

RANSOMES®

PARTS MANUAL

700 SERIES MOWERS

Models:

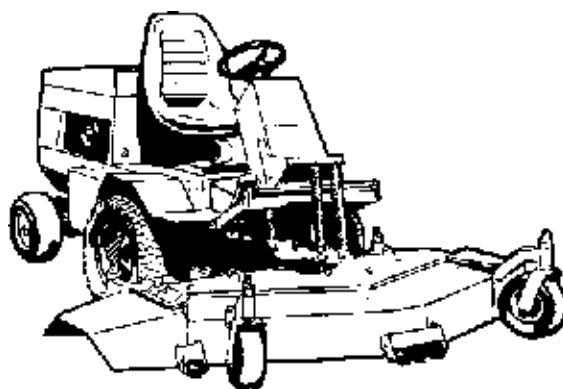
946708, 946709, 946710

(Operation & Safety Manual: 2198270)

Cutting Units:

956006, 956306, 957210, 957215

(Parts Manual: 2198105)



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.

RANSOMES

TEXTRON
GOLF, TURF & SPECIALTY PRODUCTS

2198250 REV04

**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.

700 Series Front Line Tractors

IMPORTANT MESSAGE

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

This machine comes with an Operation and Safety Manual and a separate Setup, Parts and Maintenance 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 Ransomes 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 Ransomes dealer for any service or parts needed. Ransomes service ensures that you continue to receive the best results possible from Ransomes's products. You can trust Ransomes replacement parts because they are manufactured with the same high precision and quality as the original parts.

Ransomes 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.

Textron Golf, Turf & Specialty Products
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.

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

SPECIFIC TORQUES:

BLADE BOLT: 70 FT-LBS (95 Nm)
WHEEL HUB NUTS: 300 FT-LBS (407 Nm)
TORQUE REAR WHEELS TO 80 FT-LBS
TORQUE FRONT WHEELS TO 55 FT-LBS



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 Ransomes 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.

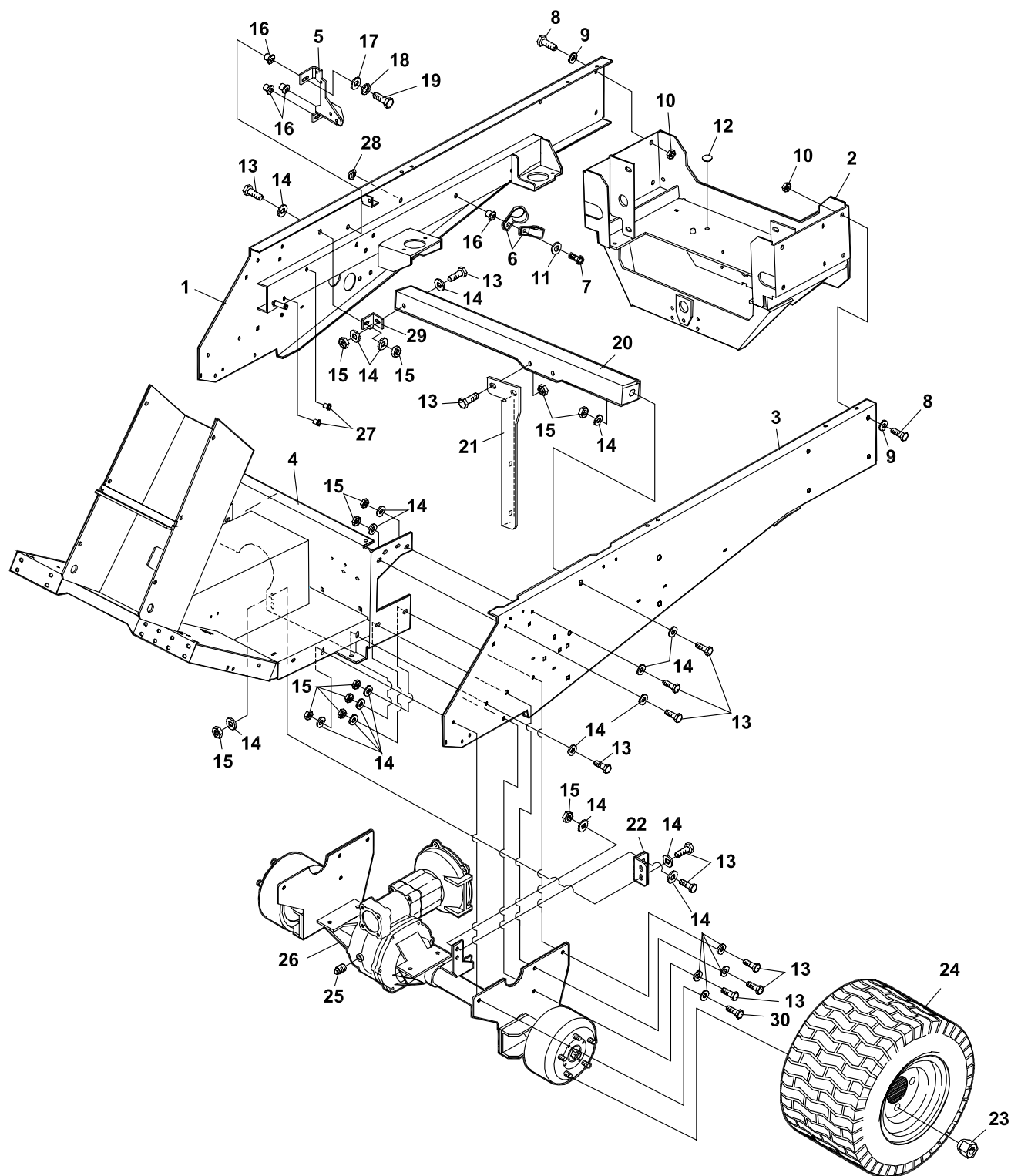
SERIAL NUMBER: This number appears only on your mower. It contains the model number followed consecutively by the serial number. Use this number when ordering parts or seeking warranty information.

PARTS SECTION

FRAME & FRONT AXLE ASSEMBLY

700 Series Front Line Tractors

FIGURE 1



700 Series Front Line Tractors

FRAME & FRONT AXLE ASSEMBLY

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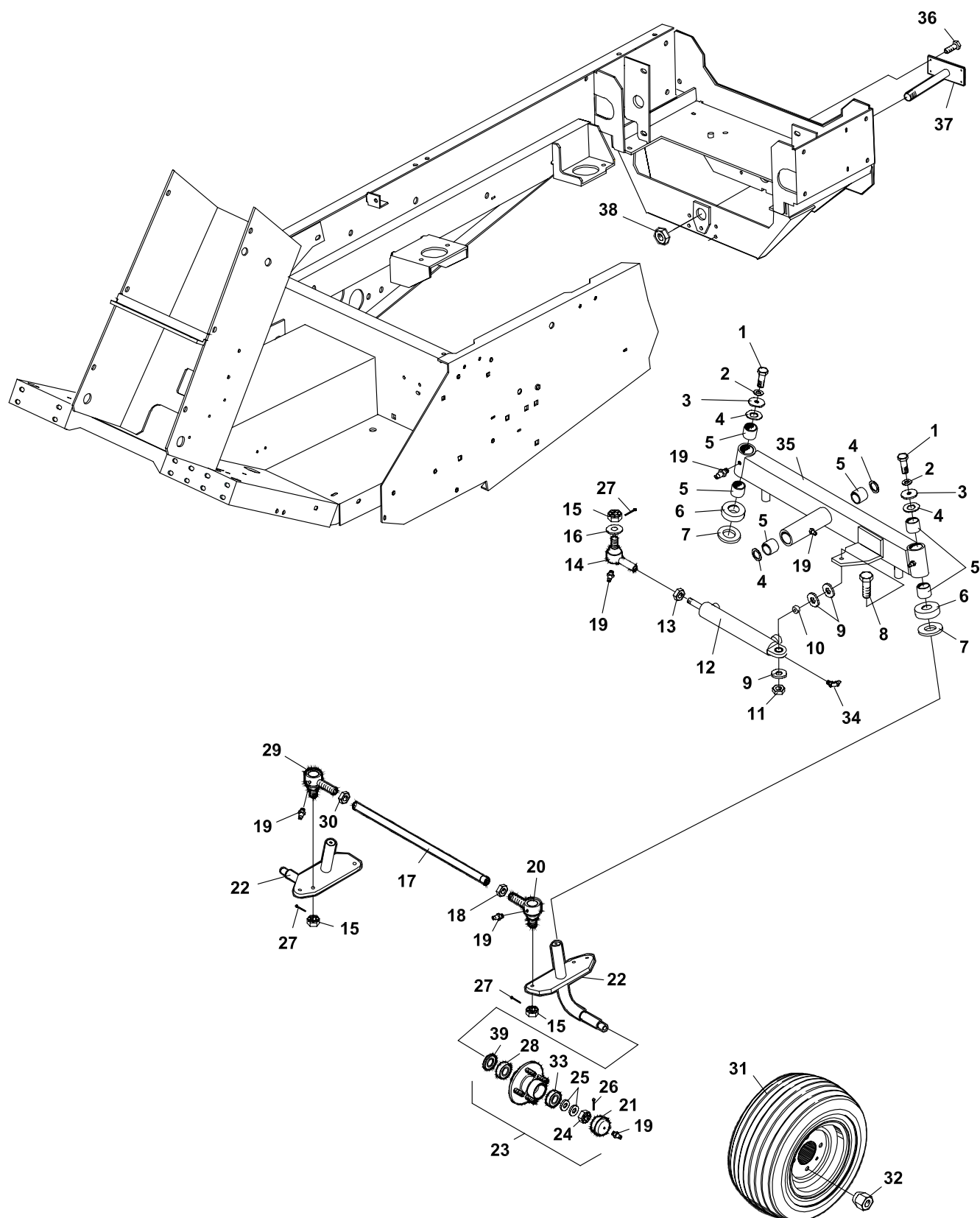
FIGURE 1

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1-1	2196241	S-FRAME RAIL RH	1				
1-2	2196132.2	WLDMT-FRAME, REAR	1				
1-3	2196242	S-FRAME RAIL LH	1				
1-4	2196154	S-WLDMT-FRAME, FRONT	1				
1-5	2721812.7	MNT-IDLER BRKT	1				
1-6	48228-2A	CABLE CLIP 3/4 W/INSTN	2				
1-7	64205-003	BLT-MET M8-1.25X30	1				
1-8	A1105061	BOLT-M12-1.75X30	8				
1-9	64251-005	WHSR-M12	8				
1-10	64237-06	LOCKNUT-NYL M12-1.75	8				
1-11	64006-02	LOCKWSHR-HELICAL 5/16	1				
1-12	48517-05	HOLE PLUG .515	2				
1-13	A110406	SCREW,M10X1.5X30	19				
1-14	64251-004	WHSR-M10	42				
1-15	64237-03	LOCKNUT-NYL M10-1.5	21				
1-16	64250-04	INSERT-GRIP M8 (USE INSERT TOOL 2196247)	4				
1-17	64251-003	WHSR-M8	3				
1-18	64006-02	LOCKWSHR-HELICAL 5/16	3				
1-19	A1103051	BOLT-M8-1.25X25	3				
1-20	2192605.7	BRACE-JACKSHAFT TOP	1				
1-21	2192604.7	BRACE-JACKSHAFT REAR	1				
1-22	2192612.7	BRKT-JACKSHAFT MNT	1				
1-23	800419	NUT,WHEEL,RETAINING	10				
1-24	2198156	WHEEL ASSY-23x10.5-12	2				
	2198156-01	RIM ASM W/ VLV STM	A/R				
	2198156-02	TIRE-23x10.5-12	A/R				
1-25	108029	PLUG,MAGNETIC	1				
1-26	2198232	DIFFERENTIAL AXLE	1				
1-27	64250-02	INSERT-M6 (USE INSERT TOOL 2196246)	2				
1-28	48517-01	HOLEPLUG .625	1				
1-29	2192606.7	BRACKET-BRACE TOP	1				
1-30	64205-036	BLT-MET M10-1.50X35	2				

REAR AXLE ASSEMBLY

700 Series Front Line Tractors

FIGURE 2



700 Series Front Line Tractors

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REAR AXLE ASSEMBLY

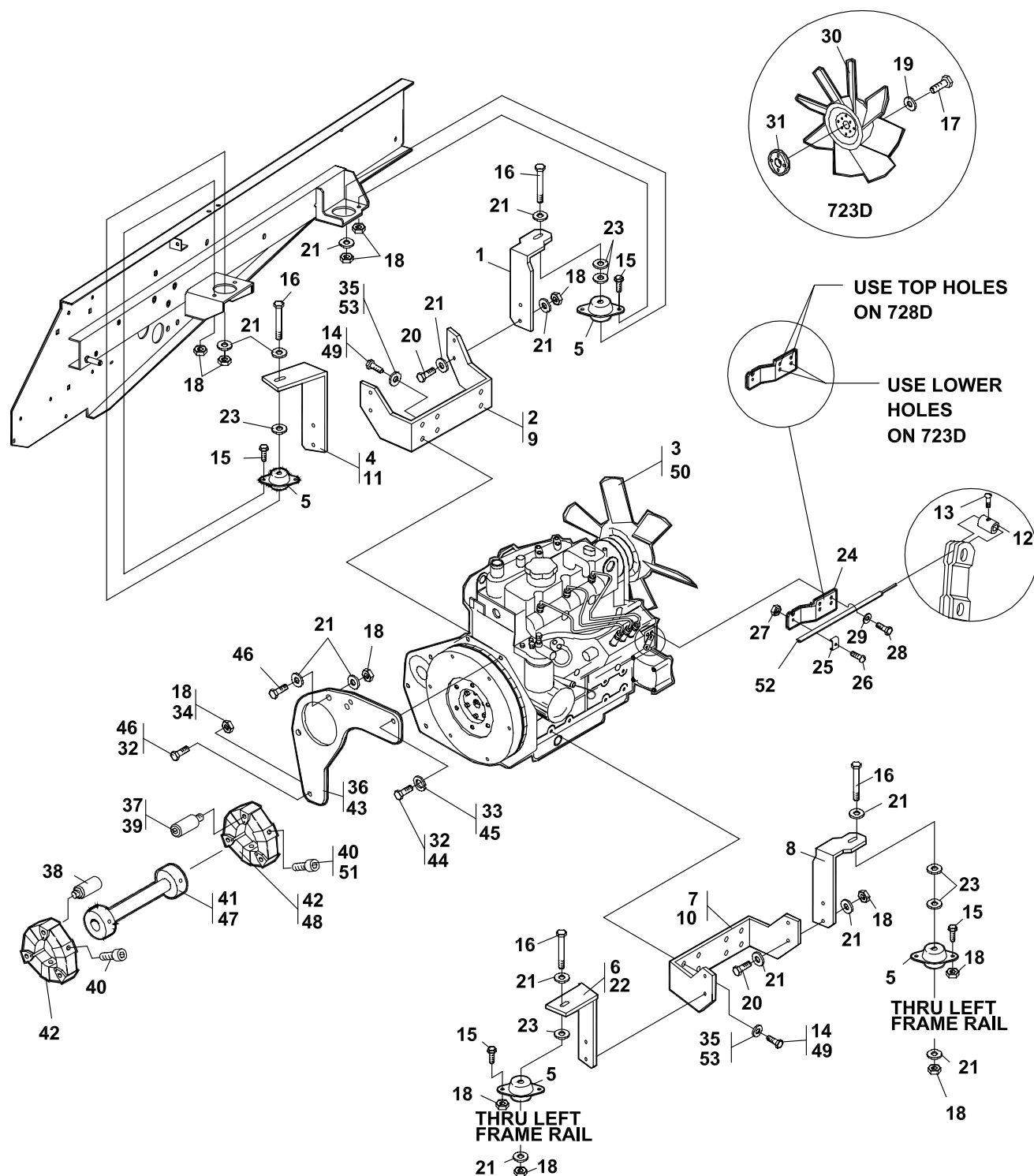
FIGURE 2

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
2-1	64205-007	BLT-MET. M10-1.5X20	2	2-31	2198231	WHEEL ASM, 18 X 8.5	2
2-2	800488	LOCKWASHER M10	2		2198209-02	RIM ASM	A/R
2-3	64163-17	25/64X2X11 GA WSHR	2		2198231-01	TIRE-18x8.50 RIB TR	A/R
2-4	62464-4A	WASHER-THRUST	4				
2-5	108003	BUSHING	6	2-32	64187-03	WHEEL NUT 1/2-20	8
2-6	2721223	THRUST BEARING	2	2-33	48043-03C	S CUP, OUTER BEARING	2
2-7	173042	SPACER-SPINDLE	2	2-34	35027N	ZERK FITTING	1
2-8	64123-72	BLT-HEX 1/2-13X2-1/2	1	2-35	2196145.2	WLDMT-REAR AXLE	1
2-9	64163-19	WASHER	3	2-36	64197-001	BLT-TR 5/16-18X3/4	4
2-10	2203049	BUSHING STEERING CYL	1	2-37	2206030.7	WLDMT-REAR AXLE PIVOT	1
2-11	64229-05	LOCKNUT-1/2-13	1	2-38	64151-29	NUT-HEX 1 1/4-12 NYLOCK	1
2-12	198040	CYLINDER-STEERING	1	2-39	48480	SEAL CR 12411	2
2-13	800490	NUT-14 MM -1.5	1				
2-14	2721183	END-TIE ROD	1				
		(INCLUDES ITEMS 15 & 19)					
2-15	64025-30	NUT-1/2-20 SLOT	3				
2-16	64251-005	WHSR-M12	1				
2-17	2193045.7	TIE ROD	1				
2-18	64025-27	NUT 5/8-18 LH	1				
2-19	85010N	ZERK-1/4-28 STR	8				
2-20	148058-02	ROD END LH	1				
		(INCLUDES ITEMS 15 & 19)					
2-21	48479	S DUST COVER	2				
2-22	2721185.7	WLDMT-WHL SPNDL R	2				
2-23	48476-A1	HUB ASM	2				
		(INCLUDES ITEMS 19, 21, 24-26, 28, 33 & 39)					
2-24	64025-20	NUT-HEX 3/4-16 SLOT U	2				
2-25	64163-26	WASHER,.766 ID X 1.625	4				
2-26	64140-5	COTTER PIN-1/8X1-1/2	2				
2-27	64140-1	COTTER PIN-1/8X1	3				
2-28	48043-04C	S CONE, OUTER BEARING	2				
2-29	148058-01	ROD END R.H	1				
		(INCLUDES ITEMS 19)					
2-30	64025-16	NUT-5/8-18 RH	1				

