

TUBE•LINE™

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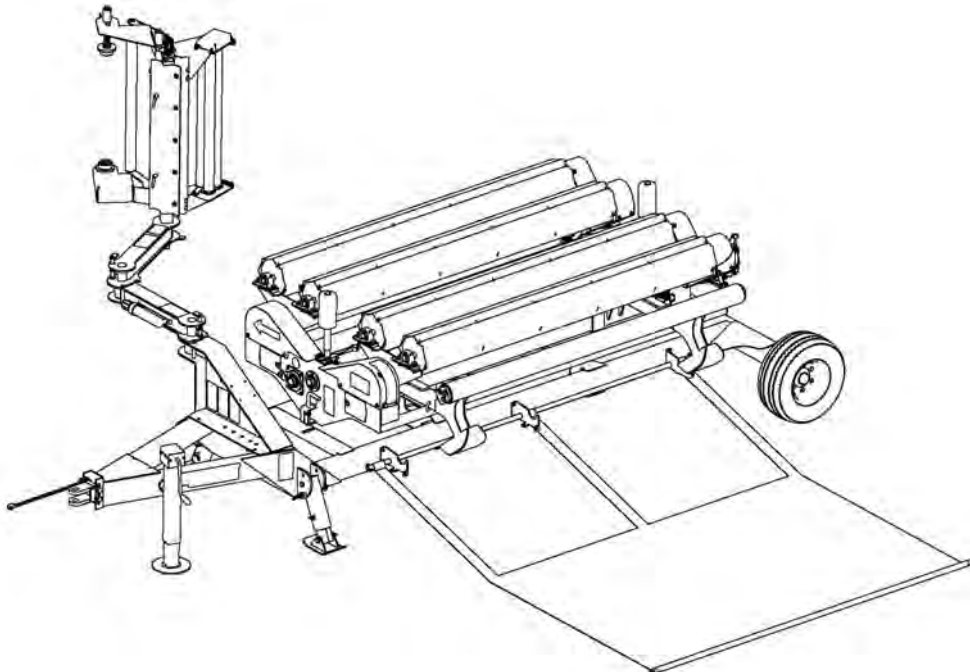
Parts Manual

Keep this manual with the machine at all times.

TL1700SR

Individual Bale Wrapper

TL1700SR



Parts Manual

Thank you for choosing the Tubeline TL1700SR Individual Bale Wrapper. Our hope is that it will give you many years of productive service. This machine is designed to wrap round bales in a film of plastic.

Warranty and Limitation of Liability

All equipment is sold subject to mutual agreement that it is warranted by the company to be free from defects of materials and workmanship. But the company shall not be liable for special, indirect or consequential, damages of any kind under this contract or otherwise. The company's liability shall be limited exclusively to replacing or repairing without charge, at its factory or elsewhere, at its discretion.

Any material, or workmanship defects which become apparent within one year from the date on which the equipment was purchased, and the company shall have no liability for damages of any kind. The buyer by the acceptance of the equipment will assume all liability for any damages, which may result from the use or misuse by his employees or others.

Warranty coverage is null and void unless Warranty Registration form has been completely filled in and is on file at Tube-Line Manufacturing Ltd.

Serial Number Decal

The implement serial number is located on the front of the frame. This number helps us to track changes and improvements and must be mentioned when ordering parts or requesting service. For your convenience, a space has been provided inside the front cover of this manual to record the serial number, model number, purchase date, and dealer name.

Model No: _____ TL1700SR _____

Serial No: _____

Date Purchased: _____

Dealer Name: _____

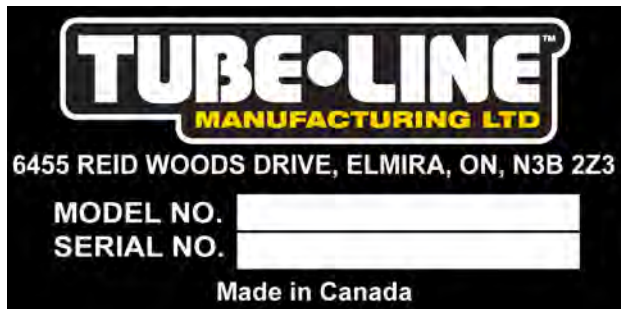
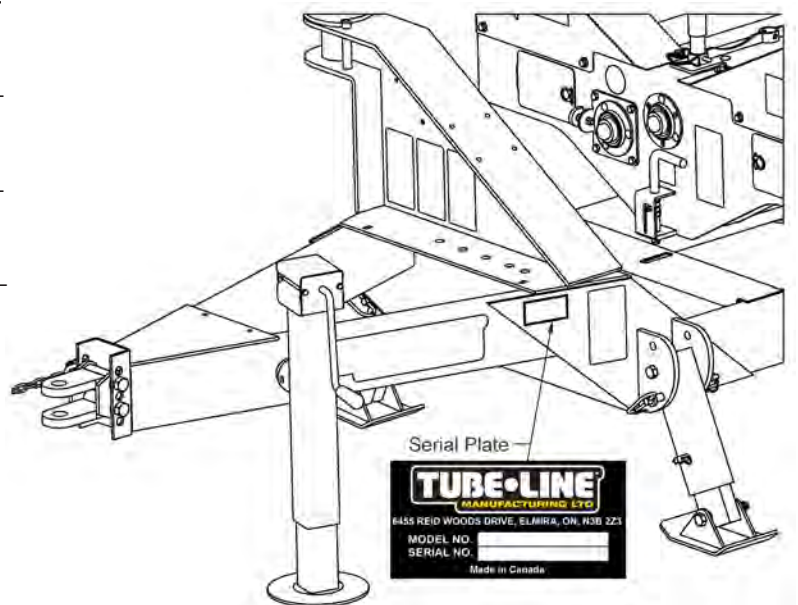
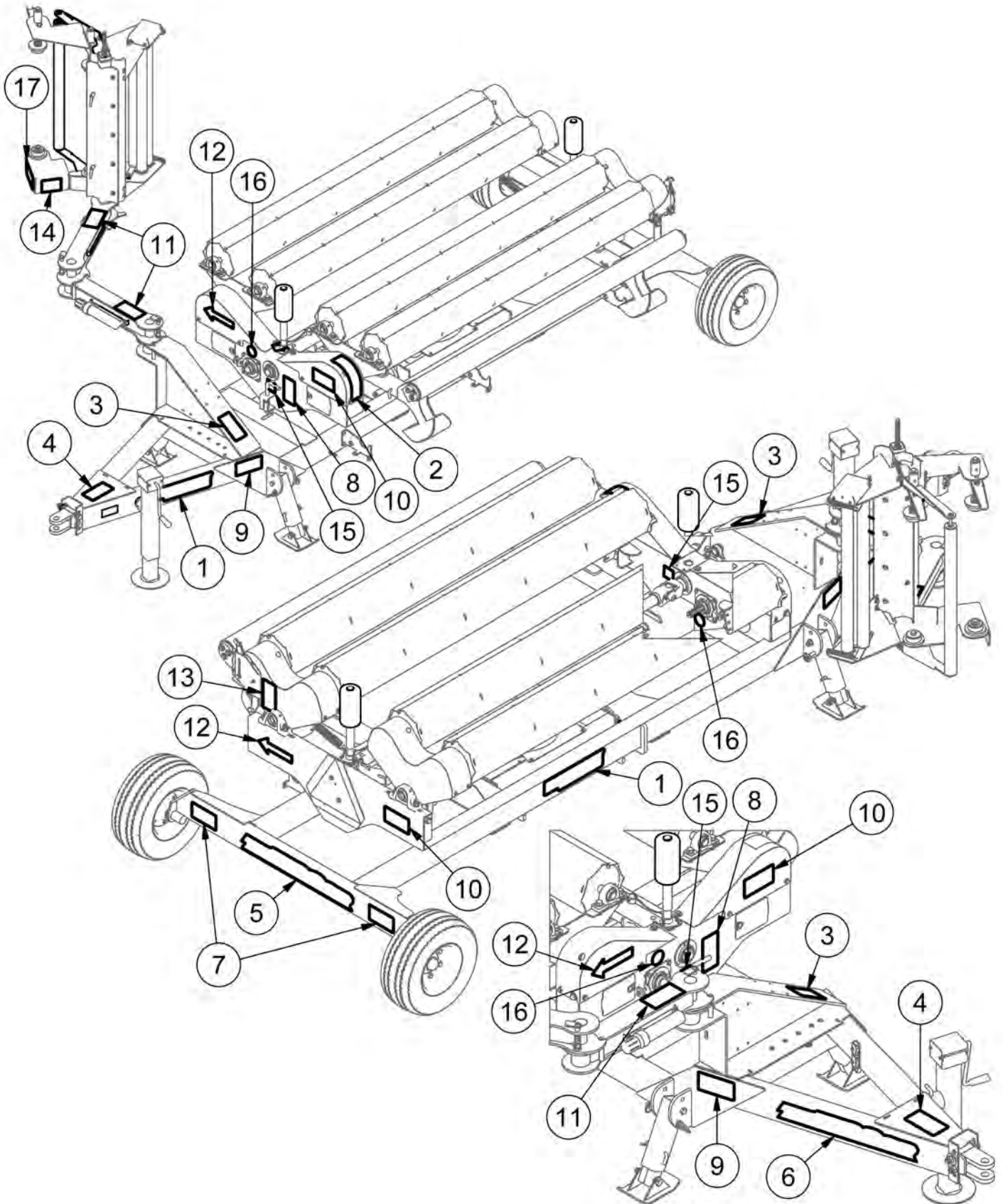


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Section 1: Safety Signs

Safety Decal Location



Safety Decal Location

ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	DE28146	Tubeline Decal 4" x 16"
2	1	DE36080	Decal for TL1000R-Unload
3	1	DE41713	ISO Decal - High Pressure Fluid
4	1	DE41714	ISO Decal - Read Operator's Manual
5	1	DE41732	Decal Model Number TL1700SR Large
6	1	DE41733	Decal Model Number TL1700SR Small
7	2	DE41899	ISO Decal - Stand Clear of Indi Wrapper
8	1	DE41900	ISO Decal - Lock
9	2	DE41901H	ISO Decal (Horizontal) - Raise Legs
10	2	DE41902	ISO Decal - Chain Entanglement
11	2	DE41905	ISO Decal - Lock Arm
12	2	DE41912	Decal - Stand Clear
13	1	DE41913	ISO Decal - Cutting Hazard
14	1	DE41915	TL1700SR Film Routing Decal
15	2	DE42788	ISO Decal - Square Bale
16	2	DE42789	ISO Decal - Round Bale
17	1	DE48247H	ISO Decal - Electric Shock

Safety Decals

Item 12 on [pg.1-3](#)

Part # : DE41912 - Ends of Turntable

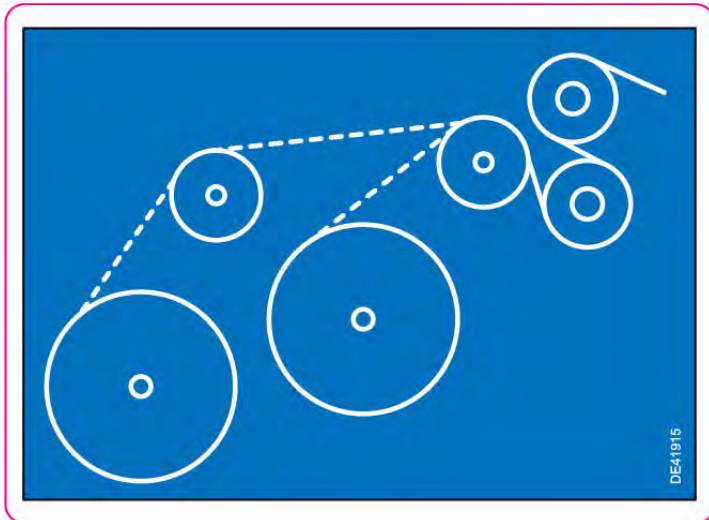
Visual arrows display warning to stay clear of operating Turntable.



Item 1 on [pg.1-3](#)

Part # : DE36080 - Front Left of Turntable

Marks side the wrapper turntable ejects bale off of.



Item 14 on [pg.1-3](#)

Part No: DE41915 - Tensioner Arm

See [pg.3-2](#) for detailed instruction on routing plastic film through tensioner.

Item 5 on [pg.1-3](#)

Part No: DE41732 - Rear Cross Beam of Trailer Base
Large Model Decal

Item 6 on [pg.1-3](#)

Part No: DE41733 - Right Side of Tongue
Small Model Decal



Safety Decals

Item 2 on [pg.1-3](#)

Part No: DE41713 - Front Left of Trailer Base



Do not use hand to check for hydraulic leaks, refer to operators manual for maintenance instructions.

Item 3 on [pg.1-3](#)

Part No: DE41714 - Front Left of Trailer Base



Read and understand manual before operating machine.

Item 4 on [pg.1-3](#)

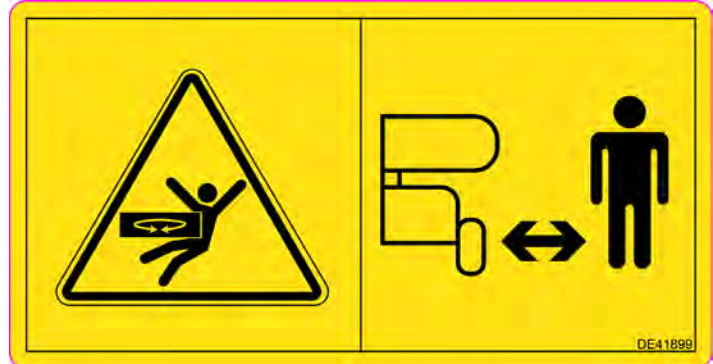
Part No: DE41715 - Front Left of Trailer Base



Remove key from power unit before attempting any maintenance on this machine.

Item 7 on [pg.1-3](#)

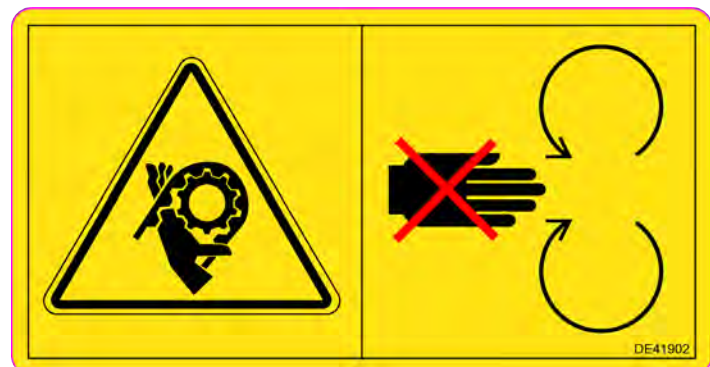
Part No: DE41899 - Rear Cross Beam of Trailer Base
Stand clear of wrapper while turntable is spinning.



Item 10 on [pg.1-3](#)

Part No: DE41902 - Ends of Turntable

Do not remove shields before drive components have completely stopped. Keep hands away while machine is in operation.



Safety Decals

Item 8 on [pg.1-3](#)

Part No: DE41900 - Middle front end of Turntable
Lock wrapper Turntable with spring pin before
transporting to avoid wear of drive system.



Item 9 on [pg.1-3](#)

Part No: DE41901H - Both back sides of Tongue
Raise legs and lock into position before
transporting machine.



Item 11 on [pg.1-3](#)

Part No: DE41905 - Tops of Tensioner arms
To prevent pinching from swinging Tensioner
arms make sure arm lock pins are in locked
down position before operating wrapper.



Item 13 on [pg.1-3](#)

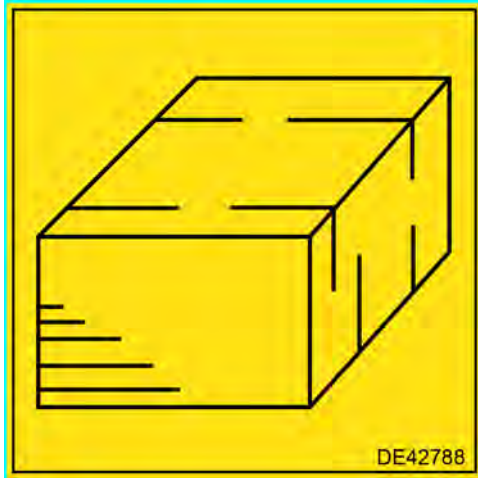
Part No: DE41913 - Back Left Roller Shield
Wait until all machine components have
stopped moving before touching.



Safety Decals

Item 15 on [pg. 1-3](#)

Part No: DE42788 - Attach driveline to this stub shaft to wrap square bales.



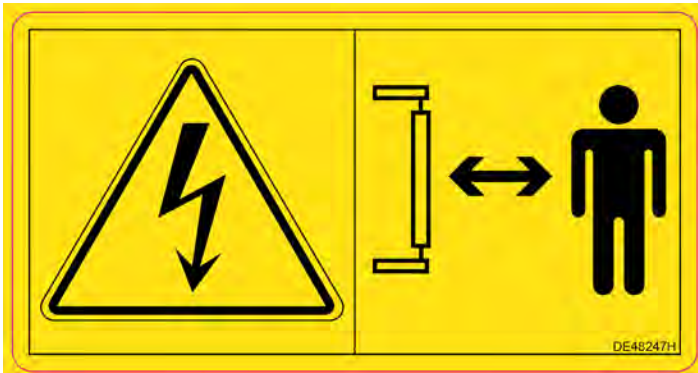
Item 16 on [pg. 1-3](#)

Part No: DE42789 - Attach driveline to this stub shaft to wrap round bales.



Item 17 on [pg. 1-3](#)

Part No: DE48247H - Shock hazard from touching roller when in contact with plastic film.



Remember

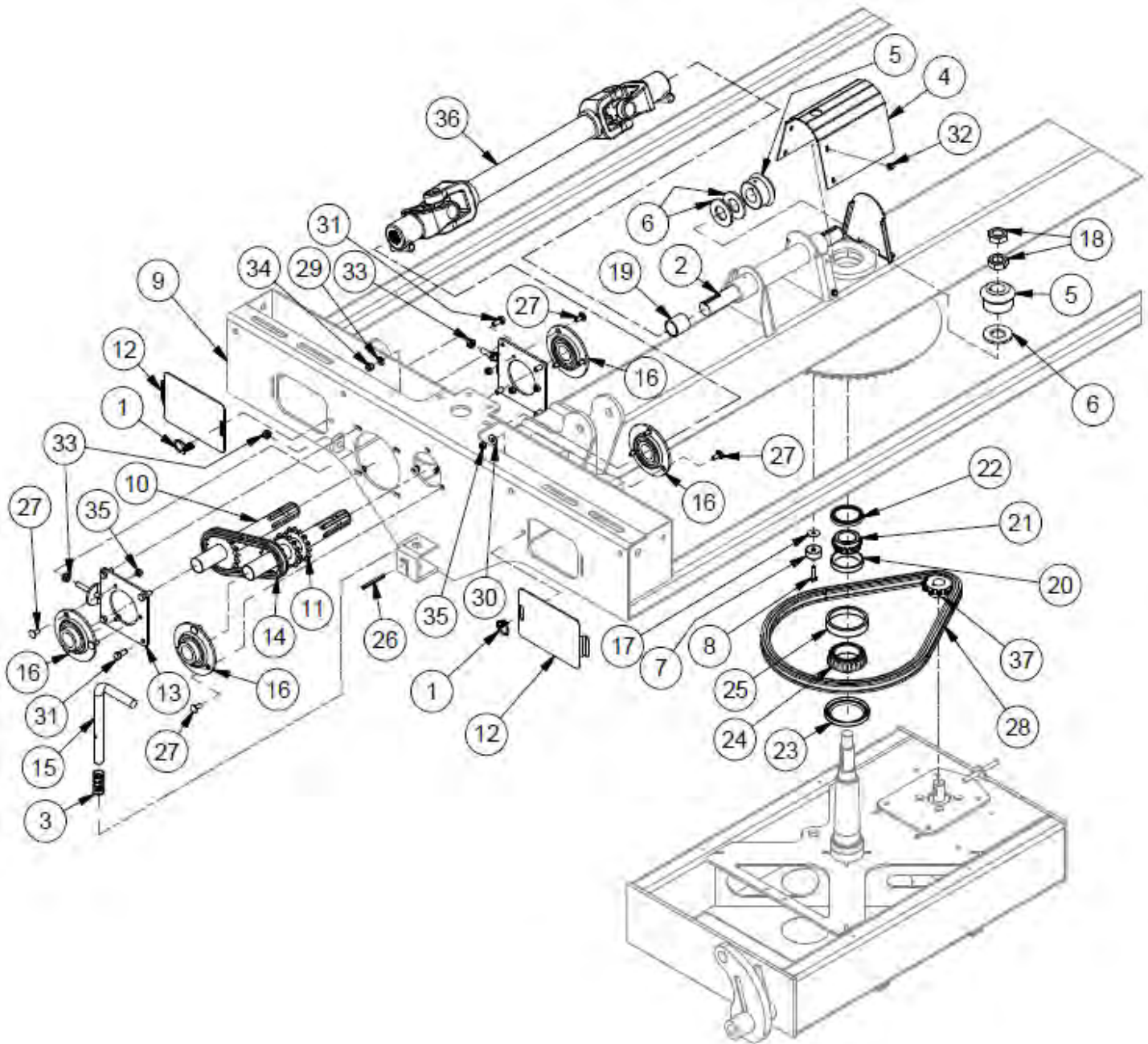
Your best assurance against accidents or damage to the machine is to know how it operates. If you do not understand a portion of the manual or a function of the wrapper, please contact your dealer or an experienced operator.

