



MODELS:

235 FRONT WHEEL DRIVE TRACTOR

75-70282

25HP KUBOTA DIESEL

235 FRONT WHEEL DRIVE TRACTOR

75-70283

35HP B&S GAS

PARTS MANUAL

MAN 4165181
Rev.B 02-2011

OPERATOR'S MANUAL 4165182



www.steinerturf.com

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.

CALIFORNIA
Proposition 65 Warning

Battery posts, terminals, wiring insulation, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
WASH HANDS AFTER HANDLING.

IMPORTANT MESSAGE

Thank you for purchasing this Schiller Grounds Care, Inc. 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 Schiller Grounds Care, Inc. 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 Schiller Grounds Care, Inc. dealer for any service or parts needed. Schiller Grounds Care, Inc. service ensures that you continue to receive the best results possible from Schiller Grounds Care, Inc. products. You can trust Schiller Grounds Care, Inc. replacement parts because they are manufactured with the same high precision and quality as the original parts.

Schiller Grounds Care, Inc. 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.

Schiller Grounds Care, Inc.

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.

Schiller Grounds Care, Inc. strongly warns against, rejects and disclaims any modifications, add-on accessories or product alterations that are not designed, developed, tested and approved by Schiller Grounds Care, Inc.'s Engineering Department. Any Schiller Grounds Care, Inc. 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 Schiller Grounds Care, Inc.—will result in the Schiller Grounds Care, Inc. 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 Schiller Grounds Care, Inc. will be considered the responsibility of the individual(s) or company designing and/or making such changes. Schiller Grounds Care, Inc. 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 Schiller Grounds Care, Inc. 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.

Schiller Grounds Care, Inc.

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Johnson Creek, WI 53038 U.S.A.
Phone: 920-699-2000
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MODEL NUMBER

SERIAL NUMBER

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 1A

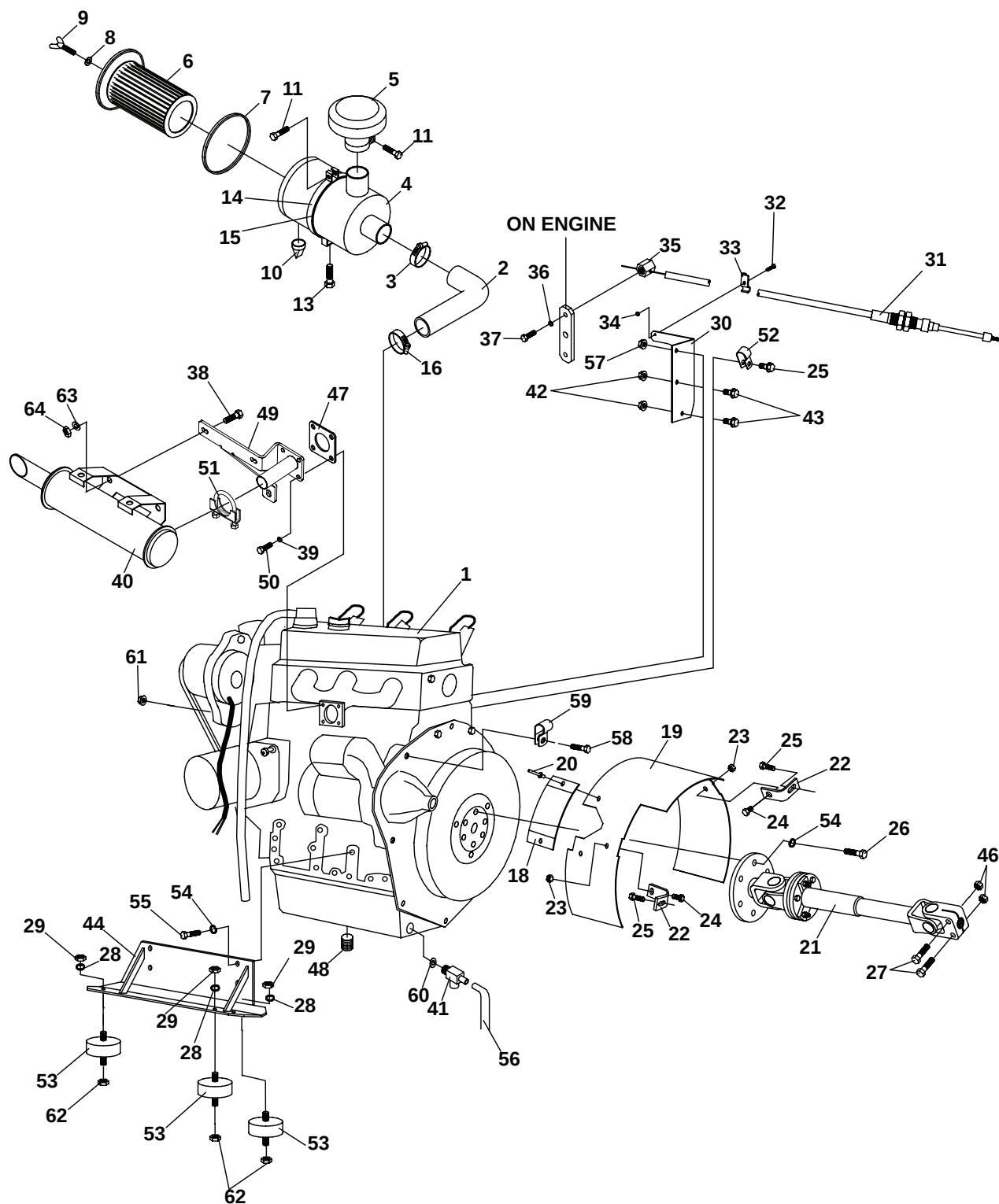


FIGURE 1A

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	13-114	ENGINE, KUBOTA D1105	1	32	64152-49	SCRW-SLT HH 10-24X3/4	
	*13-15862-12310	MANIFOLD		1			
	*13-16271-32090	OIL FILTER		33	111898	CLAMP,CABLE	1
	*13-16241-74112	FAN		34	64025-15	NUT-HEX #10-24 KEPS	1
	*13-16241-97010	FAN BELT		35	172084	CLAMP-THROTTLE	1
	*13-16217-74250	PULLEY, FAN		36	64006-02	LOCKWASHER-5/16	1
	*13-16261-74151	SPACER, FAN		37	64123-59	BLT-HEX 5/16-24X1/2	1
	*64251-002	WASHER-M6		38	64139-08	BOLT-5/16-18X3/4 WLF	2
	*64205-025	BLT-MET M6-1.00X25		39	64006-02	LOCKWASHER 5/16	4
	*13-70000-73274	KIT-BLOCK HEATER		40	4165605	MUFFLER	1
	*13-70000-91515	REPLACEMENT CORD		41	13-029	VALVE-OIL DRAIN	1
2	13-111	HOSE, AIR CLEANER	1	42	64141-4	NUT-WLF 3/8-16	2
3	13-15401-11720	HOSE CLAMP	1	43	64197-022	BLT-TDFM 3/8-16X3/4	2
4	13-16616-11010	ASSY-AIR CLEANER	1	44	4165017.7	BRKT, RH ENGINE MNT	1
	(INCLUDES ITEMS 5-12)			45	*4164979.7	BRKT, LEFT ENGINE MNT	1
5	13-16616-11350	ASSY-CAP	1	46	64229-03	NUT-NYLOCK 3/8-16	2
6	13-15741-11080	ELEMENT-AIR CLNR	1	47	13-15263-12370	EXHAUST GASKET	1
7	13-15741-11170	GASKET	1	48	89-014	PLUG, OIL DRAIN	1
8	13-15741-94430	ASSEMBLY GASKET	1	49	4165727.7	BRKT -MUFF MNT	1
9	13-15741-92620	WING BOLT	1	50	64205-001	BLT-MET M8-1.25X20	4
10	13-15741-11470	VALVE	1	51	4165922	CLAMP-MUFFLER 1-5/8	1
11	01123-50835	BOLT	2	52	48228A	CLAMP, INSULATED	3
12*	16271-87450	LABEL	1	53	05-006	ISOLATOR-ENG MOUNT	6
13	01123-50814	BOLT	1	54	64006-18	LOCKWASHER,10MM	14
	(ITEMS 11-13 ARE AVAILABLE FROM KUBOTA)			55	64206-11	BOLT-HEX M10X20	8
14	13-15000-36930	BAND-AIR CLEANER	1	56	27-017	HOSE-3/8 6.5"	1
15	13-15000-36920	CUSHION	1	57	64141-2	NUT-WLF 1/4-20	1
16	13-15221-11720	HOSE CLAMP	1	58	64263-007	BLT-FLG M8-1.25-20	1
17	*1116	GUARD, STARTER ASSY		59	48228-1A	CLAMP-INSULATED	1
1				60	05-037	WSHR-.875 X.5 X .015	2
	(INCLUDES ITEMS 18-20)			61	64207-09	NUT-M10-1.25	1
18	4164999.7	GUARD, FLYWHEEL	1	62	64268-03	NUT-FL LOCK 3/8-16	6
19	14-105.7	GUARD, FLYWHEEL	1	63	64163-29	WSHR-21/64X1X11GA	2
20	64215-04	RIVET-POP IFI# 42	2	64	64151-18	NUT-HEX 3/8-16 CTRLK	2
21	4131504	DRIVE SHAFTKUBOTA	1				
22	64-913.7	ANGLE, SHIELD MOUNT	2				
23	64141-6	NUT, 5/16-18	2				
24	64139-13	BLT-WLF 5/16-18X1/2	4				
25	64139-04	BOLT-WLF 1/4-20X3/4	3				
26	64206-04	BLT-MET M10-1.25X25	6				
27	64123-87	BOLT-HEX 3/8-16X1-3/4	2				
28	64006-03	WASHER, 3/8 HEL LCK	6				
29	64025-05	NUT-3/8-16 HEX	6				
30	4137142.7	MOUNTING BRKT, PIVOT					
1							
31	4137515	THROTTLE CABLE	1				

* NOT ILLUSTRATED

FIGURE 1B

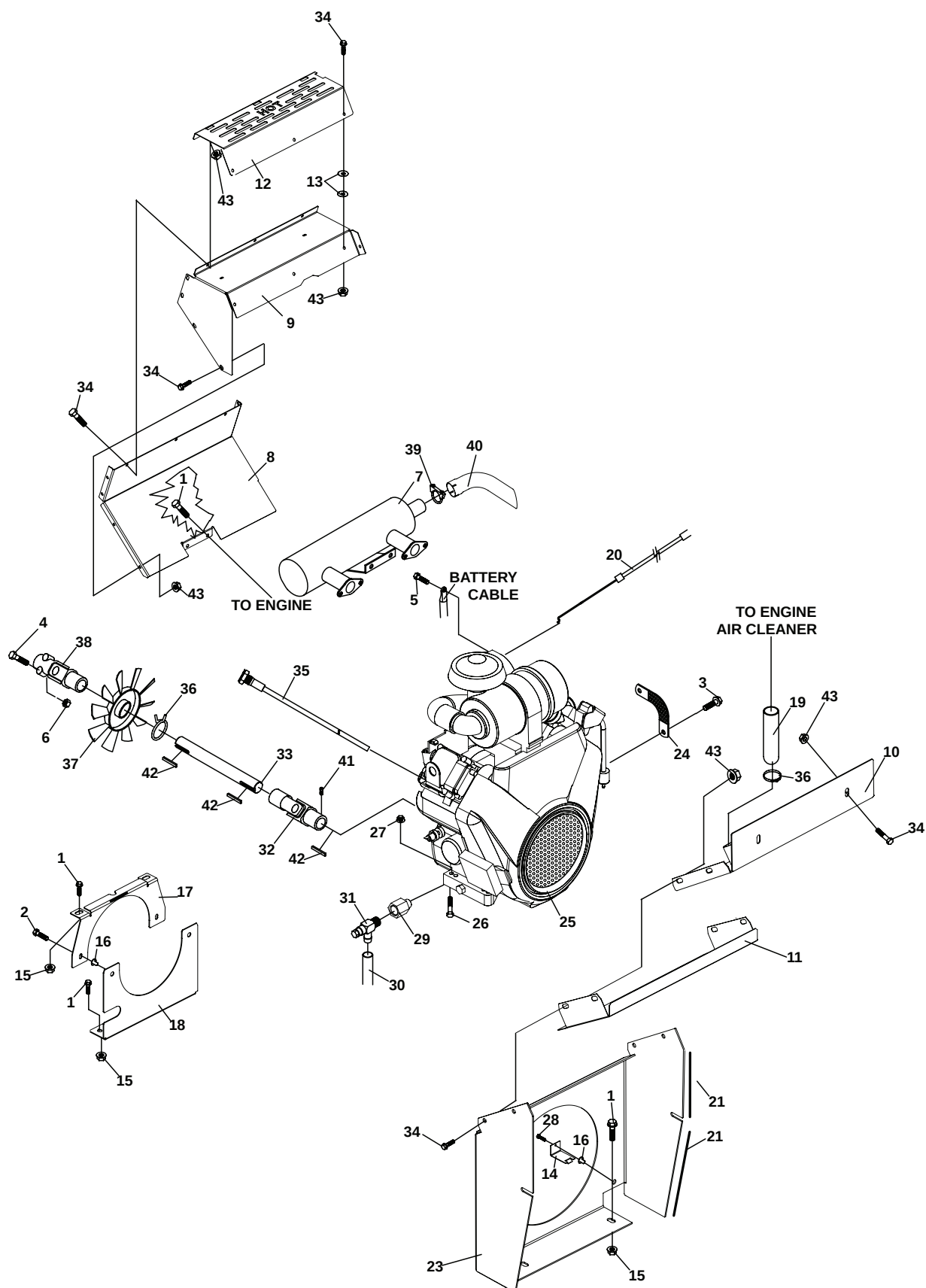


FIGURE 1B

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	64139-21	BLT-WLF 3/8-16X3/4	8				
2	64139-04	BLT-WLF 1/4-20X3/4	2				
3	64197-001	BLT-TDFM 5/16-18X3/4	1				
4	64123-87	BLT-HEX 3/8-16X1 3/4	2				
5	64139-01	BLT-WLF 5/16-24X3/4	1				
6	64229-03	NUT- 3/8-16 HEX NYLOCK	2				
7		MUFFLER-B&S					
		(SEE BRIGGS & STRATTON DEALER)					
8	4165621.7	DUCT-ENG HEAT FRONT	1				
9	4165622.7	DUCT-ENG HEAT TOP	1				
10	4165673.7	WLDMT-SHROUD TOP	1				
11	4165589.7	SCREEN-AIR CLEANER,GAS	1				
12	4165704.7	GUARD-MUFFLER, TOP	1				
13	64163-29	WSHR-21/64X1X11GA	4				
14	4165732.7	BRKT-CLEAN OUT	1				
15	64141-4	NUT-WLF 3/8-16	6				
16	04-009	INSERT 1/4-20	3				
17	4165941.7	SHROUD-FAN, TOP	1				
18	4165942.7	SHROUD-FAN, BOTTOM	1				
19	4165711	HOSE-AIR INTAKE	1				
20	47-159	CABLE-THROTTLE 107 IN	1				
21	56-027	TRIM-TRIM LOC 9 1/2"	4				
22	108194-24	CHANNEL-FLEX TRIM SEAL	1				
23	4165501.7	SHROUD-BRIGGS	1				
24	30-291	GROUND STRAP	1				
25	4165510	ENGINE-B&S 35HP	1				
		(SERVICE PARTS AVAILABE AT B&S DEALER)					
26	64123-56	BLT-HEX 5/16-18X2	4				
27	64268-02	NUT-FK NYLOC 5/16-18	4				
28	47-077	KNOB-SMALL CLAMPING	1				
29	4166110	ADAPTOR-M14X1.5 / 3/8 NPT	1				
30	138058-11	HOSE-1/2" PUSH LOCK 7"	1				
31	13-075	VALVE-OIL DRAIN 3/8NPT	1				
32	87-151	U-JOINT, 1" X 1-1/8"	1				
33	4165612	DRIVESHAFT-35HP B&S	1				
34	64139-08	BLT-5-16-18X3/4 WLF	15				
35	4165665	CABLE-CHOKE, 90 IN	1				
36	11-029	CLAMP-HOSE 1-1/16"	2				
37	87-114	FAN-PUMP COOLING 1" ID	1				
38	87-194	U-JOINT	1				
39	4165922	CLAMP-MUFFLER 1-5/8'	1				
40	4165613.8	PIPE-EXHAUST	1				
41	64044-3	SCREW-SET, 3/8-16	6				
42	64164-12	KEY- 1/4X1/4X1	3				
43	64141-6	NUT-WLF 5/16-18	15				

This technical drawing is an exploded view of a mechanical assembly, showing various components and their assembly relationships. The parts are numbered as follows:

- 1**: Main housing or frame.
- 2**: Small circular component, possibly a cap or plug.
- 3**: Large circular component, likely a door or cover.
- 4**: Small circular component, possibly a cap or plug.
- 5**: Small cylindrical component, possibly a pin or bush.
- 6**: Small cylindrical component, possibly a pin or bush.
- 7**: Long, thin rectangular component, possibly a base plate or support.
- 8**: Curved component, possibly a bracket or arm.
- 9**: Curved component, possibly a bracket or arm.
- 10**: Vertical rectangular component, possibly a side plate or support.
- 11**: Large rectangular component with internal structure, possibly a main body or cover.
- 12**: Vertical rectangular component, possibly a side plate or support.
- 13**: Long, thin rectangular component, possibly a base plate or support.
- 14**: Small rectangular component, possibly a bracket or arm.
- 15**: Small rectangular component, possibly a bracket or arm.
- 16**: Small rectangular component, possibly a bracket or arm.
- 17**: Small rectangular component, possibly a bracket or arm.
- 18**: Small circular component, possibly a cap or plug.
- 19**: Small circular component, possibly a cap or plug.
- 20**: Small circular component, possibly a cap or plug.
- 21**: Small circular component, possibly a cap or plug.
- 22**: Small circular component, possibly a cap or plug.
- 23**: Small rectangular component, possibly a bracket or arm.
- 24**: Small rectangular component, possibly a bracket or arm.
- 25**: Small cylindrical component, possibly a pin or bush.
- 26**: Small cylindrical component, possibly a pin or bush.
- 27**: Small rectangular component, possibly a bracket or arm.
- 28**: Small circular component, possibly a cap or plug.
- 29**: Small rectangular component, possibly a bracket or arm.
- 30**: Small rectangular component, possibly a bracket or arm.
- 31**: Small circular component, possibly a cap or plug.
- 32**: Small cylindrical component, possibly a pin or bush.