ENGINE MOUNTING 723D & 728D

700 Series Front Line Tractors

FIGURE 3



700 Series Front Line Tractors

ENGINE MOUNTING 723D & 728D

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FIGURE 3

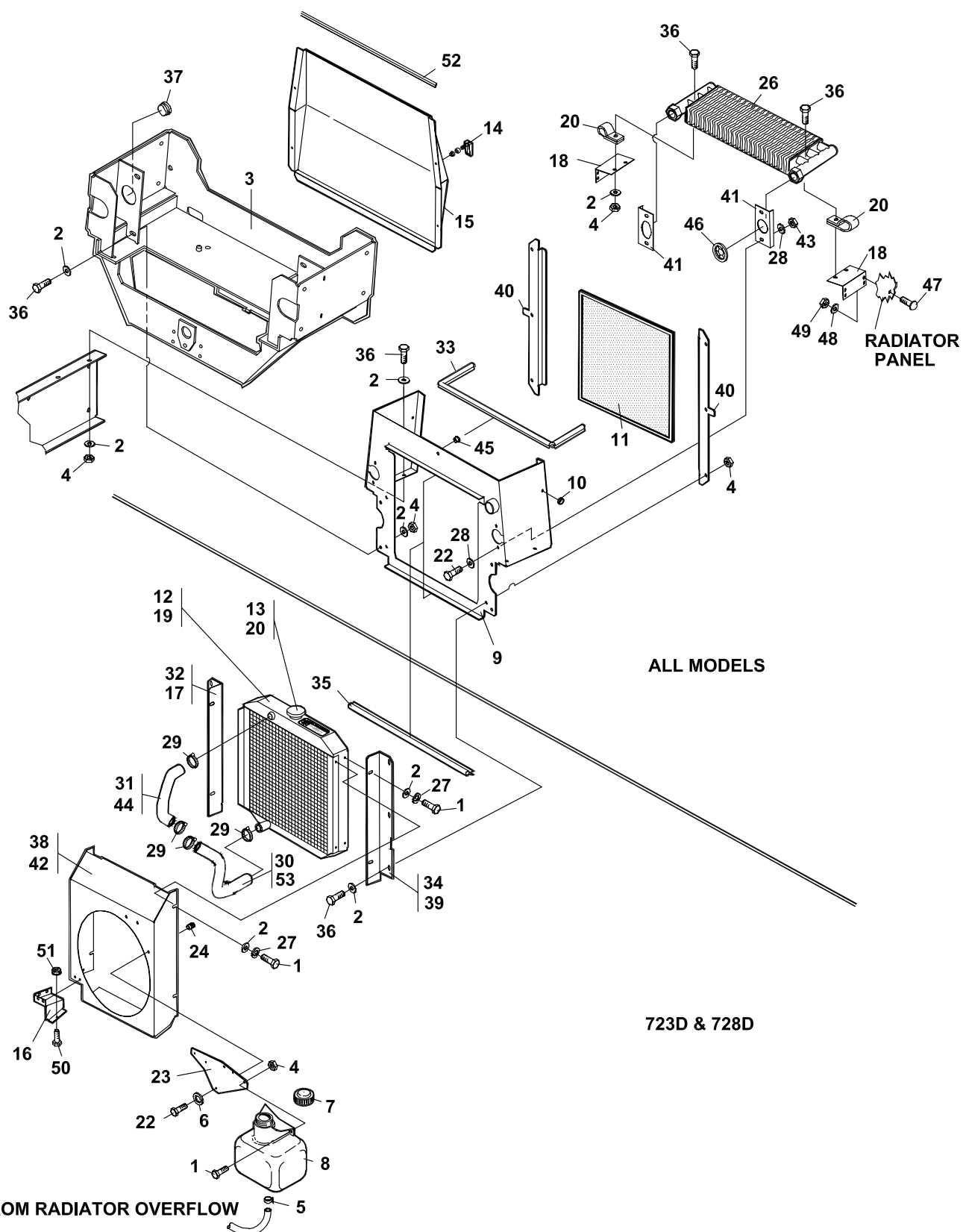
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
3-1	2192447	MOUNT-ENGINE R.R.	1	3-34	64237-05	LOCKNUT-NYLON M8-1.25 (USE ON 946708-723D ONLY)	1
3-2	2192593	MOUNT-ENGINE, RH (USE ON 946708-723D ONLY)	1	3-35	450424	LOCKWASHER-M12X21X2.5 (USE ON 946708-723D ONLY)	8
3-3	2198186	ENG-PERKINS 103-10	1	3-36	2192597	PLATE-STARTER SUPT (USE ON 946708-723D ONLY)	1
	2198280	FILTER-OIL PERKINS		3-37	2193052-03	BLT-SHLDR SPCL 16.90X32 (GOLD FINISH) (USE ON 946708-723D ONLY)	3
	2208175	FILTER, FUEL		3-38	2193052-02	BLT-SHLDR SPCL 16.90X32 (BLACK FINISH ON ENDS)	3
	*(SEE SERVICE MANUAL FOR PERKINS KD30241)			3-39	2193052-01	BLT-SHLDR SPCL 18.90X42 (BLACK FINISH ON ENDS) (USE ON 946710-728D ONLY)	3
	* 080109049	FAN BELT		3-40	64223-03	CAPSCREW, 10-1.25X35 (USE QTY 6 ON 723D & QTY 3 ON 728D)	
	* ZZ7B901	WATER SEPARATOR		3-41	2193051	TUBE-DRIVESHAFT-708 (USE ON 946708-723D ONLY)	1
	* 185306091	GLOW INDICATOR		3-42	2198247	COUPLING-FLEX #8 (USE QTY 2 ON 723D & QTY 1 ON 728D)	
	* 385201160	KEY SWITCH		3-43	2192598	PLATE-STARTER SUPT (USE ON 946710-728D ONLY)	1
	* 385620220	DIODE (USE ON 946708-723D ONLY)		3-44	A1104057	BOLT-M10-1.50X25 (USE ON 946710-728D ONLY)	2
3-4	2192595	MOUNT-ENGINE RF (USE ON 946708-723D ONLY)	1	3-45	800488	LKWSHR,10MM (USE ON 946710-728D ONLY)	2
3-5	2198132	MOUNT-ISOLATION	4	3-46	64205-011	BLT-MET M10-1.50X40 (USE QTY 2 ON 723D & QTY 4 ON 728D)	
3-6	2192594	MOUNT-ENGINE LF (USE ON 946708-723D ONLY)	1	3-47	2193054	TUBE-DRIVESHAFT-710 (USE ON 946710-728D ONLY)	1
3-7	2192592	MOUNT-ENGINE, LH (USE ON 946708-723D ONLY)	1	3-48	2198267	COUPLING-FLEX #16 (USE ON 946710-728D ONLY)	1
3-8	2192448	MOUNT-ENGINE L.R.	1	3-49	64206-14	HHCS-M14-1.5 X 30 (USE ON 946710-728D ONLY)	8
3-9	2192525	MNT-ENGINE RH (USE ON 946710-728D ONLY)	1	3-50	2198185	ENG-PERKINS 103-13	1
3-10	2192449	MOUNT-ENGINE LH (USE ON 946710-728D ONLY)	1		2208174	FILTER-OIL	
3-11	2192450	MOUNT-ENGINE R.F. (USE ON 946710-728D ONLY)	1		2208175	FILTER, FUEL	
3-12	2198211	SWIVEL-CABLE CLAMP	1		*(SEE SERVICE MANUAL FOR PERKINS KH70247)		
3-13	64205-042	BLT-MET M4-.7X12	1		* 080109061	FAN BELT	
3-14	64206-16	BLT-MET FINE 12-1.25X25 (USE ON 946708-723D ONLY)	8		* ZZ7B901	WATER SEPARATOR	
3-15	64205-007	BLT MET M10-1.50X20	8		* 185306091	GLOW INDICATOR	
3-16	64205-019	BLT-MET M10-1.50X80	4		* 385201160	KEY SWITCH	
3-17	64205-025	BLT-MET M6-1.00X25 (USE ON 946708-723D ONLY)	4		* 385620220	DIODE (USE ON 946710-728D ONLY)	
3-18	64237-03	LOCKNUT-NYL M10-1.5	20	3-51	64223-07	SCH CAPSCR M12X1.75X40 (USE ON 946710-728D ONLY)	3
3-19	64006-01	LOCKWASHER-1/4 HEL (USE ON 946708-723D ONLY)	4	3-52	148057-01	CABLE-THROTTLE	1
3-20	64205-027	BLT-MET M10-1.5X40	8	3-53	64006-13	WASHER-HELICAL 9/16 (USE ON 946710-728D ONLY)	8
3-21	64251-004	WHSR-M10	28				
3-22	2192451	MOUNT-ENGINE L.F. (USE ON 946710-728D ONLY)	1				
3-23	64163-27	WASHER-FLAT 2.0X.453X11	6				
3-24	2192486	BRKT-THROTTLE	1				
3-25	22372	B&S CABLE CLAMP	1				
3-26	64152-10	10-24X3/4 MACH SCREW	1				
3-27	64025-15	NUT-HEX #10-24 KEPS	1				
3-28	A1102966	BOLT-M6-1.00X16	2				
3-29	64251-002	WASHER-M6	2				
3-30	2198274	FAN-13 (USE ON 946708-723D ONLY)	1				
3-31	2193055	SPACER-FAN 723D (USE ON 946708-723D ONLY)	1				
3-32	64205-001	BLT-MET M8-1.25X20 (USE ON 946708-723D ONLY)	3				
3-33	64006-02	LOCKWASHER-HEL 5/16 (USE ON 946708-723D ONLY)	5				

*AVAILABLE THROUGH PERKINS DEALER

RADIATOR MOUNTING

700 Series Front Line Tractors

FIGURE 4



700 Series Front Line Tractors

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RADIATOR MOUNTING

FIGURE 4

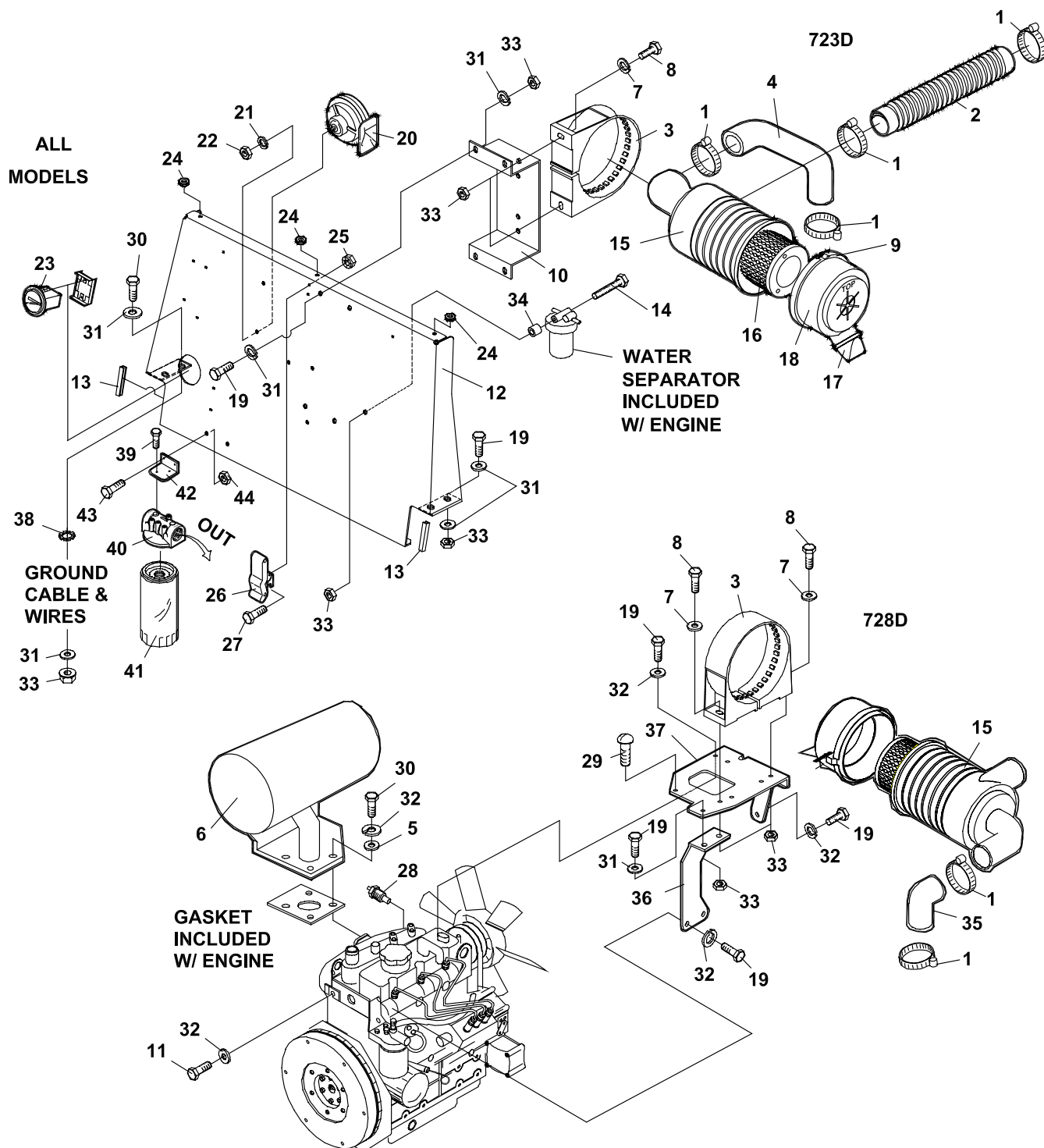
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
4-1	64205-018	BLT-MET. M8-1.25X15	14	4-32	2192588	MOUNT-RAD RH (USE ON 946708-723D-ONLY)	1
4-2	64251-003	WASHER-M8	36	4-33	108194-13	CHANNEL-FLEX TRIM 39.0	1
4-3	2196132	WLDMT-REAR FRAME	1	4-34	2192587	MOUNT-RAD LH (USE ON 946708-723D-ONLY)	1
4-4	64237-05	LOCKNUT-NYL M8-1.25	18	4-35	108194-11	CHANNEL-FLEX TRIM 17.0	2
4-5	88042-01	CLAMP-HOSE 3/16	1	4-36	64205-001	BLT-MET. M8-1.25X20	16
4-6	64006-01	LOCKWSHR-HELICAL 1/4	3	4-37	48256	PLUG-HOLE	2
4-7	831905	CAP-OVERFLOW BOTTLE	1	4-38	2196229	S-FAN SHROUD (USE ON 946708-723D-ONLY)	1
4-8	831906	BOTTLE-OVERFLOW	1	4-39	2192439.7	MOUNT-RADIATOR LH (USE ON 946710-728D-ONLY)	1
4-9	2196211	S RADIATOR PNL W/LABS	1	4-40	2192441	SCREEN GUIDE	2
4-10	118047-06	BUSHING FLIPLOCK .31 ID	2	4-41	2192549.7	COVER-OIL COOLER	2
4-11	2198175	SCREEN	1	4-42	*2196219	S-FAN SHROUD W/LAB (USE ON 946710-728D-ONLY)	1
4-12	2198238	RADIATOR (USE ON 946708-723D-ONLY) (INCLUDES ITEM 13)	1	4-43	64237-02	LOCKNUT-NYL M6-1.0	4
4-13	2198238-01	CAP-RADIATOR (USE ON 946708-723D-ONLY)	1	4-44	2198177	HOSE-UPPER RADIATOR (USE ON 946710-728D-ONLY)	1
4-14	2198084	LATCH-SWELL	4	4-45	48517-05	HOLE PLUG	1
4-15	2196150	S REAR PANEL W/LABS	1	4-46	2218084	GROMMET	2
4-16	2192591	BRKT-SHROUD FAN	1	4-47	64018-2	BLT-CRG 1/4-20X3/4	4
4-17	2192440.7	MOUNT-RADIATOR RH (USE ON 946710-728D-ONLY)	1	4-48	64163-03	WASHER	4
4-18	2192599	MOUNT-OIL COOLER	2	4-49	64229-01	NUT-1/4-20	4
4-19	2198174	RADIATOR (USE ON 946710-728D-ONLY) (INCLUDES ITEM 20)	1	4-50	64139-20	BOLTMET M6X16	5
4-20	2178211-01	CAP-RADIATOR (USED ON 946710-728D-ONLY)	1	4-51	64246-01	NUT-M6	5
4-21	48228-1A	CLIP-CABLE INSULATED	4	4-52	108194-06	CHANNEL-FLX TRIM 21.5"	1
4-22	A1102966	BOLT-M6-1.00X16	7	4-53	2198178	HOSE-LOWER RADIATOR (USE ON 946710-728D-ONLY)	1
4-23	2192470	MOUNT-BOTTLE	1				
4-24	64250-02	INSERT-GRIP M6X1.0 (REQUIRES ITEM 25 FOR INSTALLATION)	3				
4-25	*2196246	S-INSERT TOOL M6					
4-26	2198176	OIL COOLER	1				
4-27	64006-02	LOCKWASHER-HEL. 5/16	10				
4-28	64251-002	WASHER M6	8				
4-29	108094-01	CLAMP	4				
4-30	2198245	HOSE-RAD LOWER (USE ON 946708-723D-ONLY)	1				
4-31	2198244	HOSE-RAD UPPER (USE ON 946708-723D-ONLY)	1				