Section 2: Standard Parts

Actual parts may vary slightly from illustrations shown.

Turntable - Original

Used up to serial number: 1717001. Also 1717004-1717018, 1717021-1717031.



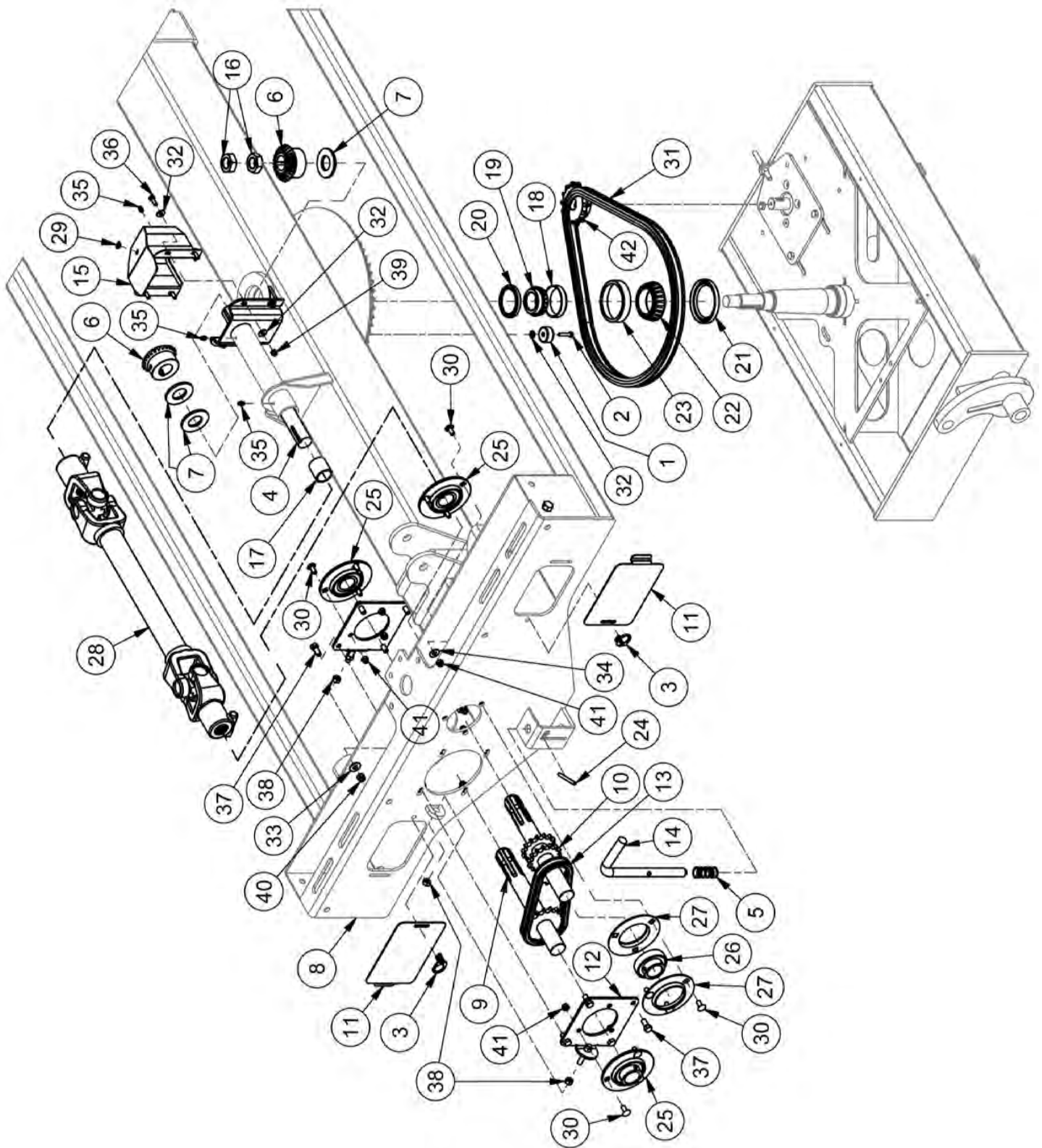
Turntable - Original

Used up to serial number: 1717001. Also 1717004-1717018, 1717021-1717031.

ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	36268	Cam Lock
2	1	37034	Turn Table Cross Shaft
3	1	27566	Spring Compression for Wrappers .97 OD x 2.0 Long
4	1	35092	Gear Shield
5	2	35714	Tapered Gear- 24 Tooth - 8 Pitch
6	3	35785	Miter Gear Spacer
7	1	36254	DigiStar Magnet
8	1	36255	DigiStar M6 Stainless Bolt
9	1	37012	Turntable Frame
10	1	40616	Drive Shaft
11	1	40733	Drive Shaft
12	2	40734	Access Cover
13	2	40761	Chain Tightener
14	1	40965	Middle Drive Chain
15	1	41708	Transport Lock Pin
16	4	BEA 49939	BEA PF207 & BEA SA207-22
	1	BEA PF207	Flange (3 Hole) - PF207
	2	BEA SA207-22-P5Z	Bearing - BEA Sa207-22 Plated Flange Bearing
17	1	FW 1/4	Flatwasher - 1/4" Zinc Plated USS
18	2	HN 1.0 JAM	Hex Nut - 1-14 Zinc Plated Hex Jam Nut
19	2	INS150125150B	Insert Bushing (Bronze) 1.50 OD x 1.25 ID x 1.50 Long
20	1	LA-11-1009	Cup 13620
21	1	LA-11-1010	Cone 13686
22	1	LA-11-1011	Seal CR20952
23	1	LA-11-1124	Seal CR27361 for HUB8000
24	1	LA-11-1125	Inner Cone JLM506849
25	1	LA-11-1126	Inner Cup JLM506810
26	1	RP 1/4X2.1/2	Pin - Roll Pin 1/4 x 2 1/2" (Slotted Spring Pin)
27	12	CB 5/16-18X 3/4 Z5	Carriage Bolt - 5/16-18 x 3/4" Zinc Plated Grade 5
28	1	CHAIN 50 ROLLER	5' #50 Chain + Sprocket
29	4	FW 3/8	Flatwasher Plated, 3/8" Zinc Plated USS
30	5	FW 5/16	Flatwasher - 5/16" Zinc Plated USS
31	8	HB 3/8-16X1.0 Z5	Hex Bolt 3/8-16 x 1" Grade 5 Zinc Plated Hex Cap Screw NC
32	4	HBC14X12	Hex Bolt 1/4-20 x 1/2 Grade 8.2 Zinc Flange Bolt SAE
33	4	HNC38	Hex Nut Cerrated
34	24	LN 3/8 N	Locknuts - 3/8-16 Zinc Plated Nylon Insert Lock Nut
35	13	LN 5/16 N	Locknut - 5/16-18 Type NE Zinc Plated Nylon Insert
36	1	41881	Cross Shaft
37	1	SPR60B14-1	60B14 Sprocket w/1 Bore 1/4 kwy 2 4/4 SS

Turntable - Current

Used from serial number 1717032 to current. Also 1717002, 1717003, 1717019 & 1717020.

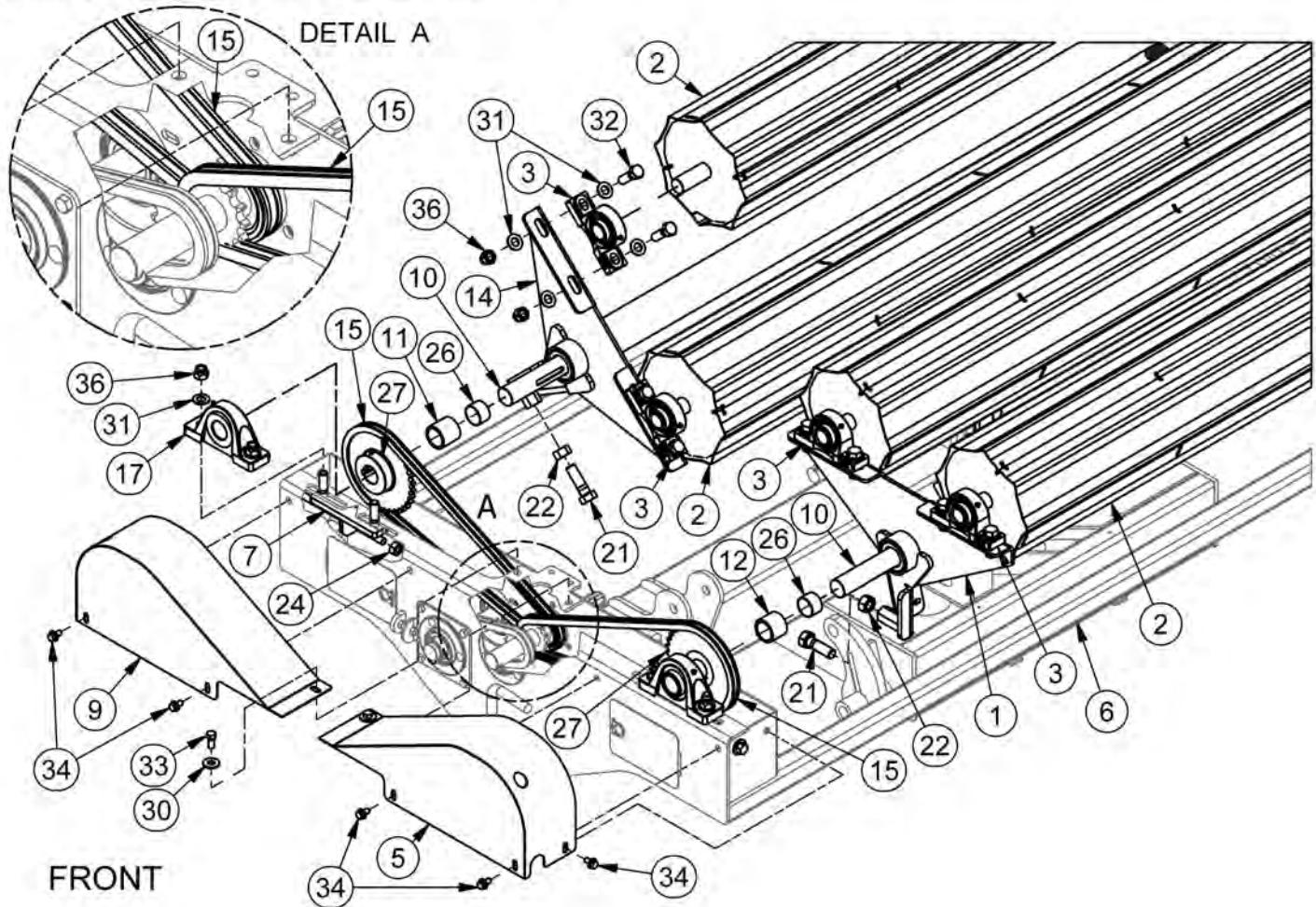
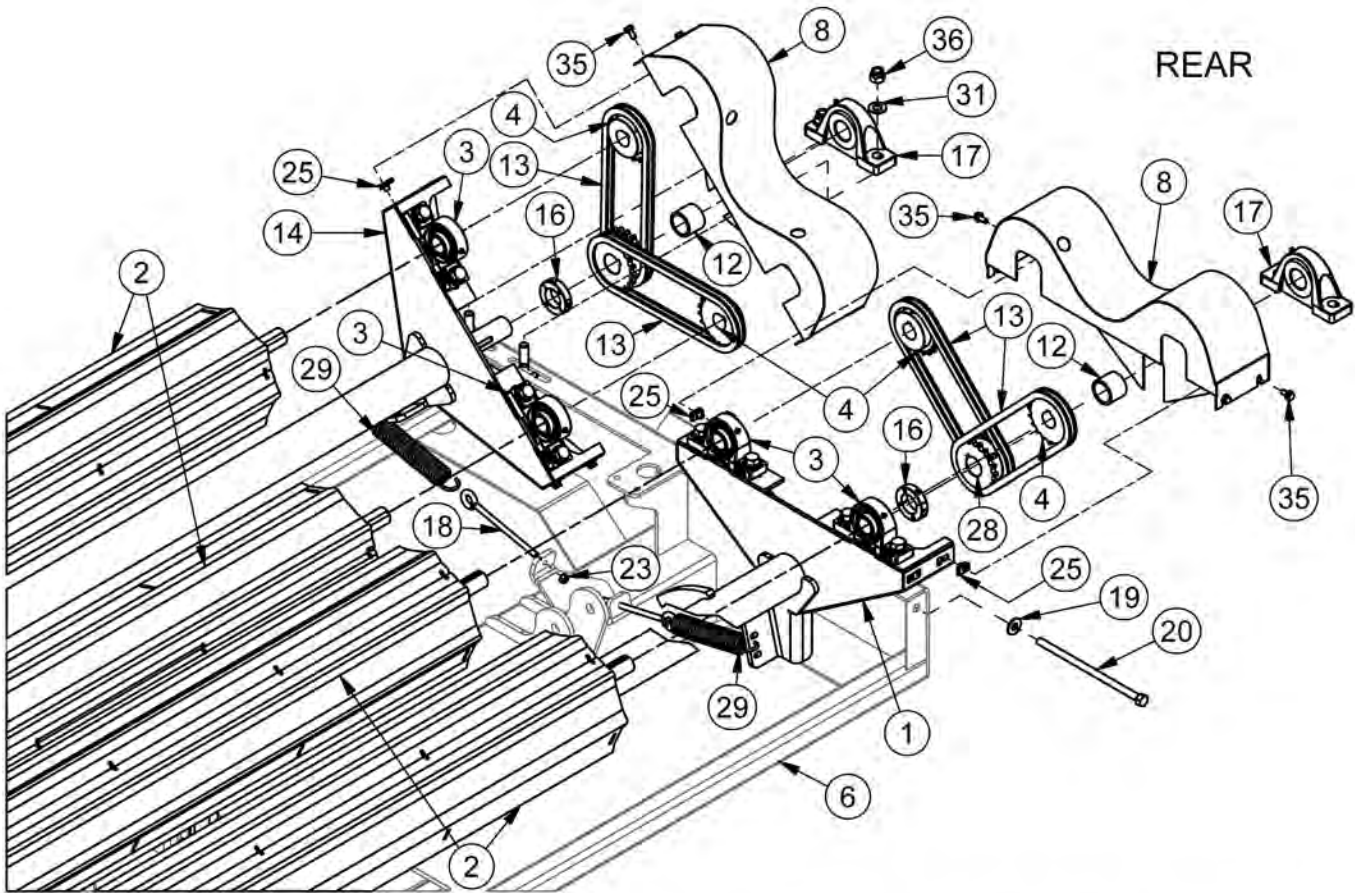


Turntable - Current

Used from serial number 1717032 to current. Also 1717002, 1717003, 1717019 & 1717020.

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	36254	Digistar Magnet
2	1	36255	DigiStar M6 Stainless Bolt
3	2	36268	Cam Lock
4	1	37034	Turn Table Cross Shaft
5	1	27566	Spring Compression for Wrappers .97 OD x 2.0 Long
6	2	35714	Tapered Gear- 24 Tooth - 8 Pitch
7	3	35785	Miter Gear Spacer
8	1	37012	Turntable Frame
9	1	40616	Drive Shaft
10	1	40733	Drive Shaft
11	2	40734	Access Cover
12	2	40761	Chain Tightener
13	1	40965	Middle Drive Chain
14	1	41708	Transport Lock Pin
15	1	42695	Gear Grease Cover
16	2	HN 1 JAM	Hex Nut - 1-12 Zinc Plated Hex Jam Nut
17	2	INS150125150B	Insert Bushing (Bronze) 1.50 OD x 1.25 ID x 1.50 Long
18	1	LA-11-1009	Cup 13620
19	1	LA-11-1010	Cone 13686
20	1	LA-11-1011	Seal CR20952
21	1	LA-11-1124	Seal CR27361 for HUB8000
22	1	LA-11-1125	Inner Cone JLM506849
23	1	LA-11-1126	Inner Cup JLM506810
24	1	RP 1/4 x 2 1/2	Pin - Roll Pin 1/4 x 2 1/2
25	4	BEA 49939	BEA PF207 & BEA SA207-22
26	1	BEA SA207-22-P5Z	Bearing, Insert 1.375"- BEA SB207-22 Plated Flange Bearing
27	2	BEA PF207	Flange (3 Hole) - PF207
28	1	41881	5# 1 3/8 -19 spline both ends,30 to 36"
29	1	38613	Plastic Plug
30	12	CB 5/16-18 X0.75 Z5	Carriage Bolt - 5/16-18 x 3/4" Grade 5 Zinc
31	1	CHAIN 50 ROLLER	5' #50 Chain + Sprocket
32	9	FW 1/4	Flatwasher - 1/4" Zinc Plated USS
33	12	FW 3/8	Flatwasher - 3/8" Zinc Plated USS
34	5	FW 5/16	Flatwasher - 5/16" Zinc Plated USS
35	3	GR 1/4 X 28	Grease Fitting 1/4-28 Strght-Standrd Zerk
36	4	HB 1/4-20X0.75 Z5	Hex Bolt 1/4-20x3/4 Grade 5 Zinc Plated Hex Cap Screw
37	8	HB 3/8-16X0.875 Z5	Hex Bolt 3/8-16x7/8 Grade 5 Zinc Plated Hex Cap Screw
38	6	HN3/8-16CZ5	Hex Nut 3/8"-16 Grade 5 Zinc Plated Finished
39	8	LN 1/4 N	LN 1/4-20 Zinc Plated Nylon Insert Lock Nut
40	8	LN 3/8 N	LN 3/8-16 Zinc Plated Nylon Insert Lock Nut
41	12	LN 5/16 N	LN 5/16-18 Zinc Plated Nylon Insert Lock Nut
42	1	SPR60B14-1	60B14 Sprocket w/1 Bore 1/4 Kw. 2 1/4 SS