FIGURE 2

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	13-16625-72060	RADIATOR	1				
2	13-15272-72021	CAP-RADIATOR	1				
3	13-16626-72330	FAN SHROUD	1				
4 *	13-16616-74120	SCREEN-RAD FAN	1				
5	13-15111-72200	WASHER-CUPPED	4				
6	13-5111-72181	BUSHING-UPPER	2				
7	14-117.7	MOUNT, RADIATOR	1				
8	13-16626-72851	HOSE-LOWER RAD	1				
9	13-16626-72940	HOSE-UPPER RAD	1				
10	4165285.7	MOUNT, RAD SCREEN RH	1				
11	62-851.7	RADIATOR SCREEN	1				
12	4165284.7	MOUNT, RAD SCREEN LH	1				
13	4165286.7	BAFFLE, HOOD	1				
14	64-910.7	MOUNT, RESERVOIR	1				
15 *	99-K14	SCREW 5/16X1/2	1				
16 *	64141-6	NUT, 5/16-18	1				
17	13-036	BOTTLE-COOLANT W/CAP	1				
18	11-025	CLAMP-HOSE	4				
19	64141-4	NUT-WLF 3/8-16	2				
20	64163-03	WSHR-256IDX.62ODX18GA	6				
21	11-049	CLAMP-HOSE	1				
22	64139-02	BLT-WLF 1/4-20 X 1/2	4				
23	56-034	VINYL TUBE, 12"	1				
24	64141-2	NUT-WLF 1/4-20	4				
25	13-15111-72191	BUSHING-LOWER	2				
26	64139-21	BLT-WLF 3/8-16X3/4	2				
27	56-068	TRIM SEAL, 14"	2				
28	64205-013	BOLT-MET M6-1X12	6				
29	07-0812515	BOLT-MET M8-1.25X15	2				
30	108194-06	TRIM-CHANNEL FLEX 25.5"	1				
31	64006-01	LCKWSHR-1/4 HELICAL	6				
32	13-66711-51340	BOLT-RADIATOR MNT	2				

* NOT ILLUSTRATED

FIGURE 3

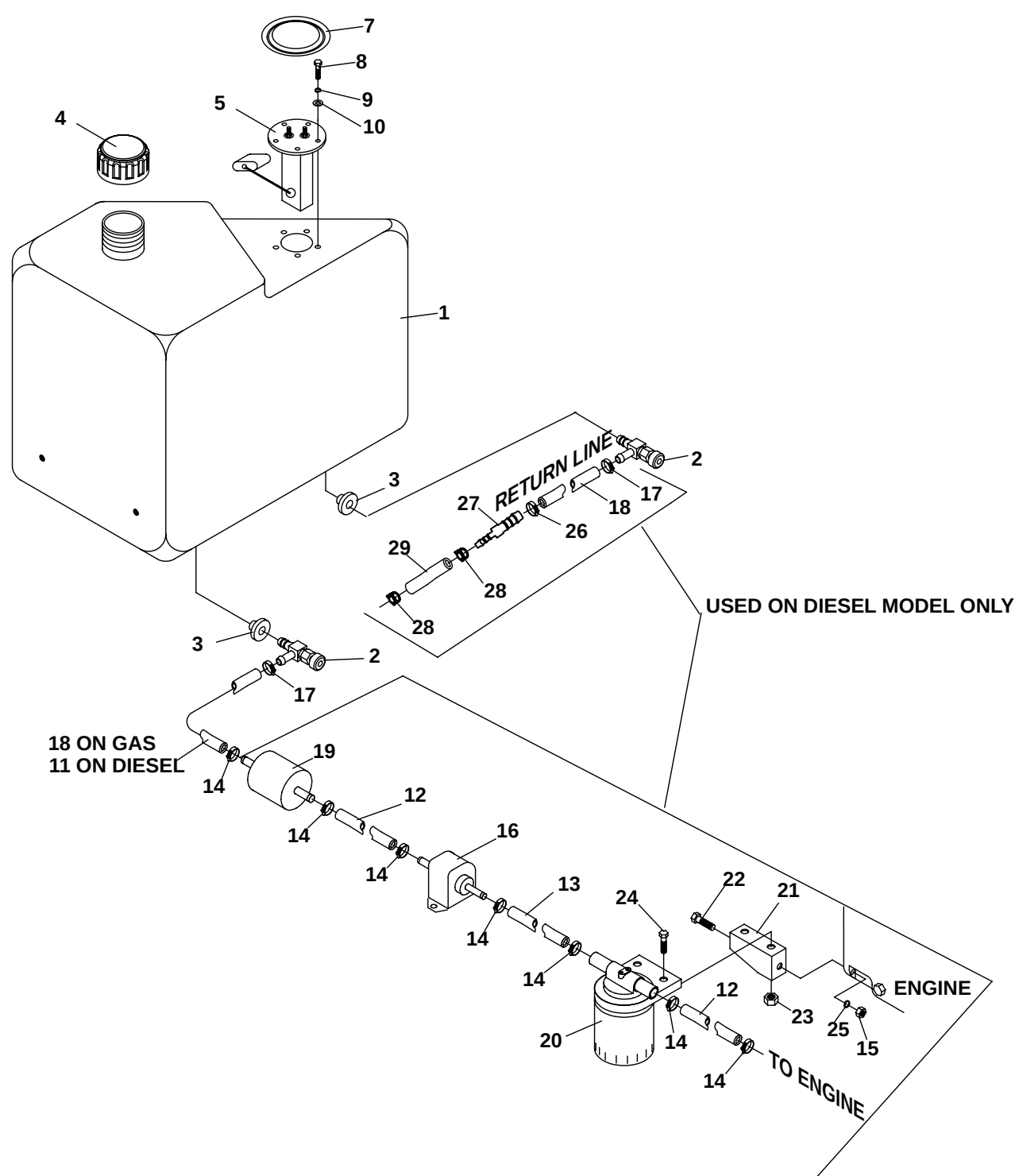


FIGURE 3

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	06-027	TANK, MOLDED PLASTIC (INCLUDES ITEMS 2 & 3)	1				
2	13-151	VALVE-FUEL SHUT-OFF	2				
3	13-127	BUSHING, FUEL TANK	2				
4	47-119	CAP, FUEL TANK	1				
5	4165402	SENDER, FUEL	1				
6	* 35-086	GASKET, FUEL LEVEL SND	1				
7	4138156	CAP, 230 FUEL SENDER	1				
8	64152-10	10-24X3/4 MACH SCREW	5				
9	120052	LCKWSHR .194.337.047	5				
10	64163-60	WASHER .50X.203X18GA	5				
(4162978-005 IS A SERVICEABLE LENGTH OF 27")							
11	4162978-005	HOSE, 5/16 FUEL LINE, 19"	1				
12	4162978-005	HOSE, 5/16 FUEL LINE, 12"	1				
13	4162978-005	HOSE, 5/16 FUEL LINE, 23"	1				
14	88042-02	CLAMP-HOSE 5/16	7				
15	64025-02	NUT-HEX 5/16-18	1				
16	13-68371-51211	FUEL PUMP-ELECTRIC	1				
17	11-017	HOSE CLAMP, SMALL	3				
18	4162977-003	HOSE, 1/4 FUEL LINE, 60"	1				
19	13-021	FUEL FILTER	1				
20	13-70000-43081	FUEL FILTER	1				
21	64-800.7	BRKT, FUEL FILTER MNT	1				
22	64123-47	BLT-HEX 5/16-18X1-1/4	1				
23	64141-6	NUT, 5/16-18	2				
24	64139-08	BOLT-5/16-18X3/4 WLF	2				
25	64006-02	LCKWSHR-HELICAL 5/16	1				
26	88042N	HOSE CLAMP	1				
27	4165864	FITTING-HOSE, 1/4" TO 3/16"	1				
28	88042-01	CLAMP-HOSE 3/16	2				
29	4162989-001	HOSE, FUEL LINE 8 INCH	1				

* NOT ILLUSTRATED

FIGURE 4

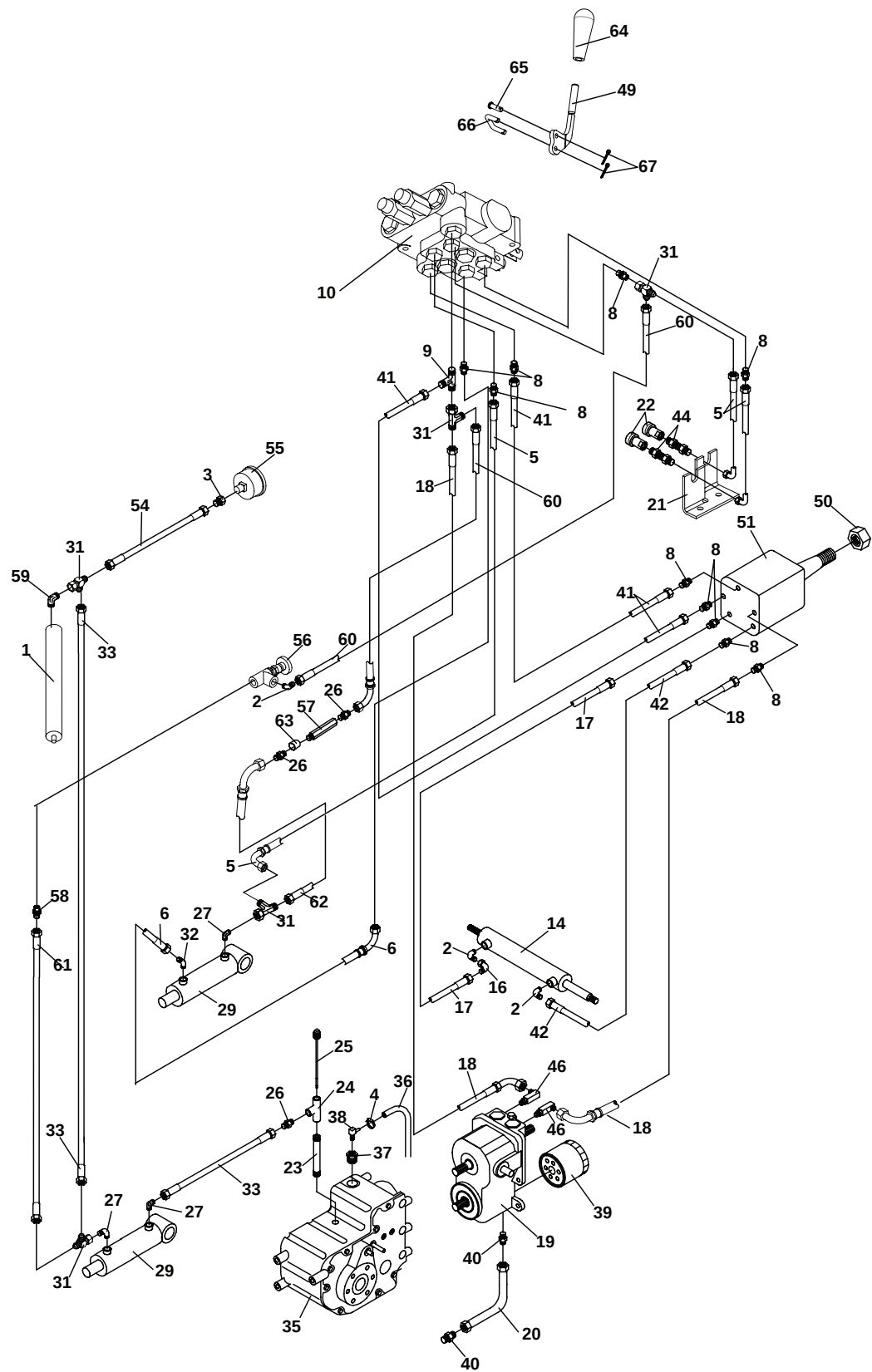


FIGURE 4

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	23-225	ACCUMULATOR-ZIN BORE	1	50	64001-1	NUT-HEX JAM,5/8-18	1
2	25-2103-4-6	FITTING, 90	3	51	23-056	VALVE-STEERING 5 PORT	1
3	25-0203-4-6	FTG-M/F 9/16 JICX1/4 NPTF	1	52 *	21-402405	SEAL-POST, OUTER	1
4	88042N	CLAMP-HOSE	1	53 *	21-478046	SEAL-FACE	1
5	20-135	HOSE, 1/4 X 19	3	54	4156201	HOSE-1/4X14.5"	1
6	4132021	HOSE, 1/4 X 14.5	1	55	35-072	GAGE-PRESSURE 1500PSI	1
7*	15-015	TRANS-HYD. OIL 3.5 GAL		56	23-043	CONTROL-VALVE NEEDLE	1
8	25-0503-6-6	FITTING, O-RING	10		23-FC7369	KNOB-VALVE CONTROL	
9	25-053T-6-6	FITTING, TEE	1	57	23-048	VALVE-RELIEF	1
10	4166549	VALVE-2-SPOOL	1	58	25-0103-4-6	FTG-9/16 JIC X 1/4 NPTF	1
11*	23-30029249	SEAL KIT, 3-SPOOL VLV	1	59	25-2503-8-6	FTG-1/2ORBx9/16 JIC	1
12*	23-1607-11	DETENT, SPOOL	1	60	20-046	HOSE-1/4X13 100RI #6 JIC	2
13*	23-041	KIT-DETENT FOR DUKES	1	61	20-006	HOSE	1
14	4132321	STEERING CYLINDER, 2X4	1	62	20-217	HOSE-1/4X20 100RI #6 JIC	1
15*	21-0A002813	SEAL KIT, CYLINDER	1	63	29-044	COUPLING-PIE 3/8 NPT	1
16	25-3903-6-6	FITTING-90 SWIVEL	1	64	47-114	KNOB-TAPERED, 3.8-16	2
17	20-018	HOSE, 1/4 X 75	1	65	64188-72	PIN-CLEVIS 1/4X.77	2
18	4132940	HOSE, 3/8 X 26	2	66	4166493	LINK-HYDRO LEVER	2
19	21-076	PUMP, SUNDSTRAND	1	67	64140-12	COTTER PIN 3/32X1/2	4
20	23-042	TUBE, STEEL HYD OIL	1	68*	4166553	KIT-VALVE HANDLES	
21	60-656.7	BRKT-QUICK COUPLER	1			(INCLUDES ITEMS 48, 49, 64-67)	
22	23-003	COUPLER, FEMALE	2				
23	29-116	PIPE NIPPLE, 3/8 NPT X 8	1				
24	29-070	PIPE TEE, 3/8	1				
25	24-046	DIPSTICK, 230 TRANSAXLE	1				
26	25-0103-6-6	FITTING-9/16 JICx3/8 NPTF	3				
27	25-2103-6-6	FITTING, 90	2				
28*	15-012	TRANS-HYD. OIL QT					
29	23-005	CYLINDER	2				
30*	21-13909X	SEAL KIT, LIFT CYLINDER	1				
31	25-063T-6-6	TEE, NUT RUN SWIVEL	5				
32	25-3103-6-6	FITTING, 45	2				
33	20-026	HOSE, 1/4 X 17	2				
34*	4168413	DUST PLUG	2				
35	51-022	TRANSAXLE, W/DIFF LOCK	1				
36	4163464	TUBE-VACUUM 48"	1				
37	29-081	REDUCER, 3/4X1/8	1				
38	29-047	VALVE	1				
39	21-077	FILTER	1				
40	25-0503-10-10	FITTING, O-RING	2				
41	20-077	HOSE, 3/8 X 19	2				
42	20-049	HOSE, 1/4 X 84	1				
43*	21-401443X1	KIT-SPRING, STEERING	1				
44	25-2706-4-6	FITTING	2				
45*	21-SK000011	KIT-SEAL, STEERING VLV	1				
46	25-6801-LL-6	FITTING, 90 EX-LONG	2				
47*	21-061015	BUSHING, PLASTIC	1				
48*	4166546	HANDLE-VALVE LH	1				
49	4166497	HANDLE-VALVE RH	1				

* NOT ILLUSTRATED

FIGURE 5

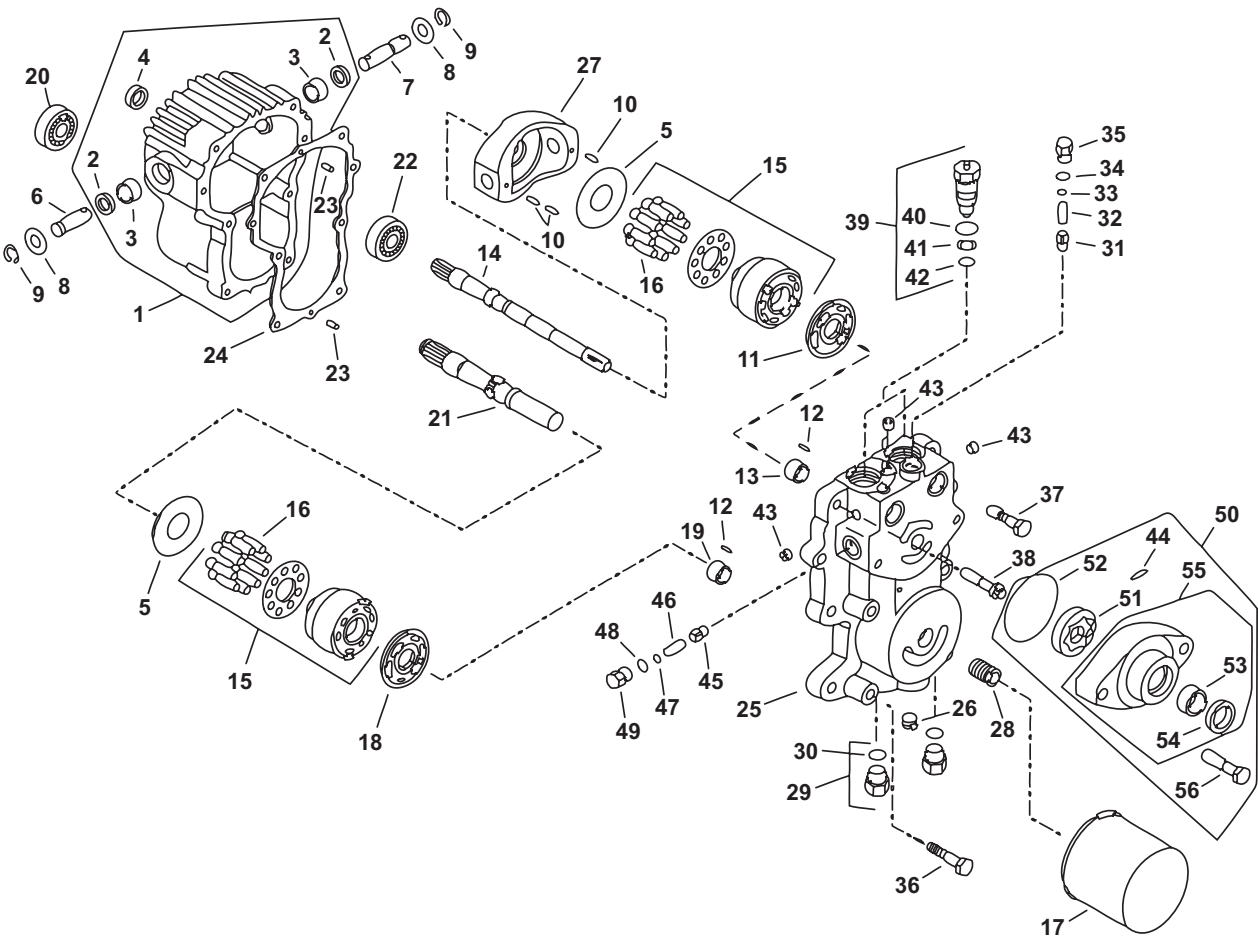


FIGURE 5

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	21-3103345	HOUSING (INCLUDES ITEMS 2-4)	1	45	21-3100053	CHARGE RELIEF CONE	1
2	21-9008000-	6701 LIP SEAL	2	46	21-3101536	CHARGE RELIEF SPRING	1
3	21-3103343	BEARING	2	47	21-9510447	SHIM KIT	1
4	21-5000174	LIP SEAL	1	48	21-9004201-3100	O-RING	1
5	21-3102020	THRUST PLATE	2	49	21-3100055	PLUG	1
6	21-3101045	TRUNNION SHAFT	1	50	21-9510405-0005	CHARGE PUMP KIT (INCLUDES ITEMS 51-56)	1
7	21-3101703	TRUNNION SHAFT	1	51	21-3103107	GEROTOR ASSEMBLY	1
8	21-9009625-6904	WASHER	2	52	21-9004100-0360	O-RING	1
9	21-9006320-0069	RETAINING RING	2	53	21-9001355-0005	NEEDLE BEARING	1
10	21-9004690-1910	SPRING PIN	3	54	21-9008000-0100	LIP SEAL	1
11	21-3103521	VALVE PLATE	1	55	21-9510497-0004	KIT-CHARGE PUMP (INCLUDES ITEMS 53 & 54)	1
12	21-9004800-1508	PIN	2	56	21-9007200-4428	HEX HEAD SCREW	2
13	21-9001355	ROLLER BEARING	1	57	*71-009	TOOL-SPRING COMPRESS (USED TO SERVICE ITEM 15)	1
14	21-3103304	PUMP SHAFT	1	* NOT ILLUSTRATED			
15	21-3103136	CYLINDER BLOCK KIT	2				
16	21-9510621	PISTON ASSEMBLY	18				
17	21-077	FILTER	1				
18	21-3102687	VALVE PLATE	1				
19	21-9001355-0005	ROLLER BEARING	1				
20	21-9001310-0008	ROLLER BEARING	1				
21	21-3103522	MOTOR SHAFT	1				
22	21-9001310-0001	BALL BEARING	1				
23	21-9004800-2506	PIN	2				
24	21-3102875	GASKET	1				
25	21-3103179	CENTER SECTION	1				
26	21-9005215-6200	PLUG	1				
27	21-3102029	SWASHPLATE	1				
28	21-3101069	FILTER UNION	1				
29	21-9005100-7500	PLUG (INCLUDES ITEM 30)	2				
30	21-9004201-5000	O-RING	2				
31	21-3100053	IMPLEMENT RELIEF CONE	1				
32	21-3102301	IMPLEMENT REL SPRING	1				
33	21-9510447	SHIM KIT	1				
34	21-9004201-3100	O-RING	1				
35	21-3100055	PLUG	1				
36	21-9007200-3728	HEX HEAD SCREW	4				
37	21-9007200-3724	HEX HEAD SCREW	2				
38	21-9007500-3722	12 POINT SCREW	2				
39	21-3103132	CHECK VALVE ASSEMBLY (INCLUDES ITEMS 40-42)	2				
40	21-9004201-6200	O-RING	2				
41	21-9006110-0160	BACK-UP RING	2				
42	21-9004100-0160	O-RING	2				
43	21-9005001-1200	PIPE PLUG	4				
44	21-9004875-0076	PIN	1				