* NOT ILLUSTRATED

FUEL SEPARATOR/AIR CLEANER

700 Series Front Line Tractors

FIGURE 5



700 Series Front Line Tractors

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FUEL SEPARATOR/AIR CLEANER

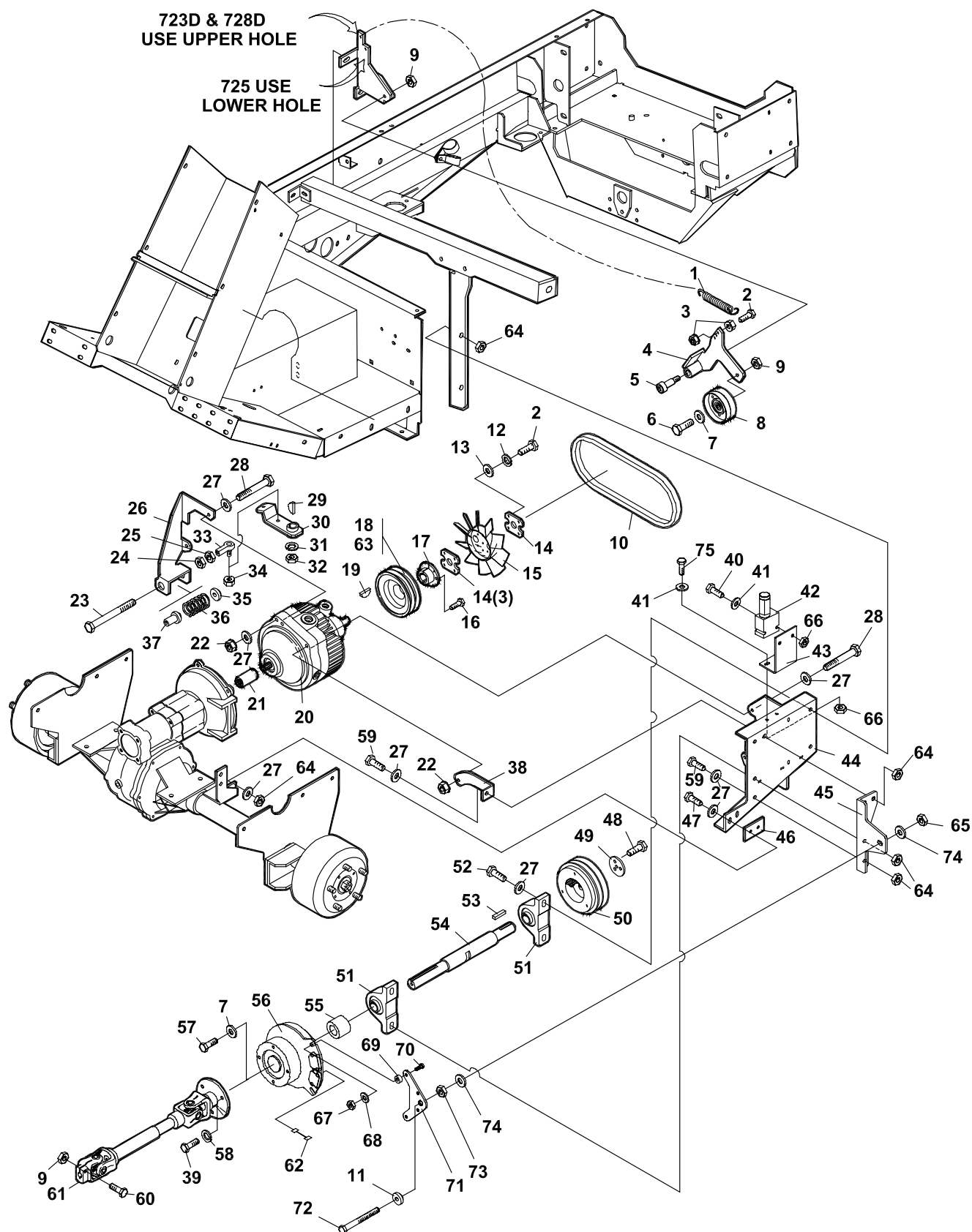
FIGURE 5

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
5-1	48383	CLAMP HOSE 2-1/2 DIA	4	5-38	64002-04	LCKWASH-TOOTH EXT	1
5-2	198069-02	HOSE-AIR CLEANER IN	1	5-39	64139-02	BLT-WLF 1/4-20x1/2	2
5-3	2198297	CLAMP-AIR CLEANER	1	5-40	148354	HEAD-FILTER	1
5-4	2198243	HOSE-AIR CLEANER (USE ON 946708-723D-ONLY)	1	5-41	118017	FILTER ELEMENT 10 MIC	1
				5-42	2192609	BRACKET-FILTER	1
5-5	64237-02	LOCKNUT-M6	2	5-43	A1102966	BOLT-M6-1X16	2
5-6	2208033	MUFFLER	1				
5-7	64163-29	21/64X1X11GA.WASHER	6				
5-8	64205-015	BLT-MET M8-1.25X35	2				
5-9	2198147-04	S COVER CLIP	1				
5-10	2192800	BRKT-AIR CLEANER (USE ON 946708-723D-ONLY)	1				
5-11	64205-018	BLT MET M8-1.25X15	1				
5-12	2192492	PANEL-FRONT	1				
5-13	108074-15	FLEX TRIM	1				
5-14	64205-026	BLT-MET. M8-1.25X80	1				
5-15	2198147	AIR CLEANER (CONTAINS ITEMS 9 & 16-18)	1				
5-16	2198147-01	ELEMENT	1				
5-17	2198147-02	VALVE-DUST UNLOAD	1				
5-18	2198147-03	COVER	1				
5-19	64205-001	BLT-MET M8-1.25X20	11				
5-20	886425	HORN	1				
5-21	64006-01	LOCKWASHER 1/4	1				
5-22	64207-06	NUT-HEX M6-1.0	1				
5-23	48030N	HOUR METER ASSLY	1				
5-24	2198125	BUMPER	3				
5-25	64025-29	NUT-HEX #8-32 KEPS	2				
5-26	2198112	LATCH-HOOD	1				
5-27	64152-20	8-32X 1/2 MACH SCREW	2				
5-28	148270	TEMPERATURE SENDER	1				
5-29	64218-03	SCR-BTN HD M8-1.25X16 (USE ON 946710-728D-ONLY)	1				
5-30	A1103051	BOLT-M8-1.25X25	5				
5-31	64251-003	WASHER-M8	9				
5-32	64006-02	LOCKWSHR-HEL 5/16	7				
5-33	64237-05	LOCKNUT-NYLON M8-1.25	8				
5-34	73017A	BUSHING	1				
5-35	2198191	HOSE-AIR INTAKE (USE ON 946710-728D-ONLY)	1				
5-36	2192488	BRACE-AIR CLEANER (USE ON 946710-728D-ONLY)	1				
5-37	2192487	MOUNT-AIR CLEANER (USE ON 946710-728D-ONLY)	1				

TRANSMISSION/DIFFERENTIAL

700 Series Front Line Tractors

FIGURE 6



700 Series Front Line Tractors

TRANSMISSION/DIFFERENTIAL

2197122

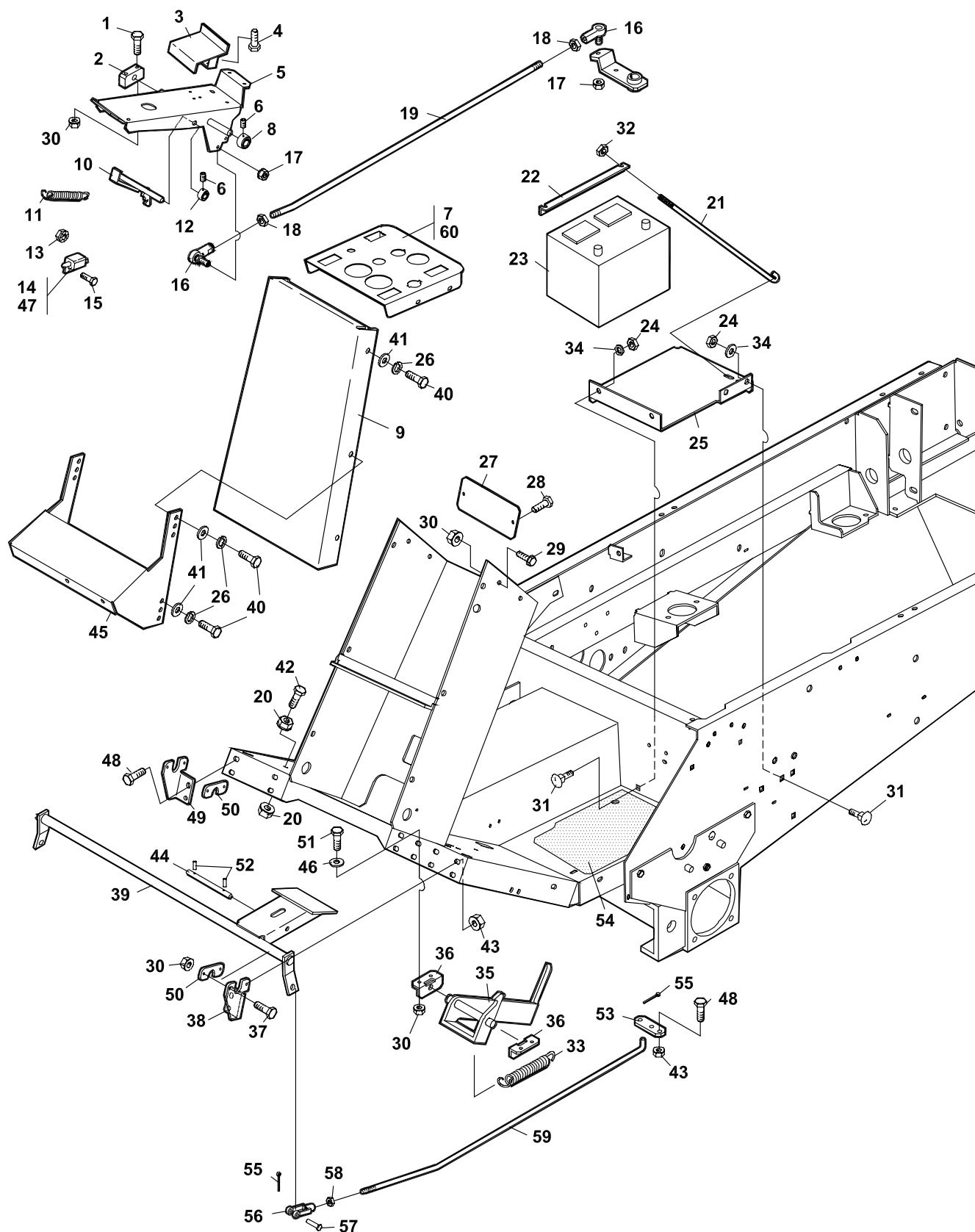
FIGURE 6

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
6-1	833904	SPRING	1	6-46	192104-01	SPACER 7GA	A/R
6-2	64123-80	BLT-HEX 1/4-20 X 1-1/4	3		192104-02	SPACER 10GA	A/R
6-3	64141-2	NUT-WLF 1/4-20	2		192104-03	SPACER 11GA	A/R
6-4	196006.7	WLDMT-IDLER ARM	1		192104-04	SPACER 12GA	A/R
6-5	64166-18	BLT-SHLDR 3/8-16X2.88	1	6-47	64205-036	BLT-MET M10-1.5X35	2
6-6	64123-67	BLT-HEX 3/8-16 X 2	1	6-48	64123-02	BLT-HEX 3/8-24 X 1	1
6-7	64163-31	WASHER-25/64X1X12 GA	2	6-49	142070	WASHER, CLUTCH	1
6-8	548942	PULLEY, IDLER	1	6-50	198007	PULLEY, DOUBLE A	1
6-9	64151-18	3/8-16 HEX NUT	3	6-51	188040	BRG PILLOW BLOCK 1.00	2
6-10	2198158	BELT HA 31.5 BANDED	1	6-52	64205-034	S BLT-HX M10X45	4
6-11	118047-02	BUSHING FLIP-LOK, 1/2	1	6-53	64164-10	1/4 X 1/4 X 1-1/4 KEY	1
6-12	64006-01	LOCKWASHER	2	6-54	2198246	SHAFT-PTO JACK	1
6-13	64163-02	WASHER-21/64X19/32	2	6-55	2193050	SPACER-CLUTCH	1
6-14	192042	SPACER FAN	4	6-56	2721124	CLUTCH-WARNER	1
6-15	198032	FAN-7" 10 BLADE	1	6-57	64123-34	BOLT-3/8-24X2-1/2	1
6-16	64123-114	BLT-HEX 1/4-20 X 1	2	6-58	64006-03	LOCKWASHER	4
6-17	158085-02	BUSHING, PULLEY	1	6-59	A110406	SCREW, M10X35 HH	2
6-18	198006	PULLEY-HYDROSTAT (USE WITH 723D & 728D ONLY)	1	6-60	64123-87	BLT-HEX 3/8-16 X 1-3/4	1
				6-61	2198289	DRIVE SHAFT-PTO	1
6-19	64164-19	KEY WOODRUFF #9	1	6-62	2720949	ASSY-CLUTCH WIRE	1
6-20	2198196	TRANSMISSION-EATON (SEE FIGURE 17 FOR SERVICE PARTS)	1	6-63	2198104	PULLEY-HYDROSTAT (USE ON 725 ONLY)	1
6-21	827076	COUPLING-HYDRSOSTAT	1	6-64	64237-03	LOCKNUT-NYL M10-1.5	8
6-22	64229-03	LOCKNUT-NYL 3/8-16	4	6-65	64237-06	LOCKNUT-NYLON M12-1.75	1
6-23	64123-162	BLT-HEX 5/16-24X5	1	6-66	64237-02	LOCKNUT-NYL M6-1.00	4
6-24	64151-24	HEX CL NUT 5/16-24	1	6-67	64237-05	LOCKNUT-NYLON M8-1.25	2
6-25	64025-03	NUT-HEX 5/16-24	1	6-68	64163-55	WSHR .328X.75X14 GA	2
6-26	2192222	MOUNT-TRANS NEUTRL	1	6-69	73017A	IDLER BUSHING-PLATE	2
6-27	64251-004	WASHER-M10	16	6-70	64205-015	BLT-MET M8-1.25X35	2
6-28	64123-171	BLT-HEX 3/8-16X3-1/2	4	6-71	2720175	S BRKT, CLUTCH ASSY (INCLUDES ITEM 62)	1
6-29	64164-14	KEY WOODRUFF #5	1				
6-30	196011	WLDMT-CONTROL ARM	1	6-72	64205-028	BLT-MET M12-1.75X60	1
6-31	64006-05	LOCKWASHER 1/2 HEL	1	6-73	64207-07	NUT-HEX M12-1.75	1
6-32	64001-8	NUT-JAM 1/2-13	1	6-74	64163-19	33/64X1-1/4X12GA WASHR	2
6-33	48244A	BALL JT 5/16F W/STUD	1	6-75	64205-038	BLT-MET M6-1.00X20	2
6-34	64141-1	NUT-WLF 5/16-24	1				
6-35	123032	BSHG, NEUTRAL CNTRL	1				
6-36	128086	SPRING	1				
6-37	123033	BSHG, NEUTRAL CNTRL	1				
6-38	2192607	BRACE	1				
6-39	64123-16	BLT HEX 3/8-16 X 1-1/4	4				
6-40	64205-030	BLT-MET M6-1.00X40	2				
6-41	64251-002	WASHER-M6	4				
6-42	2198108	VALVE-RELIEF	1				
6-43	2721679	BRKT-VALVE MOUNT	1				
6-44	2721086	S WLMT PTO SHAFT MNT	1				
6-45	2721085	BRKT- CLUTCH STOP	1				