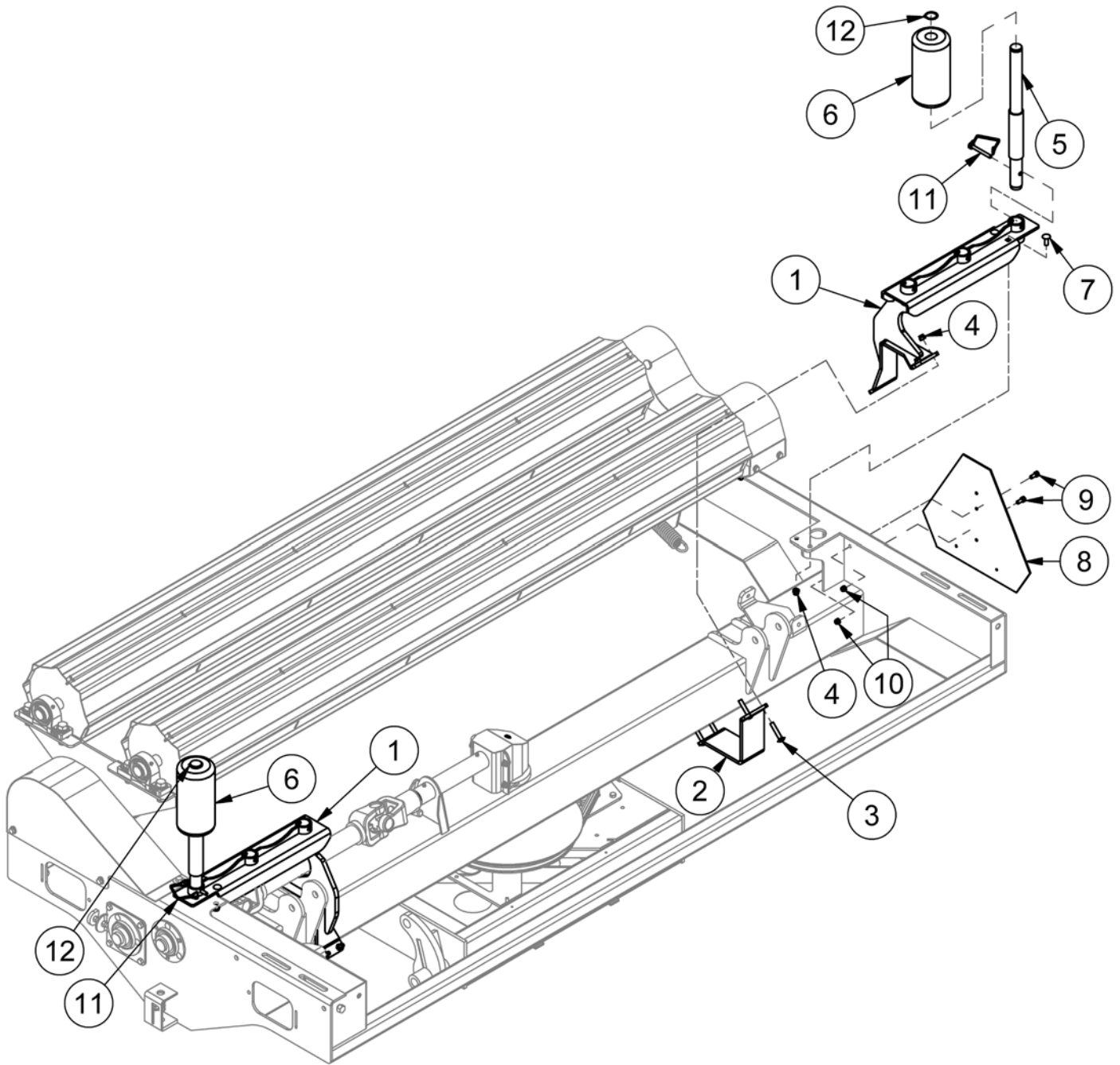
Rollers



Rollers

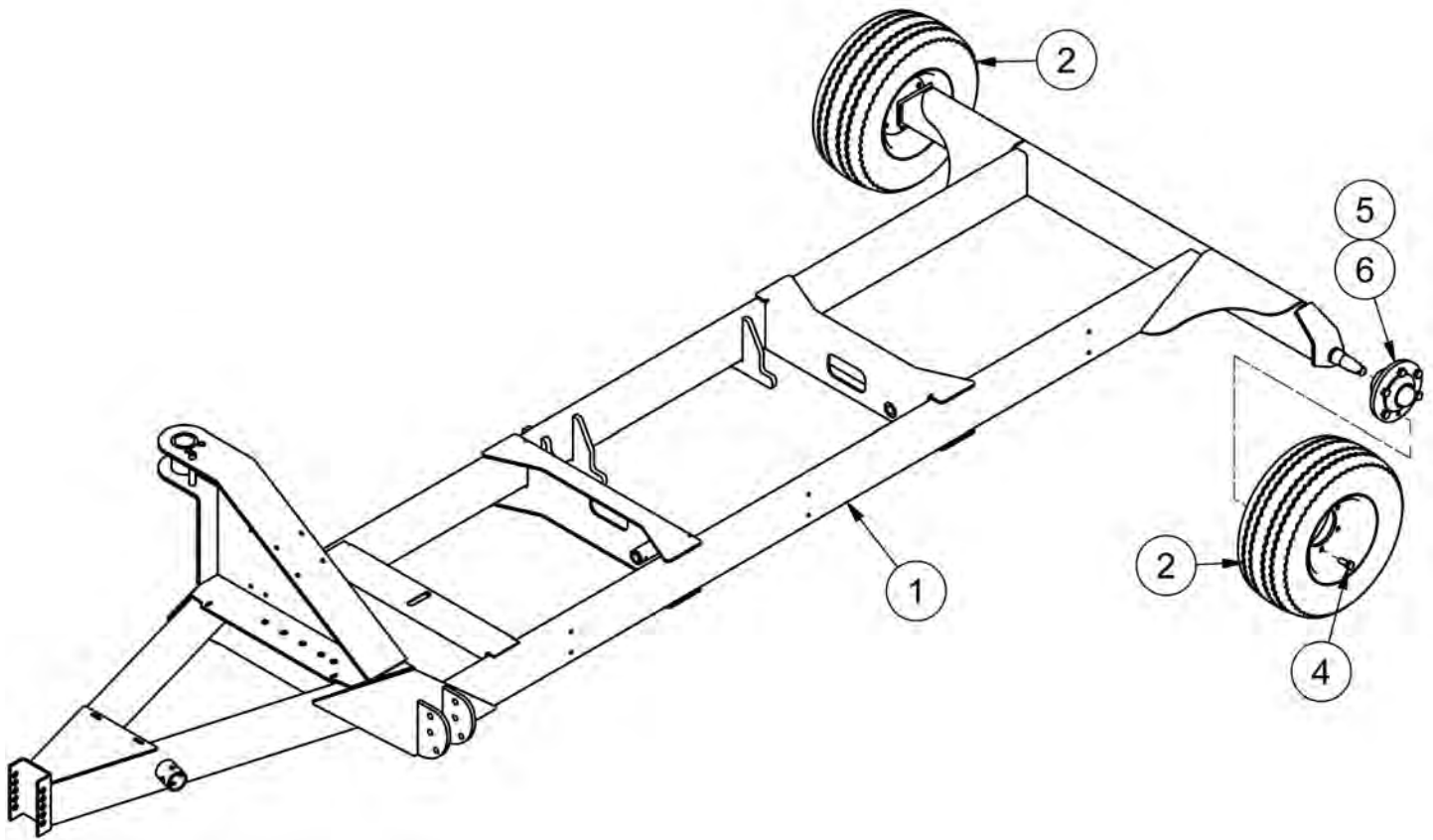
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	37001	Oscillating Frame
2	4	37010	Roller (Weldment)
3	8	BEA UCP207-20NTL	Bearing 1.25 Pillow Block Bearing (BS208137)
4	4	SPR50B201.25-.31	Sprocket - 50B20 1.25 Bore, .31 Key
5	1	37009	Chain Guard (Weldment)
6	1	37012	Turntable Frame (Weldment)
7	4	37015	Bearing Tensioner
8	2	37016	Twin Roller Shield (Weldment)
9	1	37019	Chain Guard Weldment
10	2	37026	Twin Roller Pivot Shaft
11	1	37031	Sprocket Spacer
12	3	37041	Sprocket Spacer
13	4	39888	#50 Roller Chain - 26 Links
14	1	40731	Oscillating Frame
15	2	40964	#50 Roller Chain - 41.5 Links
16	2	43109	1-1/2" Double Split Shaft Collar
17	4	BEA UCP208-24R3	Bearing -Triple Seal- Ductile Iron
18	2	EB 3/8-16X6.0	Eye Bolt - 3/8-16 x 6" Shank Zinc Plated Turned
19	2	FW 1/2	Flatwasher - 1/2" Zinc Plated USS
20	4	HB 1/2-13X10 Z5	Hex Bolt GR5 ZC
21	2	HB3/4-10X2.5Z5	Hex Bolt 3/4-10x2 1/2 Grade 5 Zinc Plated Hex Cap Screw
22	2	HN3/4-10CZ5	Hex Nut 3/4"-10 Grade 5 Zinc Plated Finished
23	2	HN3/8-16CZ5	Hex Nut 3/8"-16 Grade 5 Zinc Plated Finished
24	4	HNH1/2-13	Heavy Hex Nut - 1/2"-13 Grade 5 Zinc Plated Finished NC
25	16	HNP 5/16	Panel Nut - 5/16" U-Type Spring
26	4	INS162150100	Insert Bushing 1.62 OD x 1.50 ID x 1.00 Long
27	2	SPR50B351.5	Sprocket 50B35 1.50 Bore .38 Key
28	2	SPRDS50B20-1.5	Sprocket Double Single 50B20 1.50 Bore .38 Key
29	2	TL500-101-231	Tensioner Spring
30	16	FW 1/2	Flatwasher - 1/2" Zinc Plated USS
31	24	FW 5/8	Flatwasher - 5/8" Zinc Plated USS
32	16	HB5/8-11X2Z5	Hex Bolt 5/8-11x2 Grade 5 Zinc Plated Hex Cap Screw
33	2	HB7/16-14X1Z5	Hex Bolt 7/16-14x1 Grade 5 Zinc Plated Hex Cap Screw
34	6	HBC3/8X0.625	Hex Bolt Cerrated 3/8-16 x 5/8 Zinc Flange Bolt
35	12	HBC5/16X0.625	Hex Bolt Cerrated 5/16-18 x 5/8 Zinc Flange Bolt
36	24	LN5/8-11NCZ5	LN 5/8-11 Zinc Plated Nylon Insert Lock Nut

Guide Rollers



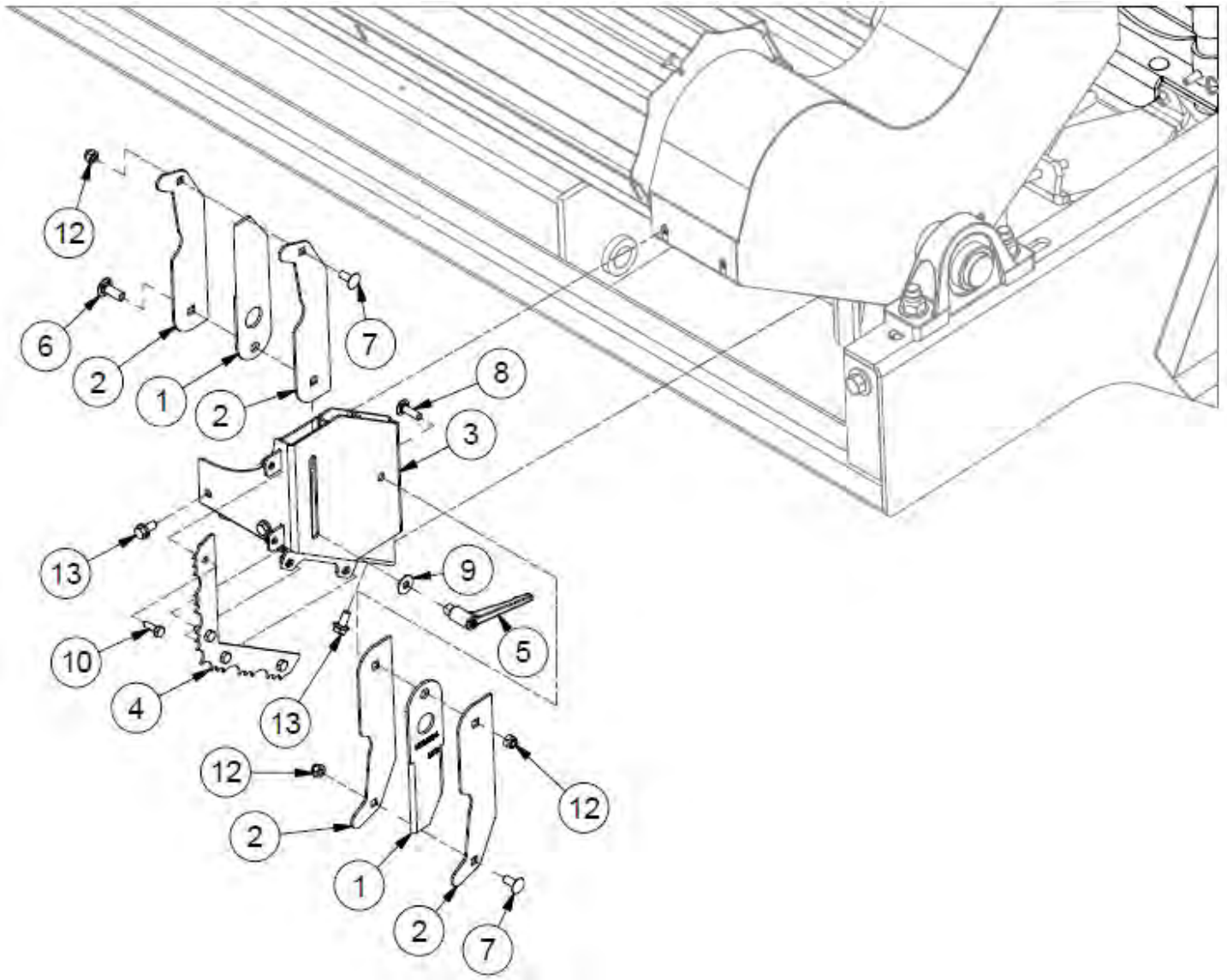
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	40756	Guide Roller Holder
2	2	41597	Guide Roller Half Bottom Bracket
3	8	CB 3/8-16 X2 Z5	Carriage Bolt - 3/8-16 x 2" Grade 5 Zinc
4	12	LN 3/8 N	LN 3/8-16 Zinc Plated Nylon Insert Lock Nut
5	2	40773	Guide Roller Shaft
6	2	41604	8" UHMW Guide Roller
7	4	CB 3/8-16 X1 Z5	Carriage Bolt - 3/8-16 x 1" Grade 5 Zinc
8	1	DESMV	Slow Moving Vehicle Sign (High Quality Reflective Strips)
9	2	HB 5/16-18X0.75 Z5	Hex Bolt 5/16-18x3/4 Grade 5 Zinc Plated Hex Cap Screw
10	2	LN 5/16 N	LN 5/16-18 Zinc Plated Nylon Insert Lock Nut
11	2	LP B1997	Pin - Lock Pin 5/16 x 2 1/2
12	2	RR 1.188	Retaining Ring-1 3/16- External

Frame & Wheels



ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	40636	Trailer Frame
2	2	WHE 20.5X8-10F	Wheel & Rim Assembly
4	6	WB 9/16 X 1.3/4	Wheel Bolts 9/16 x 1 3/4
5	2	HUB 4000#	Hub 4000 lb
6	2	Hub 4000-CCS	Complete Bearing and Seals for Hub 4000

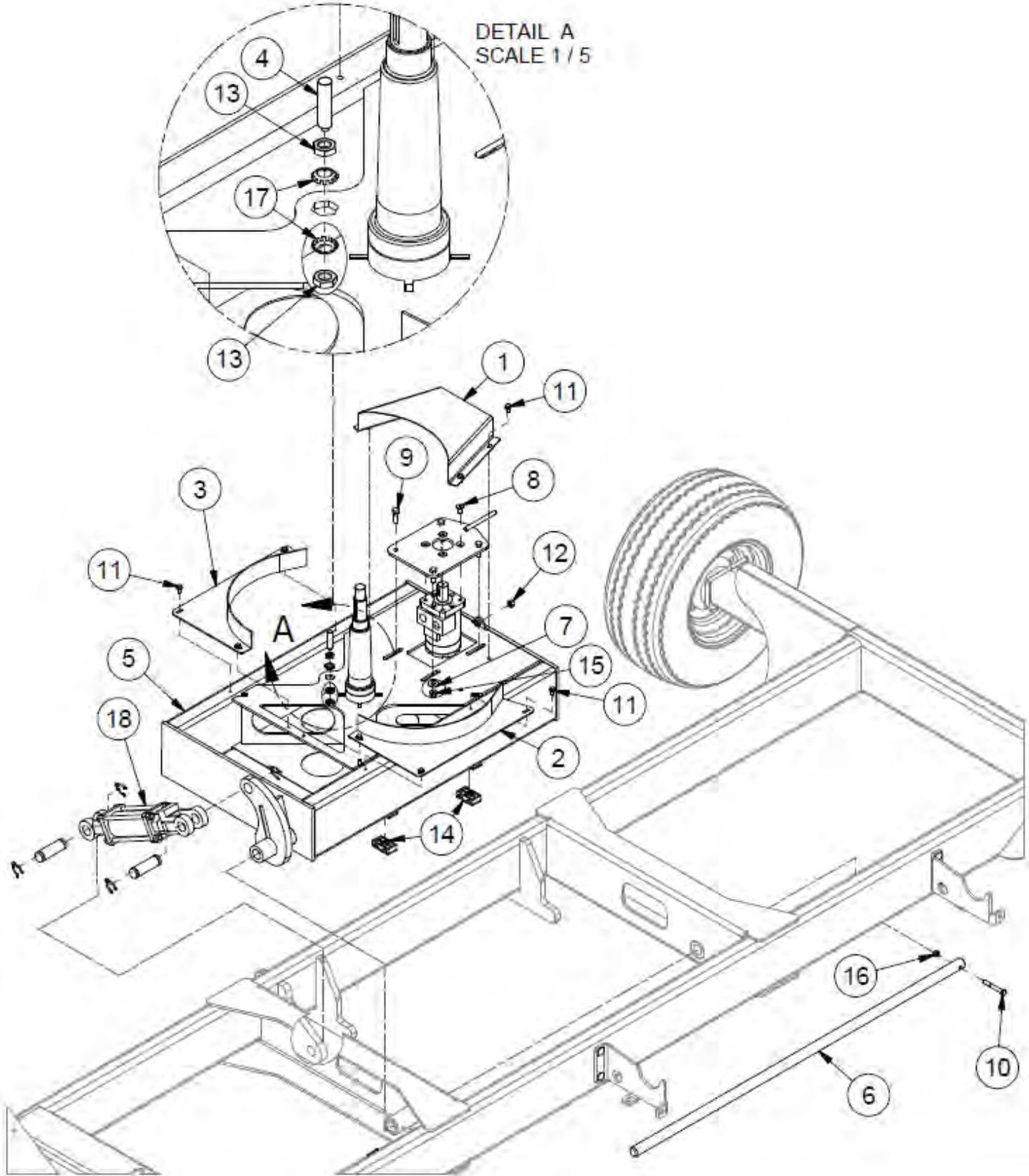
Plastic Cutter



Plastic Cutter

ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	40774	Modified Knife
2	4	40786	Knife Guard
3	1	40788	Knife Holder
4	1	40790	Serrated Knife
5	1	41889	Adjustable Handle
6	1	CB 3/8-16 X1 Z5	Carriage Bolt - 3/8-16 x 1" Grade 5 Zinc
7	2	CB 5/16-18 X0.75 Z5	Carriage Bolt - 5/16-18 x 3/4" Grade 5 Zinc
8	1	CB 5/16-18 X1 Z5	Carriage Bolt - 5/16-18 x 1" Grade 5 Zinc
9	1	FW 5/16	Flatwasher - 5/16" Zinc Plated USS
10	4	HB 1/4-20X0.75 Z5	Hex Bolt 1/4-20x3/4 Grade 5 Zinc Plated Hex Cap Screw
11	4	LN 1/4 N	LN 1/4-20 Zinc Plated Nylon Insert Lock Nut
12	3	LN 5/16 N	LN 5/16-18 Zinc Plated Nylon Insert Lock Nut
13	12	HBC5/16X0.625	Hex Bolt Cerrated 5/16-18 x 5/8 Zinc Flange Bolt