FIGURE 6

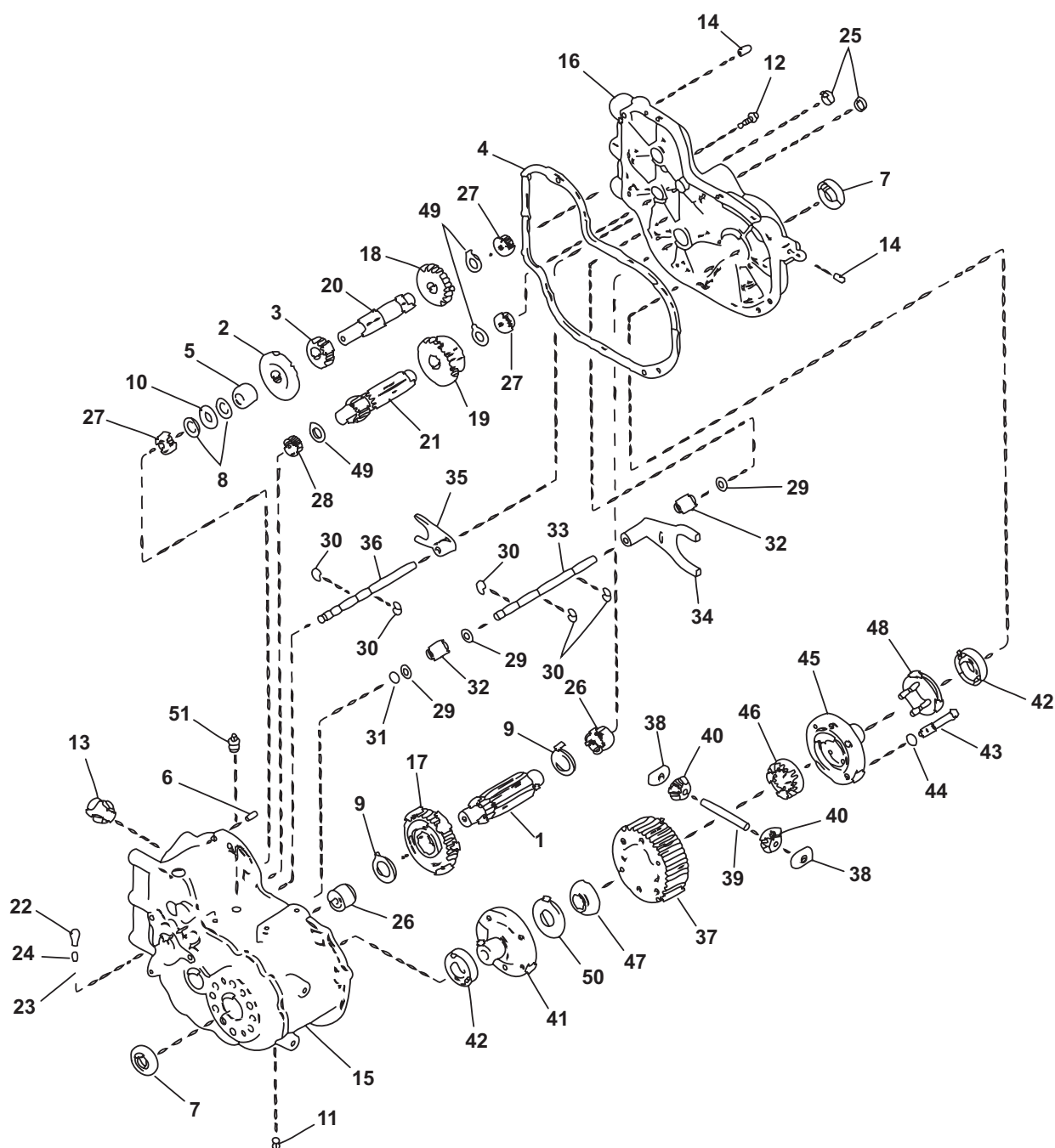


FIGURE 6

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	51-776120A	OUTPUT PINION	1	43	51-792101	BOLT, FLNGD, 3/8X2-3/4	6
2	51-778087	BEVEL GEAR, 30 TEETH	1	44	99-G01	LOCKWASHER, 3/8	6
3	51-778088	SPUR GEAR, 16 TEETH	1	45	51-774487	DIFFERENTIAL CARRIER	1
4	51-788058B	GASKET, CASE & COVER	1	46	51-778159	BEVEL GEAR	1
5	51-786094	SPACER	1	47	51-778158	BEVEL GEAR	1
6	51-786026	PIN, DOWEL	2	48	51-784325A	SHIFT COLLAR ASSEMBLY	1
7	89-006	SEAL, AXLE (788049)	2	49	51-780157	THRUST WASHER, TABBED	3
8	51-780045	THRUST WASHER	2	50	51-780130	THRUST WASHER	1
9	51-780156	THRUST WASHER, TABBED	2	51	29-049	PIPE PLUG, 3/8	1
10	51-780012	THRUST BEARING	1				
11	51-792019	MAGNETIC DRAIN PLUG	1				
12	51-792067	SCREW, 5/16 X 1"	13				
13	51-023	BEVEL PINION (778155)	1				
14	29-061	PIPE PLUG, 1/8	2				
15	51-770073A	TRANSAXLE CASE ASSY (INCLUDES ITEMS 22, 26, 27, 28 & 51)	1				
16	51-772086	TRANSAXLE COVER ASSY (INCLUDES ITEMS 26 & 27)	1				
17	51-778098	OUTPUT GEAR, 37 TEETH	1				
18	51-778096	SPUR GEAR, 23 TEETH	1				
19	51-778097	CLUSTER GEAR, 20 & 27 T	1				
20	51-776209A	COUNTER SHAFT	1				
21	51-776212	SHIFTER SHAFT AND GEAR	1				
22	51-792100	BOLT, HEX FLNGD 1/4X5/8	1				
23	51-792004	DETENT BALL	1				
24	51-792003	DETENT SPRING	1				
25	89-007	SEAL, SHIFTER SHAFT	2				
26	51-780099	NEEDLE BEARING	2				
27	51-780100	NEEDLE BEARING	3				
28	51-780126	NEEDLE BEARING	1				
29	51-780070	THRUST WASHER	3				
30	51-792064	SNAP RING	5				
31	51-792099	SNAP RING	1				
32	51-792102	COMPRESSION SPRING	2				
33	51-784327A	DIFF LOCK SHIFT ROD	1				
34	51-784328	SHIFTER FORK	1				
35	51-784195	SHIFTER FORK	1				
36	51-784326A	HI-LOW SHIFT ROD	1				
37	51-778156	RING GEAR	1				
38	51-786098	DRIVE BLOCK	2				
39	51-786096	DRIVE PIN	1				
40	51-778157	BEVEL PINION	2				
41	51-774486A	DIFFERENTIAL CARRIER (INCLUDES ITEM 51)	1				
42	51-780125	BALL BEARING	2				

FIGURE 7

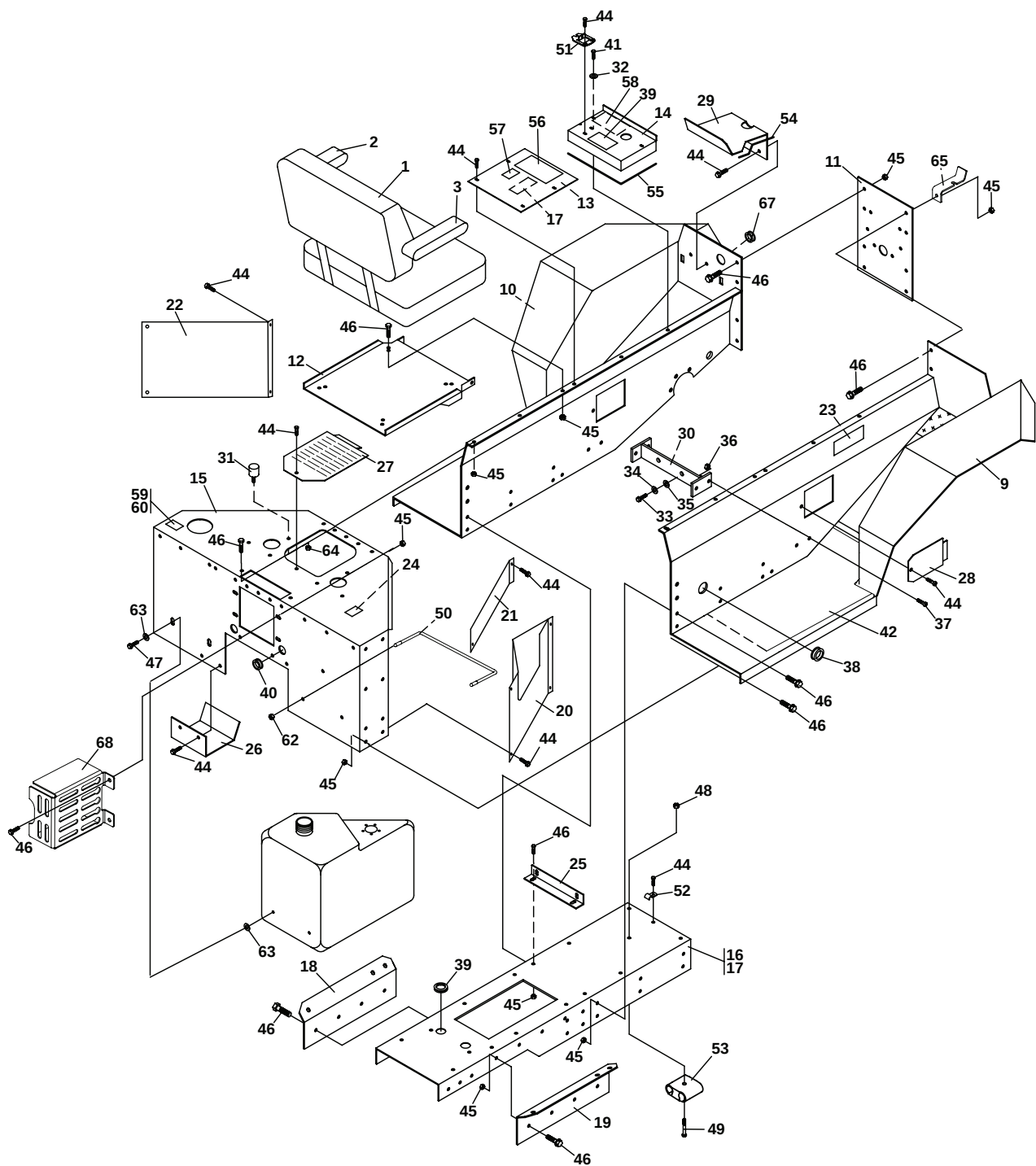


FIGURE 7

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4166575	SEAT, GRAY W/ LOGO	1	41	64123-113	BLT-HEX 1/4-20X2-1/4	2
2	198059	ARMREST, LH	1	42	4165040	MAT-FLOOR RH	1
3	198066	ARMREST, RH	1	43*	4165039	MAT-FLOOR LH	1
4 *	64139-13	BLT-WLF 5/16-18X1/2	6	44	64139-04	BOLT-WLF 1/4-20X3/4	24
5 *	99-C0404	BOLT, SELF TAP 1/4-20X1/2	2	45	64141-4	NUT-WLF 3/8-16	32
6 *	198063	ADJUSTER, LATCHING	1	46	64139-21	BLT-WLF 3/8-16X3/4	32
7 *	198062	ADJUSTER, SLAVE	1	47	64139-08	BOLT-5/16-18X3/4 WLF	2
8 *	75-70420	SEAT, MICH.SUSPENSION	1	48	64229-01	NUT-NYLON LOCK 1/4-20	1
		(ITEM 8 IS AN OPTIONAL SEAT)		49	64123-07	BLT-HEX 1/4-20X1-1/2	1
9	4165349	RIGHT MAIN FRAME	1	50	4165276	BATTERY HOLD DOWN	1
10	4165350	LEFT MAIN FRAME	1	51	4165280.7	SPEED SELECTOR STOP	1
11	4164982.7	FRONT BEARING PLATE	1	52	48228A	WIRECLIP	1
12	4165041.7	SEAT MOUNTING PLATE	1	53	4165751	TCLAMP- HOSE 1/2"	1
13	4165351	SHIELD, PUMP COVER, R	1	54	56-027	TRIM, TRIM-LOC, 6-1/4"	1
14	4165352	SHIELD, PUMP ACCESS, F	1	55	56-027	TRIM, TRIM-LOC, 21-3/4"	1
15	4165353	MID PANEL	1	56	00-200	DECAL-DO NOT TOW	1
16	62-839.7	REAR FRAME-DIESEL	1	57	4116761	DECAL-MADE IN THE U.S.A.	1
		(USE ON DIESEL MODEL ONLY)		58	00-060	DECAL-FILL, TRC FLUID	1
	4165500.7	REAR FRAME-GAS		59	00-106	DECAL-GAS SYMBOL	1
		(USE ON GAS MODEL ONLY)		60	00-076	DECAL-DIESEL SYMBOL	1
17	4165363	LABEL-HYDRO PRESSURE	1	61 *	44-096	RUBBER STRIP, TANK	1
18	14-101.7	MOUNT, LOWER ENG LH	1	62	64268-02	NUT-FL NYLOCK 5/16-18	2
		(USE ON DIESEL MODEL ONLY)		63	64163-55	WSHR .328X.75X14 GA	4
19	14-102.7	MOUNT, LOWER ENG RH	1	64	64141-6	NUT-WLF 5/16-18	2
		(USE ON DIESEL MODEL ONLY)		65	64-307.7	BRKT-ACCUMULATOR	1
20	62-535.17	TOOL BOX	1	66	108094-07	CLAMP-HOSE SAEA	2
21	60-347.17	BATTERY ACCESS PANEL	1	67	05-033	GROMMET	1
22	4165215.17	SHIELD, TANK COVER	1	68	4165731.7	GUARD-DRIVESHAFT	2
23	00-260	LABEL-FWD/REV	1			(USE ON GAS MODEL ONLY)	
24	00-377	LABEL-NEUTRAL LOCK	1	59*	4168388	DECAL-SUDDEN STOP	1
25	64-313.7	MID PANEL ANGLE	1				
26	60-457.7	SHIELD, GAS VALVE	1				
27	60-538.7	SHIELD, MID-PANEL SEAT	1				
28	60-619.7	COVER, ACCESS PANEL	2				
29	4165371.7	SHIELD, HYD TUBE COVER	1				
30	62-528.7	TRANSAXLE SUPPORT	1				
31	05-019	BUMPER	2				
32	64163-03	WSHR-.256X.62OD X 18 GA.	2				
33	6423-39	BOLT-HEX 1/2-13X1-1/4	2				
34	64006-05	LCKWSHR-HELICAL 1/2	2				
35	64163-67	WASHER-.516X1X12GA	2				
36	64141-4	NUT-WLF 3/8-16	4				
37	64139-24	BOLT, FLANGED 3/8-16X1	4				
38	05-034	GROMMET, 1-1/2"X2"	1				
39	4165283	LABEL-RANGE SEL.	1				
40	05-039	GROMMET, 1-5/16"X2"	2				