PEDAL CONTROLS

700 Series Front Line Tractors

FIGURE 7



700 Series Front Line Tractors

2197123

PEDAL CONTROLS

FIGURE 7

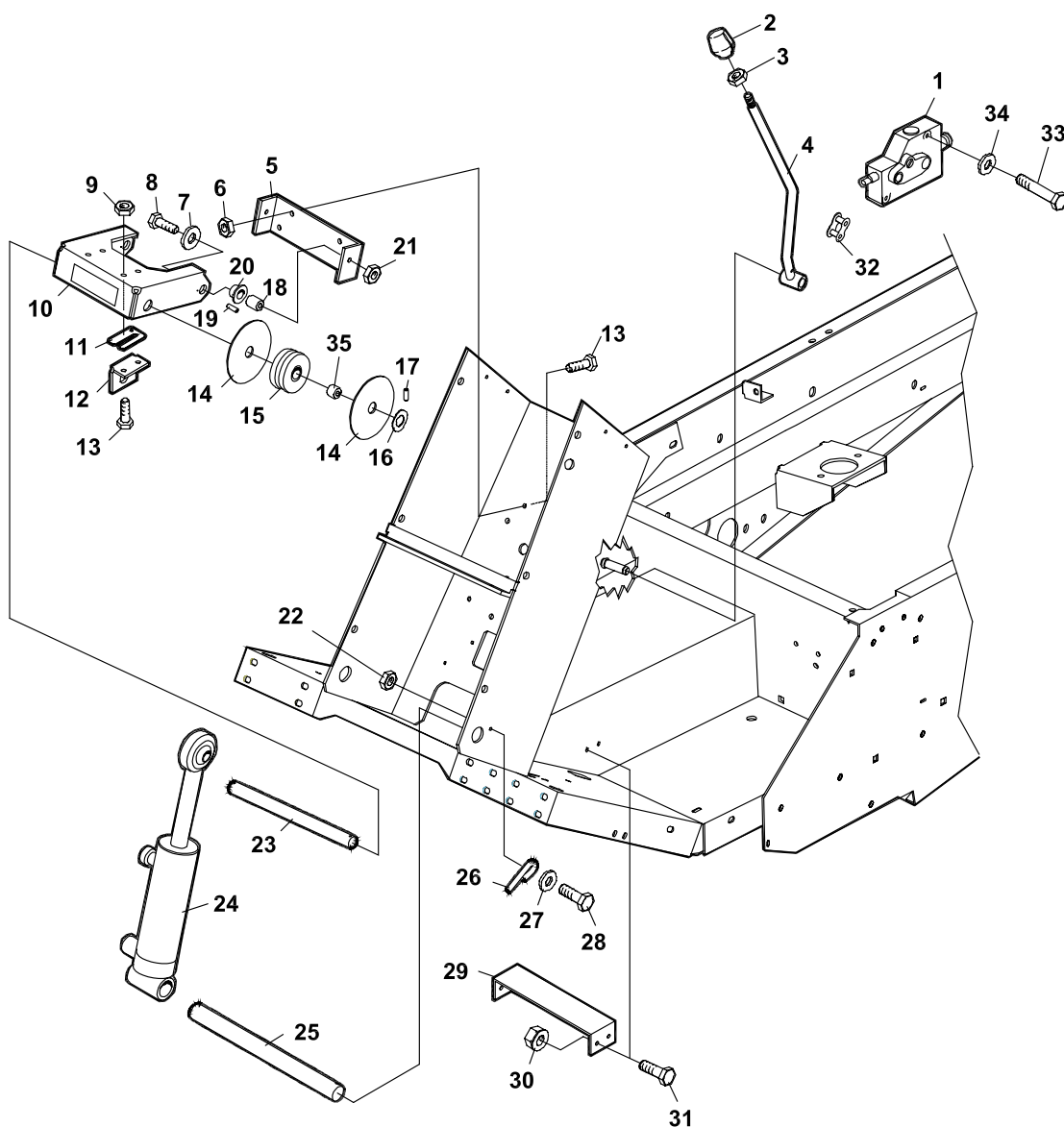
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
7-1	64123-07	BLT-HEX 1/4-20 X 1-1/2	4	7-47	108208	SWITCH-NCNO DBL POLE (USE ON 725 ONLY)	1
7-2	41028	BLOCK-BEARING	2				
7-3	146082	S PEDAL ADPTR W/MAT	1	7-48	64139-08	BLT-WLF 5/16-18 X 3/4	8
7-4	64139-02	BLT-WLF 1/4-20 X 1/2	2	7-49	2192310	SUPP-BRAKE SHAFT RH	1
7-5	2196117	S FWD/REV PED W/MAT	1	7-50	2192361	CLAMP-BRAKE MNT	2
7-6	64044-1	SET SCREW 1/4-20 X 1/4	4	7-51	64123-89	BLT-HEX 1/4-20 X 3/4	4
7-7	2196148	S INST PANEL W/LABS (USE ON 723D & 728D)	1	7-52	64061-04	ROLL PIN-1/8X 3/4	2
				7-53	192153	ARM BRAKE	2
7-8	43067A	COLLAR, SET PLATE	2	7-54	148086	MAT-FLOOR LH	1
7-9	2196168	S TOWER CVR W/LABS	1	*	148085	MAT-FLOOR RH	1
7-10	196021	CNTRL WLDMT-NEUTRAL	1				
7-11	48429	SPRING-EXTENSION	1	7-55	64168-2	HAIRPIN COTTER	4
7-12	48428	COLLAR-SET, 3/8 ID	2	7-56	38020N	CLEVIS YOKE	2
7-13	64025-15	NUT-HEX 10-24 KEPS	2	7-57	64188-02	5/16 X 1 CLEVIS PIN	2
7-14	2308094	SWITCH-NCNC DBL POLE (USE ON 723D & 728D ONLY)	1	7-58	64025-03	NUT HEX 5/16-24	2
				7-59	2193037	ROD-BRAKE	2
7-15	64152-06	10-24 x 1/2 MACH SCRW	2	7-60	2196233	S INST PANEL W/LABS (USE ON 725 ONLY)	1
7-16	48109N	BALL JOINT, NO SPF-6S	2				
7-17	64141-3	NUT-WLF 3/8-24	2				
7-18	64001-2	NUT-JAM 3/8-24	2				
7-19	193022	ROD FOR/REV	1				
7-20	64141-4	NUT-WLF-3/8-16	2				
7-21	806953	ROD-BATTERY HOOK	2				
7-22	2182427.7	BATTERY-HOLD DOWN	1				
7-23	148074	BATTERY-BCI 26	1				
7-24	64237-03	LOCKNUT-NYLON M10-1.5	4				
7-25	2192472	TRAY-BATTERY	1				
7-26	64006-03	LOCKWASHER 3/8	6				
7-27	2192220	PLATE-TOWER	1				
7-28	64152-23	1/4-20X3/8 LG SP SCR	2				
7-29	64139-17	BLT-WLF 1/4-20X5/8	4				
7-30	64141-2	NUT-WLF 1/4-20	16				
7-31	64243-04	BLT-CRG M10-1.5X25	4				
7-32	64229-02	LOCKNUT-NYLON 5/16-18	2				
7-33	38129	SPRING-TENSION	1				
7-34	64251-004	WASHER-M10	4				
7-35	2196088	WLDMT-BRAKE LEVER	1				
7-36	2192351	BRKT-BRAKE PEDAL	2				
7-37	64139-04	BLT-WLF 1/4-20X3/4	4				
7-38	2192308	SUPP BRAKE SHAFT LH	1				
7-39	2196108	S BRAKE PEDAL W/MAT	1				
7-40	64123-50	BLT-HEX 3/8-16X1	6				
7-41	64163-31	WASHER	6				
7-42	64123-87	BLT-HEX 3/8-16 X 1-3/4	1				
7-43	64141-6	NUT-WLF 5/16-18	8				
7-44	143011	LINK-PEDAL	1				
7-45	2196104	S BRKT-SPRING W/LABS	1				
7-46	64251-002	WASHER M-6	4				

* NOT ILLUSTRATED

LIFT CYLINDER MOUNTING

700 Series Front Line Tractors

FIGURE 8



700 Series Front Line Tractors

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LIFT CYLINDER MOUNTING

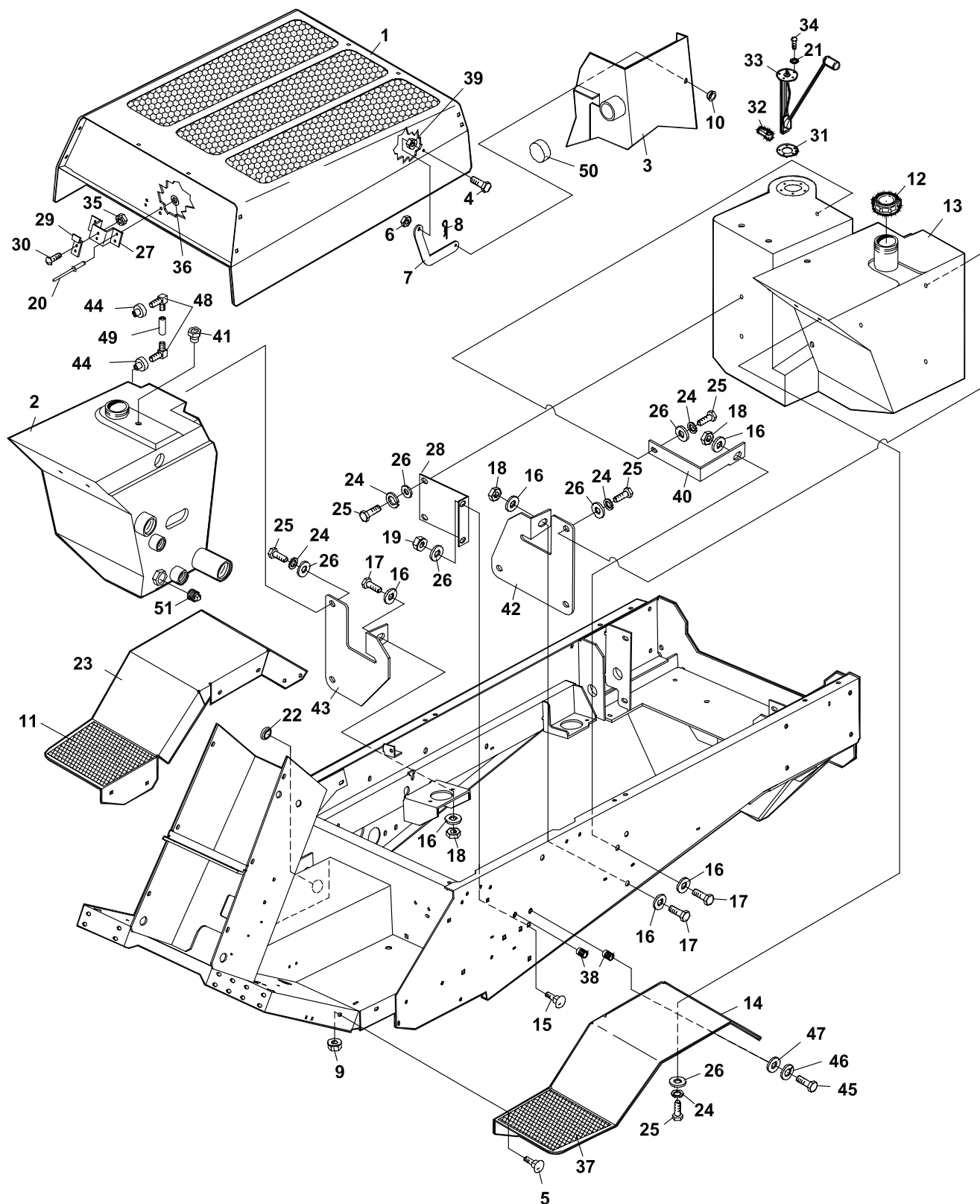
FIGURE 8

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
8-1	198042	VALVE-HYDRAULIC (USE SEAL KIT 198042-01)	1				
8-2	68156A	HANDLE-KNOB, BLACK	1				
8-3	64001-6	JAM NUT-3/8-16	1				
8-4	2196138	WLDMT-LIFT LEVER	1				
8-5	192087	BRKT-LIFT PIVOT MNT	1				
8-6	64141-6	NUT-WLF 5/16-18	4				
8-7	64163-31	WSHR-25/64X12 GA	2				
8-8	64123-16	BLT-HEX 3/8-16X1 14	2				
8-9	64151-15	5/16-18 HEX HD CL	4				
8-10	2196215	S-PULLEY-MOUNT BRKT	1				
8-11	2192291	SHIM-CYL SUP BRKT	4				
8-12	2192289	BRKT-CYL SUPPORT	2				
8-13	64139-08	BLT-WLF 5/16-18X3/4	8				
8-14	192086	GUIDE-CHAIN	4				
8-15	196004	ASSY-PULLEY CHAIN (CONTAINS ITEM 35)	2				
8-16	62464-3A	THRUST-WASHER	2				
8-17	64061-07	ROLL PIN 5/32X1-1/4	2				
8-18	2198127	TUBE-SPACER	2				
8-19	64061-15	ROLL PIN 1/8X1/2	2				
8-20	108031	BRG-FLANGE NOTCHED	2				
8-21	64151-18	NUT-HEX CL 3/8-16	2				
8-22	64151-17	NUT-HEX CL 1/4-20	1				
8-23	193003	SHAFT-PULLEY MNTNG	1				
8-24	2198081	CYLINDER-LIFT (USE SEAL KIT 2198082)	1				
8-25	2193027	SHAFT-CYL PIVOT	1				
8-26	2193028	PIN-LOCKING	1				
8-27	64163-34	WSHR-FLT.256IDX11 GA	1				
8-28	64123-114	BLT-HEX 1/4-20X1	1				
8-29	192187	BRKT-TUBE SUPPORT	1				
8-30	64141-2	NUT-WLF 1/4-20	4				
8-31	64139-04	BLT-WLF 1/4-20X3/4	4				
8-32	148062	MASTER LINK #50 CHAIN	1				
8-33	64205-023	BOLT-M6-1.0X50	2				
8-34	64006-01	LOCKWASHER-1/4	2				
8-35	198003-01	BEARING-OILITE	2				

HOOD ASSEMBLY

700 Series Front Line Tractors

FIGURE 9



700 Series Front Line Tractors

2197125

HOOD ASSEMBLY

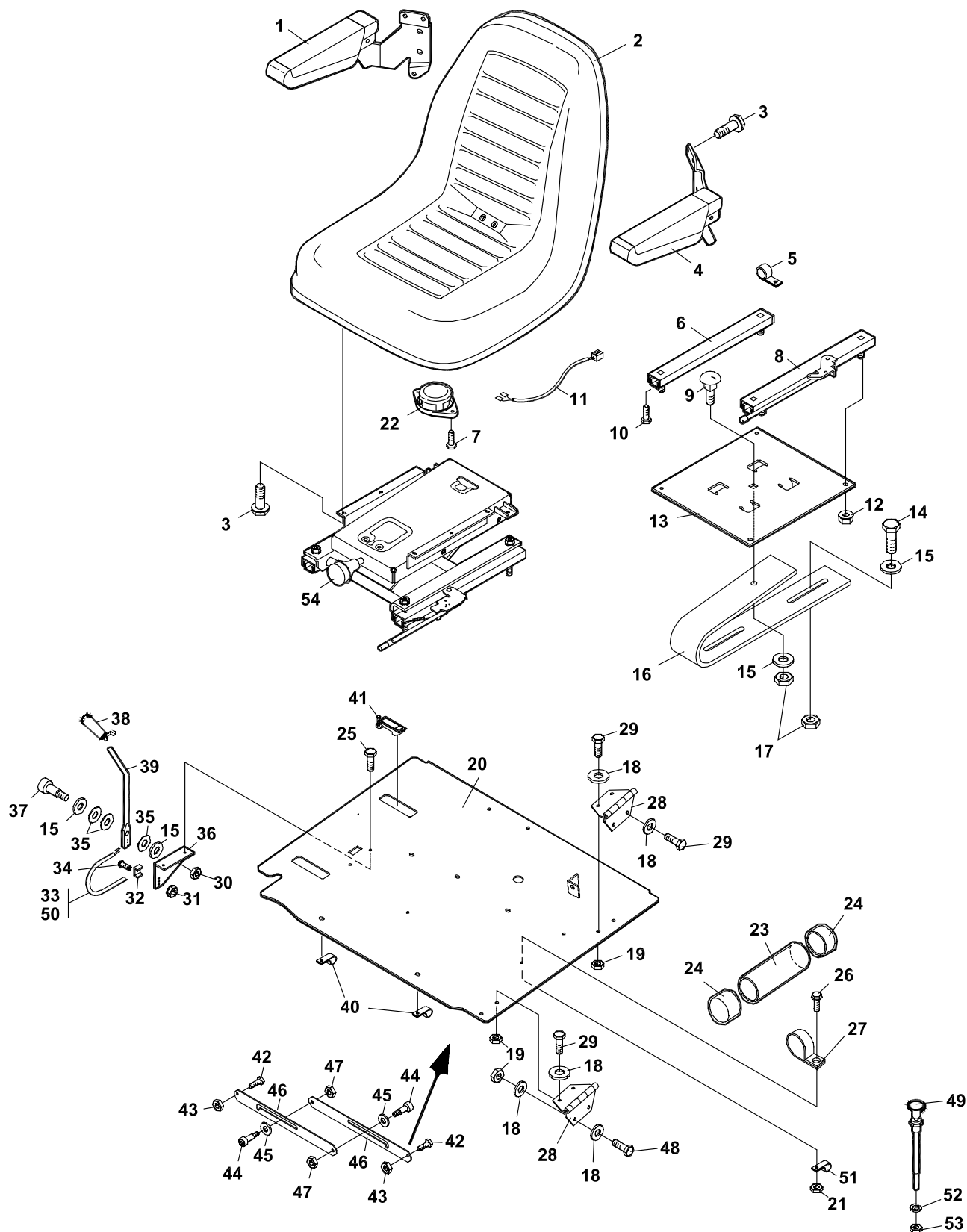
FIGURE 9

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
9-1	2196151	S HOOD ASSY W/LABS	1	9-44	48310	S-BUSHING FUEL TANK	6
9-2	2198259	TANK-HYD 700	1	9-45	A1103051	BOLT M8X25	4
9-3	2196211	S RADIATOR PNL W/LABS	1	9-46	64006-02	LOCKWASHER 5/16	4
9-4	64123-114	BLT-HEX 1/4-20 X 1	2	9-47	64251-003	WASHER M8	4
9-5	64243-03	BLT-CRG M8-1.25X20	8	9-48	2198159	FTG-1/4 90 ELBOW	2
9-6	64151-8	1/4-20 HEX LOCKNUT	2	9-49	158122-01	TUBING-SIGHT 1.9"	1
9-7	2192571	STOP-HOOD PIVOT	2	9-50	38061-01	COVER	1
9-8	64168-2	HAIRPIN COTTER	2			(USE ON 725 ONLY)	
9-9	64246-02	NUT-WLF M8-1.25	8				
9-10	118047-06	BUSHING-FLIP LOK .38ID	2	9-51	2690017-03	FTG-ORB PLUG-06	1
9-11	2198137	MAT-RH FENDER	1				
9-12	2198240	CAP VENTED, FUEL	1				
9-13	2198188	TANK-FUEL 700	1				
9-14	2196152	S FENDER LH W/LABS	1				
		(INCLUDES ITEM 37)					
9-15	64243-04	BLT-CRG M10-1.5 X 25	2				
9-16	64251-005	WASHER-M12	6				
9-17	A1105061	BLT-MET. M12-1.75X30	3				
9-18	64237-06	LOCKNUT-NYLON M12	3				
9-19	64237-03	LOCKNUT-NYLON M10	2				
9-20	64215-05	RIVET-POP IFI #84	4				
9-21	64002-02	STAR WASHER	5				
9-22	48517-02	HOLE-PLUG .625	1				
9-23	2196153	S FENDER W/MAT RH	1				
		(INCLUDES ITEM 11)					
9-24	800488	LOCKWASHER M10	12				
9-25	64205-007	BLT-MET. M10-1.5X20	12				
9-26	64251-004	WASHER-M10	14				
9-27	2192248.2	BRKT-HOOD LATCH	1				
9-28	2192477	MOUNT-FUEL FRONT	1				
9-29	2198112	LATCH-HOOD	1				
		(ONLY PARTIAL SHOWN)					
9-30	64152-20	8-32 X 1/2 MACH SCRW	2				
9-31	148081	GASKET	1				
9-32	2198091	BOOT-FUEL SENDER	1				
9-33	2208073	SENDER-FUEL LEVEL	1				
9-34	64152-05	10-32 X 1/2 MACH SCRW	5				
9-35	64025-29	NUT-HEX #8-32 KEPS	2				
9-36	64211-02	WASHER	4				
9-37	2198136	MAT-LH FENDER	1				
9-38	64250-04	INSERT-GRIP M8	4				
		(USE INSERT TOOL 2196247)					
9-39	64141-2	NUT-WLF 1/4-20	2				
9-40	2192478	MOUNT-FUEL TOP	1				
9-41	148027	BREATH-VENT	1				
9-42	2192479.7	MOUNT-FUEL REAR	1				
9-43	2192480.7	MOUNT-HYD TANK	1				