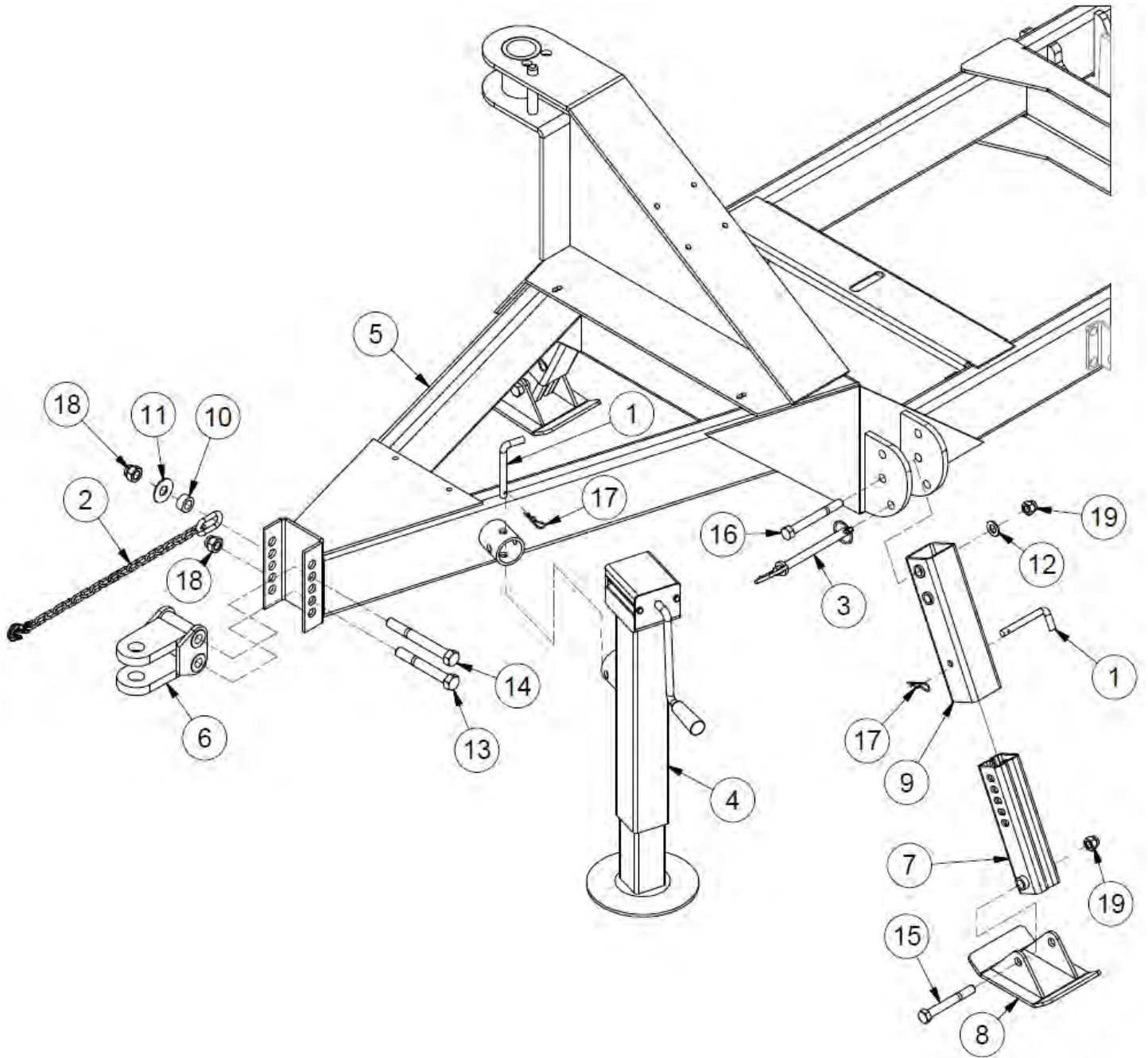
Dump Frame



Dump Frame

ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	1	35046	Turntable Drive Chain Cover	
2	1	35084	Left Sprocket Shield	
3	1	35084M	Right Sprocket Shield	
4	1	36253	Proximity Sensor	
5	1	40631	Turntable Tilt Frame	
6	1	40646	Turntable Tilt Frame Pin	
7	12	FW 3/8	Flatwasher - 3/8" Zinc Plated USS	
8	4	HB 3/8-16X0.75 FHSCS	Hex Bolt - 3/8"-16 x 3/4" Flat Socket Cap Screw	
9	4	HB 3/8-16X1.25 Z5	Hex Bolt 3/8-16x1 1/4 Gr.5 Zinc Plated Hex Cap Screw	
10	1	HB 5/16-18X2.5 Z5	Hex Bolt 5/16-18x2 1/2 Gr.5 Zinc Plated Hex Cap Screw	
11	10	HBC1/4X0.5	Hex Bolt Cerrated 1/4-20 x 1/2 Zinc Flange Bolt	
12	8	HN 3/8	Hex Nut 3/8"-16 Grade 5 Zinc Plated Finished	
13	2	HNMM12	Hex Nut M12-1.75	
14	8	LA-HOSE CLAMP	Twin Hose Clamp	
15	18	LN 3/8 N	LN 3/8-16 Zinc Plated Nylon Insert Lock Nut	
16	21	LN 5/16 N	LN 5/16-18 Zinc Plated Nylon Insert Lock Nut	
17	2	LW12MM	M12 Toothed Lock Washer	
18	1	41800	Hydraulic Cylinder - 2" Bore x 4" Stroke - 14" Closed	Incl. Pins & Clips

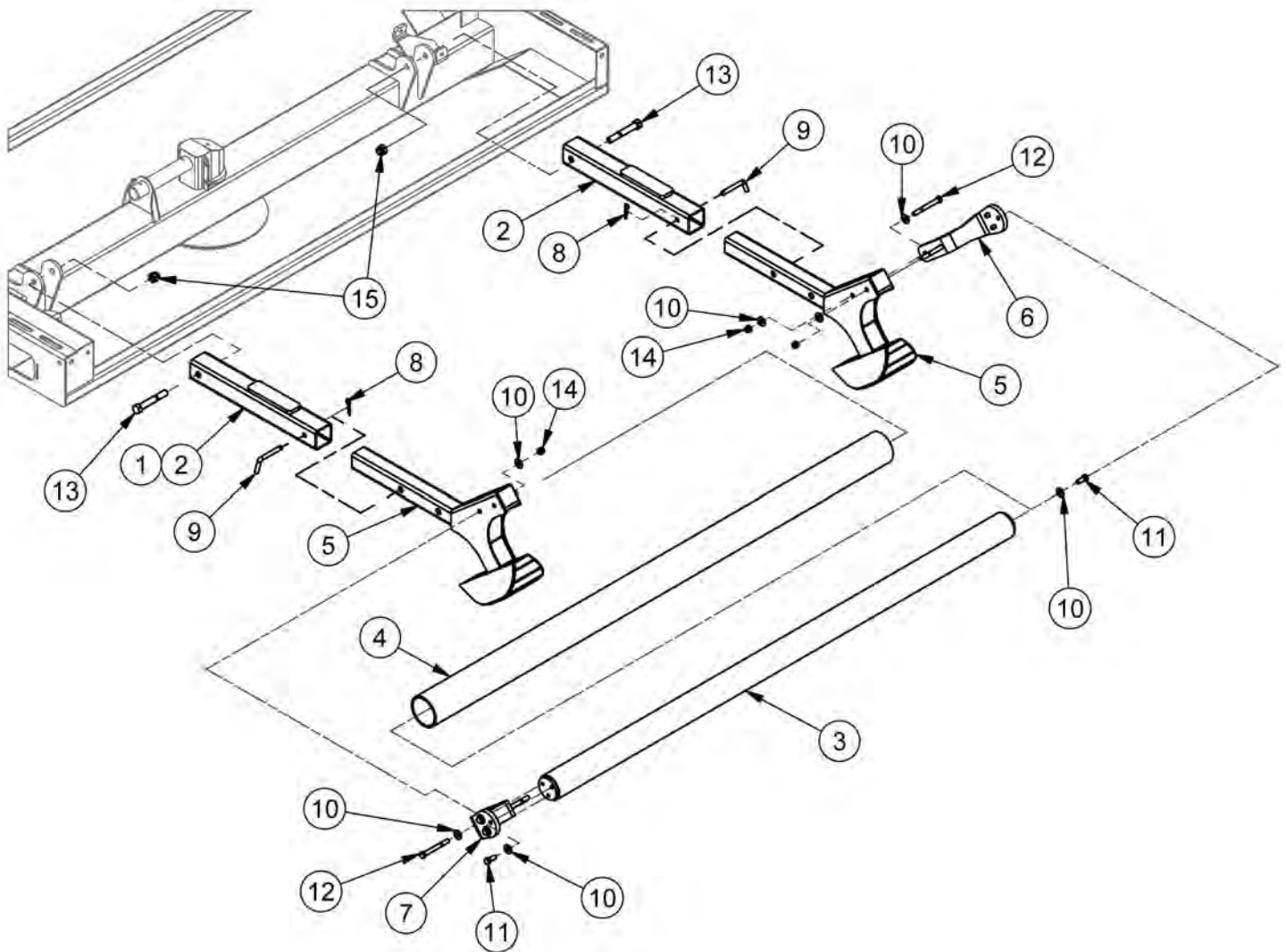
Trailer Feet & Hitch



Trailer Feet & hitch

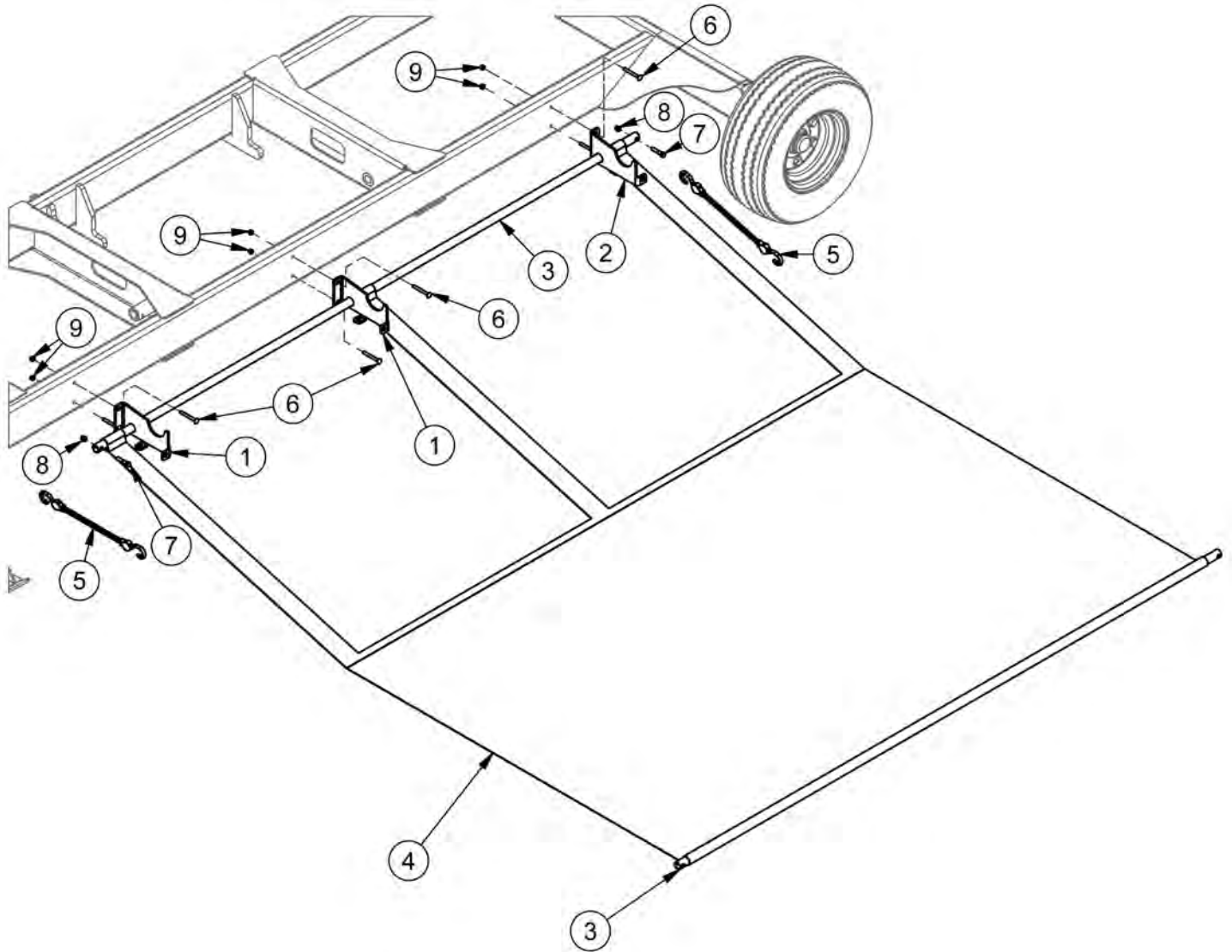
ITEM	QTY	PART NUMBER	DESCRIPTION
1	3	21021	1/2 x 4.5 Bent Pin
2	1	25261	Safety Chain 10000 # 59"
3	2	25522	Hitch Pin 5/8 x 6.5
4	1	25719	Jack, Heavy Duty
5	1	40636	Trailer Frame
6	1	40649	Hitch
7	2	41738	Bottem ADJ. Leg For SQ. Wrapper
8	2	41739	Foot For SQ Bale Wrapper
9	2	41741	Top Leg Tube
10	1	41937	Safety Chain Bushing
11	1	FW 3/4	Flatwasher - 3/4" Zinc Plated USS
12	4	FW 5/8	Flatwasher - 5/8" Zinc Plated USS
13	1	HB 3/4-10X5.5 Z5	Hex Bolt 3/4-10x5 1/2 Grade 5 Zinc Plated Hex Cap Screw
14	1	HB 3/4-10X6.5 Z5	Hex Bolt 3/4-10x6 1/2 Grade 5 Zinc Plated Hex Cap Screw
15	2	HB 5/8-11X5 Z5	Hex Bolt 5/8-11x5 Grade 5 Zinc Plated Hex Cap Screw
16	2	HB 5/8-11X5.5 Z5	Hex Bolt 5/8-11x5 1/2 Grade 5 Zinc Plated Hex Cap Screw
17	3	HP .125X1.5	Pin Hitch
18	2	LN 3/4 N	LN 3/4-10 Zinc Plated Nylon Insert Lock Nut
19	4	LN 5/8 N	LN 5/8-11 Zinc Plated Nylon Insert Lock Nut

Roll Off Bumper



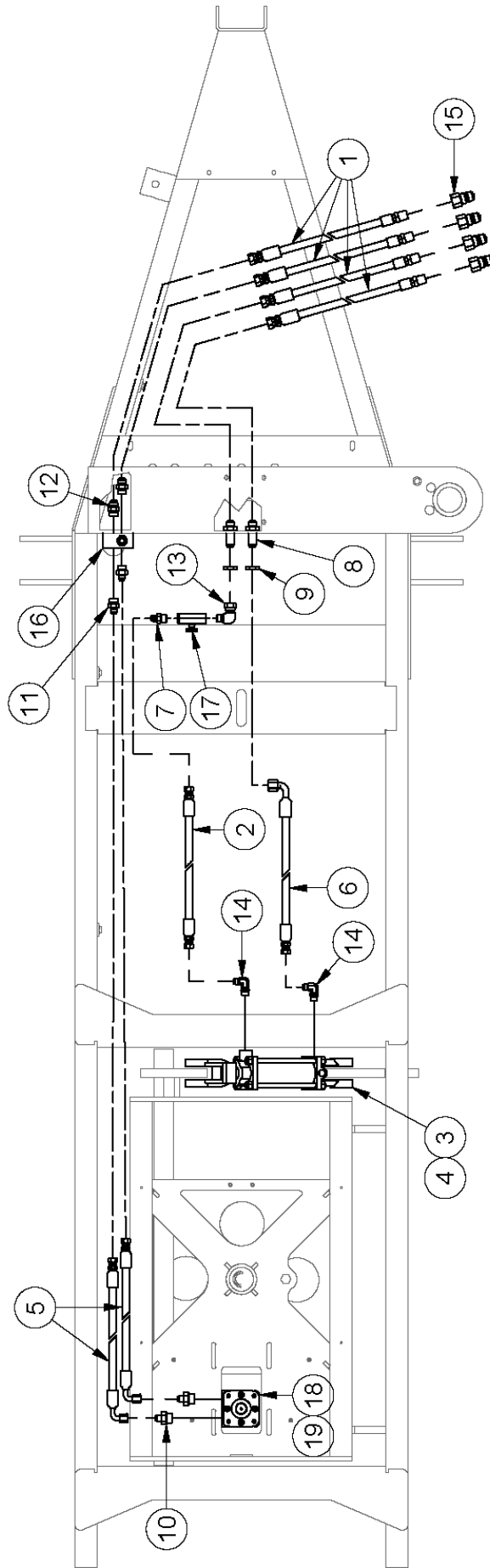
ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	1	39990	Tumbler Arm	Incl. All Items
2	2	39984	Tumbler Arm Asm	
3	1	39987	Inner Roller Mount	
4	1	39991	TL1000SQ Tumbler ABS Pipe	
5	2	40766	Tumbler Support Foot	
6	1	41557	Right Tumbler Bracket	
7	1	41558	Left Tumbler Bracket	
8	2	HP .125X1.5	Pin Hitch	
9	2	TL385001	1/2" X 3" Bend Pin	
10	10	FW 1/2	Flatwasher - 1/2" Zinc Plated USS	
11	6	HB1/2-13X1.25Z5	Hex Bolt 1/2-13x1 1/4 Gr.5 Zinc Plated Hex Cap Screw	
12	4	HB1/2-13X4.5Z5	Hex Bolt 1/2-13x4 1/2 Gr.5 Zinc Plated Hex Cap Screw	
13	2	HB3/4-10X5Z5	Hex Bolt 3/4-10x5 Gr.5 Zinc Plated Hex Cap Screw	
14	4	LN1/2-13NCZ5	LN 1/2-13 Zinc Plated Nylon Insert Lock Nut	
15	4	LN3/4-10NCZ5	LN 3/4-10 Zinc Plated Nylon Insert Lock Nut	

Roll Off Tarp



ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	41560	Tarp Holder Arm (Left)
2	1	41561	Tarp Holder Arm (Right)
3	2	41562	Tarp Holding Tube
4	1	41566	Square Bale Wrapper Tarp
5	2	41936	10" Rubber Bungee
6	6	CB5/16-18X2.75CZ5	Carriage Bolt - 5/16-18 x 2 3/4" Grade 5 Zinc
7	2	HB3/8-16X1.75Z5	Hex Bolt 3/8-16x1 3/4 Grade 5 Zinc Plated Hex Cap Screw
8	8	LN3/8-16NCZ5	LN 3/8-16 Zinc Plated Nylon Insert Lock Nut
9	6	LN5/16-18NCZ5	LN 5/16-18 Zinc Plated Nylon Insert Lock Nut

