO INTERNAL SPLICE #1
107	14	BLACK	ENGINE GROUND TO INTERNAL SPLICE #1
108	16	BLACK	INTERNAL SPLICE #1 TO SEAT SWITCH
109	16	BLACK	ENGINE GROUND TO DASH GROUND
200	14	RED	CIRCUIT BREAKER (AUX) TO IGNITION SWITCH (B)
201	14	RED/WHITE	CIRCUIT BREAKER (BAT) TO AMMETER (NEG)
202	14	RED	STARTER TO AMMETER (POS)
203	14	RED/WHITE	CIRCUIT BREAKER (AUX) TO START RELAY
300	16	WHITE	ENGINE CONNECTOR TO IGNITION SWITCH (M)
301	16	WHITE	HOUR METER TO LIGHT SWITCH
302	16	WHITE/RED	OIL LIGHT TO IGNITION SWITCH (UNMARKED)
303	16	WHITE/ORANGE	HOUR METER TO IGNITION SWITCH (UNMARKED)
450	16	PURPLE	ENGINE CONNECTOR TO OIL LIGHT
500	16	LT. BLUE	ENGINE CONNECTOR TO PTO RELAY
550	14	LT. GREEN	PTO SWITCH TERMINAL 4 TO NEUTRAL SWITCH
551	14	LT. GREEN/WHITE	NEUTRAL SWITCH TO IGNITION SWITCH (S)
552	14	LT. GREEN	PTO SWITCH TERMINAL 2 TO START RELAY
553	14	LT. GREEN/WHITE	ENGINE CONNECTOR TO SART RELAY
600	16	GREY	PTO RELAY TO IGNITION SWITCH (L)
601	16	GREY/WHITE	ENGINE CONNECTOR TO IGNITION SWITCH (L)
700	16	BROWN	PTO SWITCH TERMINAL 1 TO PTO RELAY
701	16	BROWN	PTO SWITCH TERMINAL 1 TO SEAT SWITCH

FIGURE 15

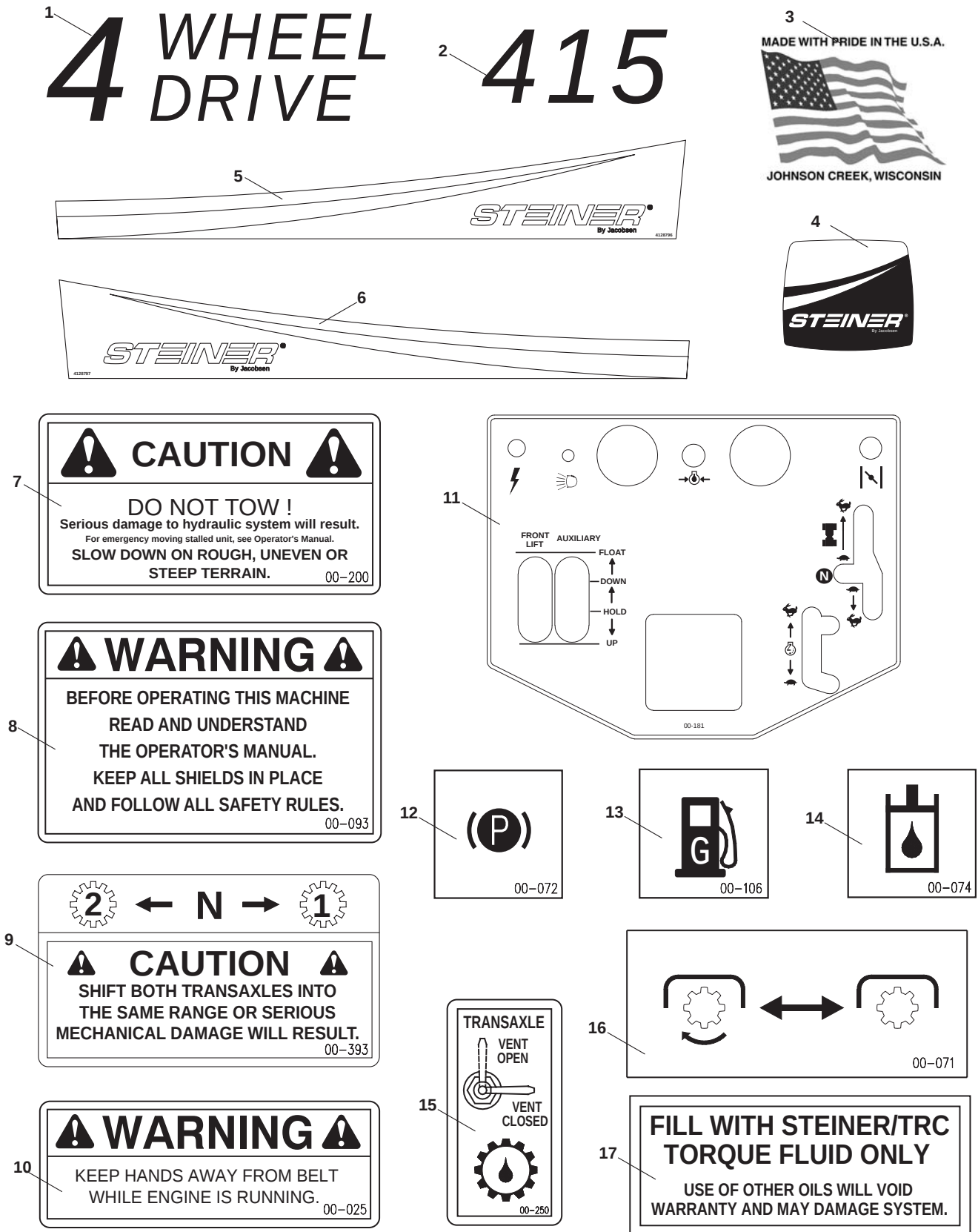
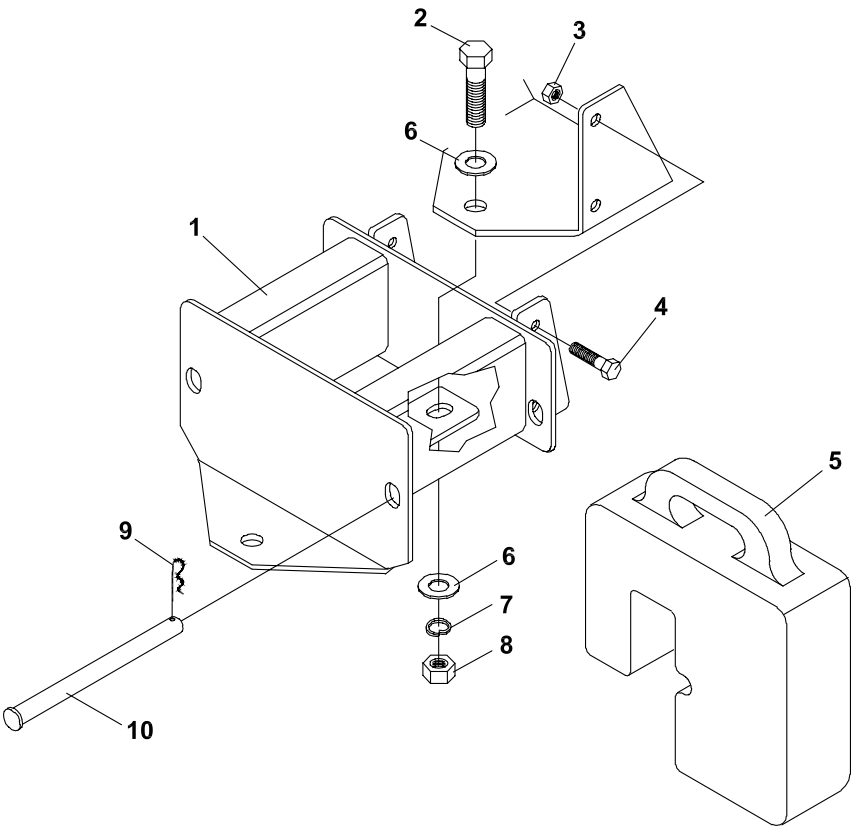