SEAT & PLATFORM ASSEMBLY

700 Series Front Line Tractors

FIGURE 10



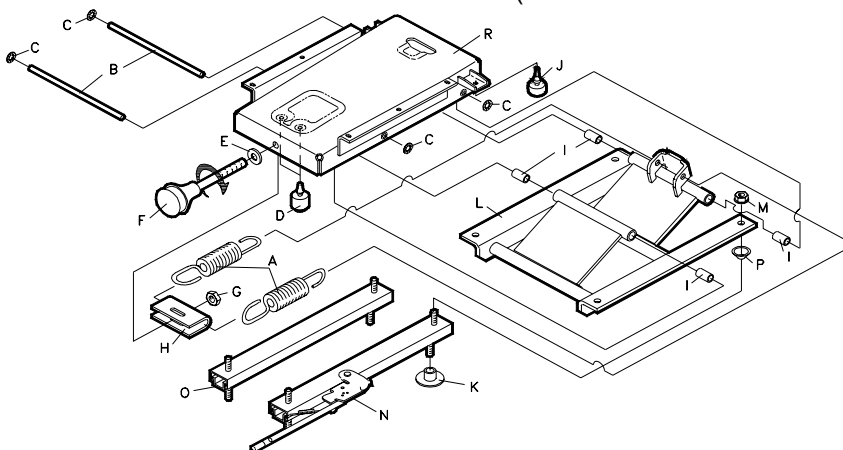
700 Series Front Line Tractors

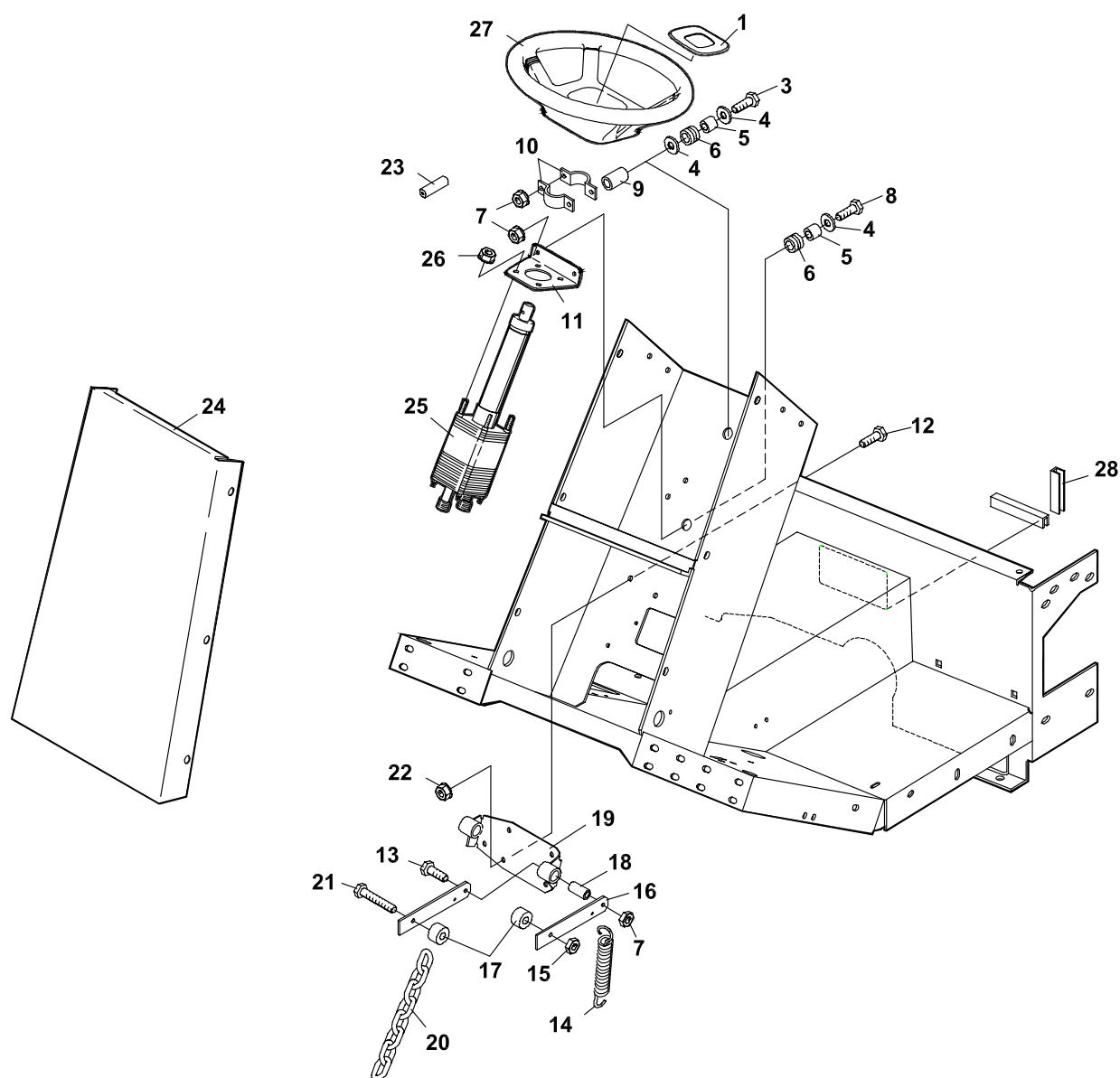
SEAT & PLATFORM ASSEMBLY

2197126

FIGURE 10

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
10-1	198066	ARM REST ASSY-RH	1	10-34	64152-10	10-24 X 3/4 MACH SCRW	1
10-2	198057	SEAT	1	10-35	64209-01	CONICAL SPRING WASH	3
SEAT KITS AVAILABLE:				10-36	2192254	BRKT-THROTTLE	1
(970039 INCLUDES ITEMS: 2,6-17, & 22)				10-37	64166-17	BLT-SHLDR 3/8-16 X 1.12	1
(970080 INCLUDES ITEMS: 1-5,7,11,12,22 & 48)				10-38	2198109	KNOB-THROTTLE	1
	198057-01	CUSHN, EDGNG, HWR	1	10-39	2193044	LEVER-THROTTLE	1
10-3	64139-16	BLT-WLF 5/16-18 X 5/8	10	10-40	48228-1A	CABLE-CLIP	2
10-4	198059	ARM REST ASSY-LH	1	10-41	2208075	LATCH-ADJ LEVER	2
10-5	48228-2A	CABLE CLIP	1	10-42	64205-007	BLT-MET. M10-1.5X20	2
10-6	198062	SLIDE RAIL-SLAVE	1	10-43	64237-03	LOCKNUT-NYLON M10-1.5	2
10-7	64139-02	BLT-WLF 1/4-20 X 1/2	2	10-44	64166-03	SHLDR BLT .281X5/16-18	2
10-8	198063	SLIDE RAIL-ADJUSTER	1	10-45	64163-31	WASHER 25/64X1X12 GA	2
10-9	64018-27	BLT-CARRIAGE1/2-13X1-1/2	1	10-46	2202118.2	SUPPORT-SEAT	2
10-10	2198096	SCRW-CAP W.375 WASH	4	10-47	64229-02	LOCKNUT-NYLON 5/16-18	2
10-11	158136	WIRE-SEAT SWITCH	1	10-48	A1103051	BOLT-M8-1.25X25	2
10-12	64141-6	NUT-WLF 5/16-18	4	ITEMS 49-53 USED ON 725 ONLY			
10-13	2142376.7	ADAPTER-SEAT	1	10-49	108008-03	CONTROL-CHOKE 51	1
10-14	64123-73	BLT-HEX 1/2-13X1	2	10-50	148057-05	CABLE-THROTTLE	1
10-15	64163-19	WASHER	5	10-51	48228A	CABLE CLIP	1
10-16	142095.7	SPRING-SEAT	1	10-52	64006-03	LOCKWASHER, 3/8	1
10-17	64151-7	1/2-13 HEX LOCKNUT	3	10-53	64001-2	NUT-JAM 3/8-24	2
10-18	64251-003	WASHER-M8	10	10-54 198058 SUSPENSION W/ADJUST 1			
10-19	64237-05	LOCKNUT-NYLON M8-1.25	8	(INCLUDES ITEMS A THRU R)			
10-20	2196210	S SEAT PLATE W/LABS	1	(SERVICE SUSPENSION W/148394, 148395,			
10-21	64151-8	NUT-HEX 1/4-20 EL	2	148396, 148397)			
10-22	158135-01	SWITCH-SEAT NO	1	B	148394	LOWER SEAT WELDMENT	(INCLUDES ITEMS B,C,I, & L)
10-23	2306144	S DOCU TUBE W/LAB	1	C			
10-24	38061A	SPINDLE SHIELD	2	I			
10-25	64197-002	BOLT TR 1/4-20 X 3/4	2	L	148395	UPPER SEAT WELDMENT	(INCLUDES ITEMS B,C,D,J & R)
10-26	64123-89	BLT-HEX 1/4-20X3/4	2	B			
10-27	38542	CLAMP-DOCU TUBE	2	C			
10-28	2208058.2	HINGE-SEAT PLATE	2	D			
10-29	64205-001	BLT-MET. M8-1.25X20	6	J	148396 DELUX SEAT/SPRING SHAFT	(INCLUDES ITEMS A THRU K)	
10-30	64151-18	3/8-16 CL HEX NUT	1	R			
10-31	64025-15	NUT HEX #10-24 KEPS	1	M THRU P 148397 SEAT ADJUSTOR			
10-32	22372	B & S CABLE CLIP	1	(INCLUDES ITEMS M THRU P)			
10-33	148057-01	CABLE-THROTTLE	1				
(USE ON 723D & 728D MODELS ONLY)							





700 Series Front Line Tractors

2197127

STEERING

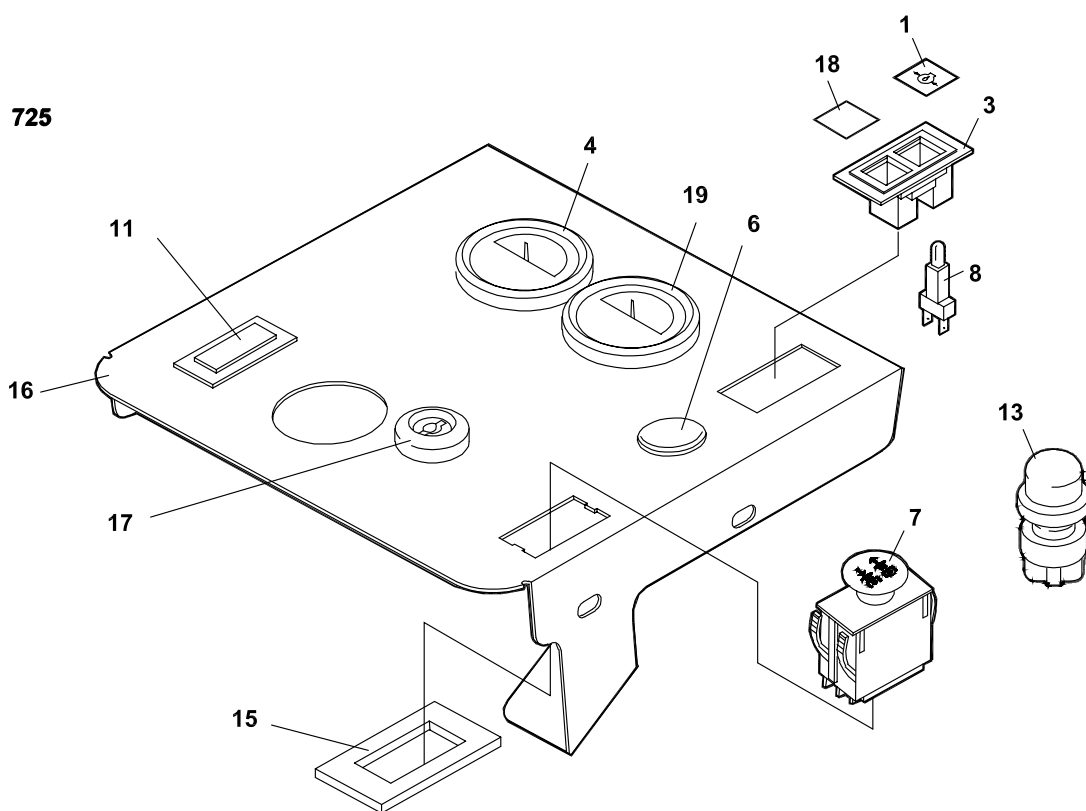
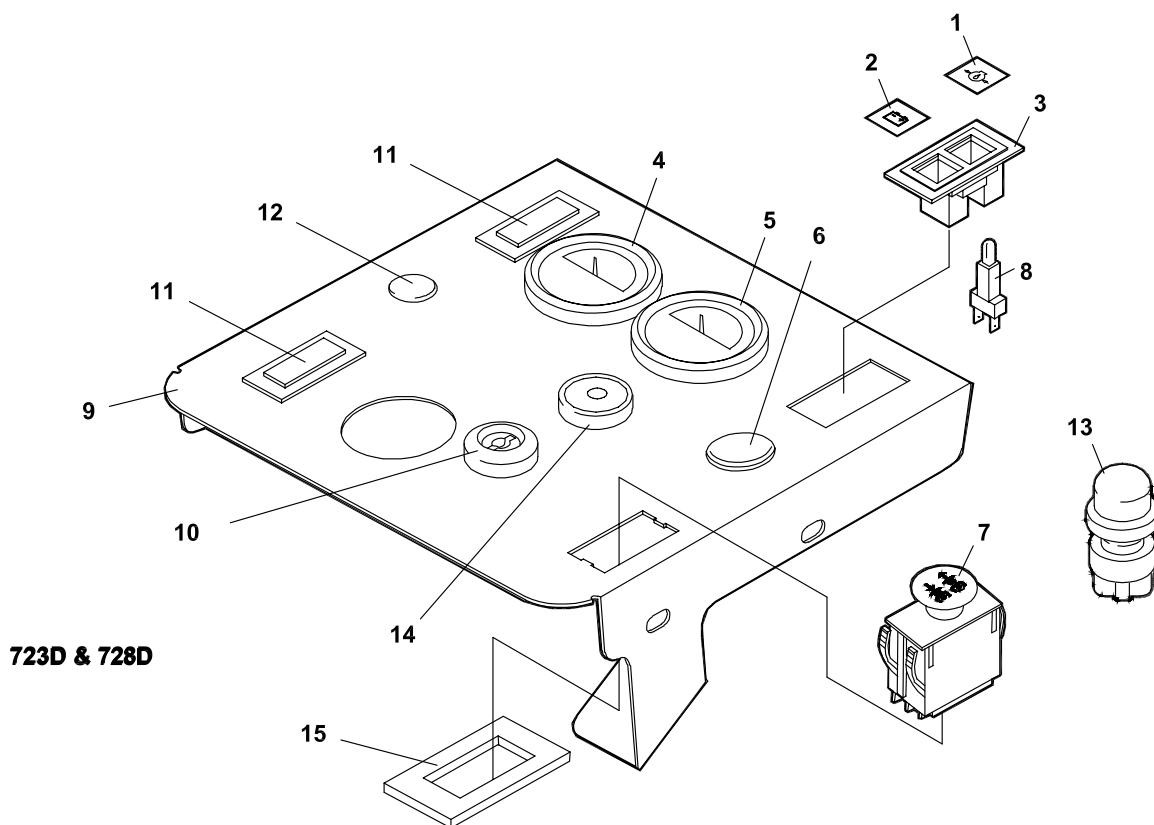
FIGURE 11