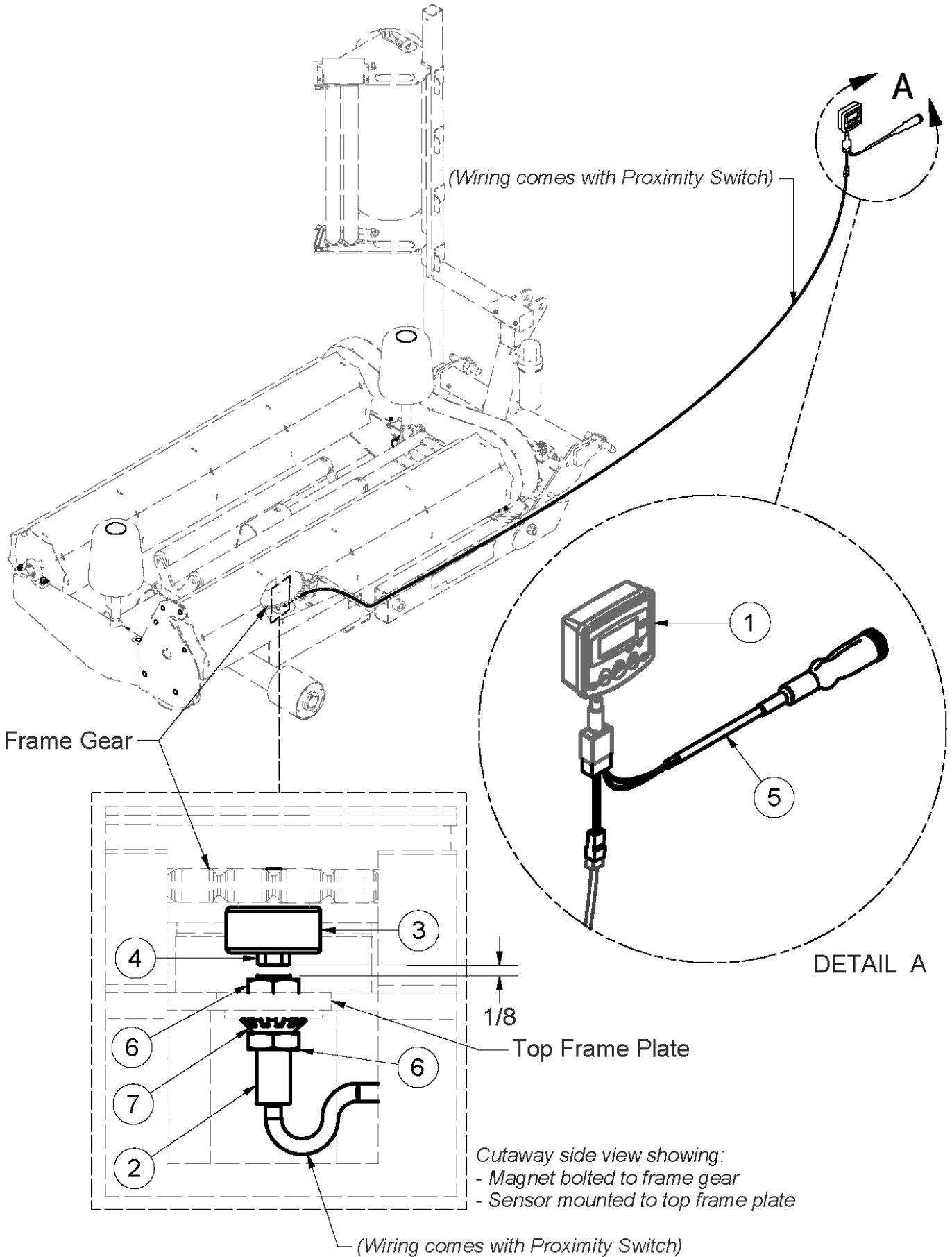
Hydraulic Schematic - Standard



Hydraulic Schematic - Standard

ITEM	QTY	PART NUMBER	DESCRIPTION
1	4	23136	HH96 - 6ATI(8FJXH,8MP) HCL 96"
2	1	35710	HH66 - 6AT1(6FJX,6FJX) HCL 66"
3	1	41800	Hydraulic Cylinder - 2" Bore x 4" Stroke - 14" Closed
4	1	SK AGU201125-10	Seal Kit - 2" Kinacor Cylinder
5	2	41850	HH89"- 6ATI(6FJX-6FJX90S)89"HCL
6	1	41852	HH78" - 6ATI(6FJX-8FJX90S) HCL 78"
7	1	HF 2404-6-6	Hyd. Fitting, 3/8 M-Pipe to 3/8 M-JIC
8	2	HF 2700LN-08-08	Hydraulic Fitting - MJIC to MJIC
9	2	HF 306-8	Hyd Fitting 1/2 Adjustable Locknut
10	2	HF 6400-6-10	Hydraulic Fitting - Male JIC - Male ORB
11	2	HF 6400-6-8	Hyd Fitting -Male JIC - Male ORB
12	2	HF 6400-8-8	Hydraulic Fitting - O-Ring to JIC Adapter
13	1	HF 6501-6-8	Hyd. Fitting 90° 3/8 MNPT to 8 FJXH
14	2	HF 6801-6-6	Hydraulic Fitting - 90 Degree JIC to O-Ring
15	4	HF 8010-4	Quickcoupler 1/2" Male Tip
16	1	LA-SB2000RV	Relief Valve
17	1	TL550-200-006	Steering Speed Control (Needle Valve)
18	1	TL5X2-200-050	Hydraulic Motor (M t S 2009 Models)
19	1	SKMLHPQUDE	Seal Kit for 200 & 400 Series Motors (for MLHPQ-U/D)

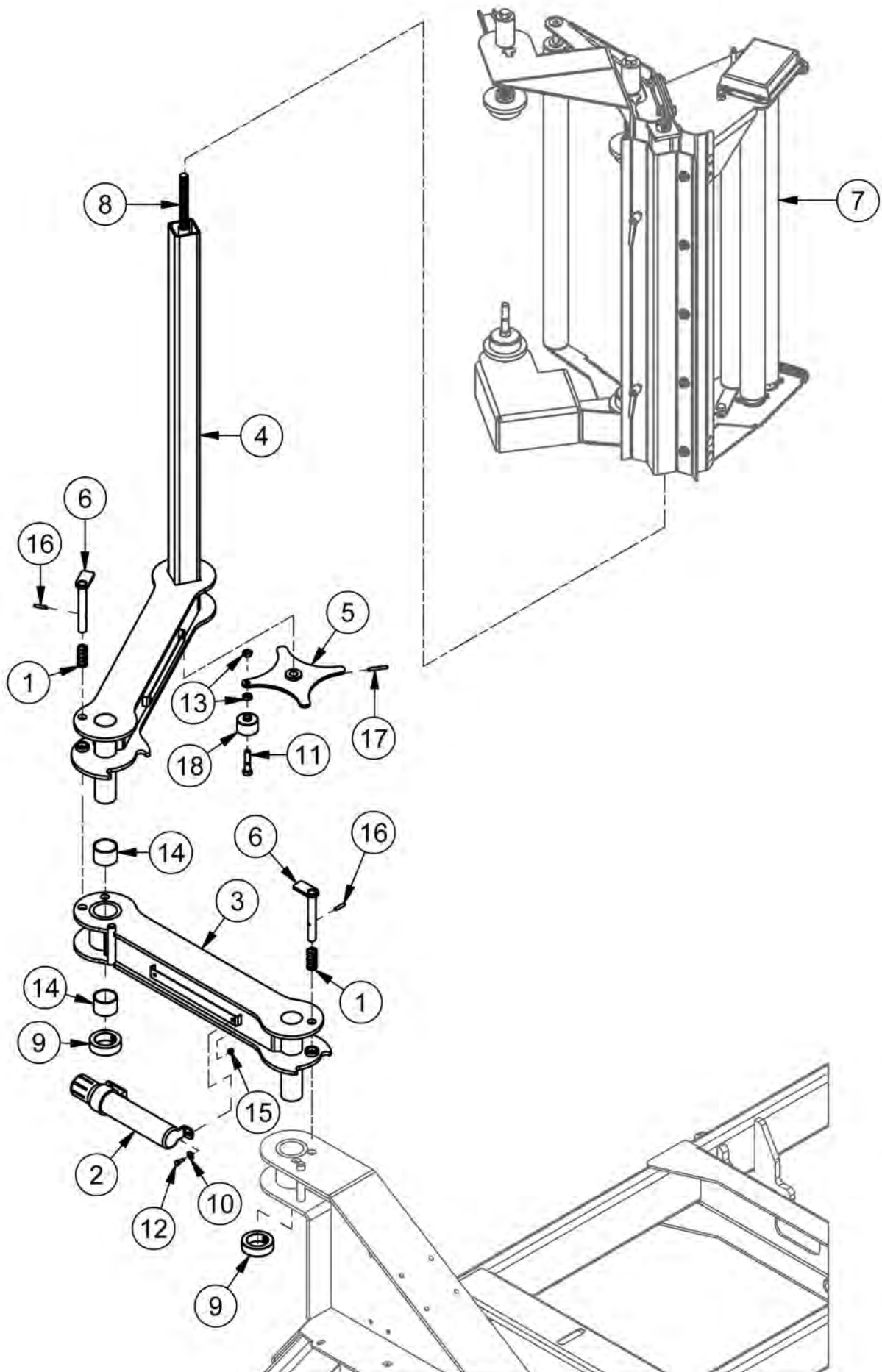
Electrical Diagram - Standard



Electrical Diagram - Standard

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	36252	Bale Wrap Computer
2	1	36253	Proximity Sensor
3	1	36254	Magnet
4	1	36255	M6 x 1 x 30 Metric Hex Bolt
5	1	36970	Power Supply Wiring Harness
6	2	HNMM12	HJN M12 x 1.75 Hex Jam Nut
7	1	LW 12MM	M12 Toothed Lock Washer

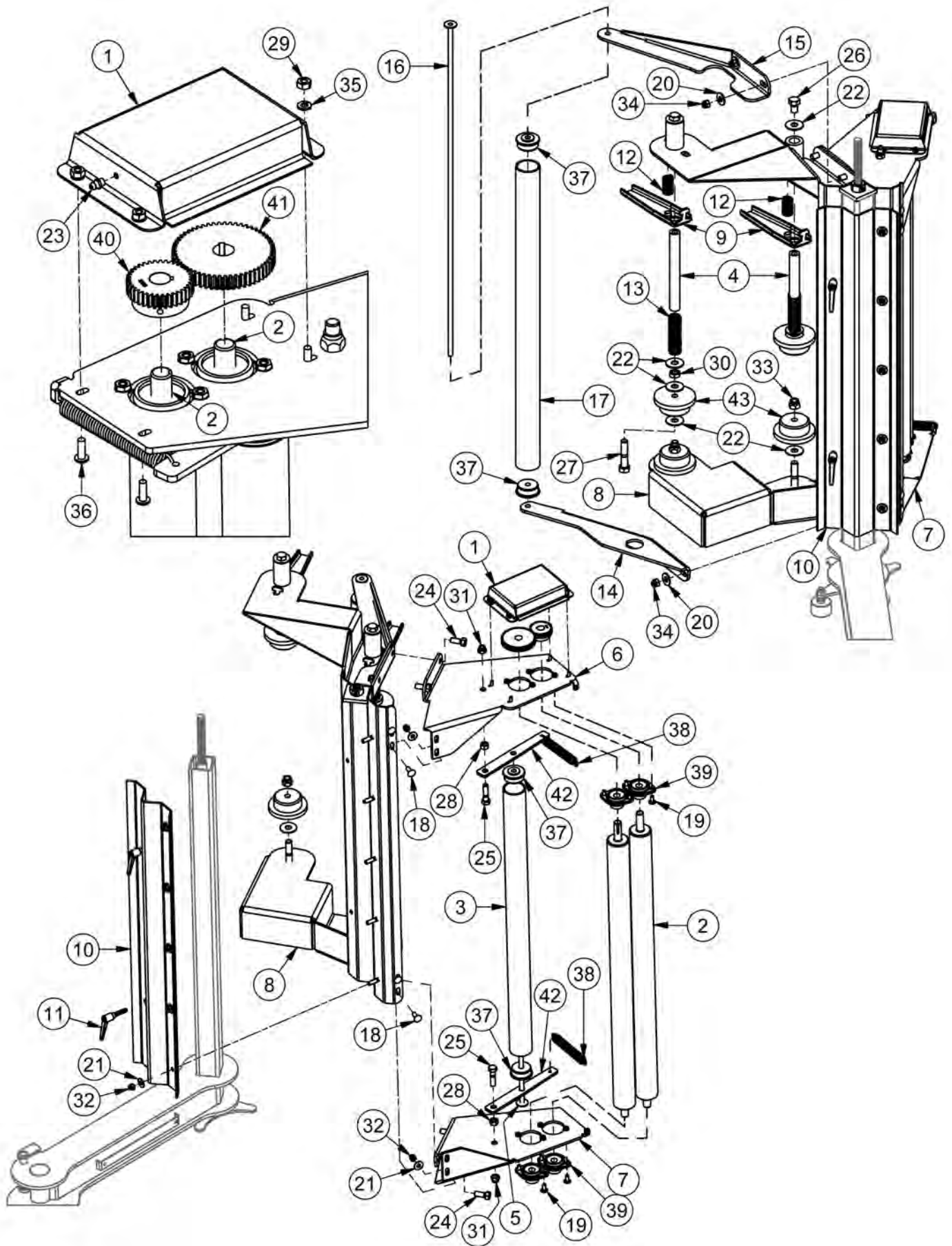
Film Tensioner Arms



Film Tensioner Arms

ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	2	27566	Spring Compression .97 OD x 2.0 Long	
2	1	32854	Operators Manual Holder	
3	1	40725	Tensioner Mount First Arm	
4	1	40740	Tensioner Mount Second Arm	
5	1	41450	Tensioner Adjuster Wheel	
6	2	41455	Tensioner Mount Arm Pin	
7	1	41750	Complete Tensioner Assembly	See Pg.2-24
8	1	41898	Tensioner Adjustment Rod	
9	2	41955	Locking Collar	
10	2	FW 1/4	Flatwasher - 1/4" Zinc Plated USS	
11	1	HB1/2-13X2.25Z5	Hex Bolt 1/2-13x2 1/4 Grade 5 Zinc Plated Hex Cap Screw	
12	2	HB1/4-20X0.75Z5	Hex Bolt 1/4-20x3/4 Grade 5 Zinc Plated Hex Cap Screw	
13	2	HNJ1/2-13	Hex Nut - 1/2-13 Zinc Plated Hex Jam Nut	
14	2	INS225200150	Insert Bushing 2.25 OD x 2.00 ID x 1.5 Long	
15	2	LN1/4-20NCZ5	LN 1/4-20 Zinc Plated Nylon Insert Lock Nut	
16	2	RP 1/4 x 1 1/4	Pin - Roll Pin 1/4 x 1 1/4	
17	1	RP 1/4 x 1 7/8	Pin - Roll Pin 1/4 x 1 7/8	
18	1	TL559906	Wheel	

41750 - Film Tensioner



41750 - Film Tensioner

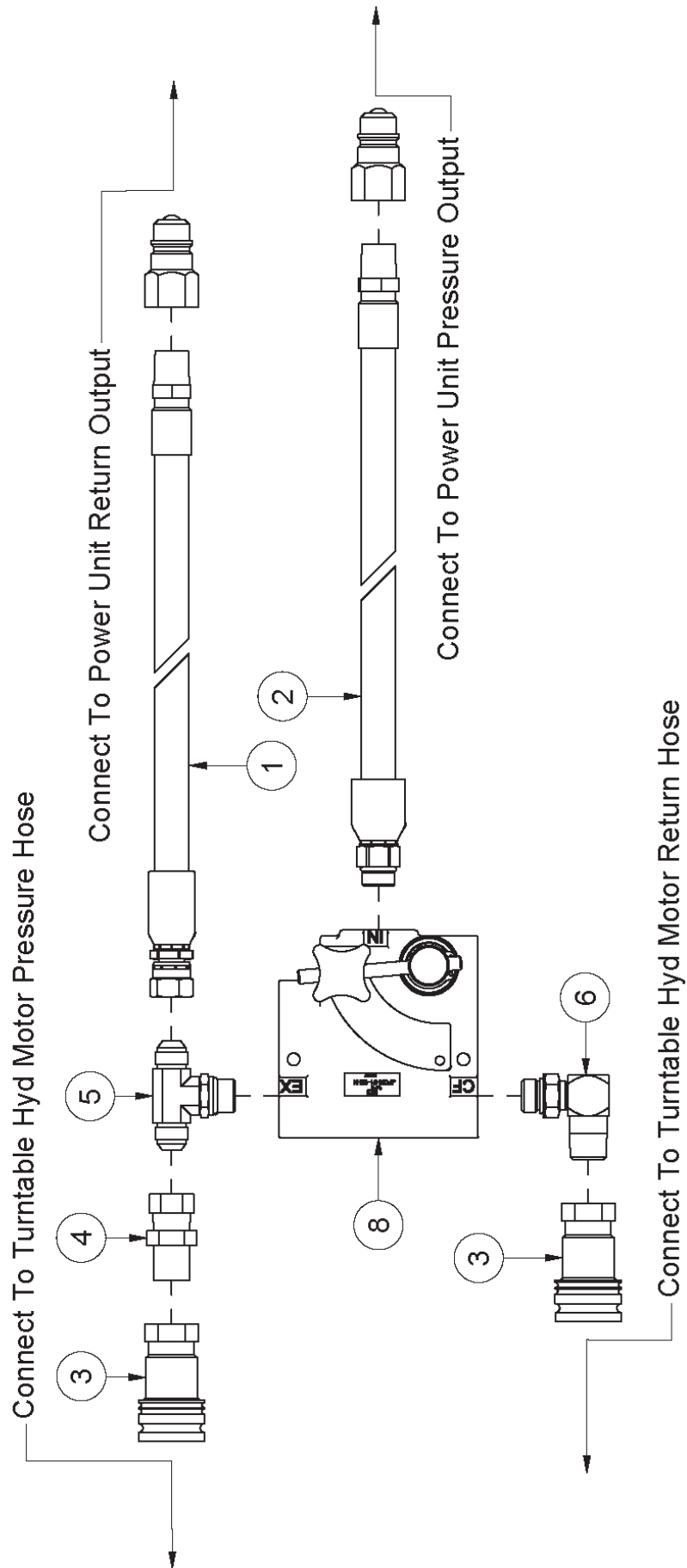
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	36682	Grease Box
2	2	39916	Extended Tensioner Roller
3	1	39917	Extended Plastic Roller
4	2	41584	Top Wrap Holder Pin
5	1	41624	Plastic Roller Pin
6	1	41751	Top of Tensioner Bracket
7	1	41753	Bottom of Tensioner Bracket
8	1	41758	Main Tensioner Weldment
9	2	41829	Rod Spool Clamp Holder
10	1	41843	Tensioner Back Plate
11	2	41844	TL1700SR ADJ. Handle
12	2	41882	Short Spring
13	2	41883	Long Spring
14	1	42017	Tensioner Bottom Bracket
15	1	42018	Tensioner Top Bracket
16	1	42020	Second Roller Pin
17	1	49311	Pipe, Aluminum 2.0 #40 (1.264)
18	4	CB3/8-16X1CZ5	Carriage Bolt - 3/8-16 x 1" Grade 5 Zinc
19	8	CB5/16-18X0.75CZ5	Carriage Bolt - 5/16-18 x 3/4" Grade 5 Zinc
20	4	FW 1/2	Flatwasher - 1/2" Zinc Plated USS
21	14	FW 3/8	Flatwasher - 3/8" Zinc Plated USS
22	10	FW 5/8	Flatwasher - 5/8" Zinc Plated USS
23	1	GR 1/4 X 28	Grease Fitting 1/4-28 Strght-Standard Zerk
24	4	HB1/2-13X1.25Z5	Hex Bolt 1/2-13x1 1/4 Grade 5 Zinc Plated Hex Cap Screw
25	2	HB1/2-13X2Z5	Hex Bolt 1/2-13x2 Grade 5 Zinc Plated Hex Cap Screw
26	2	HB5/8-11X1Z5	Hex Bolt 5/8-11x1 Grade 5 Zinc Plated Hex Cap Screw
27	2	HB5/8-11X3Z5	Hex Bolt 5/8-11x3 Grade 5 Zinc Plated Hex Cap Screw
28	2	HN1/2-13CZ5	Hex Nut 1/2"-13 Grade 5 Zinc Plated Finished
29	4	HN1/4-20CZ5	Hex Nut 1/4"-20 Grade 5 Zinc Plated Finished
30	2	HNJ5/8-11	Hex Nut - 5/8-11 Zinc Plated Hex Jam Nut
31	2	LN1/2-13NCZ5	LN 1/2-13 Zinc Plated Nylon Insert Lock Nut
32	9	LN3/8-16NCZ5	LN 3/8-16 Zinc Plated Nylon Insert Lock Nut
33	2	LN5/8-11NCZ5	LN 5/8-11 Zinc Plated Nylon Insert Lock Nut
34	4	LN7/16-14NCZ5	LN 7/16-14 Zinc Plated Nylon Insert Lock Nut
35	4	LW 1/4	LW - 1/4" Zinc Plated Medium Split
36	4	MS 1/4X20X0.75	Machine Screw - (Inch)
37	4	TL500-100-021	HMWPVC Bearing - Plastic End Cap
38	2	TL500-100-135	Spring - Tensioner
39	4	TL550-100-007	Flange Bearing, 3/4" (2 Flanges & Bearing)
40	1	TL550-100-008	Small Gear - 3/4 Bore, KW, SS, 14 1/2 deg, 2.25 P.D.
41	1	TL550-100-009	Large Gear - 3/4 Bore, KW, SS, 14 1/2 deg, 3.50 P.D.
42	2	TL550-100-016	Slave Roller Mount Bracket
43	4	TL550-200-012	Plastic Wrap Spool

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Section 3: TL1700SR-MFC (Manual Flow Control Option)

Actual parts may vary slightly from illustrations shown.