* NOT ILLUSTRATED

FIGURE 8

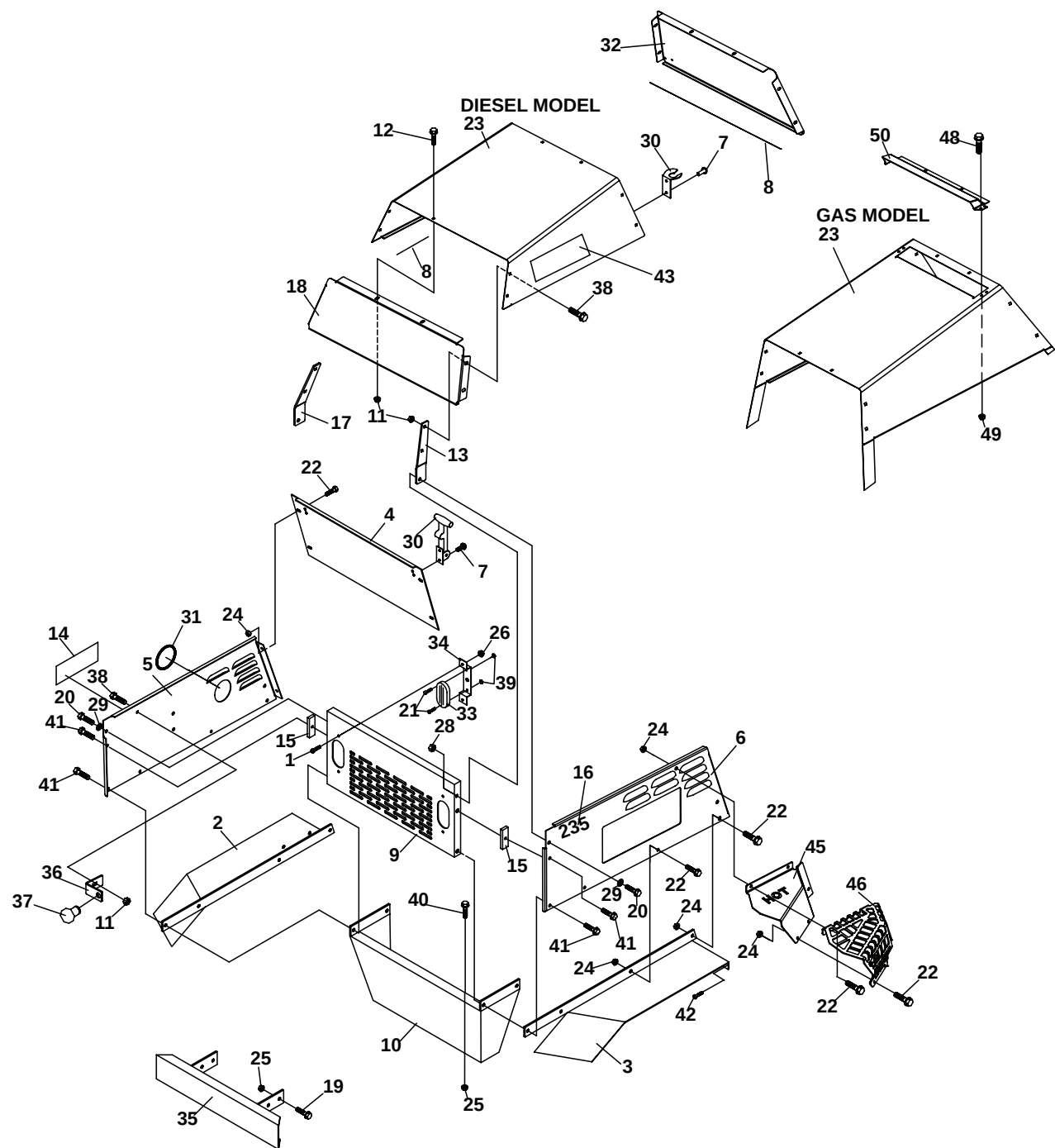


FIGURE 8

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	64139-02	BLT-WLF 1/4-20X1/2	4	36	4165223.7	BRKT-BUMPER MOUNT	2
2	60-655.17	SIDE FENDER LH	1	37	810149	BUMPER-RUBBER	2
3	64-883.17	SIDE FENDER RH	1	38	64018-2	BLT-CRG 1/4-20X3/4	6
4	64-880.7	PANEL, FRONT	1	39	64025-29	NUT-HEX #8-32 KEPS	4
5	4165354	SIDE PANEL LH-DIESEL (USE ON DIESEL MODEL ONLY)	1	40	64139-21	BLT-WLF 5/8-16X3/4	2
	4165674.7	SIDE PANEL-LH GAS (USE ON GAS MODEL ONLY)		41	99-K02	BLT-FLG 5/16-18X1	4
6	4165468	SIDE PANEL RH-DIESEL (USE ON DIESEL MODEL ONLY)	1	42	64139-04	BLT-WLF 1/4-20X3/4	4
	4165637.7	SIDE PANEL-RH, GAS (USE ON GAS MODEL ONLY)		43	4158620	LABEL-STEINER	2
7	04-004	RIVET	8	44*	4165532	KIT-ASSY HOOD STEEL (INCLUDES ITEMS 11-13, 17-18,23, 38 & 43) (DIESEL MODEL ONLY)	1
8	108194-06	CHANNEL-FLEXTRIM 25.5"	3	USE ITEMS 45 & 46, 47 ON GAS MODEL ONLY			
9	4165505.7	PANEL, REAR	1	45	4165640.7	DEFLECTOR-GRD HOT AIR	1
10	4165187.17	PANEL, LWER REAR DIESEL (USE DIESEL MODEL ONLY)	1	46	4165761.7	DEFLECTOR-GRD HOT AIR	1
	4165511.17	PANEL-LOWER REAR GAS (USE ON GAS MODEL ONLY)		47*	4166293	KIT-ASSY HOOD STEEL (INCLUDES ITEMS 11-13,17-18,23, 38,43,48-50)	1
11	64268-01	NUT-FL NYN LCK 1/4-20	14	ITEMS 48-50 USED ON GAS MODEL ONLY			
12	64018-20	BLT-CRG 1/4-20X1.2	8	48	64152-06	SCREW-#10-24X1/2	4
13	4165225.7	BRKT-HOOD PIVOT, RH	1	49	64025-15	NUT-#10-24 KEPS	4
14	00-313	LABEL-AIR CLEANER	1	50	4166270.17	VENT-HOOD	1
15	64-920.7	SPACER, REAR PANEL	2	* NOT ILLUSTRATED			
16	4165200	LABEL-235	2				
17	4165224.7	BRKT-HOOD PIVOT, LH	1				
18	4165203.17	PANEL-HOOD, REAR	1				
19	64139-18	BLT-WLF 3/8-16X1-1/4	4				
20	64123-16	BLT-HEX 3/8-16X1-1/4	2				
21	64152-20	BOLT-WLF 8-32X1/2	4				
22	64139-08	BOLT-WLF 5/16-18X3/4	15				
23	4165355	HOOD-TOP W/ LABELS (USE ON DIESEL MODEL ONLY)	1				
	4166292	HOOD-TOPS W/LABELS (USE ON GAS MODEL ONLY)					
24	64141-6	NUT, 5/16-18	10				
25	64141-4	NUT-WLF 3/8-16	6				
26	64141-2	NUT-WLF 1/4-20	4				
27	64025-14	NUT-HEX #10-32	6				
28	64229-03	NUT-NYLOCK 3/8-16	2				
29	64163-61	WASHER .81X.406X16GA	2				
30	47-030	RUBBER LATCH ASSY	2				
31	56-043-9	TRIM, TRIM-LOCK, 9"	1				
32	4165202.17	S-PANEL FRONT HOOD	1				
33	33-034	TAIL LIGHT-TWO BULB	2				
34	64-882.7	BRKT-REAR LIGHT MNT	2				
35	4165133.7	BUMPER	1				

FIGURE 9

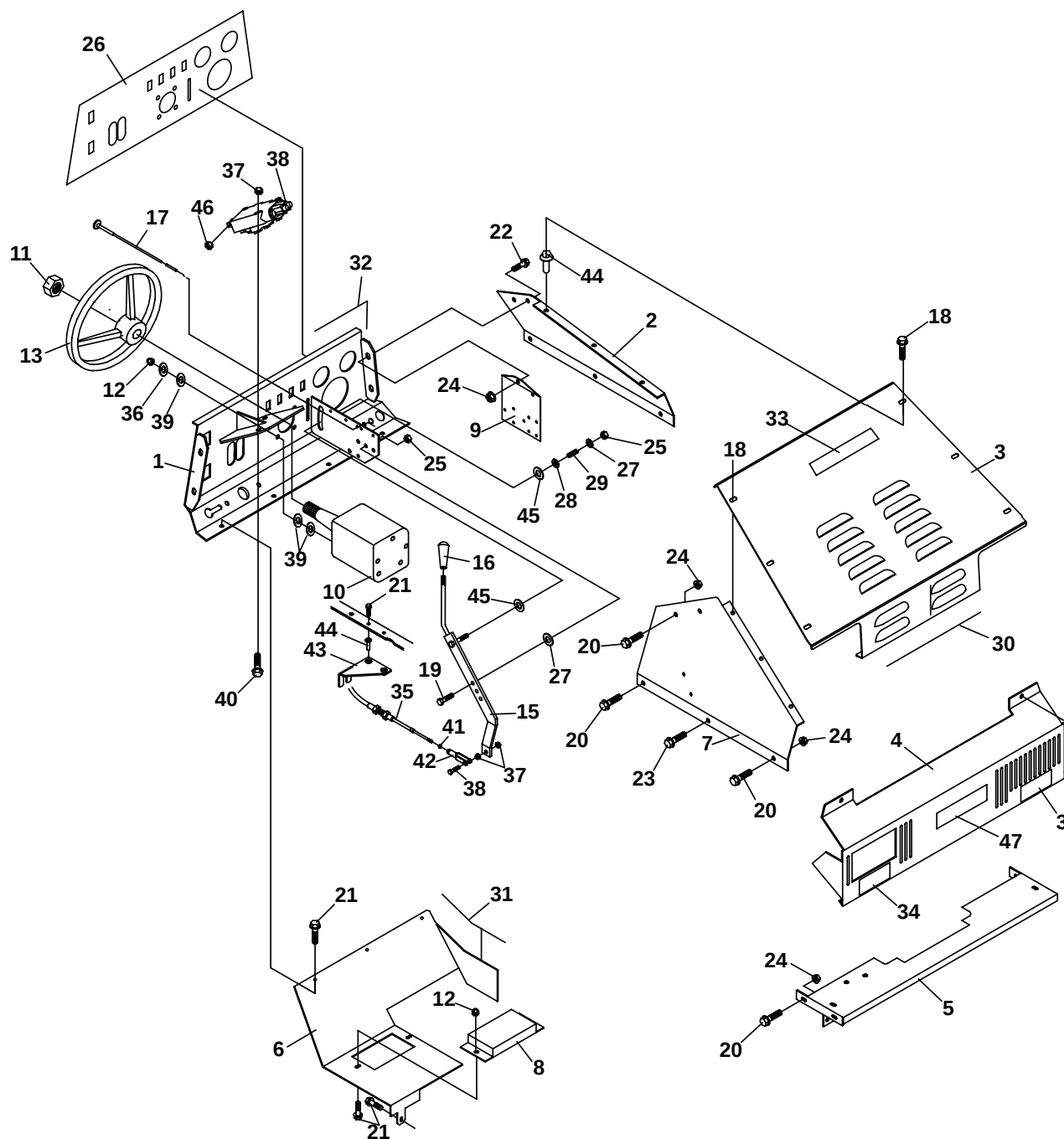


FIGURE 9

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4165356	DASH ASSEMBLY, DIESEL (USE ON DIESEL MODEL ONLY)	1	36	64006-02	LOCKWWASHER-5/16	4
	4166121	DASH ASSEMBLY, GAS (USE ON GAS MODEL ONLY)		37	64141-2	NUT-WLF 1/4-20	2
2	60-658.17	SIDE, DASH MOUNT LH	1	38	64123-07	BOLT-HEX 1/4-20X1-1/2	1
3	4165357	HOOD, FRONT	1	39	64251-003	WASHER-M8	12
4	4165458	PANEL, FRONT	1	40	64123-60	BLT-HEX 1/4-20X2	2
5	4164988.7	SUPPORT, PANEL	1	41	01-013	NUT-#10-32	1
6	60-664.7	SHIELD, UNDER DASH	1	42	38020-02	YOKE END, 10-32X1/4 PIN	1
7	60-677.17	SIDE, DASH MOUNT RH	1	43	6126005.7	MOUNT, THROTTLE CABLE	1
8	64-942.7	DOGHOUSE, SHIELD	1	44	04-009	INSERT-1/4-20	12
9	64-922.7	PLATE, CIRCUIT MNT	2	45	05-028	WASHER-FRICTION	2
10	23-056	STEERING VALVE, 5 PORT	1	46	99-E52	NUT-JAM 5/16-18	2
11	64001-1	NUT-HEX JAM, 5/8-18	1	47	4165201	LABEL-TRACTION MAX	1
12	64276-01	NUT-ACORN, 5/16-24	4				
13	47-103	STEERING WHEEL	1				
14 *	47-104	CAP, STEERING WHEEL	1				
15	40-328.7	THROTTLE LEVER	1				
16	47-114	KNOB, TAPERED	1				
17	47-080	CABLE, PARKING BRAKE	1				
18	64139-08	BOLT-WLF 5/16-18X3/4	6				
19	64123-68	BOLT-HEX 5/16-18X1	1				
20	64139-21	BOLT-WLF 3/8-16X3/4	13				
21	64139-04	BOLT-WLF 1/4-20X3/4	12				
22	64139-24	BOLT-WLF 3/8-16X1	4				
23	99-K58	BOLT-BTTN HD, 3/8-16X3/4	1				
24	64141-4	NUT-WLF 3/8-16	14				
25	64229-02	LOCKNUT-NYLON 5/16-18	2				
26	4165172	DECAL, 235 DASH DIESEL (DIESEL MODEL ONLY)	1				
	4165739	DECAL-235 DASH GAS (GAS MODEL ONLY)					
27	64163-55	WASHER, 25/64X5/8X16GA	2				
28	64-799	WASHER, 13/32X1-9/32	1				
29	41-039	SPRING, COMPRESSION	1				
30	56-027	TRIM, TRIM-LOC, 12-1/4"	1				
31	56-027	TRIM, TRIM-LOC, 7-1/2"	1				
32	56-046-03	TRIM, TRIM-LOC, 54"	1				
33	4158620	LABEL-STEINER	1				
34	00-025	DECAL-KEEP HANDS AWAY	2				
35	4137515	CABLE-THROTTLE, DIESEL (USE ON DIESEL MODEL ONLY)	1				
	47-159	CABLE-THROTTLE, GAS (USE ON GAS MODEL ONLY)					

* NOT ILLUSTRATED

FIGURE 10

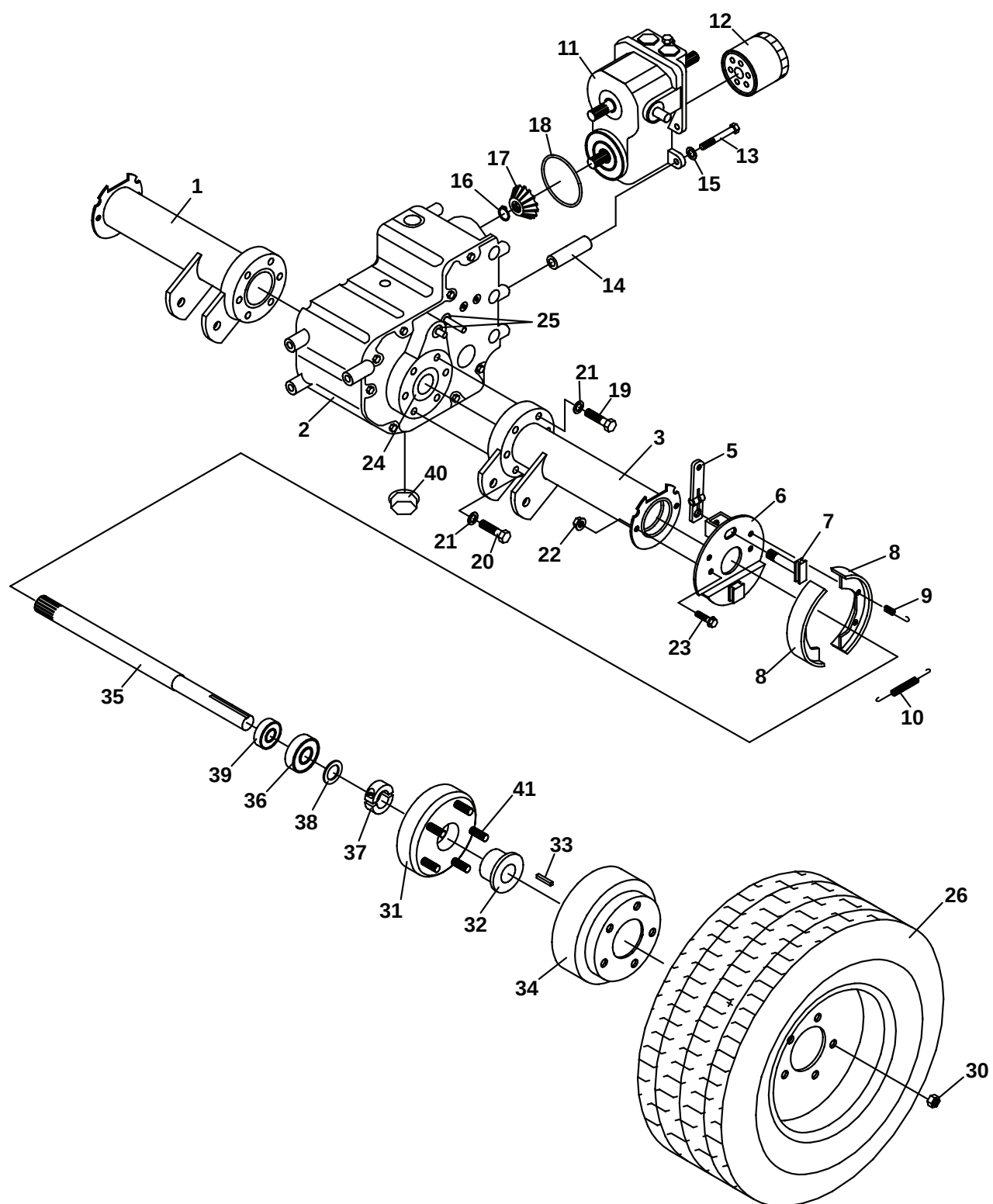


FIGURE 10

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4165038.7	TUBE, TRANSAXLE RH	1	37	4133682	COLLAR, SET - 230 AXLE	2
2	51-022	TRANSAXLE, W/DIFF LOCK	1	38	4133681	SPACER, AXLE COLLAR	2
3	4165037.7	TUBE, TRANSAXLE LH	1	39	4133683	SEAL, 230 DRIVE AXLE	2
4 *	53-114	BRAKE ASSY (INCLUDES ITEMS 5-10)	2	40	69051-06	PLUG-PIPE 3/8 INT	1
5	53-KN35488	LEVER-COMPLETE	1	41	64123-272	BLT-1/2-20X2-1/2	10
6	53-KN25764	BACKING PLATE	1	*NOT ILLUSTRATED			
7	53-KN35045	CAM	1				
8	53-KN34969-02.07	SHOE ASSEMBLY	2				
9	53-KN45434	SPRING-HOLD DOWN	2				
10	53-KN45433	SPRING-RETURN	1				
11	21-076	PUMP, SUNDSTRAND	1				
12	21-077	FILTER-PUMP	1				
13	64123-139	BOLT-HEX 3/8-16X4	4				
14	64-309	SPACER, KYB PUMP	4				
15	64006-03	WSHR, 3/8 HELICAL LOCK	4				
16	64144-01	SNAP RING, 5/8	1				
17	51-023	PINION GEAR	1				
18	26-003	O-RING FOR PUMP	1				
19	64123-72	BLT-HEX 1/2-13X2-1/2 (ITEM 19 USED ON UPPER 3 HOLES)	6				
20	64123-259	BLT-HEX 1/2-13X2-1/4 (ITEM 20 USED ON LOWER 3 HOLES)	6				
21	64006-05	WSHR, 1/2 HELICAL LOCK	12				
22	64141-4	NUT-WLF 3/8-16	4				
23	64139-21	BLT-WLF 3/8-16X3/4	4				
24	89-006	SEAL-AXLE	2				
25	89-007	SEAL-SHIFT ROD	2				
26	4165109	WHEEL ASSY 24x11x12 (INCLUDES ITEMS 27 & 28)	2				
27 *	4165109-01	RIM-12X8.5	1				
28 *	4165109-02	TIRE-24X11-12/6	1				
29 *	75-70465	WEIGHTS-WHEEL (2)	1				
30	64187-03	WHEEL NUT 1/2-20	10				
31	53-059	HUB, 5-BOLT, 1/2" HOLES	2				
32	4133678	BUSHING, AXLE HUB - 230	2				
33	85-K0510	KEY, 5/16 X 1-1/4	2				
34	50-096	BRAKE DRUM	2				
35	4133671	AXLE, 230 DRIVE	2				
36	4133672	BEARING, AXLE 230	2				