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
11-1	839862	DECAL-RANS LOGO	1				
11-2	2198130-01	S COVER, ST WHL	1				
11-3	64123-55	BLT-HEX 5/16-18X55	2				
11-4	64163-29	WSHR-.321-.328X11 GA	6				
11-5	2198134	SPACER TUBE	4				
11-6	148034-06	GROMMET	4				
11-7	64151-15	NUT-HEX 5/16-18	6				
11-8	64123-47	BLT-HEX 5/16-18X1 1/4	2				
11-9	2198126	SPACER TUBE	2				
11-10	142143	CLAMP-FRONT	2				
11-11	2192383	MNT-STEERING GEAR	1				
11-12	64139-08	BLT-WLF 5/16-18X3/4	5				
11-13	64123-56	BLT-HEX 5/16-18X2	2				
11-14	2198094	SPRING-EXTENSION	2				
11-15	64151-18	NUT-HEX CL 3/8-16	2				
11-16	192091	SLACK ARMS-CHAIN	4				
11-17	73017A	IDLER BUSHING	4				
11-18	2198126	SPACER TUBE	2				
11-19	2196093	WLDMT-LIFT ARM BRKT	1				
11-20	198002-01	CHAIN	2				
11-21	64123-67	BLT-HEX 3/8-16X2	2				
11-22	64141-6	NUT-WLF 5/16-18	5				
11-23	64061-26	ROLL PIN	1				
11-24	2196168	S TOWER CVR W/LABS	1				
11-25	148132	HYDRO STEER GEAR	1				
		USE SEAL KIT 148132-01)					
11-26	64141-1	NUT-WLF 5/16-24	4				
11-27	2198130	STEERING WHEEL	1				
11-28	108074-15	FLEX TRIM	1				

INSTRUMENT PANEL

700 Series Front Line Tractors

FIGURE 12



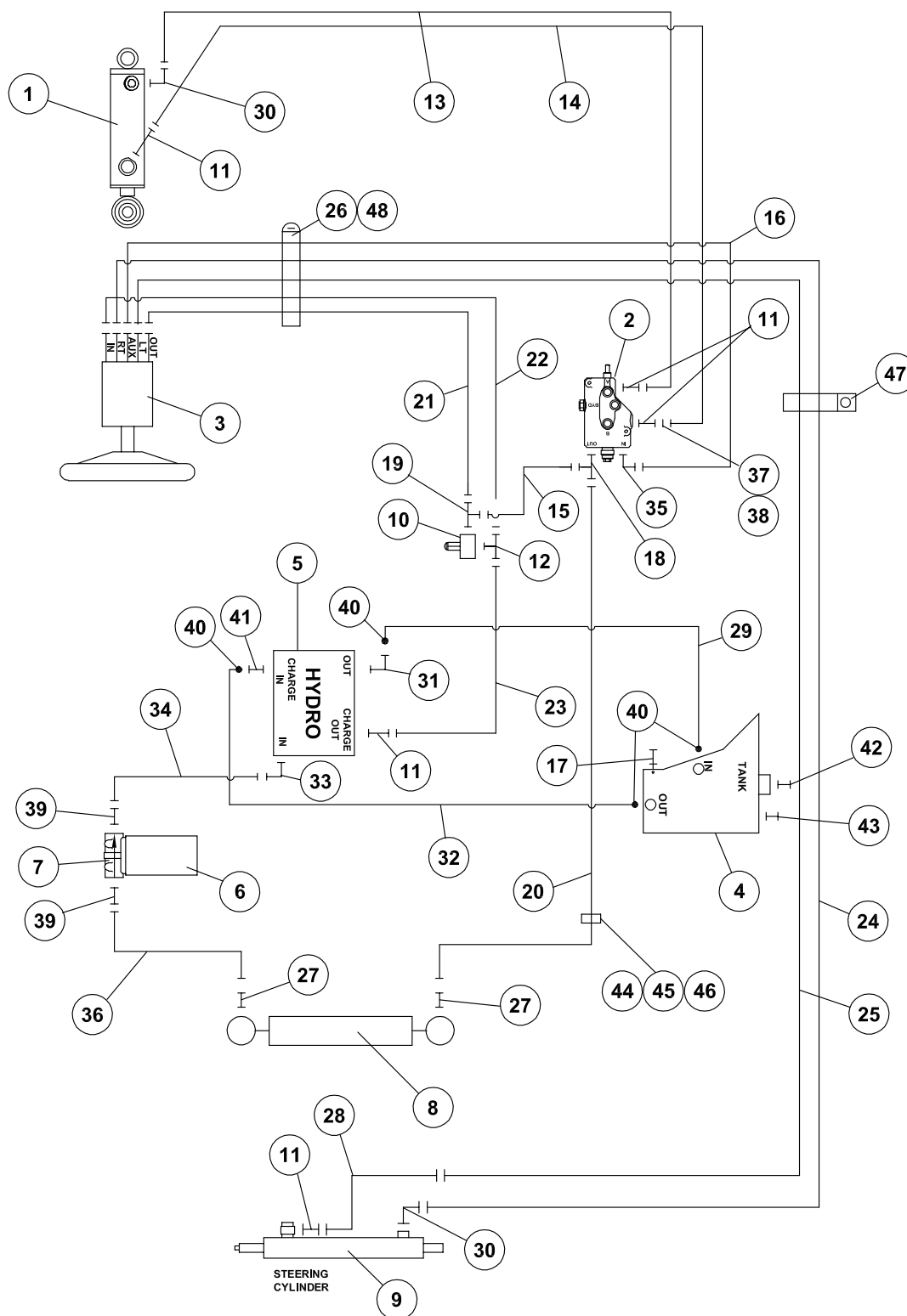
700 Series Front Line Tractors

2197128

INSTRUMENT PANEL

FIGURE 12

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
12-1	188015	OIL PRESSURE LENS	1				
12-2	2198088	LENS-BATTERY (USED ON 723D & 728D ONLY)	1				
12-3	2198089	LAMP HOLDER (INCLUDES TWO 178092-22 LAMPS)	1				
12-4	148032	GAUGE-FUEL	1				
12-5	148269	GAUGE-TEMP	1				
12-6	48517-02	HOLE PLUG .625	1				
12-7	2188153	SWITCH-CLUTCH	1				
12-8	178092-22	LAMP	1				
12-9	2196148	S INST PANEL W/LAB	1				
12-10		PERKINS KEY SWITCH (INCLUDED WITH ENGINE)					
12-11	178092-13	S SNGL SWITCH BLANK (USES QTY 1 ON 725)	2				
12-12	48517	HOLE PLUG 1.00	1				
12-13	148061	HORN SWITCH (OPTIONAL EQUIPMENT)	1				
12-14		PERKINS GLOW INDICATOR (INCLUDED WITH ENGINE)					
12-15	2188178	SWITCH, RETAINER	1				
12-16	2196233	S INST PANEL W/LAB (USED ON 725 ONLY)	1				
12-17	128010	KEY SWITCH	1				
12-18	2198119	LENS BLANK-RED	1				
12-19	48400	AMMETER 30 AMP	1				



700 Series Front Line Tractors

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HYDRAULIC DIAGRAM

FIGURE 13

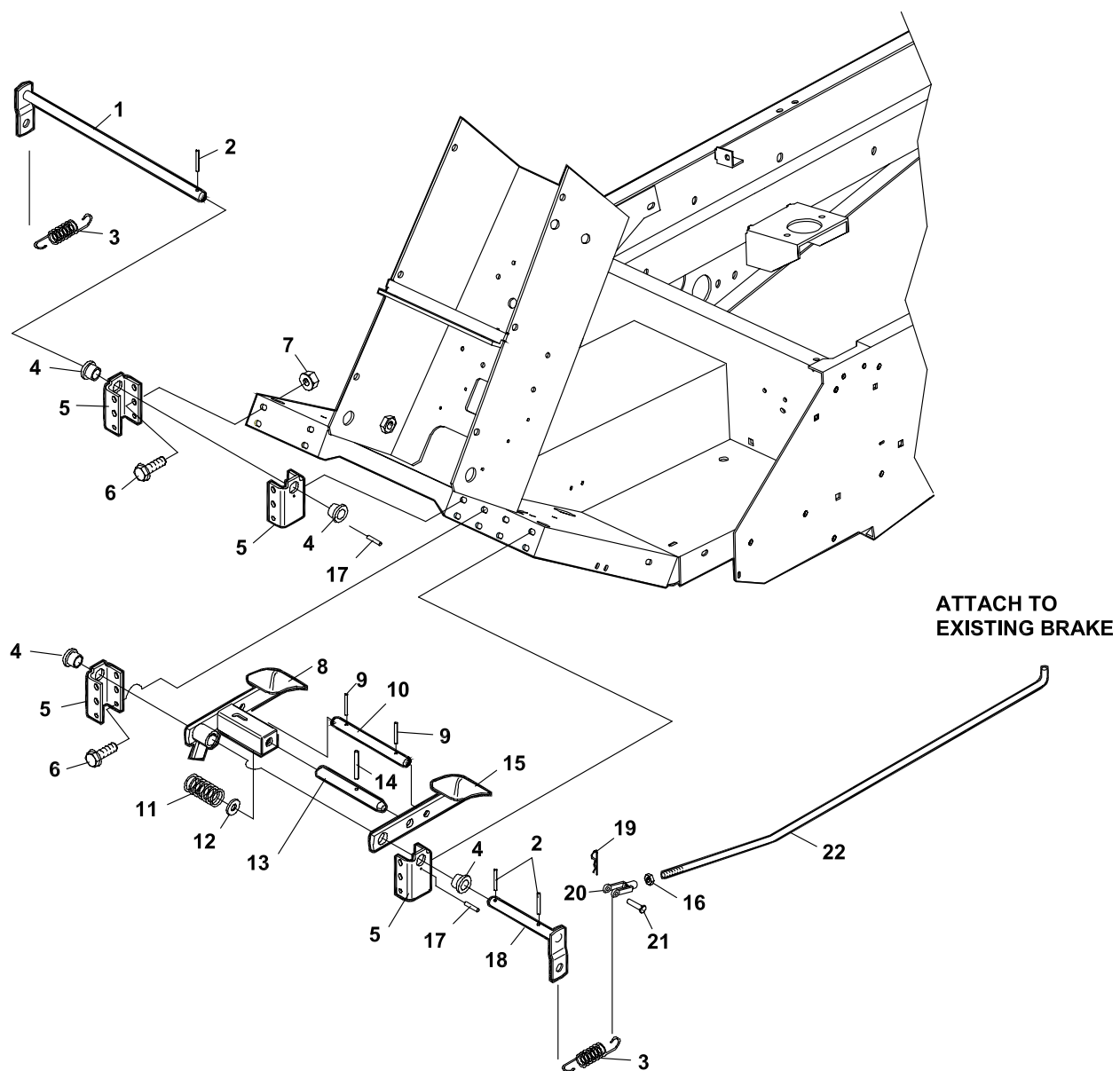
ITEM	PART NO.	DESCRIPTION	QTY
13-1	2198081	CYLINDER-LIFT	1
13-2	198042	VALVE-HYDRAULIC	1
13-3	148132	HYDROST STEER GEAR	1
13-4	2198259	TANK-HYDRAULIC 700	1
13-5	2198196	TRANSMISSION-EATON	1
13-6	118017	FILTER ELEMENT 10 MIC.	1
13-7	148354	HEAD-FILTER	1
13-8	2198176	OIL COOLER	1
13-9	198040	CYLINDER-STEERING (USE 198040-01 SEAL KIT)	1
13-10	2198108	VALVE-RELIEF	1
13-11	158006-01	FITTING-ORS/ORB	5
13-12	2690026-01	FTG-RUN TEE 3/8 ORB	1
13-13	69206-05	HOSE-3/8 ORS/ORS 32.5	1
13-14	69206-14	HOSE-3/8 ORS/ORS 37.5	1
13-15	2692234-02	HOSE-3/8 ORS-1/2 ORS	1
13-16	2692247-01	HOSE-3/8 37/45 ORSX39.0	1
13-17	2690017-03	FTG-ORB PLUG-06	1
13-18	158056-01	FITTING-ORS/O-RING TEE	1
13-19	158056-02	FTG-ORS/O-RING TEE	1
13-20	2198261	TUBE-VALVE TO COOLER	1
13-21	2692230-05	HOSE-3/8 37/ORS X 32.75	1
13-22	2692230-04	HOSE-3/8 37/ORS X 33.75	1
13-23	2692297-01	HSE-3/8 45 ORS/45ORSX8.5	1
13-24	2692269-01	HOSE-3/8 37/ORS X 87.00	1
13-25	2692269-02	HOSE-3/8 37/ORS X 82.50	1
13-26	65362-01	RUBBER-CLAMP 4IN	1
13-27	158006-06	FITTING-ORS/ORB	2
13-28	2198218	TUBE-STEERING CYL	1
13-29	2198264	HSE-MOLDED CASE OUT	1
13-30	158007-01	FITTING-90 ORS/ORB	2
13-31	2690011	FTG-10-3/4AD ORB/BRB-90	1
13-32	2198265	HOSE-MOLDED CHR9 IN	1
13-33	158007-04	FITTING-90 ORS/ORB	1
13-34	2692272-01	HSE-1/2 ORS/45ORSX18.0	1
13-35	158007-10	FTG-90 DEG ORS/ORB	1
13-36	2198260	TUBE-COOLER TO FILTER	1
13-37	69068-06	ORIFICE DISK 06, .070	1
13-38	158061-01	O-RING -06	1
13-39	158006-11	FITTING-ORB/ORS	2
13-40	108094-02	HOSECLAMP .50 TO 1.25	4
13-41	2690016-01	FTG-10 ORB/3/4 HSE BRB	1
13-42	2690017-02	FTG-ORB PLUG 20	1
13-43	148027	BREATHING VENT	1
13-44	148090	SUPPORT-TUBE 1/2	2
13-45	64123-80	BLT-HEX 1/4-20X1-1/4	1
13-46	64141-2	NUT-WLF 1/4-20	1
13-47	108138-02	TUBE CLAMP,.94	1
13-48	108094-01	CLAMP-HOSE SAE20	1

ITEM	PART NO.	DESCRIPTION	QTY
------	----------	-------------	-----

SAE PORT 'O' RING		
PART NUMBER	THREAD SIZE	AS-568#
158061-10	9/16-18	-906
158061-11	3/4-16	-908
158061-12	7/8-14	-910
158061-13	1-1/16-12	-912
158061-14	1-5/16-12	-916
158061-16	1-5/8-12	-920
158061-03	1-7/8-12	-924

FLAT FACE 'O' RINGS		
PART NUMBER	TUBE O.D.	AS-568#
158061-01	3/8"	012
158061-02	1/2"	014
158061-08	5/8"	016
158061-09	3/4"	018
158061-15	1-1/4"	025

FIGURE 14



700 Series Front Line Tractors

OPTIONAL STEERING BRAKES-970053

2197130

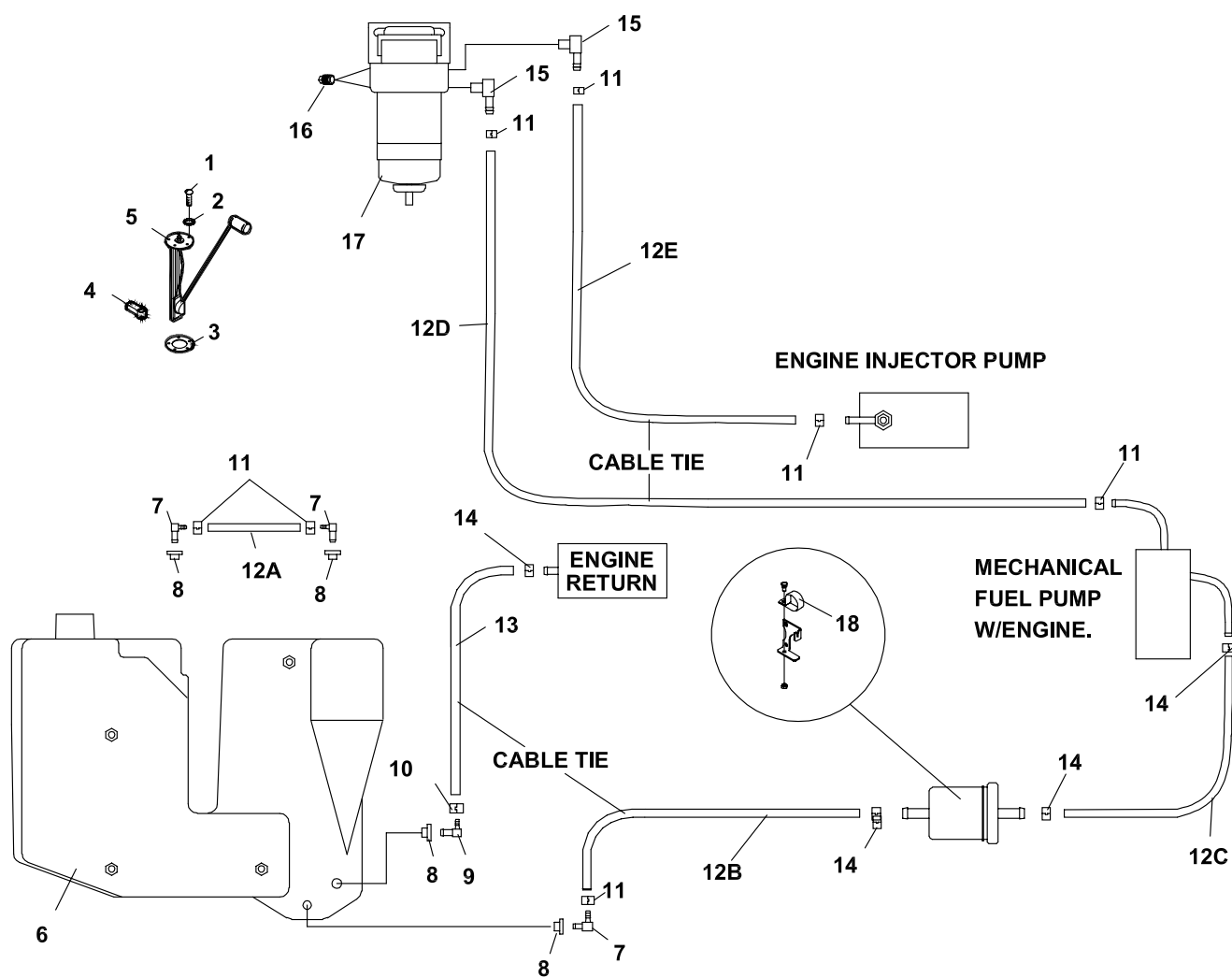
FIGURE 14

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
14-1	146029	WLDMT-BRAKE SHAFT RH	1				
14-2	64061-25	ROLL PIN 1/4X1 1/4	3				
14-3	128102	SPRING-EXTENSION	2				
14-4	108105	BEARING 3/4 ID FLANGE	4				
14-5	142034	SUPPORT-BEARING	4				
14-6	64139-06	BLT-WLF 5/16-18X5/8	8				
14-7	64141-6	NUT-WLF 5/16-18	8				
14-8	146212	S BRAKE PDL W/MAT RH	1				
14-9	64061-04	ROLL PIN 1/8X3/4	2				
14-10	143011	LINK-PEDAL	1				
14-11	118045	SPRING-COMPRESSION	1				
14-12	64163-54	WASHER-.516X.75X12 GA	1				
14-13	143059	ROD-PEDAL LOCK	1				
14-14	64061-06	ROLL PIN 3/16X1 5/8	1				
14-15	146084	S BRAKE PDL W/MAT LH	1				
14-16	64025-03	NUT HEX 5/16-24	2				
14-17	64061-15	ROLL PIN 1/8X1/2	4				
14-18	146030	WLDMT-BRAKE SHAFT LH	1				
14-19	64168-2	HAIRPIN COTTER	2				
14-20	38020N	CLEVIS YOKE	2				
14-21	64188-02	HAIRPIN COTTER	2				
14-22	193020	ROD-BRAKE	2				