Manual Flow Control Hydraulic Layout



Manual Flow Control Hydraulics

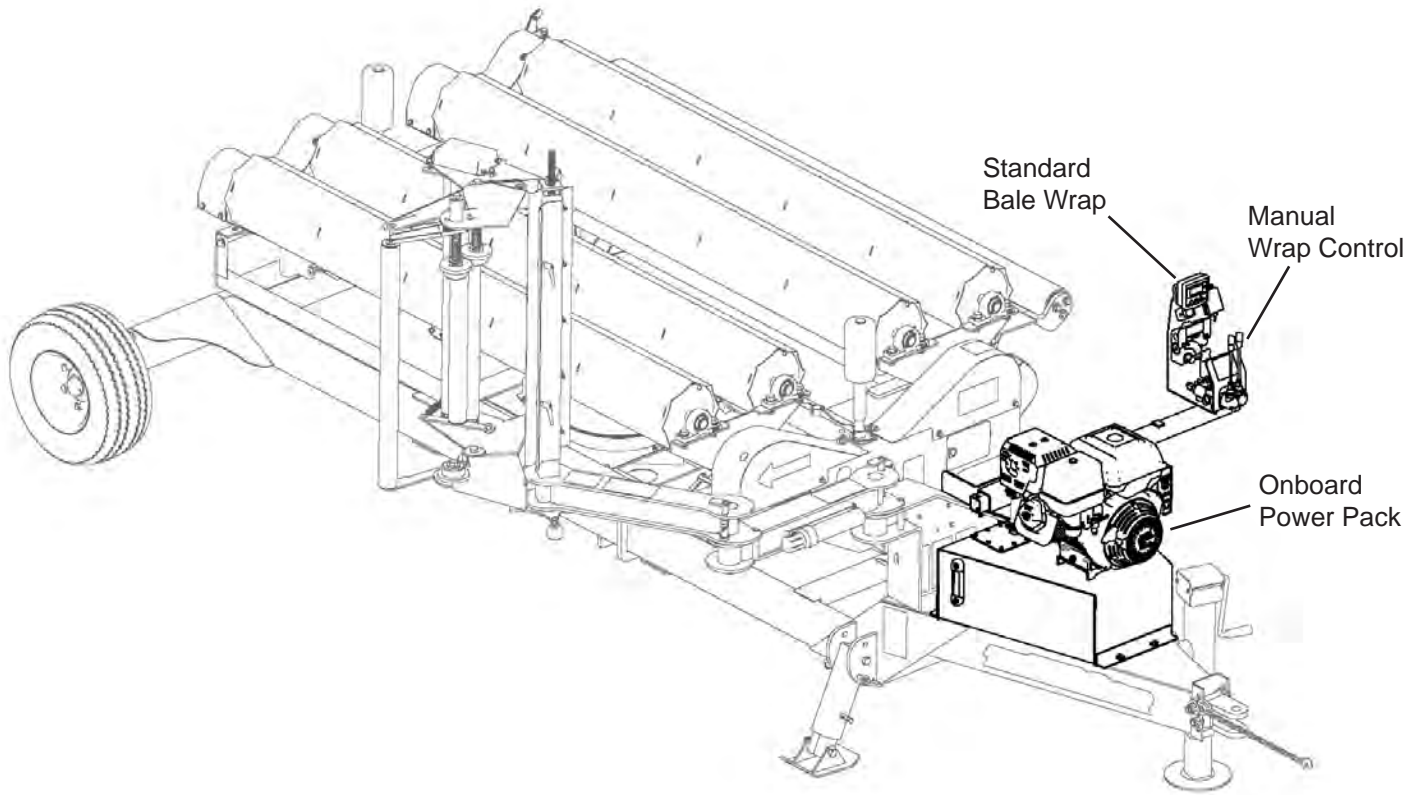
ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
	1	41963	TL1700SR Manual Flow Control Kit (Optional)	Inc. All Items
1	1	41964	Hose - HH14"- 8ATI(8FJX-8MP)14"HCL	
2	1	41965	Hose - HH12"- 8ATI(8MB-8MP)12"HCL	
3	2	HF 4050-04	Quickcoupler 1/2" Female	
4	1	HF 6505-8-8	Hyd. Fitting FJICX - 1/2 MP	
5	1	HF 6803-8-8-8	Hyd. Fitting Male JIC Male JIC Male ORB Tee	
6	1	HF 6806-8-8-NWO	Hyd Fitting 90° Elbow 1/2 M-ORB to 1/2 MP	
7	2	HF 8010-4	Quickcoupler 1/2" Male Tip	
8	1	VAL HYSFCR51-8SAE(0-8)	Flow Control Valve (0-16 gpm) with Relief	

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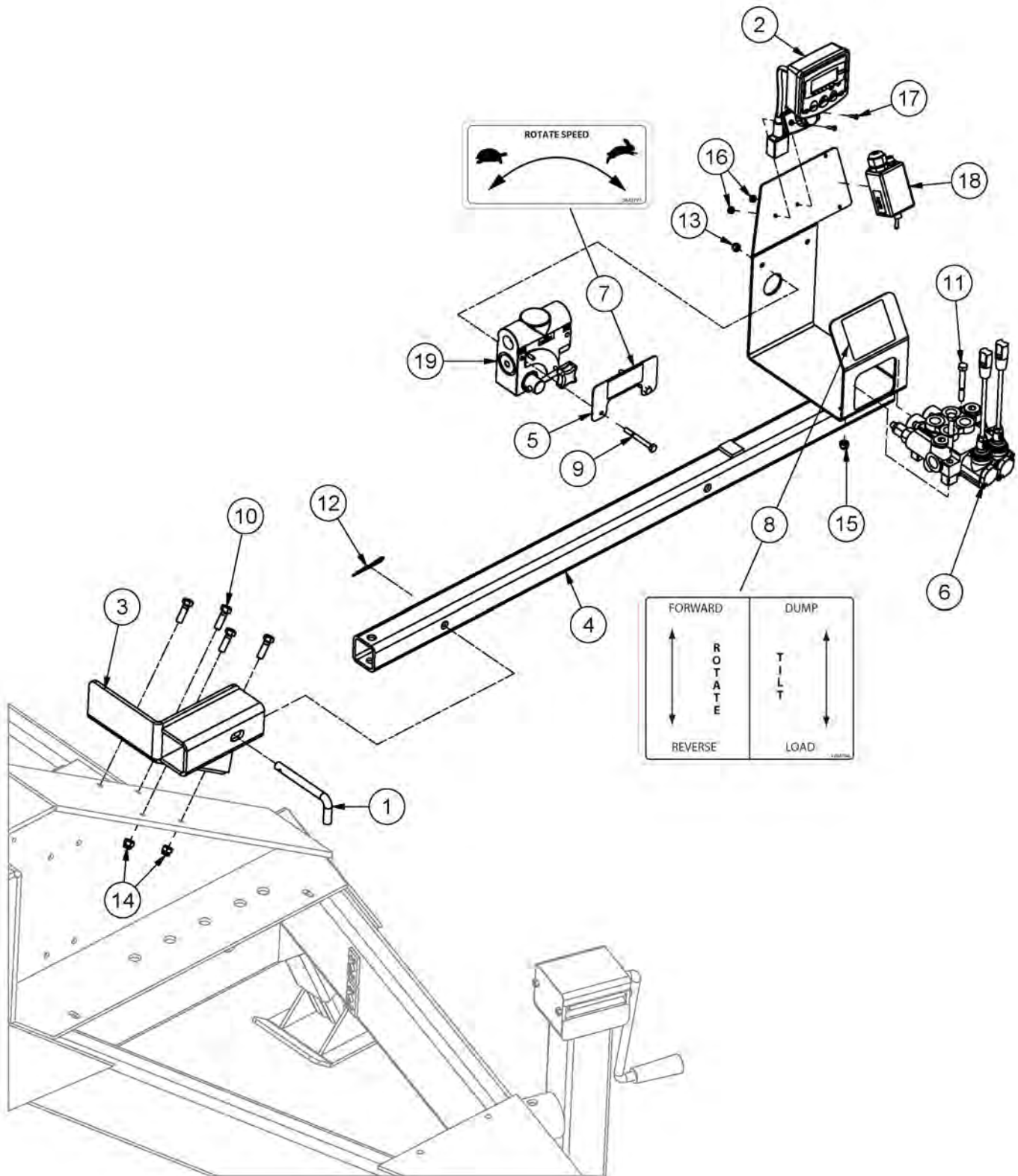
Section 4: TL1700SR-P (Manual Control w/ Power Pack Option)

NOTE: Additional parts for this model option are:

- Standard Bale Wrap ([Pg.2-2](#))
- Onboard Power Pack ([Pg.7-2](#))



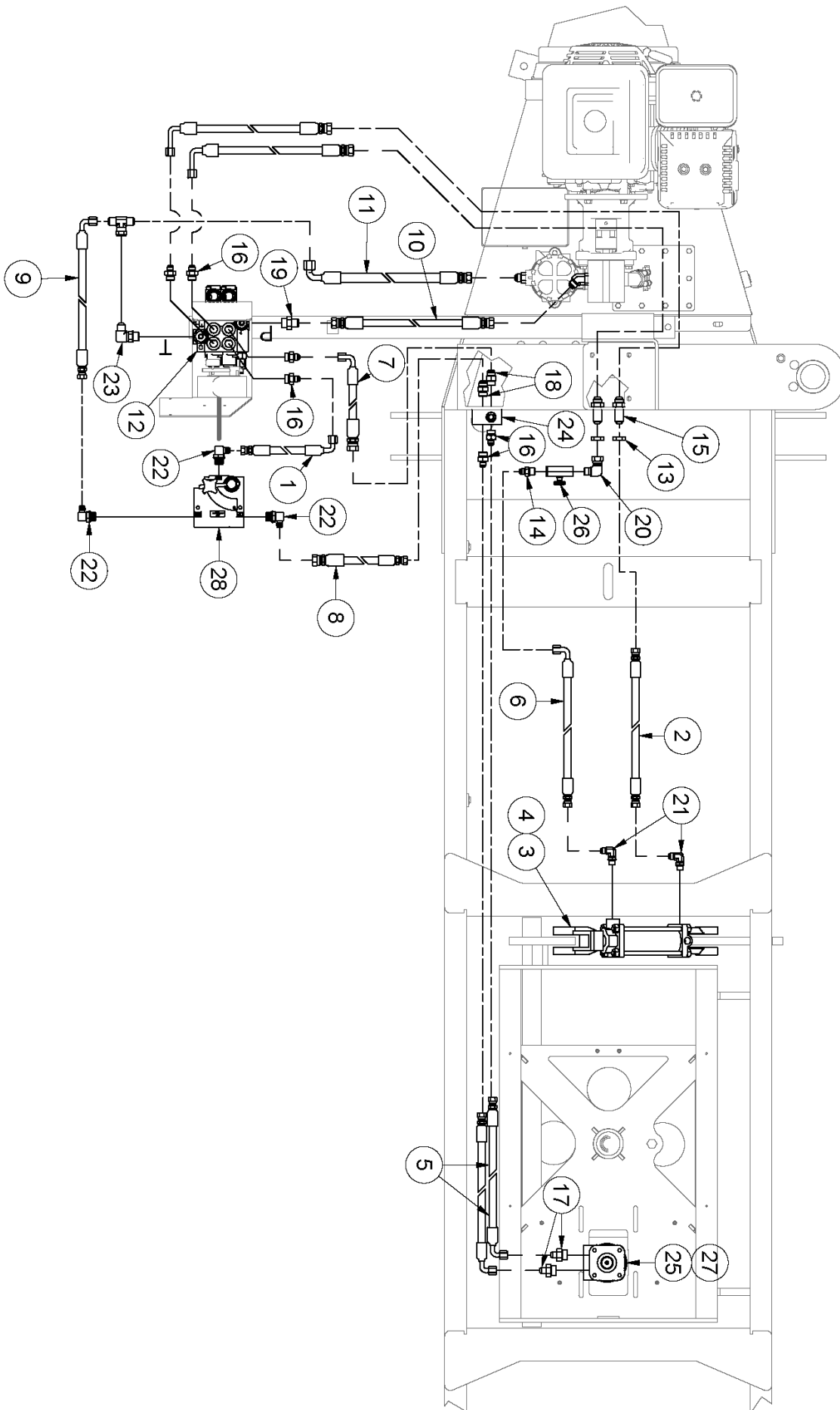
Manual Wrap Control



Manual Wrap Control

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	21021	Bent Pin 1/2 X 4.5
2	1	36252	DigiStar Display + Power Supply Harness
3	1	42287	Valve Bracket
4	1	42293	Valve Slider Arm
5	1	43134	Decal Plate
6	1	46351	2 Spool Directional Control Valve
7	1	DE42797	Turntable Rotate Speed
8	1	DE42798	Bale Dump Decal
9	2	HB 1/4-20X2.5 Z5	Hex Bolt 1/4-20x2 1/2 Grade 5 Zinc Plated Hex Cap Screw
10	4	HB 3/8-16X1.25 Z5	Hex Bolt 3/8-16x1 1/4 Grade 5 Zinc Plated Hex Cap Screw
11	2	HB 5/16-18X2.5 Z5	Hex Bolt 5/16-18x2 1/2 Grade 5 Zinc Plated Hex Cap Screw
12	1	HP .125X1.5	Pin Hitch - .125 X 1.5
13	2	LN 1/4 N	LN 1/4-20 Zinc Plated Nylon Insert Lock Nut
14	4	LN 3/8 N	LN 3/8-16 Zinc Plated Nylon Insert Lock Nut
15	2	LN 5/16 N	LN 5/16-18 Zinc Plated Nylon Insert Lock Nut
16	2	LN6-32KCZ	#6-32 Zinc Finish w Ext Tooth Lockwasher K-Lock Nut
17	2	MS #6X32X0.625	Machine Screw - (Inch)
18	1	TB960-100-152	Switch Box
19	1	VAL HYSFCR51-8SAE(0-8)	Flow Control Valve (0-16 gpm) with Relief

Manually Controlled Power Pack Hydraulic Layout



Manually Controlled Power Pack Hydraulic Layout

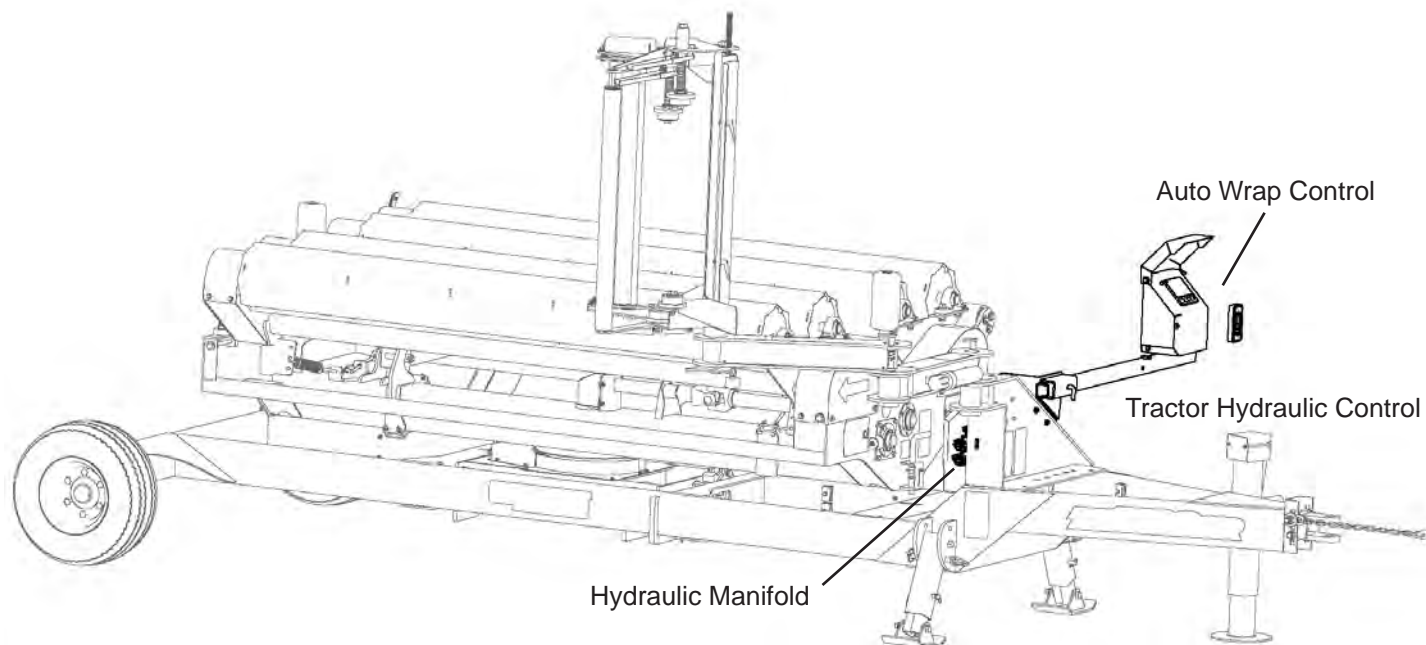
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	23919	Hose - HH14 - 6AT1(6FJ,6FJ90°) HCL 14"
2	1	35710	HH66 - 6AT1(6FJX,6FJX) HCL 66"
3	1	41800	Hydraulic Cylinder - 2" Bore x 4" Stroke - 14" Closed
4	1	SK AGU201125-10	Seal Kit - 2" Kinacor Cylinder
5	2	41850	HH89"- 6ATI(6FJX-6FJX90S)89"HCL
6	1	41852	HH70"- 6ATI(6FJX-8FJX90S)70"HCL
7	1	43121	Hose - HH41 - 6AT1(8FJX-6FJX90S) HCL 41"
8	1	43129	Hose - HH44 - 6AT1(8FJX-6FJX) HCL 44"
9	1	43145	Hose - HH10 - 6AT1(8FJX90S,6FJX) HCL 10"
10	1	43146	Hose - HH29 - 6AT1(8FJXH,8FJXH) HCL 29"
11	1	43147	Hose - HH34 - 8AT1(8FJXH,8FJXH90S) HCL 34"
12	1	46351	2 Spool Directional Control Valve
13	2	HF 306-8	Hyd Fitting 1/2 Adjustable Locknut
14	1	HF 2404-6-6	Hyd. Fitting, 3/8 M-Pipe to 3/8 M-JIC
15	2	HF 2700LN-08-08	Hydraulic Fitting - MJIC to MJIC
16	6	HF 6400-6-8	Hyd Fitting -Male JIC - Male ORB
17	2	HF 6400-6-10	Hydraulic Fitting - Male JIC - Male ORB
18	3	HF 6400-8-8	Hydraulic Fitting - O-Ring to JIC Adapter
19	1	HF 6400-8-10	Hyd Fitting - Male JIC - Male ORB
20	1	HF 6501-6-8	Hyd. Fitting 90° 3/8 MNPT to 8 FJXH
21	2	HF 6801-6-6	Hydraulic Fitting - 90 Degree JIC to O-Ring
22	3	HF 6801-6-8	Hyd Fitting - Male JIC - Male ORB 90°
23	1	HF 6801-8-10	Hyd. Fitting - 1/2" JIC - 5/8" 90° Elbow
24	1	LA-SB2000RV	Relief Valve
25	1	TL5X2-200-050	Hydraulic Motor (M t S 2009 Models)
26	1	TL550-200-006	Steering Speed Control (Needle Valve)
27	1	SKMLHPQUDE	Seal Kit for 200 & 400 Series Motors (for MLHPQ-U/D)
28	1	VAL HYSFCR51-8SAE(0-8)	Flow Control Valve (0-16 gpm) with Relief