FIGURE 11

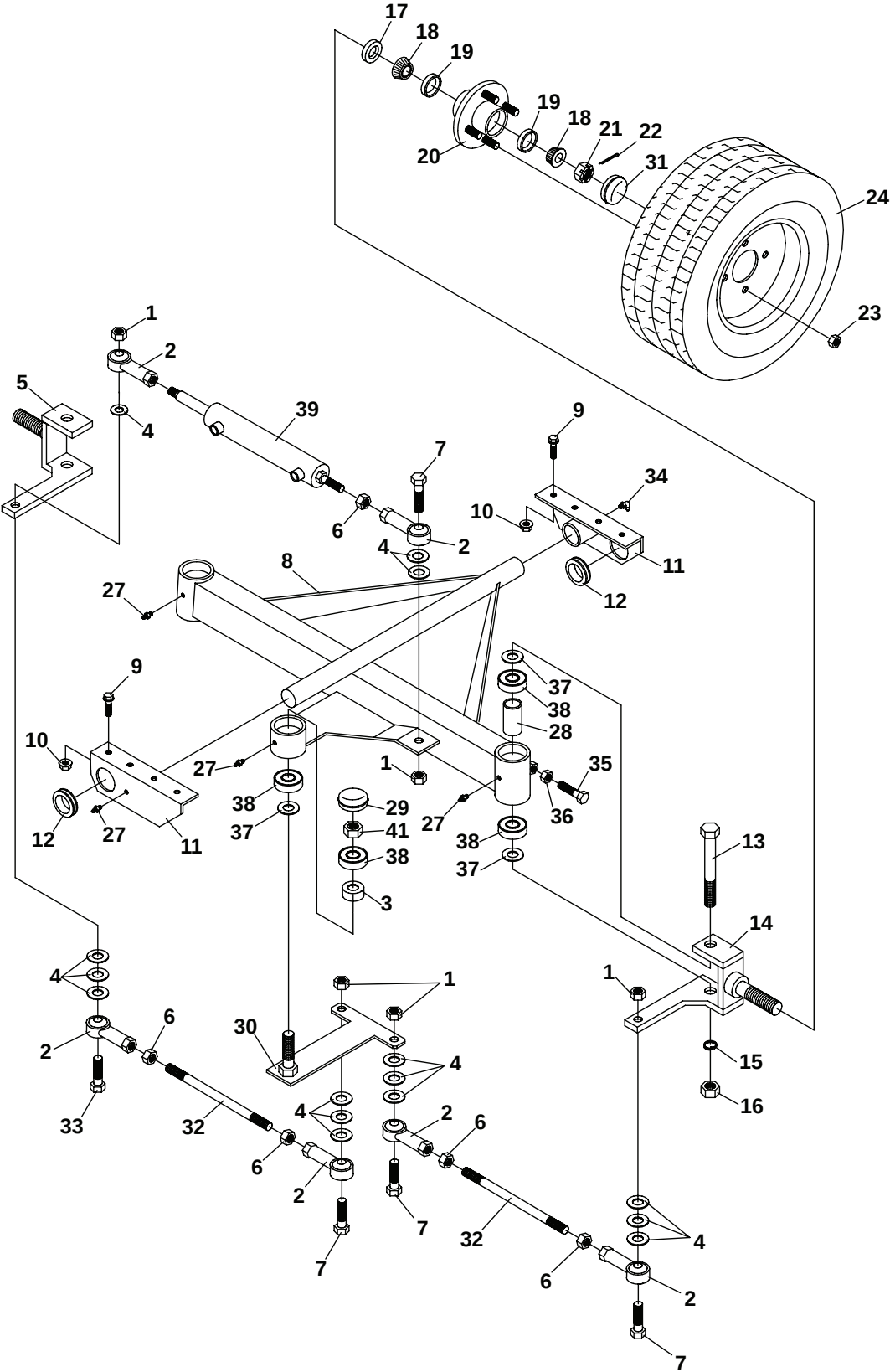


FIGURE 11

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	64151-28	NUT-HEX 5/8-18 CNTRLCK	5	24	53-065	WHEEL ASSY, 18X8.50X8	2
2	4132296	ROD END - 5/8	6			(INCLUDES ITEMS 25 & 26)	
3	4165469	SPACER-.67X1.25X.188	1	25 *	53-065-02	TIRE, 18X8.50X8, RIBBED	1
4	64163-16	WASHER-41/64x1-3/8x12GA	15	26 *	53-065-01	RIM, 8X7, WHITE	1
5	50-045.7	SPINDLE-STEERING LEFT	1	27	85010N	GREASE FITTING, 1/4-28	4
6	64001-1	NUT-HEX JAM,5/8-18	5	28	64-302	SPACER-KINGPIN BEARING	2
7	64123-137	BOLT-HEX 5/8-18X2	4	29	53-060	CAP-DUST	1
8	4165227.7	AXLE-REAR STEERING	1	30	4165001.7	CENTER PIVOT-STEERING	1
9	64139-24	BOLT, FLANGE 3/8-16X1		31	53-068	HUB CAP	2
		DIESEL MODEL QTY 8		32	42-319	TIE ROD	2
		GAS MODEL QTY 6		33	64123-133	BOLT-HEX 5/8-18X3	1
10	64141-4	NUT-WLF 3/8-16		34	4165962	GREASE FITTING, 1/4-28 90	1
		DIESEL MODEL QTY 8		35	64123-109	BOLT-HEX 5/8-11X1-1/2	2
		GAS MODEL QTY 6		36	99-E06	JAM NUT, 5/8-11 NC	2
11	4165020.7	PLATE-AXLE ANCHOR		37	64163-06	WASHER, .768X1.25X14G	5
		(DIESEL MODEL QTY 2)		38	55-Z9504AB	BALL BEARING	6
		(GAS MODEL QTY 1 FRONT)		39	4132321	STEERING CYLINDER, 2X4	1
	4165671.7	WLDMT-STEERING AXLE	1	40 *	21-0A002813	KIT-SEAL, CYLINDER	1
		(GAS MODEL QTY 1 REAR)		41	99-AC12NF	NUT-3/4-16 CL	1
12	05-034	GROMMET	1				
13	64123-275	BOLT-HEX 3/4-16X5-1/2	2				
14	50-046.7	SPINDLE-STEERING RIGHT	1				
15	64006-11	LOCKWASHER, 3/4	2				
16	64025-06	NUT-HEX 3/4-16 2A	2				
17	89-010	OIL SEAL	2				
18	48043-04C	BEARING, TAPER SINGLE	4				
19	48043-03C	BEARING, CUP	4				
20	50-086.7	HUB, 4-BOLT, REAR AXLE	2				
21	99-E19	CASTLE NUT, 1-14 NF	2				
22	64140-5	COTTER PIN, 1/8X1-1/2	2				
23	64187-03	WHEEL NUT 1/2-20	8				

* NOT ILLUSTRATED

FIGURE 12

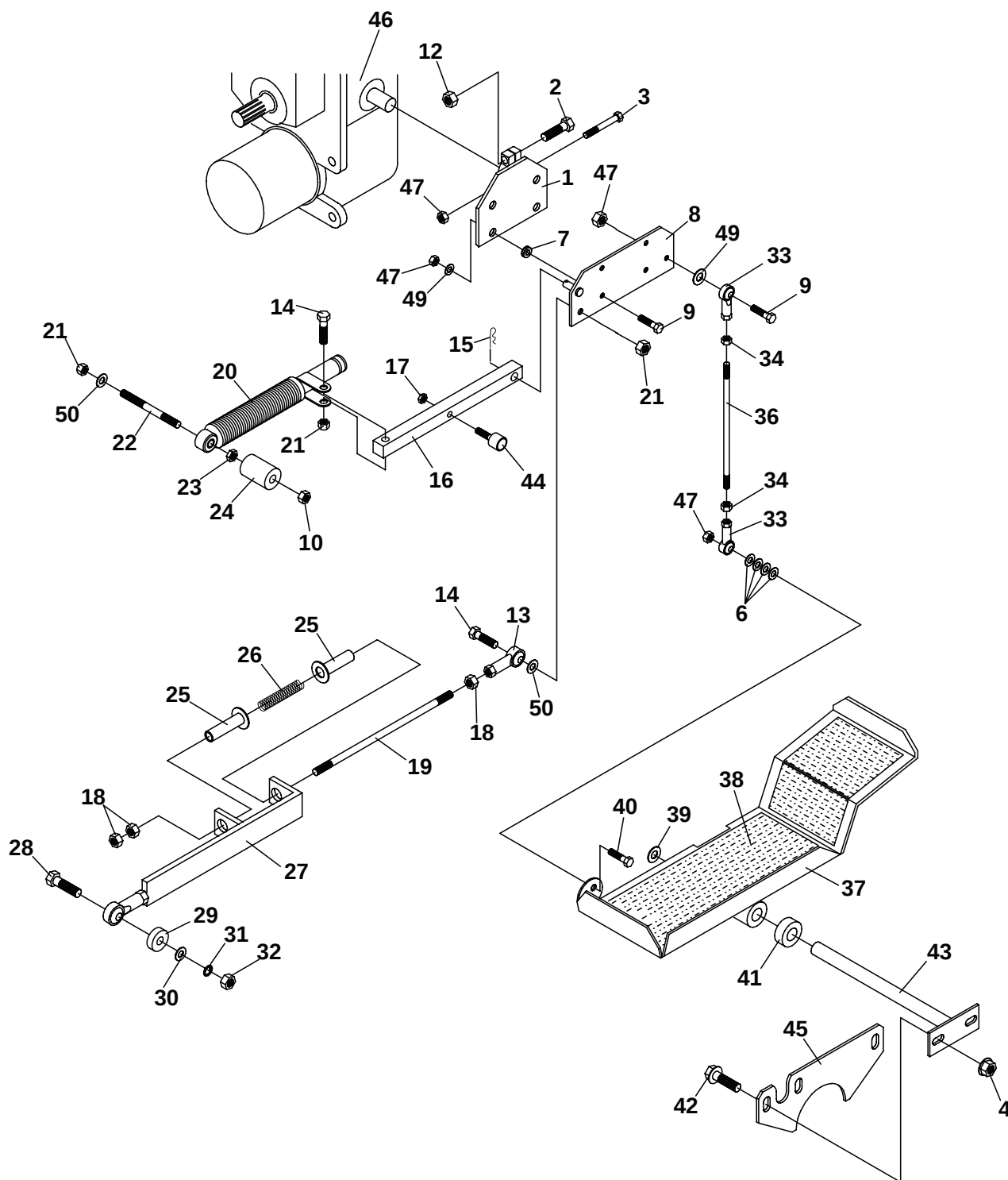


FIGURE 12

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4164985.7	LEVER-PUMP SHAFT CLMP	1	41	43067A	SET COLLAR	1
2	64123-67	BOLT-HEX 3/8-16X2	1	42	64139-24	BOLT, FLANGE 3/8-16X1	2
3	64123-60	BOLT-HEX 1/4-20X2	1	43	42-315	PIN, FWD-REV PEDAL	1
4	64141-4	NUT-WLF 3/8-16	2	44	55-116	BEARING, .25 STUDX.625	1
5	64025-01	NUT-HEX 1/4-20	11	45	64-864.7	SUPPORT, AXLE	1
6	64163-86	WASHER .265X.625X.125	4	46	21-076	PUMP, SUNDSTRAND	1
7	05-025	GROMMET, 1/4 IDX5/8 OD	4	47	64229-01	NUT-NYLN LCK 1/4-20	6
8	40-203.7	LEVER, PUMP CONTROL	1	48	64268-03	NUT-FL NYLN LCK 3/8-16	1
9	64123-114	BOLT-HEX 1/4-20X1	5	49	64163-03	WSHR .256IDX.62ODX18GA.	5
10	64268-02	NUT-FL NYLN LCK 5/16-18	2	50	64163-55	WSHR .328X.75X14 GA	1
11	64006-02	LCKWSHR-HELICAL 5/16	2				
12	64229-03	NUT-NYLON LOCK 3/8-16	1				
13	43-005A	ROD END, 5/16"	1				
14	64123-47	BLT-HEX 5/16-18X1-1/4	2				
15	02-PP0313	PIN, 3/16 x 1.5/8	1				
16	4165565.7	SHOCK MOUNT	1				
17	64001-14	NUT-HEX JAM, 1/4-28	1				
18	64025-03	NUT-HEX 5/16-24	3				
19	42-317	NEUTRAL LINK	1				
20	47-128	STABILIZER, SHOCK	1				
21	64229-02	LOCKNUT-NYLON 5/16-18	2				
22	64-1009	SHOCK MOUNT	1				
23	99-E52	JAM NUT, 5/16-18 NC	1				
24	64-1010.7	SPACER	1				
25	42-465	SLIDE, NEUTRAL LOCATOR	2				
26	41-067	SPRING, 6-3/4X.568X.071	1				
27	4164958.7	LOCATOR, NEUTRAL	1				
28	64123-70	BOLT-HEX 3/8-16X1-1/2	1				
29	64163-46	WSHR.383/.393X.88X7GA	1				
30	64163-61	WASHER .81X.406X16GA	2				
31	64006-03	LCKWSHR-HELICAL 3/8	2				
32	64025-05	NUT-HEX 3/8-16	2				
33	43-004A	ROD END, 1/4"	2				
34	64025-23	NUT-HEX 1/4-28	2				
35	64006-01	LOCKWASHER-1/4 HELICAL	3				
36	42-495	ROD, JACKSHAFT	1				
37	4165358	S-PEDAL, FWD-REV W/ MAT	1				
38	56-040-01	FLEXTREAD, 4"X18"	1				
39	64163-36	WASHER-.516X1X12GA	1				
40	64123-07	BOLT-HEX 1/4-20X1-1/2	1				

*NOT ILLUSTRATED

This exploded view diagram illustrates the assembly of a mechanical device, likely a pump or actuator. The components are numbered 1 through 48. The assembly includes a main shaft (1) with multiple bearings (12, 13, 14, 15, 18, 47) and seals (10, 11, 17, 35). A motor or actuator (32) is connected to the shaft via a coupling (43). The shaft is supported by a frame (25) and a base (38). A piston or plunger (40) is connected to the shaft via a rod (39). The assembly is secured with various bolts (9, 16, 21, 22, 23, 24, 26, 27, 28, 30, 31, 33, 34, 36, 41, 42, 44, 46, 48) and washers (3, 4, 6, 7, 8, 19, 20, 29, 37, 45). A spring (32) is used to provide tension or return force. The diagram shows the relative positions and assembly sequence of all parts.

FIGURE 13

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	64-1017	CONNECTING LINK	1				
2	64166-5	BOLT-1/2X1 3/8-16 SHLD	1				
3	64163-102	WSHR-MACH 1/2X7/8X.045	3				
4	64141-4	NUT-WLF 3/8-16	2				
5	64025-01	NUT-HEX 1/4-20	1				
6	64163-86	WASHER .265X.625X.125	2				
7	64-1019.7	LATCH	1				
8	B2010	BEARING, BALL 1/2"ID	1				
9	64123-114	BOLT-HEX 1/4-20X1	1				
10	64025-02	NUT-HEX 5/16-18	2				
11	64006-02	LCKWSHR-HELICAL 5/16	2				
12	64163-55	WSHR -328X.75X14 GA	1				
13	43-005A	ROD END, 5/16"	2				
14	64123-47	BLT-HEX 5/16-18X1-1/4	2				
15	64-1018	SPACER	1				
16	01-040	SCREW, MACHINE 10-32X1	2				
17	64001-13	NUT, JAM 1/4-20 UNC	1				
18	64025-03	NUT-HEX 5/16-24	2				
19	38382	SWITCH-N.O.	1				
20	64-1007	SPACER-SWITCH	2				
21	120052	LCKWSHR .194.337.047	2				
22	64025-14	NUT-HEX #10-32	2				
23	64123-120	BLT-HX 1/4-20X1-1/2 THRD	1				
24	55-115	BEARING, .25	1				
25	64-1016.7	PIVOT ARM	1				
26	64123-89	BOLT-HEX 1/4-20X3/4	1				
27	64141-2	NUT-WLF 1/4-20	4				
28	64139-04	BOLT-WLF 1/4-20X3/4	2				
29	64229-01	LOCKNUT-1/4-20 NYLON	1				
30	64163-61	WASHER .81X.406X16GA	2				
31	64151-17	LOCKNUT-HEX 1/4-20	3				
32	41-013	SPRING	1				
33	43-004A	ROD END, 1/4"	1				
34	64025-23	NUT-HEX 1/4-28	1				
35	64006-01	LOCKWASHER-1/4 HELICAL	1				
36	64218-02	BOLT-BTTN HD, 3/8-16X1	2				
37	64-1012.7	MOUNT, TOP HANDLE	1				
38	64-1013.7	MOUNT, LOWER HANDLE	1				
39	64-1014.7	PEDAL LOCK HANDLE	1				
40	47-114	KNOB, TAPERED 3/8-16	1				
41	64140-3	COTTER PIN-3/32X3/4	2				
42	64123-80	BLT-HEX 1/4-20X1-1/4	1				
43	43-004MA	ROD END, 1/4"	1				
44	64025-05	NUT-HEX 3/8-16	1				
45	64-1015.7	PIVOT MOUNT	1				
46	453023	FLATWASHER, 1/4	2				
47	99-B63	WASHER, 1/2X1-1/2 OD	2				
48	64006-03	LOCKWSHR-3/8 HELICAL	1				

*NOT ILLUSTRATED

FIGURE 14

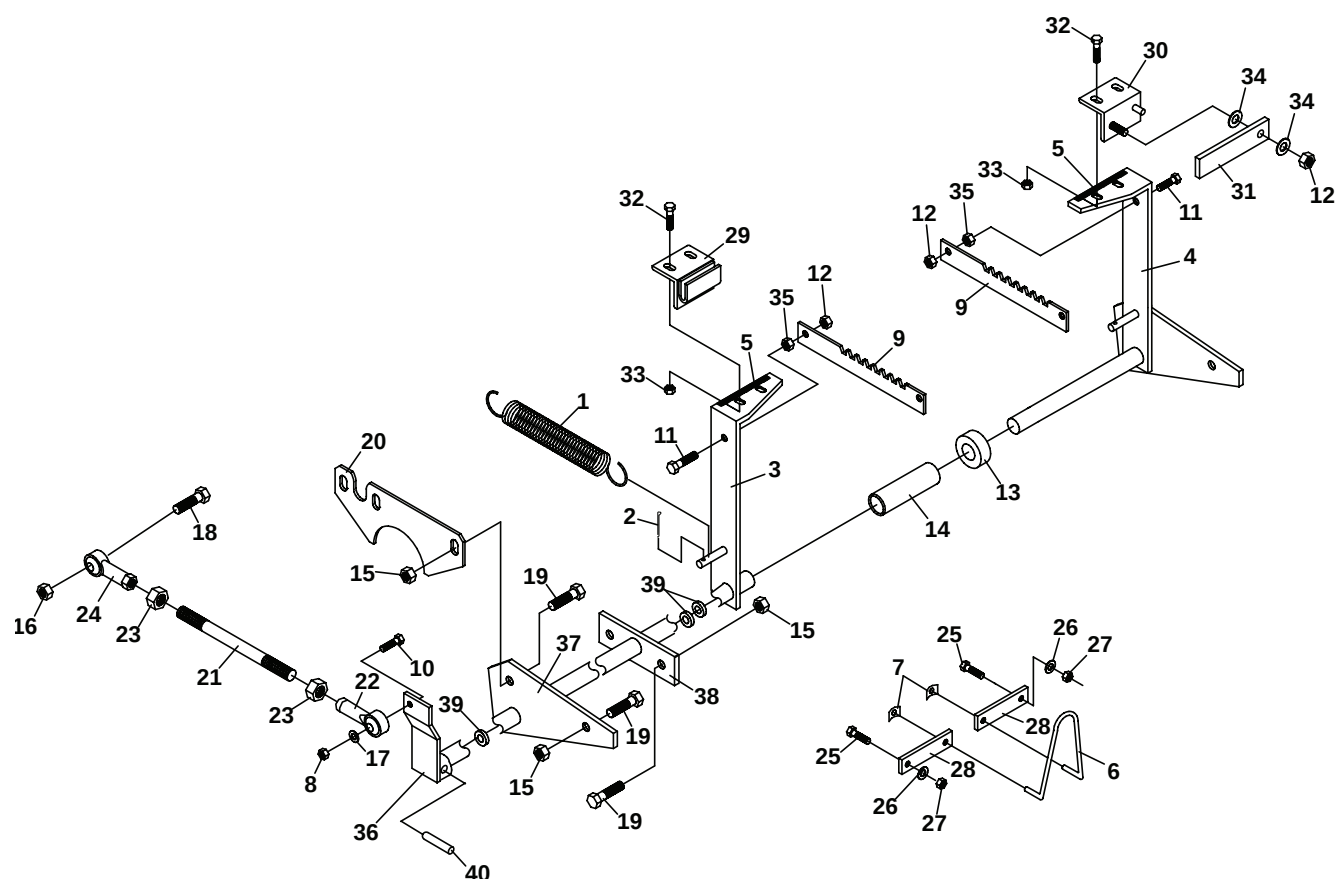


FIGURE 14

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	41-048	SPRING, EXT 1.0 X 4.15	2				
2	02-CP0508	COTTER PIN, 5/32 X 1	2				
3	4164951.7	PEDAL-RIGHT BRAKE	1				
4	40-211.7	PEDAL-LEFT BRAKE	1				
5	44-146	TREAD-BRAKE PEDAL	2				
6	64-820	LINK, BRAKE HOOK UP	1				
7	04-SN03	SPEED NUT, 3/16	2				
8	64229-01	NUT-NYLOCK 1/4-20	2				
9	47-033.7	LEVER, BRAKE LOCK	2				
10	64123-07	BOLT-HEX 1/4-20X1-1/2	2				
11	64123-47	BOLT-HEX 5/16-18X1-1/4	2				
12	64229-02	LOCKNUT-NYLON 5/16-18	3				
13	85-SC12	SET COLLAR	1				
14	64-306.7	SPACER	1				
15	64141-4	NUT-WLF 3/8-16	6				
16	64229-03	NUT-NYLOCK 3/8-16	2				
17	64163-86	FLATWASHER, 1/4	2				
18	64123-70	BLT-HEX 3/8-16X1-1/2	2				
19	64139-24	BOLT, FLANGE 3/8-16X1	2				
20	64-864.7	SUPPORT, AXLE	2				
21	42-485	ROD-BRAKE LINK	2				
22	43-011	ROD END-SPHERICAL 3/8"	2				
23	64025-04	NUT-HEX 3/8-24	4				
24	43-006A	ROD END 3/8"	2				
25	64123-114	BLT-HEX 1/4-20X1	2				
26	64163-86	WSHR-FLAT .265X.625X.12	2				
27	64229-01	NUT-NYLON LOCK 1/4-20	2				
28	64-819.7	STRAP, BRAKE LOCK ENG	2				
29	62-819.7	BRAKE PEDAL LOCK-RIGHT	1				
30	62-820.7	BRAKE PEDAL LOCK-LEFT	1				
31	64-921.7	STRAP, BRAKE PEDAL	1				
32	64139-04	BOLT-WLF 1/4-20X3/4	4				
33	64141-2	NUT-WLF 1/4-20	4				
34	64163-02	WASHER-.328X.608X11GA	2				
35	64025-02	NUT-HEX 5/16-18	2				
36	4164952.7	WLDMT-LEVER BRAKE	1				
37	4165292.7	BRKT-BRAKE SHAFT	1				
38	TRT-305.7	PLATE-PIVOT SHAFT	1				
39	64163-101	WSHR-13/16X1-15/32X.10	3				
40	64061-25	ROLLPIN- 1/4 X 1-1/4	1				