FUEL DIAGRAM

FIGURE 15

700 Series Front Line Tractors



700 Series Front Line Tractors

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FUEL DIAGRAM

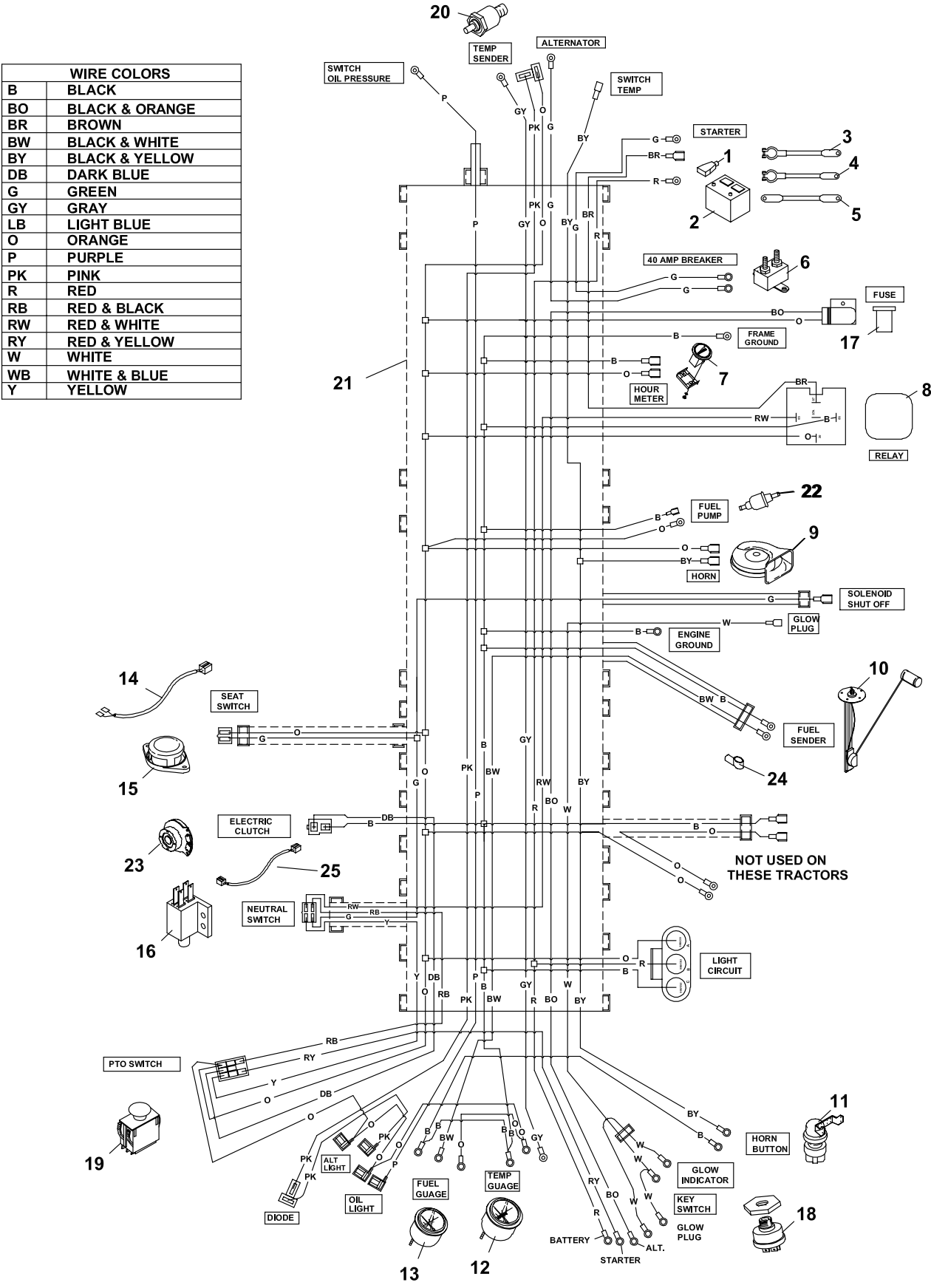
FIGURE 15

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
15-1	64152-05	10-32X1/2 R MACH SCREW	5				
15-2	64002-02	LOCKWSHR-TTH,EXT,#10	5				
15-3	148081	GASKET	1				
15-4	2198091	BOOT-FUEL SENDER	1				
15-5	2208073	SENDER-FUEL LEVEL	1				
15-6	2198188	TANK-FUEL 700	1				
15-7	2690023	FTG-5/16 ELBOW-90 DEG	3				
15-8	48310	BUSHING, FUEL TANK	4				
15-9	2198159	FTG-1/4 90 DEG ELBOW	1				
15-10	88042-01	CLAMP-HOSE 3/16	1				
15-11	88042-02	CLAMP-HOSE 5/16	5				
(148263-05 IS A SERVICEABLE LENGTH OF 46")							
15-12A	148263-05	HOSE-FUEL 5/16-4"	1				
15-12B	148263-05	HOSE-FUEL 5/16-17"	1				
15-12C	148263-05	HOSE-FUEL 5/16-9"	1				
15-12D	148263-05	HOSE-FUEL 5/16-19"	1				
15-12E	148263-05	HOSE-FUEL 5/16-14"	1				
15-13	148264-02	S HSE.44 X.19 X 26.0	1				
15-14	48540-01	HOSE CLAMP	6				
15-15	108086-05	FTG-BARB 90-5/16 X 1/4	2				
15-16	69051-05	PIPE PLUG-1/4, INT	2				
15-17	2721539	FUEL MANAGER	1				
15-18	48228A	CABLE CLIP	1				

ELECTRICAL DIAGRAM 723D & 728D

700 Series
Front Line
Tractors

FIGURE 16



700 Series Front Line Tractors

ELECTRICAL DIAGRAM 723D & 728D

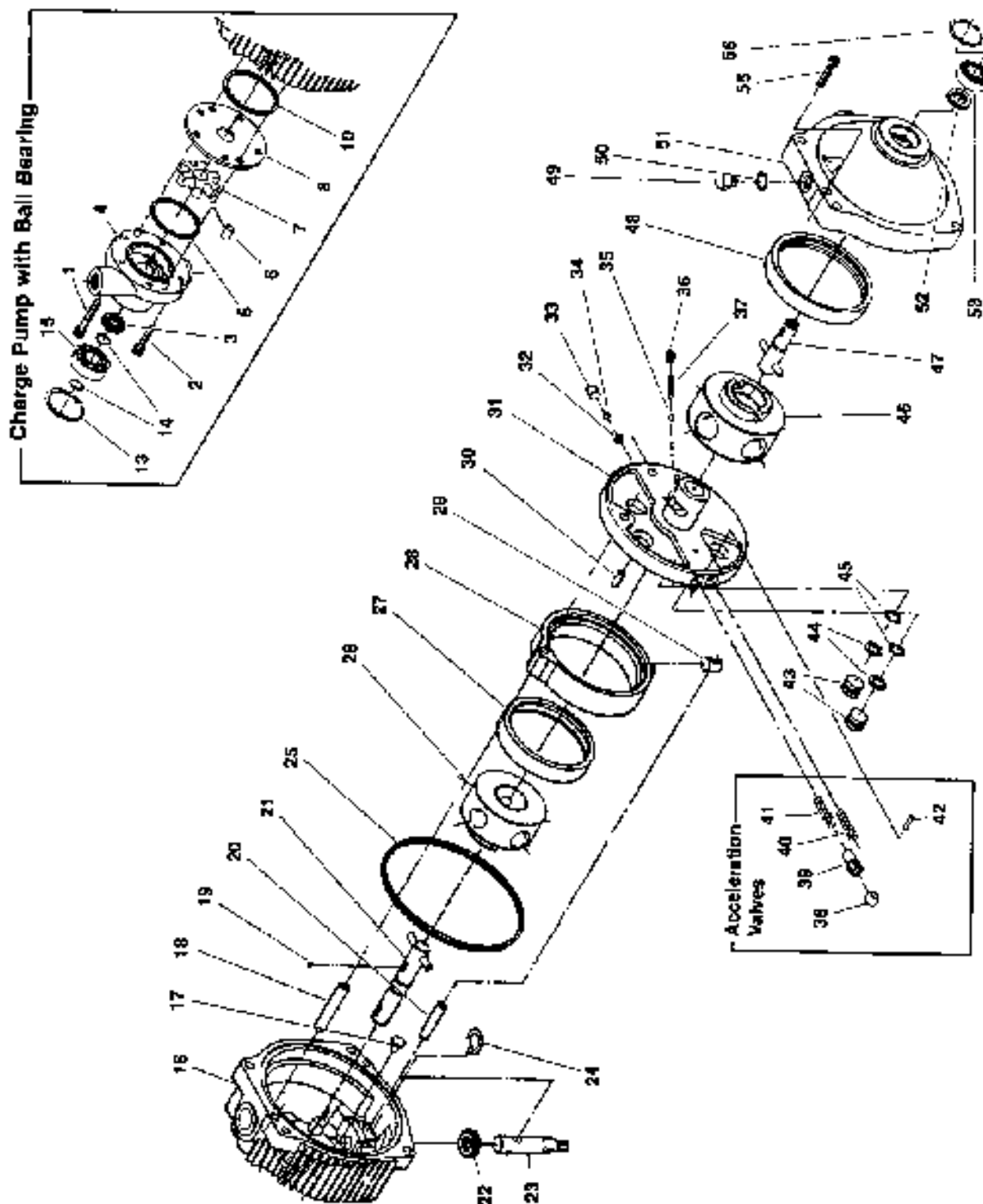
2197132

FIGURE 16

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
16-1	48037A	BOOT-BATTERY TERM	1			(ON 723D STARTER)	
16-2	148074	BATTERY-BCI 26	1	*	64207-01	NUT M8	1
16-3	148164	CABLE-BATTERY	1	*	64006-02	LOCKWSHR-5/16	1
16-4	2198092	CABLE-BATTERY NEG.	1			(ON 723D ALTERNATOR)	
	64205-018	BLT-MET M8-1.25X15	1	*	64207-06	NUT M6	1
	64006-02	LOCKWSHR-5/16	1	*	64006-01	LOCKWSHR 1/4	1
16-5	2198141	CABLE-FRAME GROUND	1			(ON 728D ALTERNATOR)	
	64205-001	BOLT-MET 8 x 20	1	*	64237-01	LOCKNUT NYLON M5	1
	64006-03	LOCKWASHER 3/8	1	*	64251-001	WASHER-M5	1
16-6	48524	CIRCUIT BREAKER 40A	1				
	64206-13	BLT-MET M5-.8X12	2				
	64237-01	LCKNUT NYLON M5	2				
	64251-001	WASHER-M5	2				
16-7	48030N	HOOR METER	1				
16-8	2722325	RELAY-40AMP SEALED	1				
	64206-13	BLT-MET M5 .8X12	1				
	64237-01	LCKNUT NYLON M5	1				
	64251-001	WASHER-M5	2				
16-9	886425	HORN	1				
16-10	2208073	SENDER-FUEL LEVEL	1				
16-11	148061	BUTTON-HORN	1				
		(OPTIONAL EQUIPMENT)					
16-12	148269	GAUGE-TEMPERATURE	1				
16-13	148032	GAUGE-FUEL	1				
16-14	158136	WIRE SEAT SWITCH	1				
16-15	158135-01	SWITCH-SEAT	1				
16-16	2308094	SWITCH-DBL POLE	1				
16-17	148082-20	FUSE-20 AMP	1				
	64206-13	BLT-MET M5 .8X12	1				
	64237-01	LCKNUT NYLON M5	1				
	64251-001	WASHER-M5	2				
16-18		KEY SWITCH	1				
		GLOW INDICATOR	1				
		(PERKINS KEY SWITCH DIODE & GLOW INDICATOR INCLUDED WITH ENGINE - AVAILABLE THROUGH PERKINS DEALER.)					
16-19	2188153	PTO SWITCH	1				
16-20	148270	TEMP SENDER	1				
16-21	2198272	HARNESS-WIRING	1				
16-22	888923	PUMP-AY FUEL	1				
16-23	2721124	CLUTCH	1				
16-24	2198091	BOOT-FUEL SENDER	1				
16-25	2720949	ASSY-CLUTCH WIRE	1				

* NOT ILLUSTRATED

FIGURE 17



700 Series Front Line Tractors

EATON M-11 TRANSMISSION

2197134

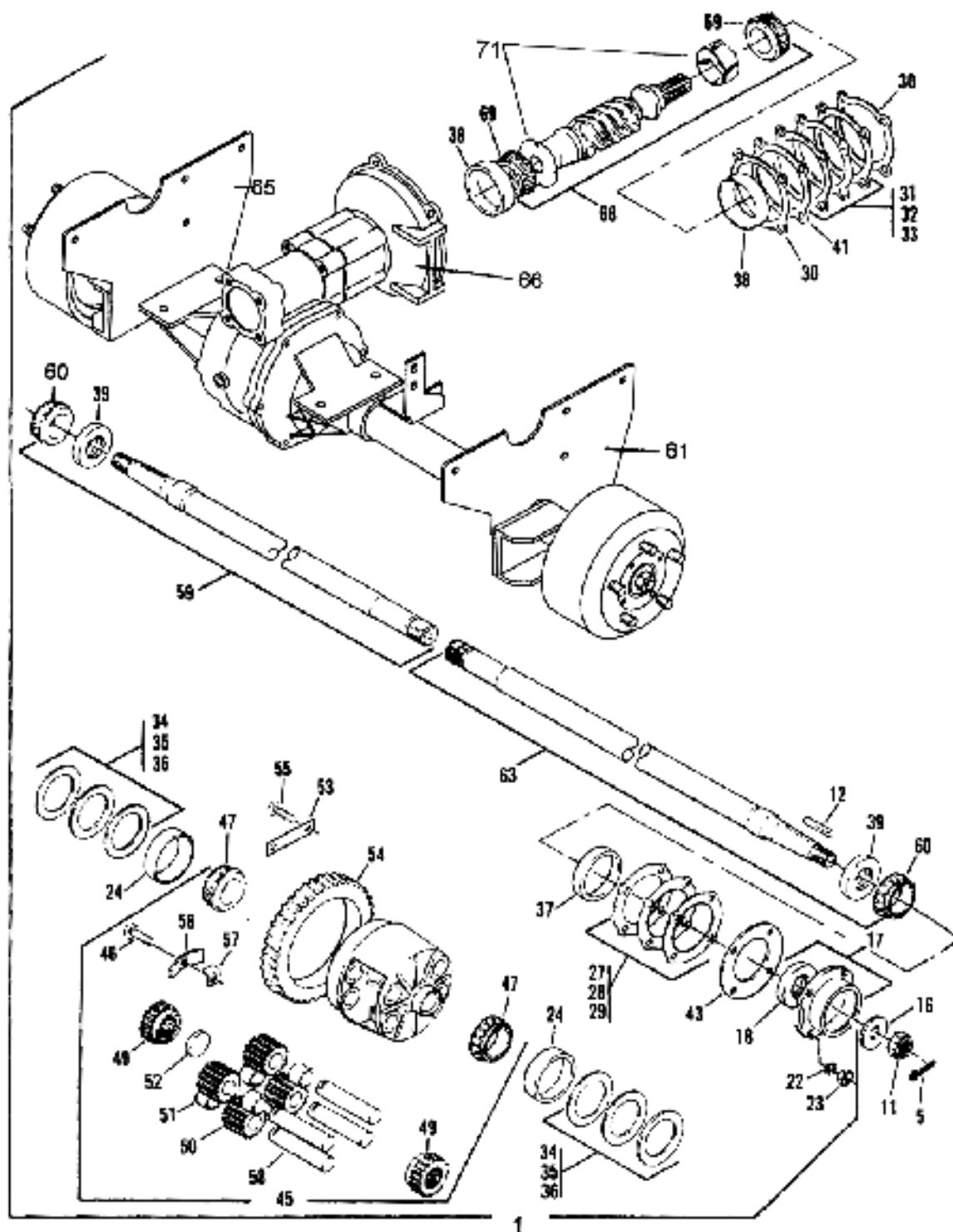
FIGURE 17

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
EATON M-11 TRANSMISSION P/N 2198196 PARTS SERVICED BY RANSOMES.							
17-1	2198110-1	SHCS	1				
17-2	2198110-2	SHCS	6				
17-3	(SEE ITEM 4)						
17-4	2198110-5	CHARGE PUMP (INCLUDES ITEMS: 3,6, & 7)	1				
17-5	2198110-18	SEAL RING	1				
17-6	(SEE ITEM 4)						
17-7	(SEE ITEM 4)						
17-8	2198110-16	PUMP PLATE	1				
17-10	2198110-17	SEAL RING	1				
17-13	2198110-20	RETNG RING	1				
17-14	2198110-4	SNAP RING	2				
17-15	2198110-19	INPUT BEARING	1				
17-16	2198110-9	COVER (INCLUDES ITEMS: 18,20,22,23, & 24)					
17-17	2198110-15	BUTTONS	2				
17-18	(SEE ITEM 16)						
17-19	2198110-6	DRIVE PIN	1				
17-20	(SEE ITEM 16)						
17-21	2198110-3	INPUT SHAFT	1				
17-22	(SEE ITEM 16)						
17-23	(SEE ITEM 16)						
17-24	(SEE ITEM 16)						
17-25	2198110-10	SEAL RING	1				
17-26	2198110-7	PUMP ROTOR	1				
17-27	(SEE ITEM 28)						
17-28	2198110-8	CAM RING (INCLUDES ITEM 27)	1				
17-29	2198110-14	CAM RING INSRT	1				
17-30	(SEE ITEM 31)						
17-31	2198110-12	PINTLE (INCLUDES ITEMS 30 THRU 45)	1				
17-46	2198110-13	MOTOR ROTOR	1				
17-51	2198110-11	BODY (INCLUDES ITEMS:47-50,52,53, & 56)	1				
17-55	(SEE ITEM 1)						
17-57	2198110-21	SEAL KIT	A/R				