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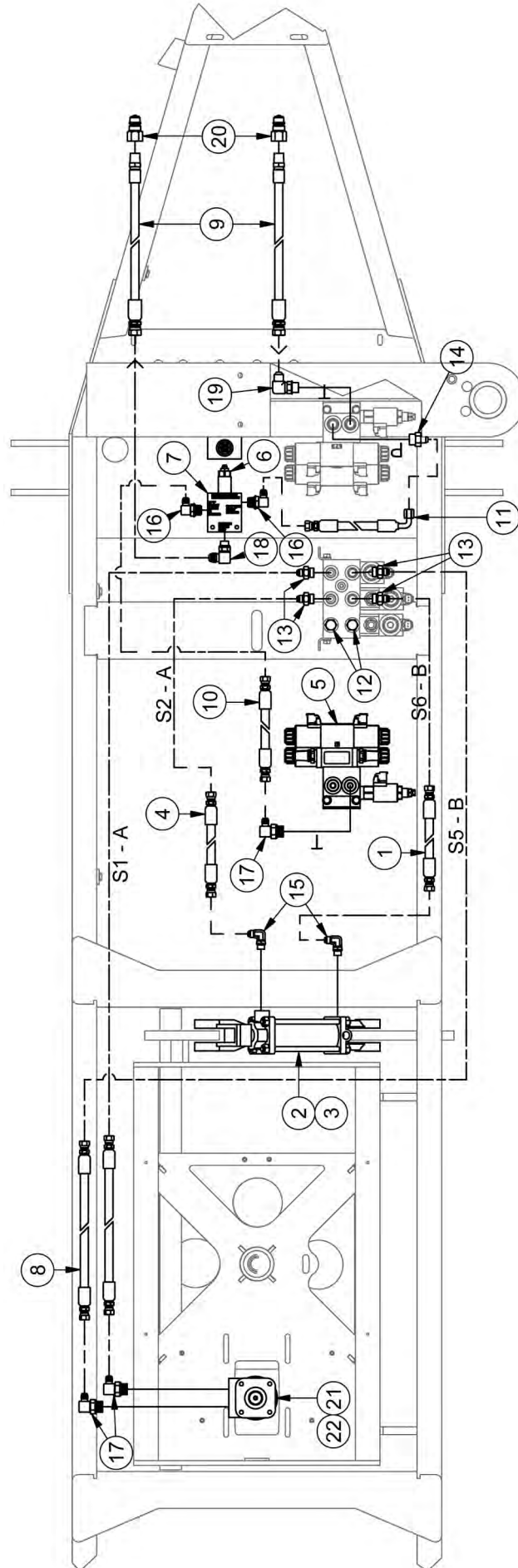
Section 5: TL1700SR-A (Auto Control w/o Power Pack Option)

NOTE: Additional parts for this model option are:

- Auto Wrap Control ([Pg.7-4](#))
- Hydraulic Manifold ([Pg.7-5](#))
- Auto Wrap Duetsch Harnesses ([Pg.7-6 to 7-13](#))



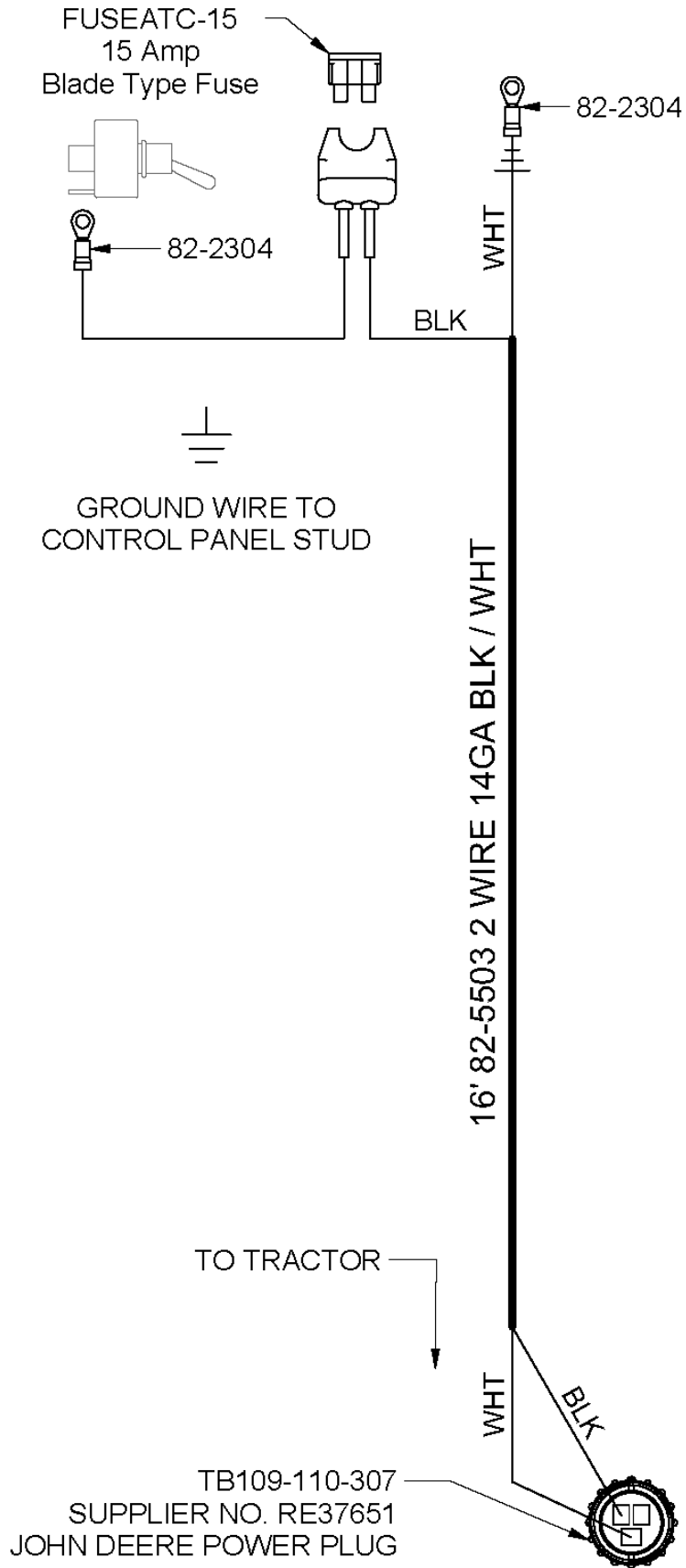
Tractor Powered Auto Wrap Hydraulic Layout



Tractor Powered Auto Wrap Hydraulic Layout

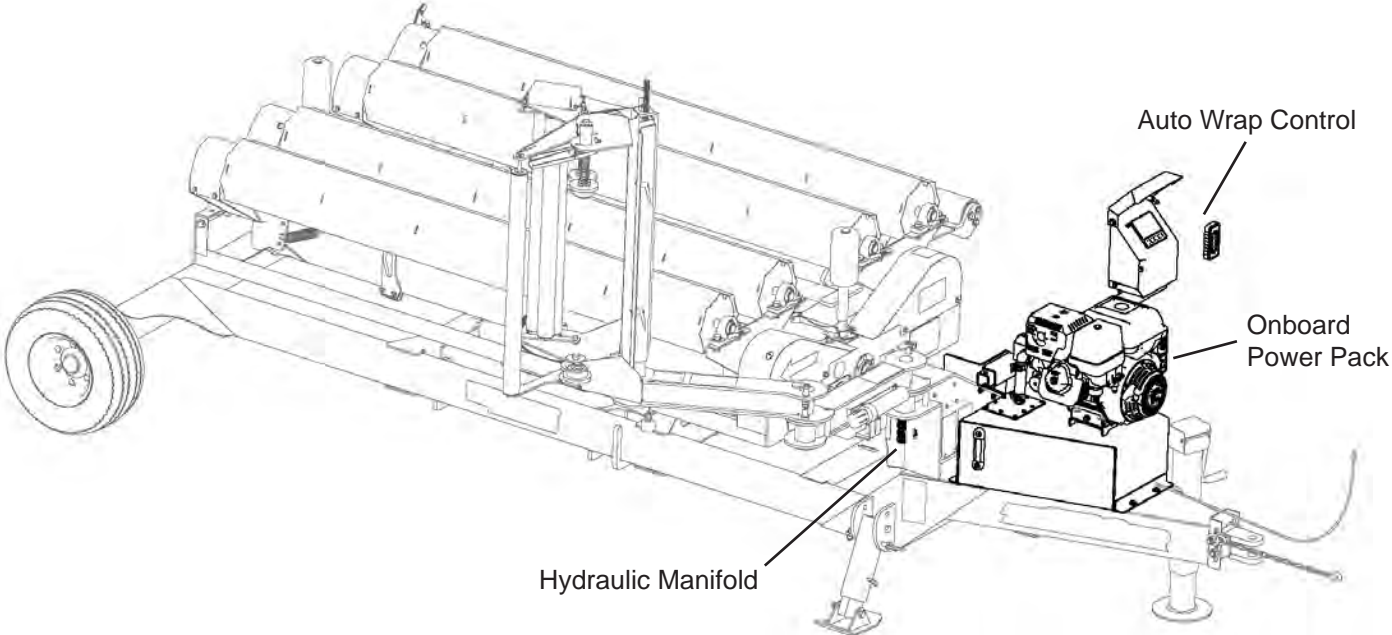
ITEM	QTY	PART NUMBER	DESCRIPTION
1	3	40705	Hose - HH86" 6AT1 (6FJXH-6FJXH) HCL 86"
2	1	41800	Hydraulic Cylinder 2" x 4"
3	1	SK AGU201125-10	Seal Kit - 2" Kinecor Cylinder
4	1	42236	Hose - HH80 - 6AT1(6FJX,6FJX) HCL 80"
5	1	46148	TL1700 Auto Manifold Assembly
6	1	46151	Pressure-Compensated Flow Control
7	1	46161	Valve Line Body
8	2	46215	Hose - HH104-6AT1(6FJX-6FJX) HCL 104"
9	2	46216	Hose - HH114"- 8ATI(8FJX-8MP)114"HCL
10	1	46217	Hose - HH17 - 6AT1(6FJX,6FJX)HCL 17"
11	1	46218	Hose - HH18 - 6AT1(6FJX90S,6FJX) HCL 18"
12	2	HF 2408-8	JIC #8 Plugs
13	4	HF 6400-6-8	Hyd Fitting -Male JIC - Male ORB
14	1	HF 6400-6-10	Hydraulic Fitting - Male JIC - Male ORB
15	2	HF 6801-6-6	Hydraulic Fitting - 90 Degree JIC to O-Ring
16	2	HF 6801-6-8	Hyd Fitting - Male JIC - Male ORB 90°
17	3	HF 6801-6-10	Hydraulic Fitting - 90° JIC to O-Ring
18	1	HF 6801-8-8	Hyd. Fitting- 1/2" JIC- 1/2" SAE 90 Deg Elbow
19	1	HF 6801-8-10	Hyd. Fitting - 1/2" JIC - 5/8" 90° Elbow
20	2	HF 8010-4	Quickcoupler 1/2" Male Tip
21	1	TL5X2-200-050	Hyd. Motor w/ Needle Brgs. (Hoop Motor)
22	1	SKMLHPQUDE	Seal Kit for 200 & 400 Series Motors (for MLHPQ-U/D)

Auto Wrap Electrical Layout - Tractor Hookup

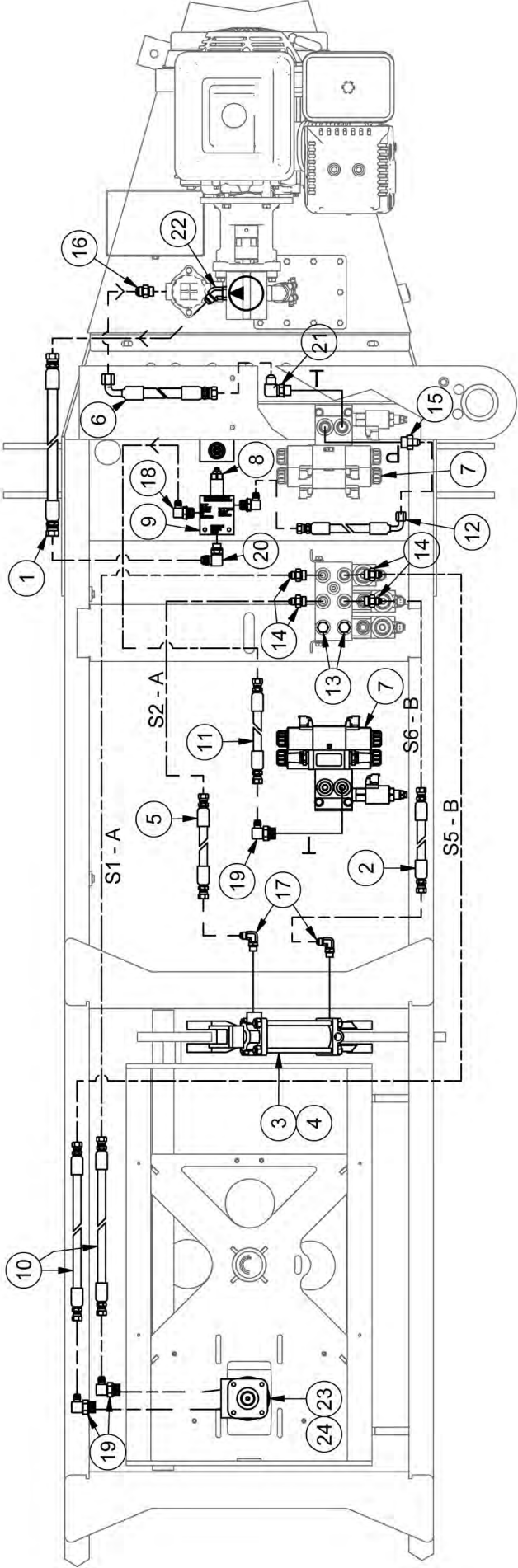


Section 6: TL1700SR-PA (Auto Control w/ Power Pack Option)

NOTE: All parts in [Section 7](#) complete this model option.



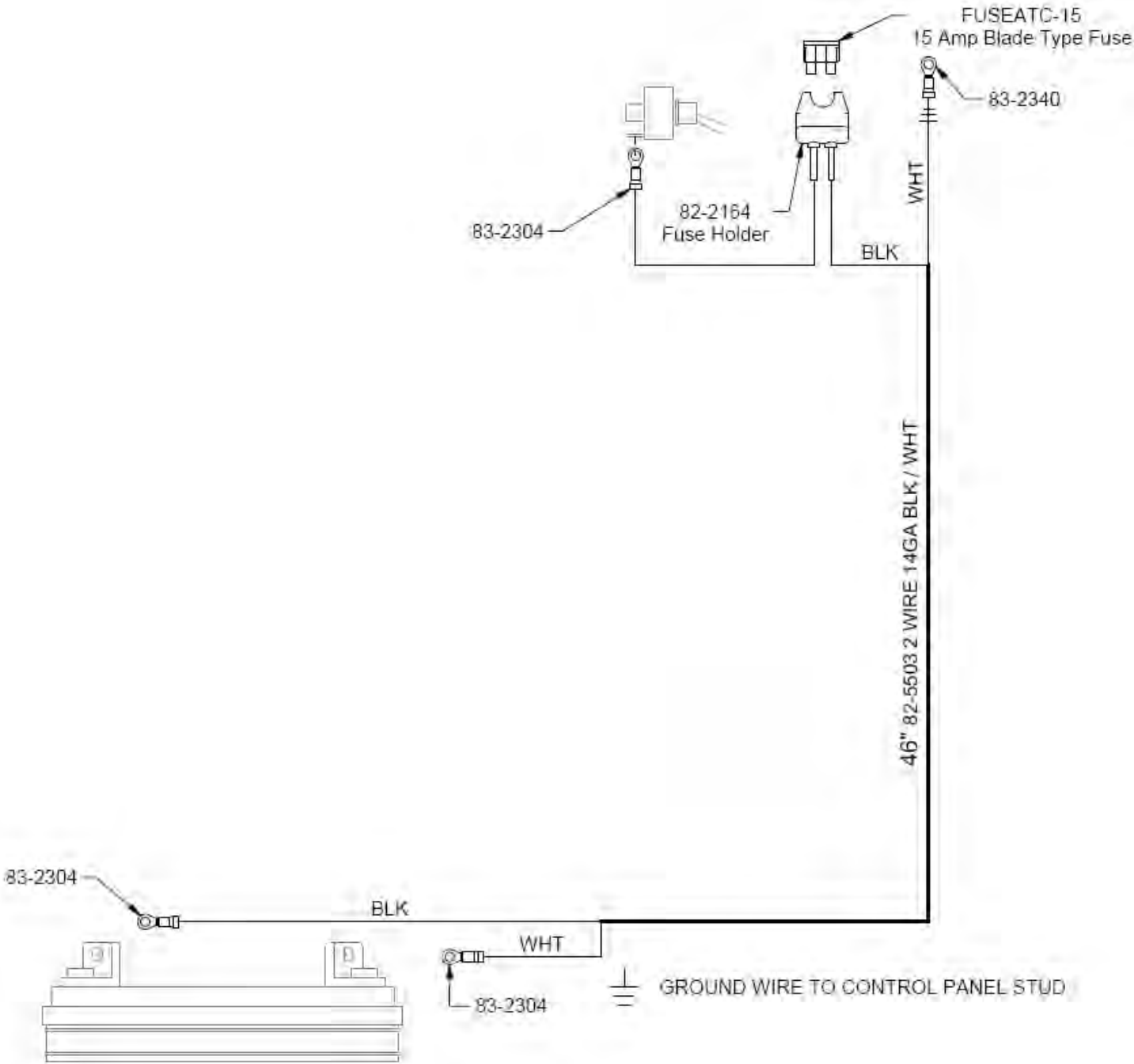
Auto Wrap Power Pack Hydraulic Layout



Auto Wrap Power Pack Hydraulic Layout

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	23789	Hose - HH34 - 8AT1(8FJXH,8FJXH) HCL 34"
2	1	40705	Hose - HH86" 6AT1 (6FJXH-6FJXH) HCL 86"
3	1	41800	Hydraulic Cylinder 2" x 4"
4	1	SK AGU201125-10	Seal Kit - 2" Kinecor Cylinder
5	1	42236	Hose - HH80 - 6AT1(6FJX,6FJX) HCL 80"
6	1	43147	Hose - HH34 - 8AT1(8FJXH,8FJXH90S) HCL 34"
7	1	46148	TL1700 Auto Manifold Assembly
8	2	46151	Pressure-Compensated Flow Control
9	2	46161	Valve Line Body
10	2	46215	Hose - HH104-6AT1(6FJX-6FJX) HCL 104"
11	1	46217	Hose - HH17 - 6AT1(6FJX,6FJX)HCL 17"
12	1	46218	Hose - HH18 - 6AT1(6FJX90S,6FJX) HCL 18"
13	2	HF 2408-8	JIC #8 Plugs
14	4	HF 6400-6-8	Hyd Fitting -Male JIC - Male ORB
15	1	HF 6400-6-10	Hydraulic Fitting - Male JIC - Male ORB
16	1	HF 6400-8-8	Hydraulic Fitting - O-Ring to JIC Adapter
17	2	HF 6801-6-6	Hydraulic Fitting - 90 Degree JIC to O-Ring
18	2	HF 6801-6-8	Hydraulic Fitting - Male JIC - Male ORB 90 Degree
19	3	HF 6801-6-10	Hydraulic Fitting - 90° JIC to O-Ring
20	1	HF 6801-8-8	Hyd. Fitting- 1/2" JIC- 1/2" SAE 90 Deg Elbow
21	1	HF 6801-8-10	Hyd. Fitting - 1/2" JIC - 5/8" 90° Elbow
22	1	HF 6802-8-10	Hyd. Fitting - 1/2" JIC X 5/8" SAE 45 Degree Elbow
23	1	TL5X2-200-050	Hyd. Motor w/ Needle Brgs. (Hoop Motor)
24	1	SKMLHPQUDE	Seal Kit for 200 & 400 Series Motors (for MLHPQ-U/D)