*NOT ILLUSTRATED

FIGURE 15

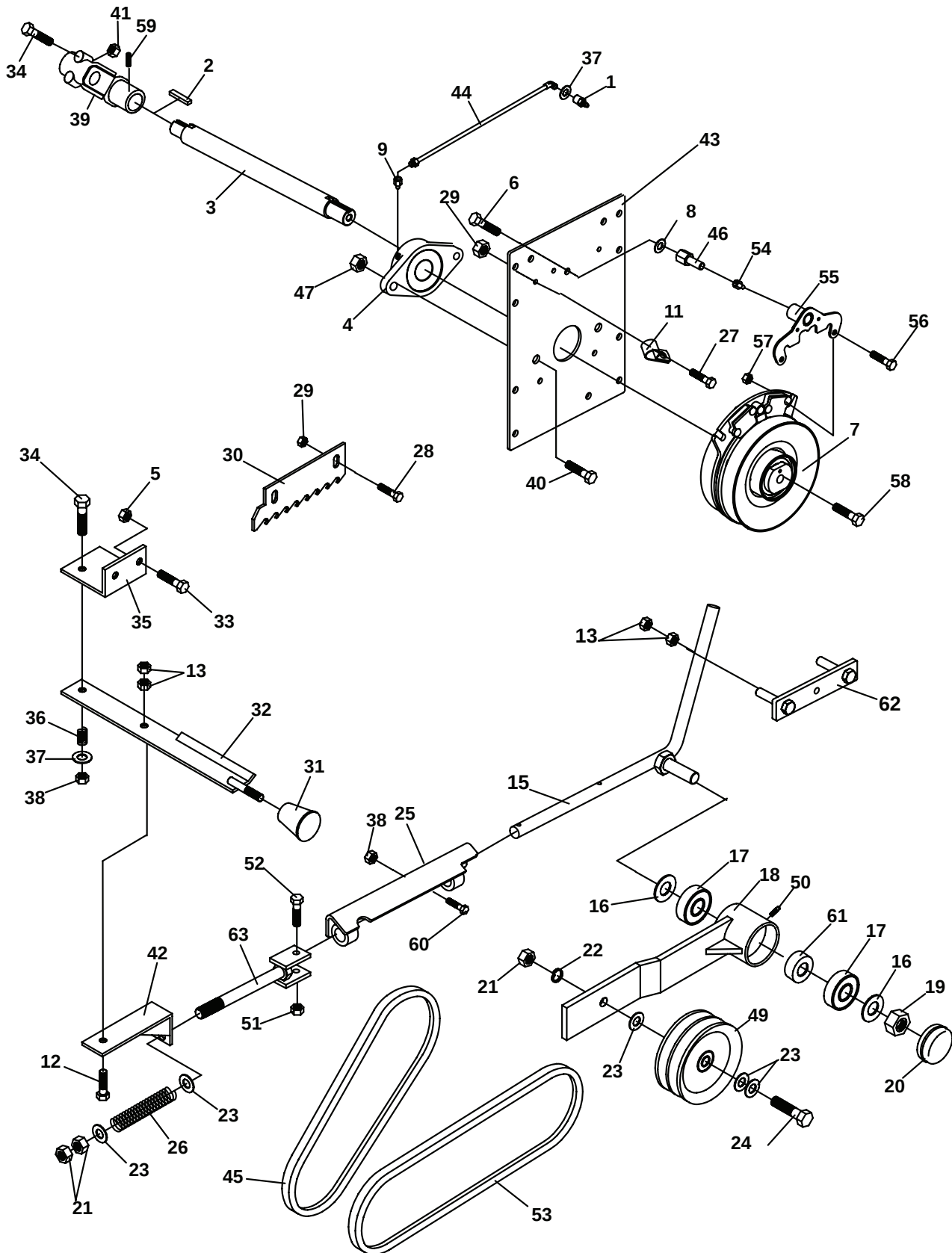


FIGURE 15

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	29-114	FITTING, GREASE 1/8 FPT	1	45	4165347	V BELT 5L-34"	1
2	64164-12	KEY-1/4X1/4X1 SQ END	1	46	4121540	PINCLUTCH ANCHOR	1
3	4164980	PTO SHAFT	1	47	64229-05	NUT-NYLON LOCK 1/2-13	2
4	4164981	FLANGE BEARING	1	48	99-B34	WASHER, 3/4ID, 18GA	2
5	64141-6	NUT-HEX, 5/16-18	2	49	4165359	PULLEY-2 GROOVE IDLER	1
6	64123-15	BLT-3/8-16X3/4	1		(DIESEL MODEL ONLY)		
7	4164976	CLUTCH-ELECTRIC	1		4166001	S-PULLEY AND BEARINGS	1
8	64163-31	WSHR- 25/64X1X12	1		(GAS MODEL ONLY)		
9	4165164	ADP-1/4-28 MPTX1/8NPTF	1				
10	64-692	WASHER	1	50	85010N	ZERK-1/4-28	1
11	G8062	CLAMP-HALF 3/8 INSUL.	3	51	64229-01	NUT-NYLOCK 1/4-20	1
12	64139-18	BLT-WLF 3/8-16X1-1/4	1	52	64123-07	BLT-HEX 1/4-20X1-1/2	1
13	64025-05	NUT-HEX 3/8-16	6	53	81-B041	BELT-B41	1
14 *	87-159	KIT-CROSS	1	54	38304-03	BEARING-FLANGED	1
15	40-325.7	SLIDE, FRONT IDLER	1	55	2721338.7	WLDMT-CLUTCH STOP	1
16	64163-06	WASHER .756X1.25X14G	2	56	64123-54	BLT-HEX 5/16-18X3/4	2
17	55-Z9504AB	BALL BEARING	2	57	64268-02	NUT-FL NYL LCK 5/16-18	2
18	4164996.7	IDLER ARM, FRONT	1	58	64123-260	BLT-HEX 7/16-20X2-1/4	1
19	99-AC12NF	LOCKNUT, 3/4 NF	1	59	85-SS14	SET SCREW-3/8-16X3/8	1
20	53-060	DUST CAP	1	60	64123-50	BLT-HEX 3/8-16X1	2
21	64025-09	HEX, NUT 1/2-13	3	61	4165469	SPACER-.76X1.25X.188	1
22	64006-05	LOCKWASHER, 1/2	1	62	64-421.7	CLIP, FRONT SLIDER	1
23	64163-67	WASHER .516X1X12GA	3	63	42-434.7	SPRING TENSIONER	1
24	90-0828	BOLT-HEX 1/2-13X3-1/2	1				
25	4165167.7	FRAME, FRONT IDLER	1		ITEMS 65& 66 COMPONENTS OF ITEM 49		
26	41-058	SPRING-COMP 0.968X4.00	1	64*	55-6204	BEARING-SEALED BALL	2
27	64139-02	BLT-WLF 1/4-20X1/2	3	65*	4165362	BUSHING-DOUBLE IDLER	1
28	64139-04	BOLT-WLF 1/4-20X3/4	2				
29	64141-2	NUT-WLF 1/4-20	5				
30	4164993.7	BAR-BELT ADJ NOTCH	1				
31	47-001	KNOB-SMALL	1				
32	40-282.7	LEVER-PTO BELT ADJ	1				
33	64139-08	BOLT-WLF 5/16-18X3/4	2				
34	64123-70	BOLT-HEX 3/8-16X1-1/2	4				
35	64-629.7	BRKT-ADJ LEVER MOUNT	1				
36	41-039	SPRING-COMP 7/16X1	1				
37	64163-61	WASHER-FLAT, 3/8	2				
38	64229-03	LOCKNUT-NYLON 3/8-16	1				
39	87-228	U-JOINT	1				
40	64123-117	BLT-HEX 1/2-13X1-1/2	2				
41	64151-18	LOCKNUT, CENTER 3/8-16	3				
42	4165121.7	BRKT, SPRING ADJ	1				
43	4164982.7	FRONT BEARING PLATE	1				
44	20-126	HOSE, GREASE 1/4 X 13"	1				

*NOT ILLUSTRATED

FIGURE 16

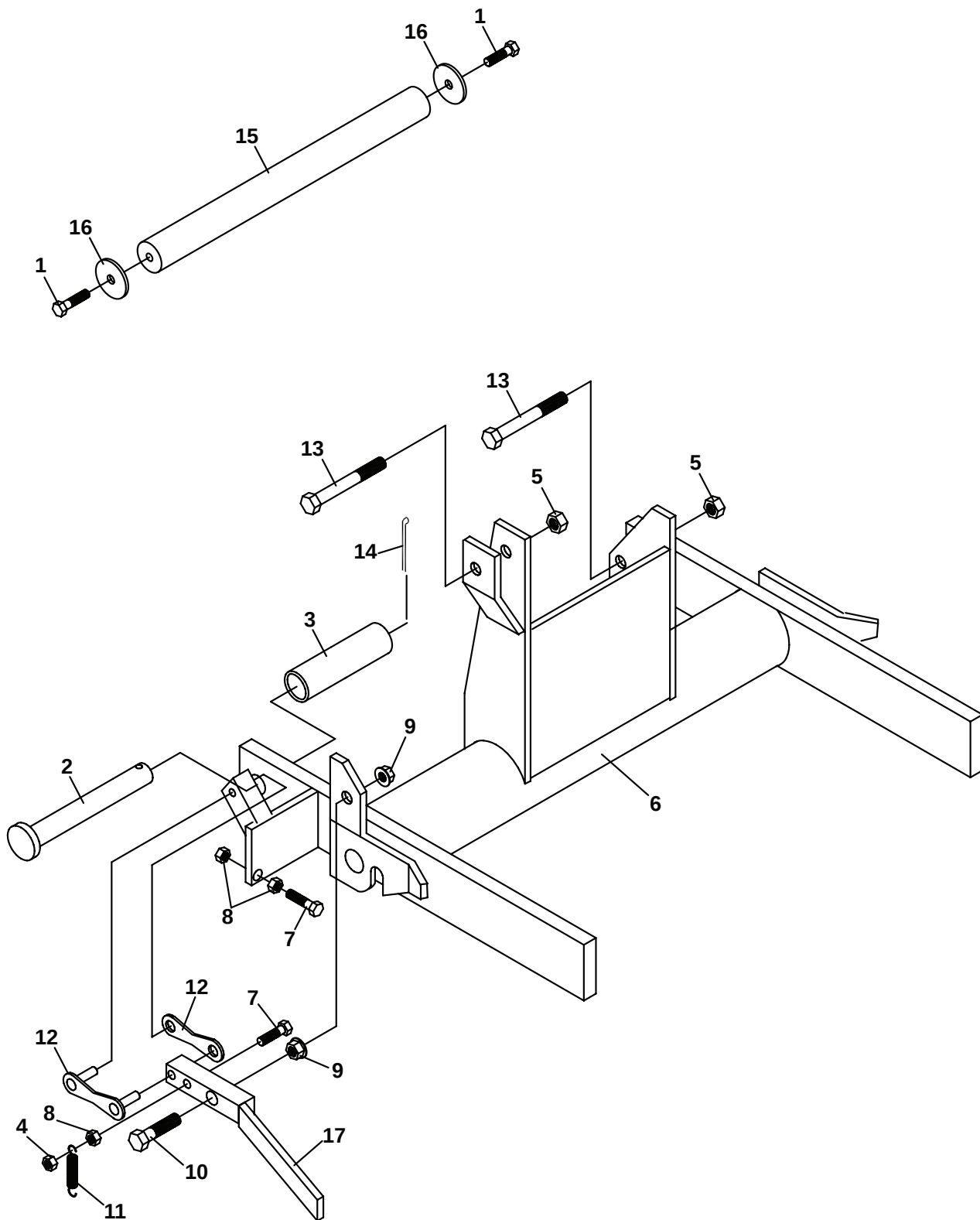


FIGURE 16

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	64123-49	BOLT-HEX, 1/4-20X1/2	2				
2	03-1032	CLEVIS PIN, 5/8 X 4	2				
3	64-305.7	SPACER-FRONT LIFT	2				
4	64229-01	NUT-NYLOCK 1/4-20	1				
5	64229-03	LOCKNUT-NYLON 3/8-16	2				
6	4165226.7	FRONT LIFT	1				
7	64123-07	BOLT-HEX, 1/4-20X1-1/2	2				
8	64141-2	NUT-WLF 1/4-20	3				
9	64141-4	NUT-WLF 3/8-16	2				
10	64123-87	BOLT-HEX 3/8-16X1-1/2	1				
11	41-013	SPRING-EXT 1/2X2	1				
12	81-082	CONNECTOR LINK	1				
13	64123-100	BOLT-HEX 3/8-16X2-1/4	2				
14	02-CP0508	COTTER PIN, 5/32 X 1	2				
15	80-257	SHAFT, LIFT CYLINDER	1				
16	64163-104	WSHR-.291X1.240/1.268X.12	2				
17	40-197.7	HANDLE, QUICK HITCH	1				
18 *	47-054	HANDLE GRIP, 5/8"IDX3/4"	1				

*NOT ILLUSTRATED

FIGURE 17

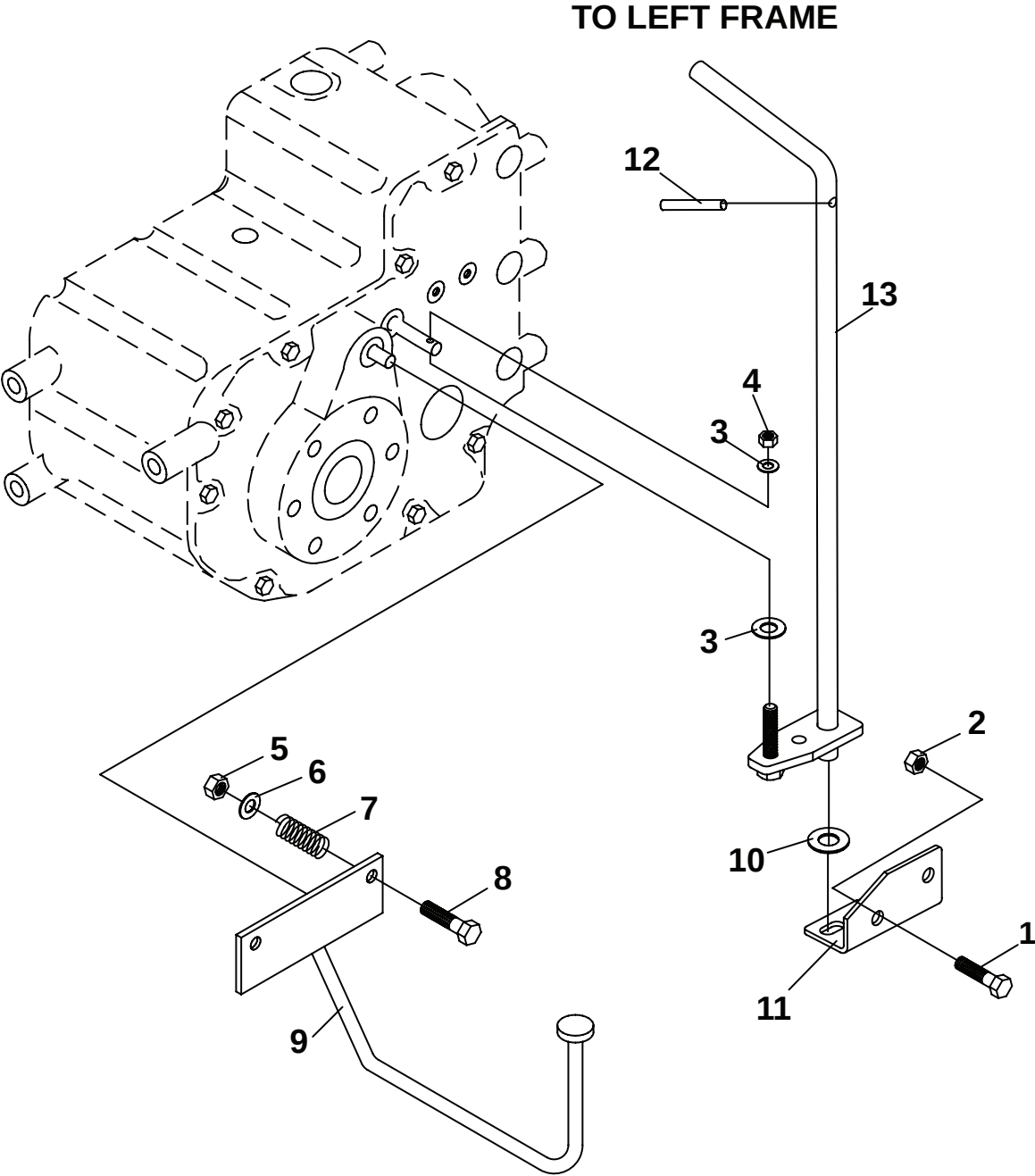


FIGURE 17

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	64139-21	BLT-WLF 3/8-16X3/4	2				
2	64141-4	NUT-WLF 3/8-16	2				
3	453023	FLATWASHER 1/4	2				
4	64229-01	LOCKNUT-NYLON 1/4-20	1				
5	64229-03	LOCKNUT-NYLON 3/8-16	2				
6	64163-61	WASHER .81X.406X16GA	2				
7	41-039	SPRING, COMPRESSION	2				
8	64123-87	BOLT-HEX 3/8-16X1-3/4	2				
9	4164907.7	WLDMT-LEVER DIFF LOCK	1				
10	64163-31	WSHR 25/64X1X12	1				
11	4165113.7	BRKT - SHIFT LEVER MOUNT	1				
12	64061-28	ROLLPIN-3-16X1-1/4	1				
13	4165116.7	WLDMT - SHIFTER, HI/LO	1				