DIFFERENTIAL BREAKDOWN

FIGURE 18

700 Series
Front Line
Tractors



700 Series Front Line Tractors

DIFFERENTIAL BREAKDOWN

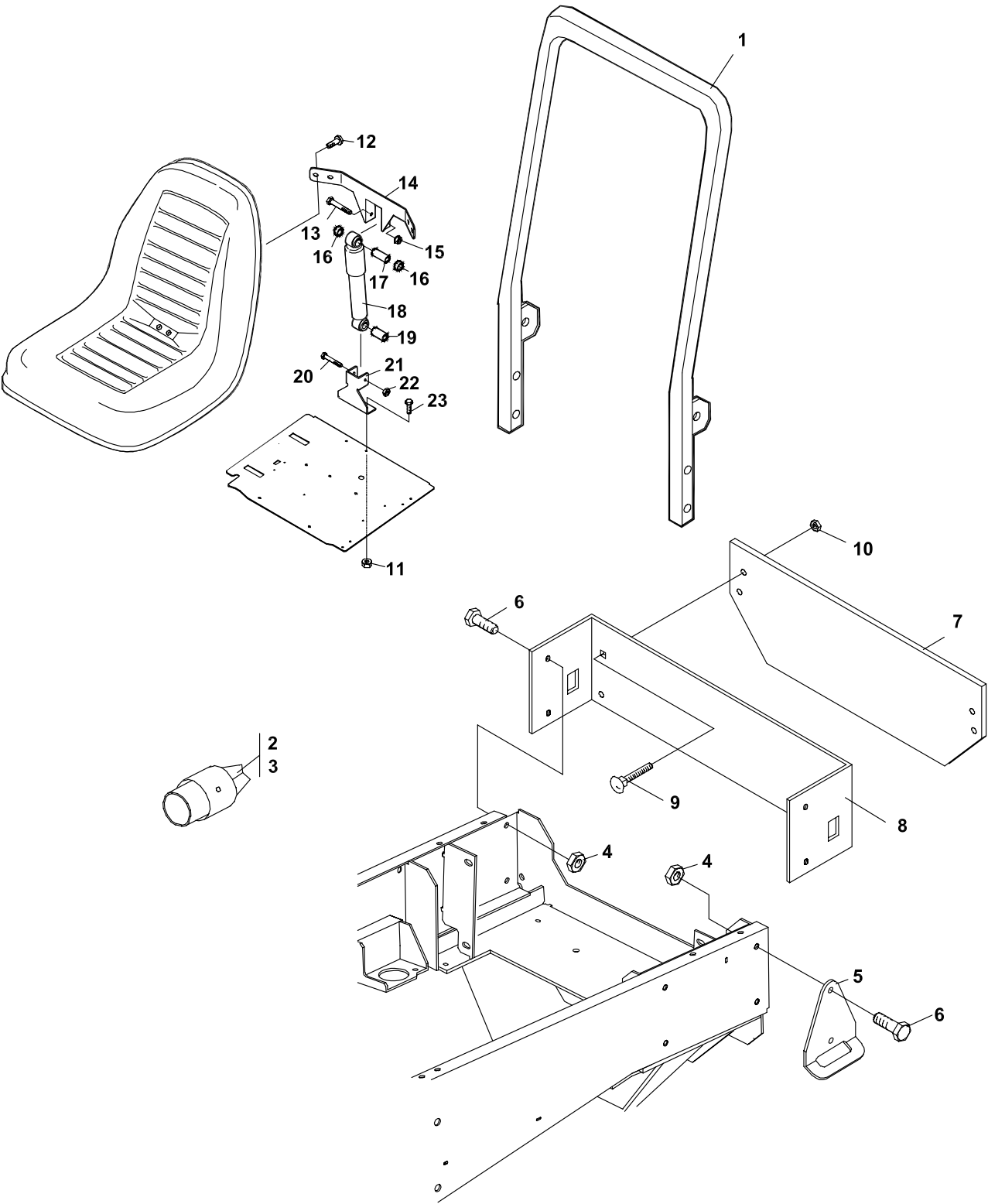
2197135

FIGURE 18

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
18-1	2198232	DIFFERENTIAL AXLE	1	18-65	893776	HOUSING,RIGHT W/BRG	1
18-5	304636	PIN, COTTER 1/8X1-1/8	2	18-66	198020	HYDROSTAT HSG ADAPT	1
18-11	805843	NUT, 5/8-18 CASTLE	2	18-68	885114	WORM, COMPLETE	1
18-12	805875	KEY	2	18-69	814475	CONE, WORM BRG	2
18-16	836674	WASHER	2	18-71	886706	SLINGER SET, OIL	1
18-17	879476	RETAINER W/SEAL	2	18-72	814466	SHIM .005	2
	(INCLUDES ITEM 18)			18-73	814468	SHIM .030	1
18-18	814488	SEAL, OIL	2	18-74	816515	SHIM .003	2
18-22	306325	5/16 LOCKWASHER	8				
18-23	306932	NUT 5/16-18	8	* 120177		LOCKWASHER 3/8	2
18-24	320122	CUP, DIFFL BEARING	2	* 551094		SCREW, 3/8-16 X 1-3/4	2
18-27	805320	SHIM, WHL BRG .005	A/R				
18-28	805321	SHIM, WHL BRG .010	A/R				
18-29	805322	SHIM, WHL BRG .030	A/R				
18-30	814465	GASKET,WRM BRG RET	2				
18-31	814466	SHIM, WORM BRG .005	A/R				
18-32	814467	SHIM, WORM BRG .010	A/R				
18-33	814468	SHIM, WORM BRG .030	A/R				
18-34	814469	SHIM, DIFFL .003	A/R				
18-35	814470	SHIM, DIFFL .005	A/R				
18-36	814471	SHIM, DIFFL .010	A/R				
18-37	814474	CUP, WHEEL BRG	2				
18-38	814476	CUP, WORM BRG	2				
18-39	814477	SEAL, AXLE	2				
18-41	816515	SHOM, BRG RET .003	A/R				
18-43	827264	RET, WHEEL BRG	2				
18-44	827380	SCREW, SPECIAL	8				
18-45	880176	GEAR, CARRIER	1				
18-46	306555	SCREW, 5/16-18X3/4	2				
18-47	386767	CONE, CARRIER BRG	2				
18-49	814481	GEAR, AXLE	2				
18-50	814482	GEAR, PLANET	4				
18-51	814483	SPACER, GEAR, PLANET	4				
18-52	814484	SPACER, AXLE END PLAY	1				
18-53	815794	PLATE, LOCK	2				
18-54	816038	GEAR, WORM	1				
18-55	816812	SCREW, SPECIAL	6				
18-56	816823	PLATE, SHAFT RETNR	2				
18-57	816824	PLATE, LOCK	2				
18-58	816825	SHAFT, PLANET GEAR	4				
18-59	882055	AXLE, RIGHT W/BRG	1				
18-60	814473	CONE, WHEEL BRG	2				
18-61	893777	HOUSING, LEFT W/BRG	1				
18-63	885093	AXLE, LEFT W/BRG	1				

* NOT ILLUSTRATED

FIGURE 19



700 Series Front Line Tractors

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MISCELLANEOUS OPTIONS

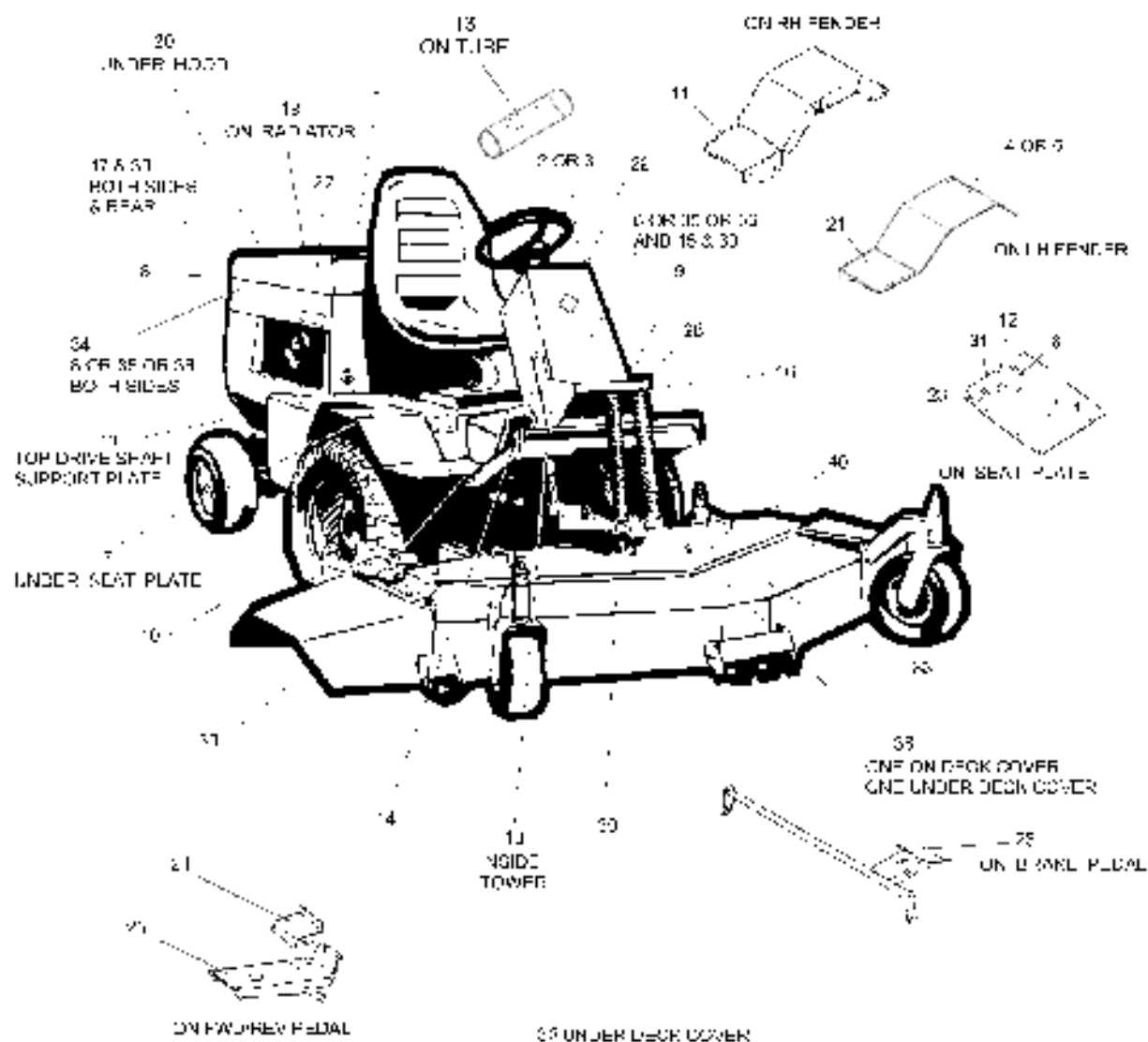
FIGURE 19

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
19-1	970078	ATT-2 POST ROPS 700)	1				
19-2	770186	S-SPARK ARRESTOR (USE ON 725 ONLY)	1				
19-3	148098	S-SPARK ARRESTOR (USE ON 723D & 728D ONLY)	1				
970114 KIT-TIE DOWN BRACKETS INCLUDES: ITEMS 4,5, & 6							
19-4	64237-06	LCKNT-NYLON M12	4				
19-5	2192506	BRKT-TIE DOWN	2				
19-6	64205-029	BLT-MET M12X40	8				
970124 OPTIONAL WEIGHT KIT INCLUDES: ITEMS 4 & 7 - 11							
19-7	2192304.7	WEIGHT	10				
19-8	2192586.7	BUMPER	1				
19-9	64018-16	BLT-CRG 1/2-13X5	2				
19-10	64151-7	1/2-13 HEX LOCKNUT	2				
19-11	64141-3	NUT-WLF 3/8-24	2				
970049 OPTIONAL SHOCK ABSORBER KIT INCLUDES ITEMS 12-24							
19-12	64139-13	BLT-WLF 5/16-18 X 1/2	4				
19-13	64123-88	BLT-HEX 3/8-16 X 2 3/4	1				
19-14	524403	BRCKT, SHCK ABSORBER	1				
19-15	64141-11	NUT-WLF 3/8-16 CL	1				
19-16	830367	BUSHING	2				
19-17	830368	BUSHING	1				
19-18	807332	SHOCK ABSORBER	1				
19-19	516548	BUSHING	1				
19-20	64123-56	BLT-HEX 5/16-18X2	1				
19-21	2192374	BRKT-SHOCK MNT	1				
19-22	64141-9	NUT-WLF 5/16-18 CL	1				
19-23	64139-05	BLT-WLF 3/8-24 X 1	2				
FOR PAINT TOUCH-UPS USE THE FOLLOWING:							
838140		PAINT, SPRAY 16 OZ. RANSOMES GREEN					
838141		PAINT, QUART RANSOMES GREEN					

DECALS

FIGURE 20

700 Series Front Line Tractors



700 Series Front Line Tractors

2197140

DECALS

FIGURE 20

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
20-1	2000734	LABEL-AIR INTAKE	1	20-32	2000737	LABEL-WARN/CONICAL	1
20-2	2000762	DECAL-INST PNL, 946709 (USE ON 725 ONLY)	1	20-33	00555	LABEL-HEIGHT OF CUT	1
20-3	2000738	DECAL-INST PNL #946703 (USE ON 723D & 728D ONLY)	1	20-34	2000635	LABEL-FRONTLINE	2
20-4	2000730	LABEL-DIESEL ONLY (USE ON 725 ONLY)	1	20-35	2000626	LABEL-723D DIE CUT (USE ON 723D ONLY)	3
20-5	00340	LABEL-UNLEADED FUEL (USE ON 725 ONLY)	1	20-36	2000625	LABEL-725 DIE CUT (USE ON 725 ONLY)	3
20-6	2000763	LABEL-HYD FILL	1	20-37	2000584	S-4' STRIPE	A/R
20-7	2000590	LABEL, WARN BATTERY	1	20-38	2000732	LABEL-HOOK LATCH	2
20-8	2000636	LABEL-728D DIE CUT (USE ON 728D ONLY)	4	20-39	2000677	LABEL-DANGER/WARN	1
20-9	2000727	LABEL-BRAKE PEDALS	1	20-40	2000572	LABEL-WARNING BLADES	1
20-10	2000724	LABEL, MAIN WARNING	1				
20-11	2198137	MAT-FENDER RH	1				
20-12	2000591	LABEL, THROTTLE	1				
20-13	2000673	DECAL - OP MAN/TIRES	1				
20-14	00225	DECAL, FWD/REV	1				
20-15	2000628	LABEL-RNSMS DIE CUT	1				
20-16	2000731	LABEL-RELIEVE SPRING	1				
20-17	2721030	LABEL-RANSOMES	3				
20-18	2000723	LABEL-PARTS ROTATE	1				
20-19	2000726	LABEL-FAN ROTATE	2				
20-20	2000761	LABEL-HYD FILL	1				
20-21	2198136	MAT-FENDER LH	1				
20-22	2720643	LABEL-TEXTRON	1				
20-23	2000728	LABEL-DECK LIFT	1				
20-24	48013-06A	MAT-NON SKID	1				
20-25	48436	MAT-NON SKID	1				
20-26	2198129	MAT-BRAKE PEDAL	1				
20-27*	148085	MAT-FLOOR RH	1				
20-28*	148086	MAT-FLOOR LH	1				
20-29	2720122	LABEL-DIAMOND R	1				
20-30	2000584	S-4' STRIPE 7369	A/R				
20-31	2000725	LABEL-HIGH PRESSURE	1				

* NOT ILLUSTRATED

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