FIGURE 15

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
15-1	4128265	LABEL-4 WHEEL DRIVE (LOCATION: REAR FENDERS)	2	15-14	00-074	DECAL, HYDRAULIC OIL (LOCATION: REAR FENDER)	1
15-2	4128798	LABEL-415 (LOCATION: GRILLE SIDE PANELS)	2	15-15	00-250	DECAL, TRANSAXLE VENT (LOCATION: TRANSAXLE VENT VALVE)	1
15-3	4116761	LABEL-MADE IN USA (LOCATION: SIDE OF DASH)	1	15-16	00-071	DECAL, PTO CLUTCH (LOCATION: PTO LEVER)	1
15-4	4128434	LABEL-EMBLEM, STEERING (LOCATION: CENTER OF STEERING WHEEL)	1	15-17	00-060	DECAL, FLUID FILL (LOCATION: REAR OF FUEL TANK)	1
15-5	4128796	LABEL-415 HOOD, RH (LOCATION: RIGHT SIDE OF HOOD)	1				
15-6	4128797	LABEL-415 HOOD, LH (LOCATION: LEFT SIDE OF HOOD)	1				
15-7	00-200	DECAL, CAUTION TOW (LOCATION: STEERING COLUMN)	1				
15-8	00-093	DECAL, READ MANUAL (LOCATION: REAR MOTOR SHIELD)	1				
15-9	00-393	DECAL, TRANSAXLE SHIFT (LOCATION: TRANSAXLE SHIFT LEVERS)	2				
15-10	00-025	DECAL, HANDS/BELT (LOCATION: FRONT GRILLE)	1				
15-11	00-181	DECAL, DASH 415 (LOCATION: DASH PANEL)	1				
15-12	00-072	DECAL, PARKING BRAKE (LOCATION: PARKING BRAKE LEVER)	1				
15-13	00-106	DECAL, GASOLINE (LOCATION: FUEL TANK FILLER)	1				

FIGURE 16

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
16-1	62-880	FRAME, WEIGHTBAR	1	16-6	94-10	FLAT WASHER, 5/8 USS	2
16-2	90-1014	BOLT, 5/8-11 X 1-3/4 NC	1	16-7	64006-04	LOCKWASHER-HELICAL 5/81	
16-3	64141-4	NUT-WLF 3/8-16	4	16-8	64025-21	NUT-HEX 5/8-11	1
16-4	64139-24	BLT-WLF 3/8-16 X 1	4	16-9	02-PP0420	PRESTO PIN, 1/8 X 2-9/16	2
16-5	62-540	WEIGHT, 50#	4	16-10	03-1060	CLEVIS PIN, 5/8 X 7-1/2 ZP	2



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