*NOT ILLUSTRATED

FIGURE 18A

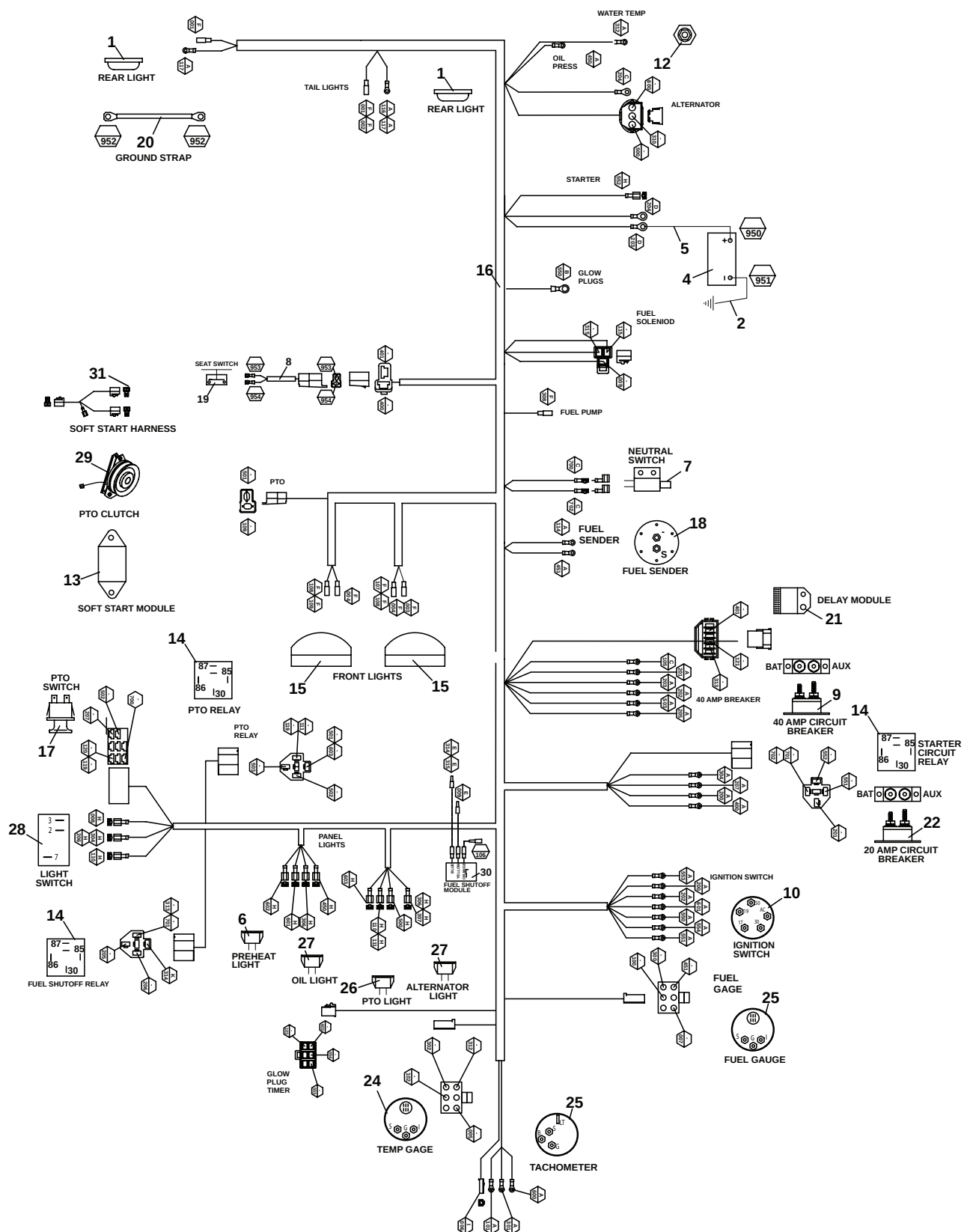


FIGURE 18A

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	33-034	TAILLIGHT, RED	2	16	4165400	WIRE HARNESS, KUB DSL	1
2	30-310	BATT CABLE, 1GA BLK 30"	1	17	31-062	SWITCH, PTO	1
3	13-15694-65991	TIMER-GLOW PLUG	1	18	4165402	SENDER, FUEL LEVEL	1
4	4165110	BATTERY, 9x6.81x8 630CCA	1	19	158135-01	SWITCH-SEAT NORM.OPEN	1
5	30-305	BATTERY CABLE, 1GA 34"	1	20	30-291	STRAP, BRAIDED GROUND	1
6	33-024	LIGHT, BLUE PILOT	1	21	2188154	MODULE-DELAY	1
7	38382	SWITCH-N.O.	1	22	30-114	CIRCUIT BREAKER, 20 AMP	1
8	30-394	PIGTAIL SEAT SWITCH	1	23	4166666	KIT-GAUGE TACH/HOUR	1
9	48524	CIRCUIT BREAKER, 40 AMP	1	24	4165405	GAUGE, WATER TEMP	1
10	4136497	SWITCH-IGNITION	1	25	4165403	GAUGE, FUEL	1
11 *	4136502	KEY-KUBOTA IGN	1	26	33-035	LIGHT, AMBER PILOT	1
12	4165404	SENDER, WATER TEMP	1	27	33-023	LIGHT, RED PILOT	2
13	4165343	MODULE-SOFT START	1	28	31-051	SWITCH, ROCKER	1
14	35-067	RELAY	3	29	4164976	CLUTCH ENGINE PULLEY	1
15	4128713	HEADLIGHT	2	30	31-050	MODULE, FUEL SHUTOFF	1
	4128713-01	12V 55W BULB	2	(ITEM 30 AVAILABLE ONLY IN KIT 70-134 WHICH CONTAINS SOLENOID & MODULE)			

31 4165342 HARNESS-SOFT START 1

* NOT ILLUSTRATED

KUBOTA DIESEL ENGINE ELECTRICAL CIRCUIT LEGEND			
#	GAUGE	COLOR	DESTINATION
001	16	YELLOW / WHITE	TAIL LIGHT TO TAIL LIGHT
002	16	YELLOW / WHITE	TAIL LIGHT TO INTERNAL SPLICE #4
003	16	YELLOW / WHITE	INTERNAL SPLICE #4 TO HEADLIGHT
004	16	YELLOW / WHITE	INTERNAL SPLICE #4 TO HEADLIGHT
005	16	YELLOW	INTERNAL SPLICE #4 TO TEMP GAUGE (L)
006	16	YELLOW	TACHOMETER (LT) TO TEMP GAUGE
007	16	YELLOW	FUEL GAUGE (L) TO TACHOMETER
008	12	YELLOW	INTERNAL SPLICE #4 TO LIGHT SWITCH (3)
009	14	YELLOW	FUEL SHUTOFF SOLENOID TO FUEL SHUTOFF MODULE
100	16	BLACK	INTERNAL SPLICE #3 TO FUEL GAUGE (G)
101	16	BLACK	INTERNAL SPLICE #1 TO TACHOMETER (END)
102	16	BLACK	INTERNAL SPLICE #1 TO TEMP GAUGE (G)
103	14	BLACK	INTERNAL SPLICE #1 TO PREHEAT TIMER
105	14	BLACK	GROUND BOLT TO INTERNAL SPLICE #1
106	14	BLACK	INTERNAL SPLICE #1 TO FUEL SHUTOFF MODULE
107	16	BLACK	HEADLIGHT TO INTERNAL SPLICE #1
108	16	BLACK	HEADLIGHT TO INTERNAL SPLICE #1
109	16	BLACK	PTO CLUTCH TO INTERNAL SPLICE #1
110	16	BLACK	LIGHT SWITCH (7) TO PTO LIGHT
111	16	BLACK	INTERNAL SPLICE #1 TO PTO LIGHT
114	16	BLACK	INTERNAL SPLICE #3 TO FUEL SENDER (4)
115	14	BLACK	FUEL SHUTOFF SOLENOID TO INTERNAL SPLICE #3
116	16	BLACK	TAIL LIGHT TO INTERNAL SPLICE #1
117	16	BLACK	TAIL LIGHT TO INTERNAL SPLICE #1
118	14	BLACK	INTERNAL SPLICE #3 TO GROUND
119	16	BLACK	INTERNAL SPLICE #1 TO PTO RELAY (85)
120	16	BLACK	INTERNAL SPLICE #1 TO PTO SWITCH
121	16	BLACK	1/2 SECOND DELAY MODULE (C) TO INTERNAL SPLICE #1
200	14	RED	IGNITION SWITCH (AC) TO 20 AMP CIRCUIT BREAKER (BAT)
201	14	RED / WHITE	30 AMP CIRCUIT BREAKER (AUX) TO STARTER CIRCUIT RELAY (30)
202	10	RED	30 AMP CIRCUIT BREAKER (AUX) TO IGNITION SWITCH (30)
203	10	RED	STARTER TO 30 AMP CIRCUIT BREAKER (BAT)
204	10	RED	ALTERNATOR TO STARTER
205	14	RED / WHITE	ENGINE RELAY (30) TO 30 AMP CIRCUIT BREAKER (AUX)
206	16	RED / YELLOW	20 AMP CIRCUIT BREAKER (AUX) TO ENGINE RELAY (86)
207	16	RED / BLUE	PTO SWITCH TO 20 AMP CIRCUIT BREAKER (AUX)
300	16	WHITE	INTERNAL SPLICE #2 TO FUEL GAUGE (I)
301	16	WHITE	INTERNAL SPLICE #2 TO TACHOMETER (IGN)
302	16	WHITE	INTERNAL SPLICE #2 TO TEMP GAUGE (I)
303	14	WHITE	INTERNAL SPLICE #2 TO 20 AMP CIRCUIT BREAKER (AUX)
304	16	WHITE	INTERNAL SPLICE #2 TO LIGHT SWITCH (2)
306	16	WHITE / RED	ALTERNATOR LIGHT TO OIL LIGHT
307	16	WHITE	INTERNAL SPLICE #2 TO ALTERNATOR LIGHT
308	16	WHITE	FUEL PUMP TO INTERNAL SPLICE #2
310	16	WHITE	ALTERNATOR TO INTERNAL SPLICE #2
312	16	WHITE / ORANGE	TEMPERATURE SENDER TO TEMP GAUGE (S)
313	16	WHITE / BROWN	1/2 SECOND DELAY MODULE (B) TO ENGINE RELAY (85)
314	16	WHITE / BLACK	FUEL SHUTOFF MODULE TO ENGINE RELAY (87)
315	16	WHITE / BLACK	FUEL SOLENOID TO FUEL SHUTOFF MODULE
400	16	ORANGE	SEAT SWITCH TO 20 AMP CIRCUIT BREAKER (AUX)
401	16	ORANGE / WHITE	SEAT SWITCH TO 1/2 SECOND DELAY MODULE (E)
450	16	PURPLE	OIL PRESSURE SWITCH TO OIL PRESSURE LIGHT
451	16	PURPLE / WHITE	FUEL SENDER (S) TO FUEL GAUGE (S)
500	14	DK. BLUE	ALTERNATOR TO ALTERNATOR LIGHT
501	14	DK. BLUE / WHITE	PTO CLUTCH TO PTO RELAY (87)
502	16	LT. BLUE	PTO RELAY (86) TO PTO SWITCH
503	14	BLUE / RED	30 AMP CIRCUIT BREAKER (AUX) TO PTO RELAY (30)
550	10	LT. GREEN	PREHEATER TO IGNITION SWITCH (19)
551	14	LT. GREEN / WHITE	STARTER CIRCUIT RELAY (86) TO IGNITION SWITCH (50)
552	14	LT. GREEN	STARTER SOLENOID TO STARTER CIRCUIT RELAY (87)
553	14	DK. GREEN / WHITE	PREHEAT TIMER TO IGNITION SWITCH (19)
554	14	DK. GREEN	PREHEAT TIMER TO IGNITION SWITCH (50)
600	16	GRAY	ALTERNATOR TO TACHOMETER (SEND)
601	16	GRAY / BLUE	PREHEAT LIGHT TO IGNITION SWITCH (19)
602	16	GRAY / BLUE	PREHEAT LIGHT TO PREHEAT TIMER
603	16	GRAY / WHITE	PTO RELAY (87) TO PTO LIGHT
700	16	BROWN	NEUTRAL SWITCH TO PTO SWITCH
701	16	BROWN / WHITE	STARTER CIRCUIT RELAY (85) TO ENGINE RELAY (85)
702	16	BROWN / YELLOW	NEUTRAL SWITCH TO STARTER CIRCUIT RELAY (85)
950	1	RED	+ BATTERY TO STARTER
951	1	BLACK	- BATTERY TO ENGINE MOUNT BOLT
952	1	BRAIDED SILVER	ENGINE MOUNT BOLT TO FRAME
953	16	ORANGE / WHITE	SEAT SWITCH TO WIRE HARNESS
954	16	ORANGE	SEAT SWITCH TO WIRE HARNESS

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FIGURE 18B

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	33-034	TAILLIGHT, RED	2	16	4165600	HARNESS,WIRE FRONT B&S	1
2	30-019	BATT CABLE, 4GA 30"	1	17	31-062	SWITCH, PTO	1
3	30-105	COVER-TERMINAL, NEG	1	18	4165402	SENDER, FUEL LEVEL	1
4	33-015	BATTERY 26/26R 550 CCA	1	19	158135-01	SWITCH-SEAT NORM.OPEN	1
5	30-166	BATTERY CABLE, 1GA 34"	1	20	30-291	STRAP, BRAIDED GROUND	1
6	33-098	COVER-TERMINAL POS.	1	21	2188154	MODULE-DELAY	1
7	31-070	SWITCH-N.O. PLUNGER	1	22	30-114	CIRCUIT BREAKER, 20 AMP	1
8	30-394	PIGTAIL SEAT SWITCH	1	23	4166666	KIT-GAUGE TACH/HOUR	1
9	30-059	CIRCUIT BREAKER,30 AMP	1	24	4165598	GAUGE, VOLTMETER	1
10	128010	SWITCH-IGNITION	1	25	4165403	GAUGE, FUEL	1
11 *	128010-03	KEY-MOLDED	1	26	33-035	LIGHT, AMBER PILOT	1
12 *	128010-01	NYLON NUT	1	27	33-023	LIGHT, RED PILOT	2
13	33-038	SWITCH BLANK	1	28	31-051	SWITCH, ROCKER	1
14	35-067	RELAY	3	29	4164976	CLUTCH ENGINE PULLEY	1
15	4128713	HEADLIGHT	2	30	4165614	HARNESS,WIRE REAR B&S	1
	4128713-01	12V 55W BULB	2	31	4166337	HARNESS-SOFT START	1
				32	4165894	MODULE-SOFT START	1
				33	4166530	TRANSFORMER-AC TO AC	1

* NOT ILLUSTRATED

BRIGGS & STRATTON GAS ENGINE ELECTRICAL CIRCUIT LEGEND				
#	GAUGE	COLOR	DESTINATION FROM	DESTINATION TO
123	16	BLACK	SPLICE #1	CONNECTOR/
122	14	BLACK	SPLICE #1	SPLICE #5
121	16	BLACK	DELAY MODULE	SPLICE #1
120	16	BLACK	SPLICE #5	PTO SWITCH
119	16	BLACK	SPLICE #5	PTO RELAY
111	16	BLACK	SPLICE #5	PTO LIGHT
110	16	BLACK	SPLICE #5	LIGHT SWITCH
109	16	BLACK	PTO CLUTCH	HEAD LIGHT
108	16	BLACK	HEAD LIGHT	HEAD LIGHT
107	16	BLACK	HEAD LIGHT	SPLICE #1
106	14	BLACK	SPLICE #5	ENG SOLENOID
105	14	BLACK	GROUND	SPLICE #1
104	16	BLACK	SPLICE #1	IGN SWITCH
102	18	BLACK	SPLICE #1	TEMP GAUGE
101	18	BLACK	SPLICE #1	TACHOMETER
100	18	BLACK	SPLICE #1	FUEL GAUGE
009	14	YELLOW	SPLICE #4	CONNECTOR/
008	14	YELLOW	SPLICE #4	LIGHT SWITCH
007	18	YELLOW	SPLICE #4	FUEL GAGE
006	18	YELLOW	SPLICE #4	TACHOMETER
005	18	YELLOW	SPLICE #4	VOLTMETER
004	16	YELLOW	HEAD LIGHT	HEAD LIGHT
003	16	YELLOW	SPLICE #4	HEAD LIGHT
315	16	WHITE/BLACK	ENG SOLENOID	CONNECTOR/ENG KILL WIRE
313	16	PINK	DELAY MODULE	FUEL SHUTOFF RELAY
308	16	WHITE/BLUE	IGNITION SWITCH	CONNECTOR/ENG KILL
307	16	WHITE	SPLICE #2	CONNECTOR/
306	16	WHITE	SPLICE #2	OIL PRESSURE LIGHT
305	14	WHITE	SPLICE #2	LIGHT SWITCH
304	14	WHITE	20 AMP BREAKER	SPLICE #2
302	18	WHITE	SPLICE #2	VOLTMETER
301	18	WHITE	SPLICE #2	TACHOMETER
300	18	WHITE	SPLICE #2	FUEL GAUGE
207	16	RED/BLUE	PTO SWITCH	20 AMP CIRCUIT BREAKER AUX.
206	16	WHITE	ENG SOLENOID	SPLICE #2
203	10	RED	CONNECTOR/STARTER	30 AMP CIRCUIT BREAKER BATT.
202	14	RED/BLACK	30 AMP CIRCUIT BREAKER AUX.	IGNITION SWITCH
201	14	RED/WHITE	30 AMP CIRCUIT BREAKER AUX.	START RELAY
200	14	RED	IGNITION SWITCH	20 AMP CIRCUIT BREAKER BATT.
702	16	BROWN	CONNECTOR/NEUTRAL SWITCH	STARTER RELAY

BRIGGS & STRATTON GAS ENGINE ELECTRICAL CIRCUIT LEGEND				
#	GAUGE	COLOR	DESTINATION FROM	DESTINATION TO
701	16	BROWN	ENG SOLENOID	STARTER RELAY
700	16	TAN	CONNECTOR/NEUTRAL SWITCH	PTO SWITCH
603	16	GRAY/WHITE	PTO RELAY	PTO LIGHT
600	16	GRAY	CONNECTOR/ALTERNATOR STATOR	TACHOMETER
552	14	LT GREEN	CONNECTOR/STARTER	STARTER RELAY
551	14	DK GRN	START RELAY	IGNITION SWITCH
503	14	BLUE/RED	20 AMP CIRCUIT BREAKER AUX.	PTO RELAY
502	16	LT BLUE	PTO RELAY	PTO SWITCH
501	14	DK BLUE	PTO CLUTCH	PTO RELAY
451	18	PURPLE/WHITE	CONNECTOR/FUEL SENDER	FUEL GAUGE
450	16	PURPLE	CONNECTOR/OIL PRESSURE SWITCH	OIL PRESSURE LIGHT
401	16	ORANGE/WHITE	CONNECTOR/SEAT SWITCH	DELAY MODULE
400	16	ORANGE	CONNECTOR/SEAT SWITCH	20 AMP CIRCUIT BREAKER AUX.
702	16	BROWN	NEUTRAL SWITCH	CONNECTOR/STARTER RELAY
700	16	TAN	NEUTRAL SWITCH	CONNECTOR/PTO SWITCH
601	12	GRAY	REGULATOR	STATOR
600	16	GRAY	ALTERNATOR	CONNECTOR/TACHOMETER
552	14	LT GREEN	STARTER	CONNECTOR/STARTER RELAY
451	18	PURPLE/WHITE	FUEL SENDER	CONNECTOR/FUEL GAUGE
450	16	PURPLE	OIL PRESSURE SWITCH	CONNECTOR/OIL PRESSURE LIGHT
401	16	ORANGE/WHITE	SEAT SWITCH	CONNECTOR/DELAY MODULE
400	16	ORANGE	SEAT SWITCH	CONNECTOR/20 AMP BREAKER
315	16	WHITE/BLACK	ENG CONNECTOR/KILL WIRE	CONNECTOR/ENG SOLENOID
308	16	WHITE/BLUE	ENG CONNECTOR/KILL WIRE	CONNECTOR/IGN SWITCH
307	16	WHITE	CONNECTOR/SPLICE	ENG PLUG/FUEL SOLENOID
203	10	RED	STARTER	CONNECTOR/30A. BREAKER BATT.
118	16	BLACK	CONNECTOR	SPLICE #3
117	16	BLACK	TAIL LIGHT	TAIL LIGHT
116	16	BLACK	TAIL LIGHT	SPLICE #3
115	14	BLACK	ENG GRD	SPLICE #3
114	16	BLACK	FUEL SENDER	SPLICE #3
002	16	YELLOW	TAIL LIGHT	CONNECTOR
001	16	YELLOW	TAIL LIGHT	TAIL LIGHT
604	18	GRAY	CONNECTOR / ALTERNATOR STATOR	TACHOMETER
603	16	GRAY / WHITE	PTO RELAY	PTO LIGHT

FIGURE 19

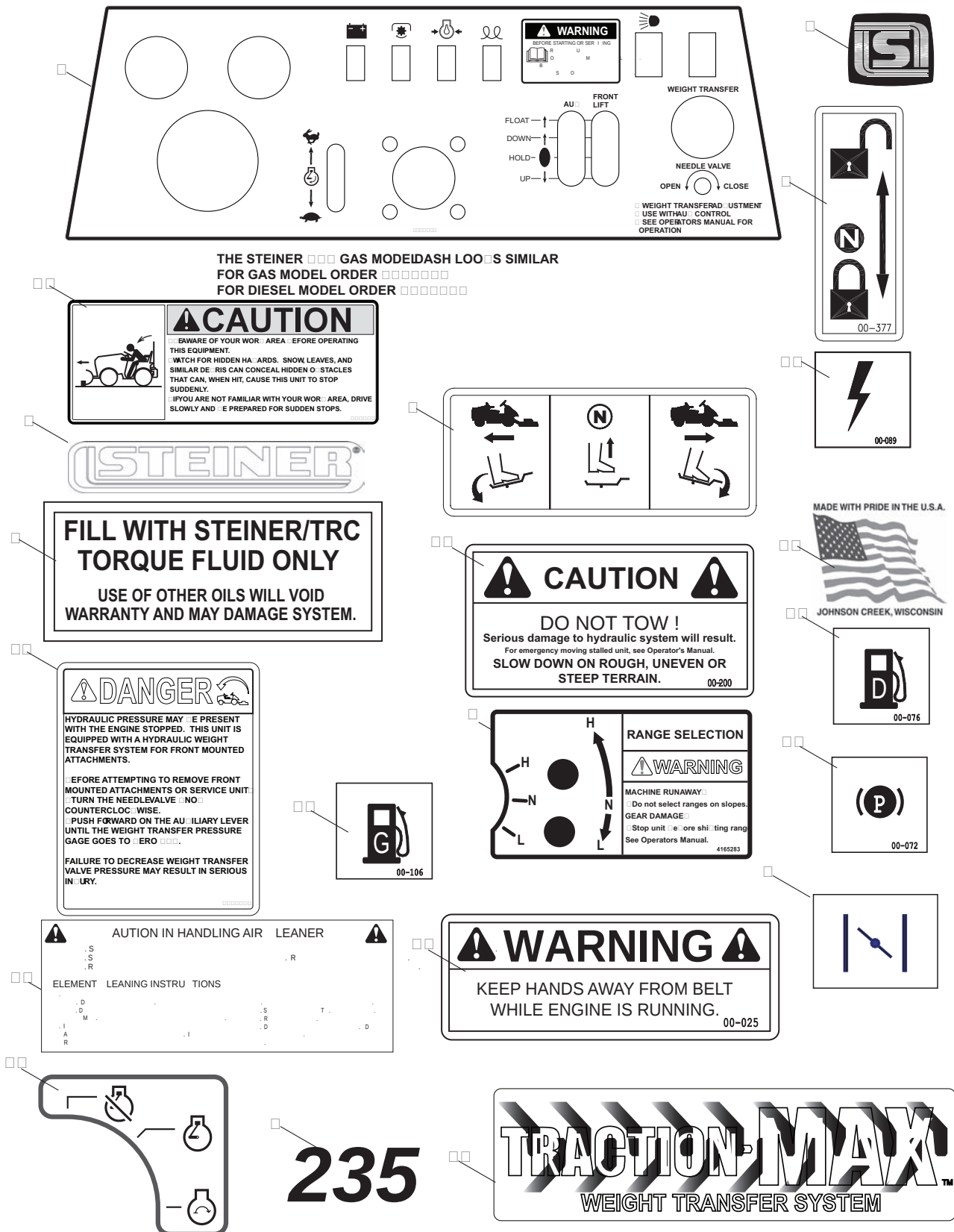


FIGURE 19

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4158620	LABEL-STEINER	3				
2	4165283	DECAL-RANGE SELECTION	1				
3	4165200	LABEL-235	2				
4	00-211	DECAL-CHOKE SYMBOL	1				
5	4162581	LABEL-EMBLEM, STEERING	1				
6	4165172	DECAL-235 DASH DIESEL (DIESEL MODEL ONLY)	1				
	4165739	LABEL-DASH GAS (GAS MODEL ONLY)	1				
7	00-377	DECAL-NEUTRAL LOCK	1				
8	00-060	DECAL-FLUID FILL	1				
9	00-260	DECAL-FWD/REV PEDAL	1				
10	00-089	DECAL-IGNITION	1				
11	4165363	DECAL-DNGR HYD PRESS	1				
12	00-200	DECAL-CAUTION TOW	1				
13	4116761	LABEL-MADE IN USA	1				
14	00-313	DECAL-AIR CLEANER KUB (DIESEL MODEL ONLY)	1				
15	00-025	DECAL-HANDS/BELT	2				
16	00-106	DECAL-GASOLINE (GAS MODEL ONLY)	1				
17	00-076	DECAL-DIESEL FUEL (DIESEL MODEL ONLY)	1				
18	00-072	DECAL-PARKING BRAKE	1				
19	4165201	DECAL-TRACTION MAC	1				
20	4165740	LABEL-KEYSWITCH (GAS MODEL ONLY)	1				
21	4168388	DECAL-SUDDEN STOP	1				

75-70730 ROPS BAR WITH SEAT BELT (RB230)

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FIGURE 20

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	62-636.7	ROLL BAR	1	8	64-905.7	BRKT, SEAT BELT LH	1
2	64123-15	BOLT-HEX 3/8-16X3/4	12	9	64-904.7	BRKT, SEAT BELT RH	1
3	90-0710	BOLT-HEX 7/16-14X1-1/4	2	10	64141-4	NUT-WLF 3/8-16	12
4	64163-43	WASHER .443/.454X1X11GA	3	11	99-B12	SPACER	1
5	47-059	SEATBELT, 50"LONG	1	12	64163-64	WSHR 1.015X1.500X14GA	2
6	64006-06	LOCKWASHER 7/16	2	13	64139-18	BLT-WLF 3/8-16X1-1/4	2
7	64-799	WASHER, 13/32X1-9/32	2	14	92-07	NUT-HEX 7/16-14	2
				15	4133528	LABEL-ROLLBAR SPECS	1

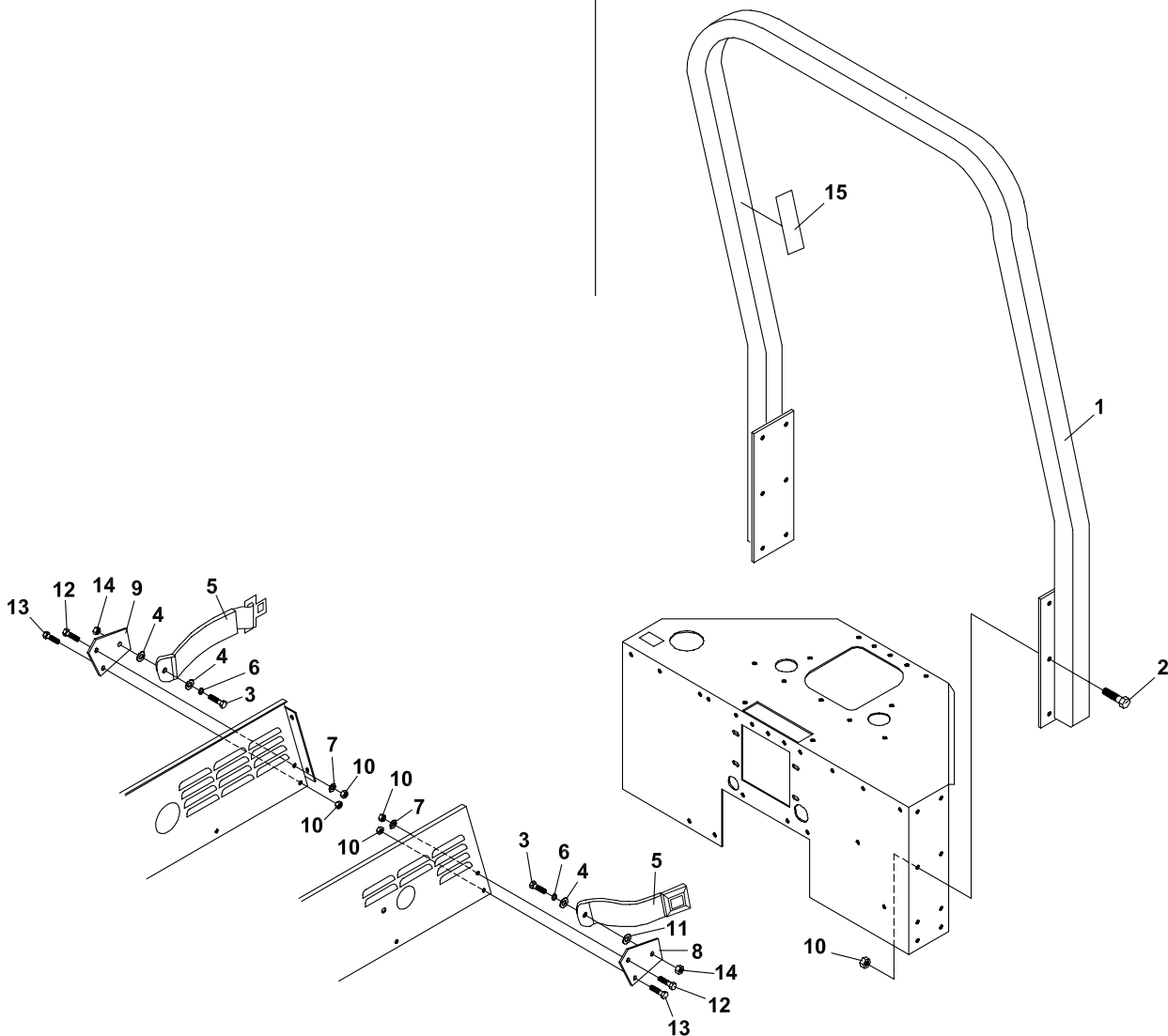


FIGURE 21

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	62-540.7	WEIGHT, 50# BALLAST	2				
2	64141-13	NUT-WLF 1/2-13	2				
3	62-830.7	BASE, 220 WEIGHT BAR	1				
4	90-0808	BOLT-1/2X1	2				
5	64-865.7	SECURITY BAR	1				
6	02-PP0313	PIN 3/16X1.5/8	1				

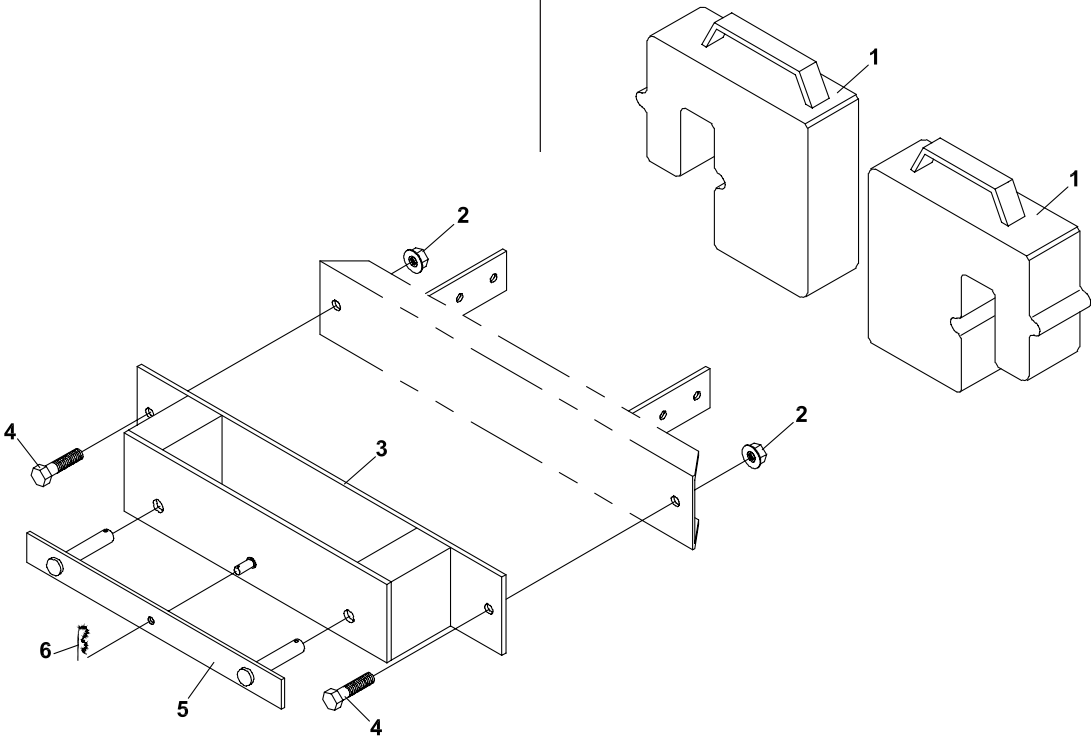
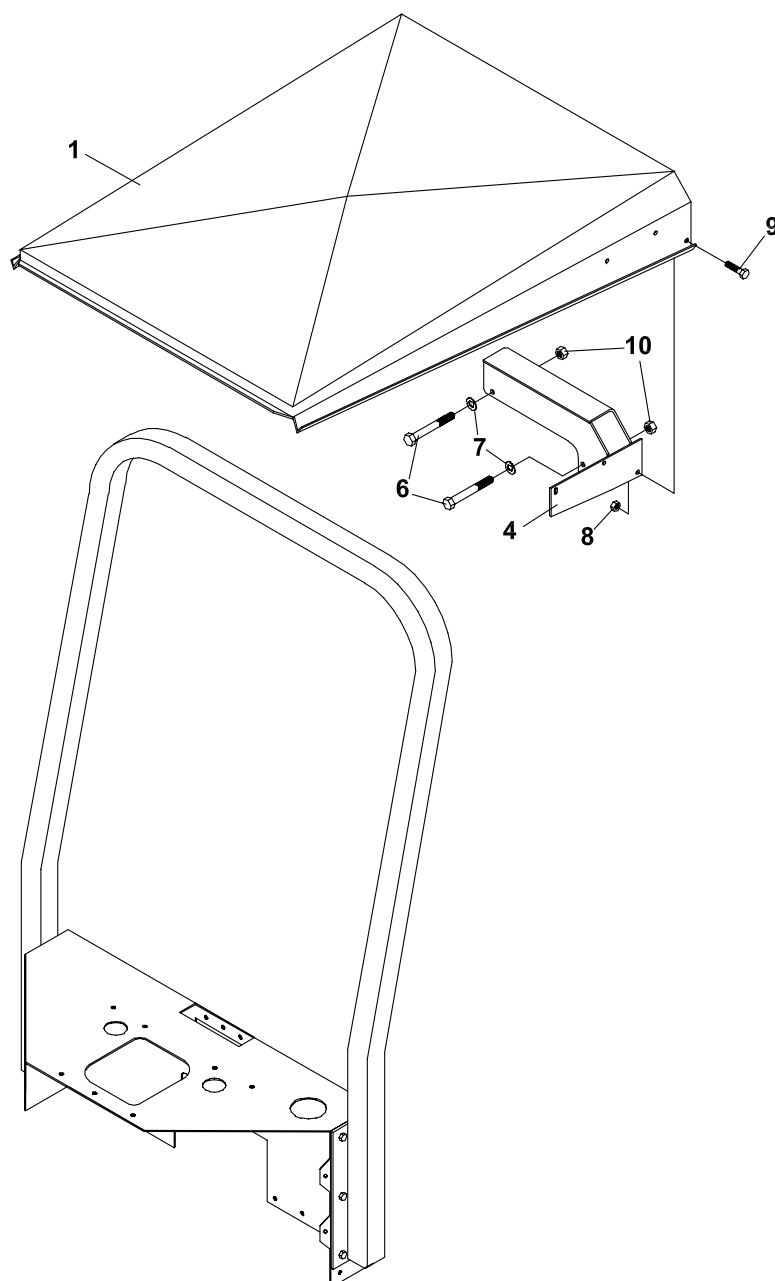


FIGURE 22

1	6106001.17 CANOPY, 230	1	8	64141-6	NUT, 5/16-18	6
2 *	6106009 CANOPY HEADLINER	1	9	64139-08	BOLT-5/16-18X3/4 WLF	6
3 *	4128372 LABEL-STEINER DIECUT	1	10	F3013	NUT, FLANGED LOCK	4
4	6106020.7 MOUNT, CANOPY RH	1				
5	6106021.7 MOUNT, CANOPY LH	1				
6	64123-75 BOLT, 3/8-16X3 HEX	4				
7	64163-61 WSHR .81X.406X16GA	4				
				* NOT ILLUSTRATED		



STEINER BELT CHART

MODEL	220	230	230 Diesel	235	410	415	420	430	440	425	525	UM428
Tractor PTO Belt	81-A034 W/O El Clutch 81-B033 W/EI Clutch	81-B033	81-B033	4165347	81-B039	81-B039	81-A038 SN: 1001-2999 81-B039 SN: 3000-5000	81-B039	416636 5LX44	81-B042 W/O El Clutch 81-B040 W/EI Clutch	81-B042	81-B029
MR, MW, MD, MX. Rotary mowers	81-A040	81-A040	81-B041	81-B041	81-A040	81-A040	81-A040	81-A040	81-B041	81-B041	81-B041	81-B040
BM425 Boom Mower	N/A	N/A	N/A	N/A	N/A	N/A	81-A040	81-A040	81-B041	81-B041	81-B041	N/A
MC444 Tree Farm Mower	N/A	N/A	N/A	N/A	N/A	N/A	81-A040	81-A040	N/A	81-B041	81-B041	N/A
RC466 Rough Cut Mower	81-A042 W/O El Clutch 81-A040 W/EI Clutch	81-A040	81-B041	81-B041	N/A	N/A	81-A040	81-A040	81-B041	81-B041	81-B041	81-B040
RM674 & 684 Reel Mowers	81-A045 W/O El Clutch 81-A043 W/EI Clutch	81-A043	81-B043	81-B043	N/A	N/A	81-A043	81-A043	81-B044	81-B044 W/O El Clutch 81-B042 W/EI Clutch	81-B043	81-B042
CS312 Chipper Shredder	N/A	N/A	N/A	N/A	N/A	N/A	81-B041	81-B041	81-B041	81-B041	81-B041	81-B040
GN10KW Generator	81-B050	81-B050	81-B050	81-B050	81-B050	81-B050	81-B050	81-B050	81-B050	81-B050	81-B050	81-B050
LD300 Loader	N/A	N/A	N/A	N/A	N/A	N/A	81-A026	81-A026	N/A	N/A	N/A	N/A
PB100 & PB200 Power Blower	81-A042 W/O El Clutch 81-A040 W/EI Clutch	81-A040	81-B041	81-B041	81-A040	81-A040	81-A040	81-A040	81-B041	81-B041 W/O El Clutch	81-B041	81-B040
PR348 Power Box Rake	81-A043 W/O El Clutch 81-A045 W/O El Clutch	81-A043	81-B043	81-B043	N/A	N/A	81-A043		81-B044	81-B044 W/O El Clutch	81-B043	81-B043
RS350 small Rotary Sweeper	81-A042 W/O El Clutch 81-A040 W/EI Clutch	81-A040	81-B040	81-B040	81-A040	81-A040	81-A040	81-A040	81-B041	81-B042 W/EI Clutch	81-B040	81-B040
RS454 large Rotary Sweeper	81-A048 W/O El Clutch 81-A046 W/EI Clutch	81-A046	81-B046	81-B046	81-A046	81-A046	81-A046	81-A046	81-B045	81-B046	81-B046	81-B044
SB348 Snowblower	81-A055 W/O El Clutch 81-A053 W/EI Clutch	81-A053	81-B054	81-B054	81-A053	81-A053	81-A053	81-A053	81-B054	81-B054 W/O El Clutch	81-B054	81-B053
SN:1001-1713 SB348 Snowblower	81-A053 W/O El Clutch 81-A051 W/EI Clutch	81-A051	81-B051	81-B051	81-A051	81-A051	81-A051	81-A051	81-B052	81-B053 W/O El Clutch	81-B051	81-B051
SN:1714-7570665*** SB448 Snowblower	81-A051 W/EI Clutch	4165834	4165850	4165850	4165834	4165834	4165834	105803	105803 4165834	81-B051 W/EI Clutch		
SB454 Snowblower		4165834	4165850	4165850	4165834	4165834	4165834	105803	105803 4165834			
SC101 Stump Cutter	N/A	N/A	N/A	N/A	81-A043	81-A043	81-A043	81-A043	81-B044	81-B045 W/O El Clutch	81-B0424	81-B042
TH300 Trencher	N/A	N/A	N/A	N/A	N/A	N/A	81-B050	81-B050	81-B050	81-B051 W/EI Clutch	81-B051	81-B050
TL348 Tiller	81-A042 W/O El Clutch 81-A040 W/EI Clutch	81-A040	81-B041	81-B041	81-A040	81-A040	81-A040	81-A040	81-B041	81-B041 W/O El Clutch	81-B041	81-B040
VA242 Vertical Auger	N/A	N/A	N/A	N/A	N/A	N/A	81-A027	81-A027	N/A	N/A	N/A	N/A

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