Automatic Wrap Electrical Layout - Battery Harness



Section 7: Dependant Options

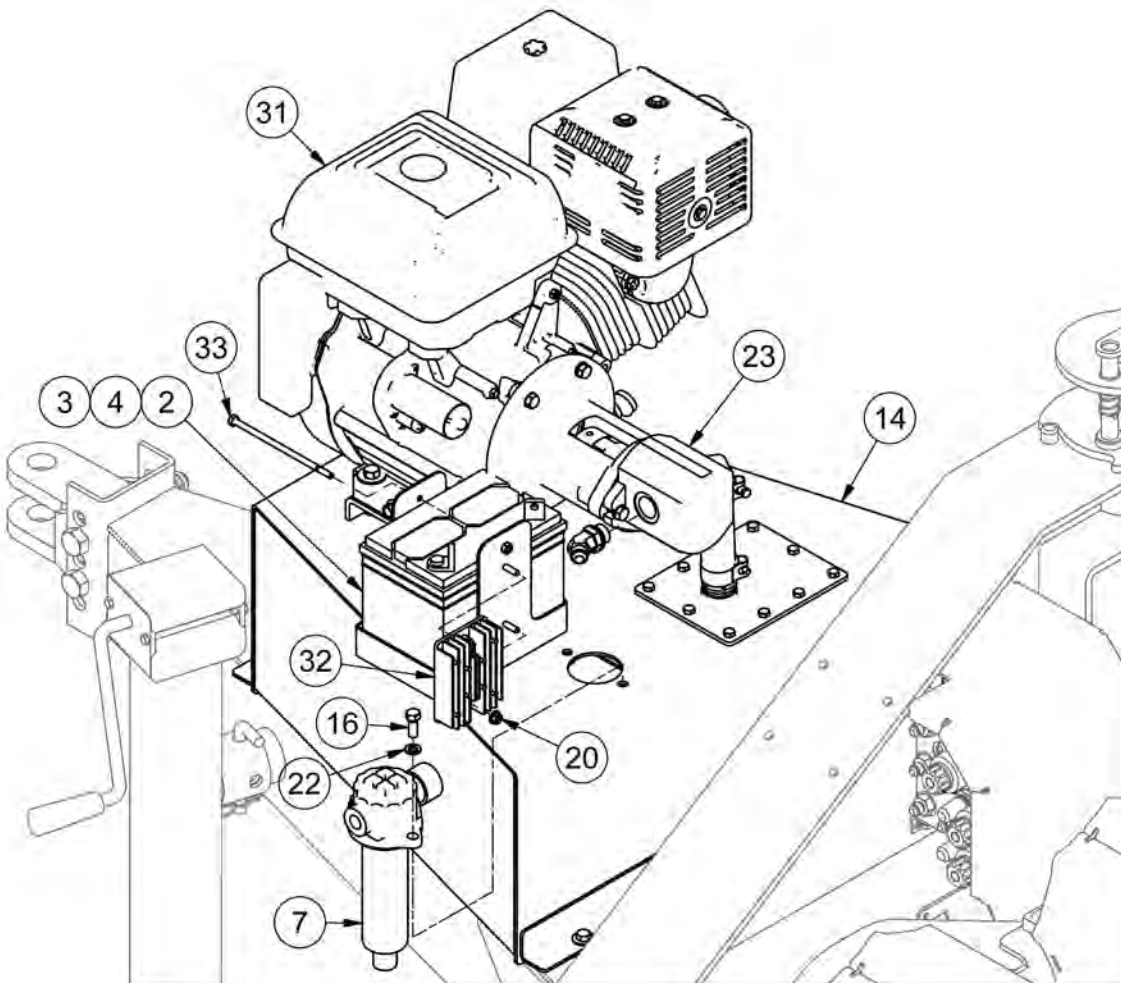
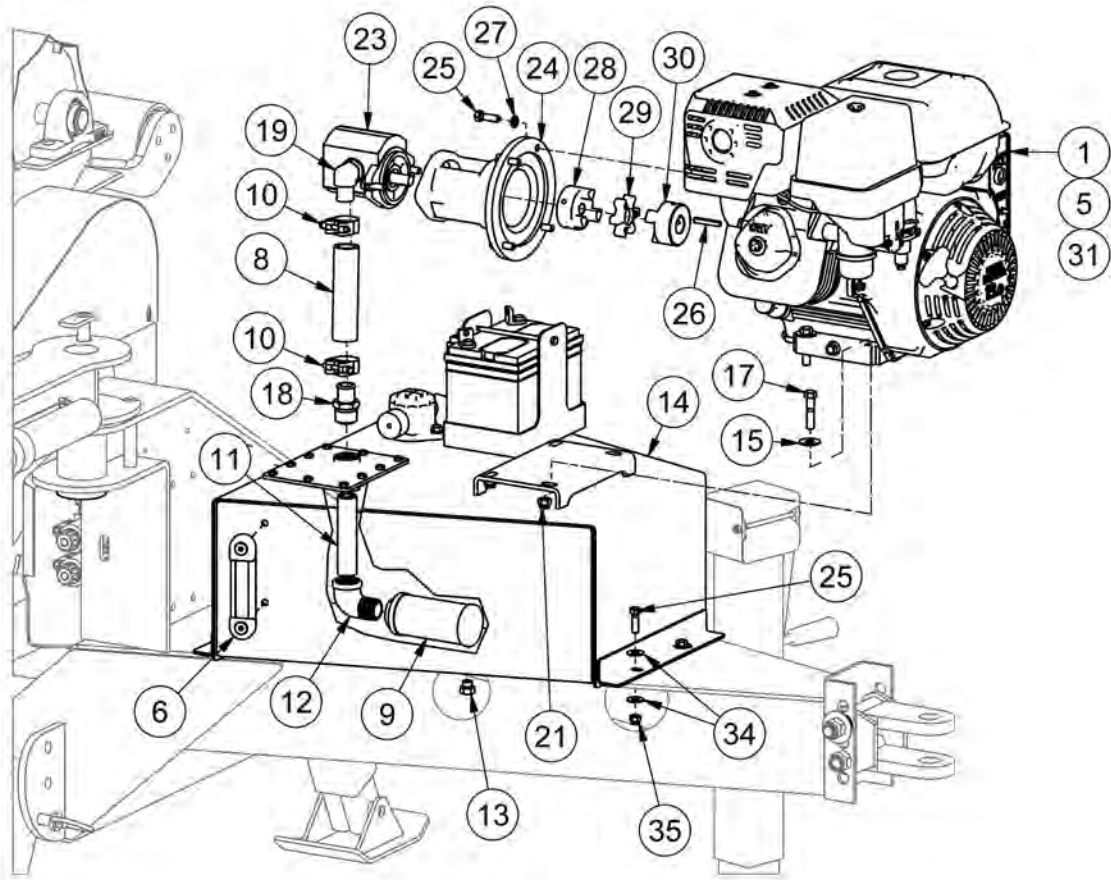
NOTE: Features in this section are used in optional models:

- TL1700SR-P ([Section 4](#))
- TL1700SR-A ([Section 5](#))
- TL1700SR-PA ([Section 6](#))

See optional model section header page for which of the following pages apply to your model.

Actual parts may vary slightly from illustrations shown.

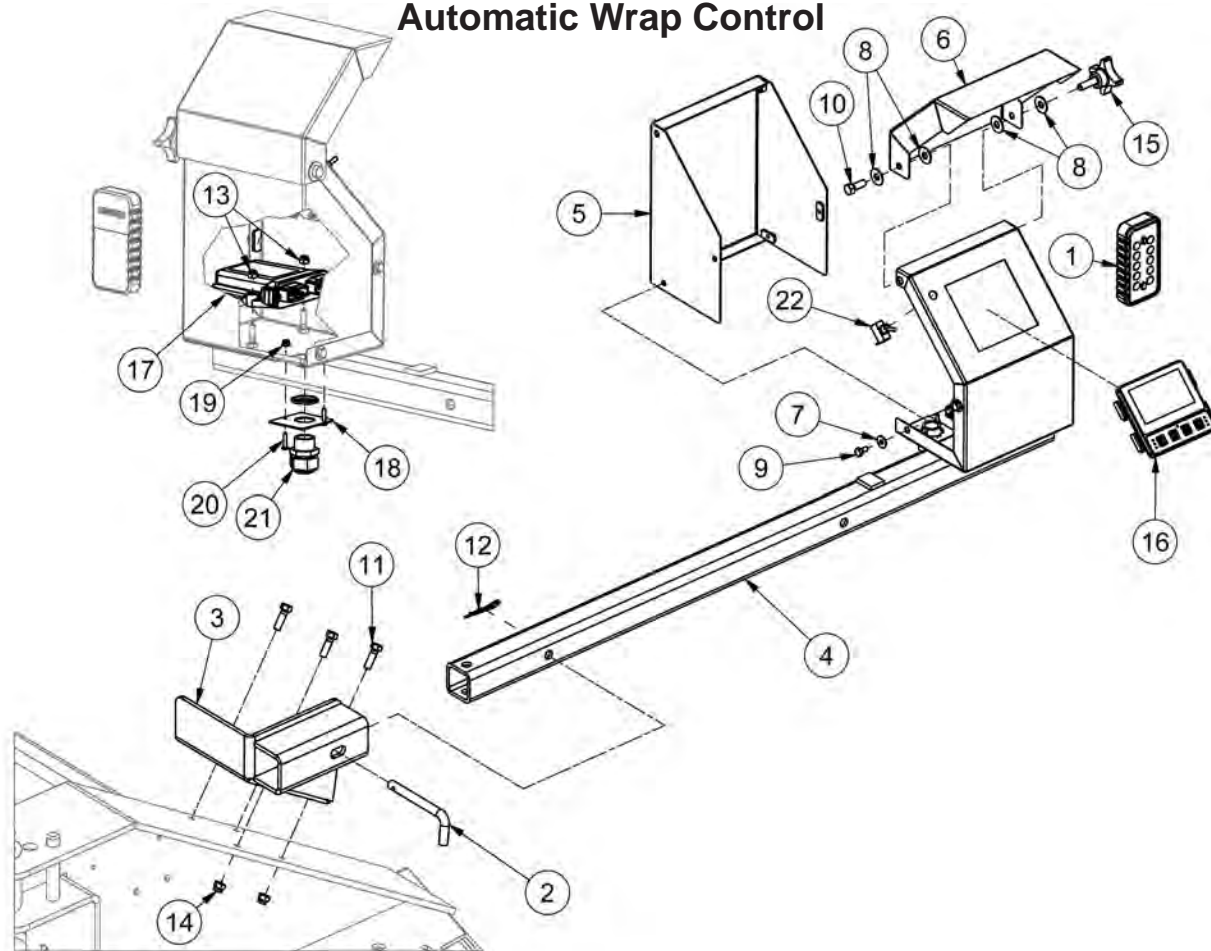
Onboard Power Pack



Onboard Power Pack

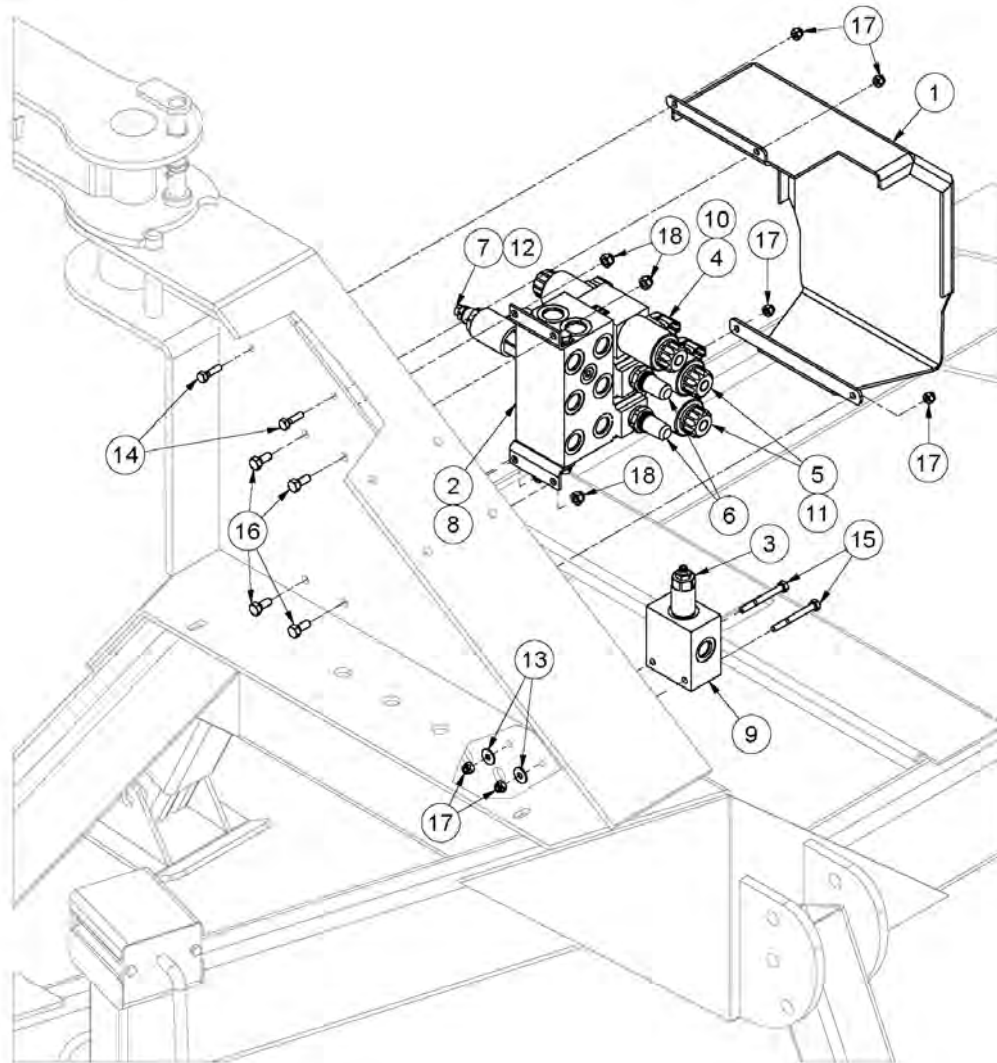
ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	1	40983	TL1700 Optional 13 HP Honda Power Pack	All Items
2	1	30872	Battery Cable 15" Red	
3	1	46355	Battery Cable 15" Black	
4	1	45924	SP-40 Battery	
5	1	40983-1	13 HP Honda Engine Power Pack	
6	1	46257	LVA-20-T-A Sight Glass	
7	1	46260	Complete Return Filter	
8	1	46261	3.875" TLB 100 Suction Hose	
9	1	46262	IFP-13 Suction Strainer	
10	2	46263	MKL-039-SP Suction Hose Clamp	
11	1	46264	1x5 Suction Nipple	
12	1	46265	Hyd. Reservoir Suction Elbow	
13	1	46266	9/16 Drain Plug	
14	1	46267	TL1700SR Auto Hydraulic Reservoir	
15	4	FW 7/16	Flatwasher - 7/16" Zinc Plated USS	
16	2	HB3/8-16X1Z5	Hex Bolt 3/8-16x1 Grade 5 Zinc Plated Hex Cap Screw	
17	4	HB7/16-14X2Z5	Hex Bolt 7/16-14x2 Grade 5 Zinc Plated Hex Cap Screw	
18	1	HF 4404-16-16	Hyd. Fitting - 1" Barb - 1" Pipe	
19	1	HF 4601-16-12	90° Adapter - 1" Hose Barb - 1.063" ORB	
20	2	HNC1/4	Serrated Hex Nut	
21	4	LN7/16-14NCZ5	LN 7/16-14 Zinc Plated Nylon Insert Lock Nut	
22	2	LW 3/8	LW - 3/8" Zinc Plated Medium Split	
23	1	45971	1700 Gear Pump (6GPM)	
24	1	46256	13HP Engine to 6GPM Pump	
25	8	HB3/8-16X1.25Z5	Hex Bolt 3/8-16x1 1/4 Grade 5 Zinc Plated Hex Cap Screw	
26	1	KS40960	Keystock .250 X 1.750	
27	4	LW 3/8	LW - 3/8" Zinc Plated Medium Split	
28	1	TL500-100-183	Lovejoy Coupling Pump Side	
29	1	TL500-100-184	Coupling Spacer	
30	1	TL500-100-185	Love Joy Coupling Engine Side	
31	1	TL5X2-100-200	13 HP Honda 18 Amp. Engine	
32	1	TL31750-Z2E-803	Rectifier Honda, GX630 20HP	
33	1	HB1/4-20X6Z5	Hex Bolt 1/4-20x6 Grade 5 Zinc Plated Hex Cap Screw	
34	8	FW 3/8	Flatwasher - 3/8" Zinc Plated USS	
35	4	LN3/8-16NCZ5	LN 3/8-16 Zinc Plated Nylon Insert Lock Nut	

Automatic Wrap Control



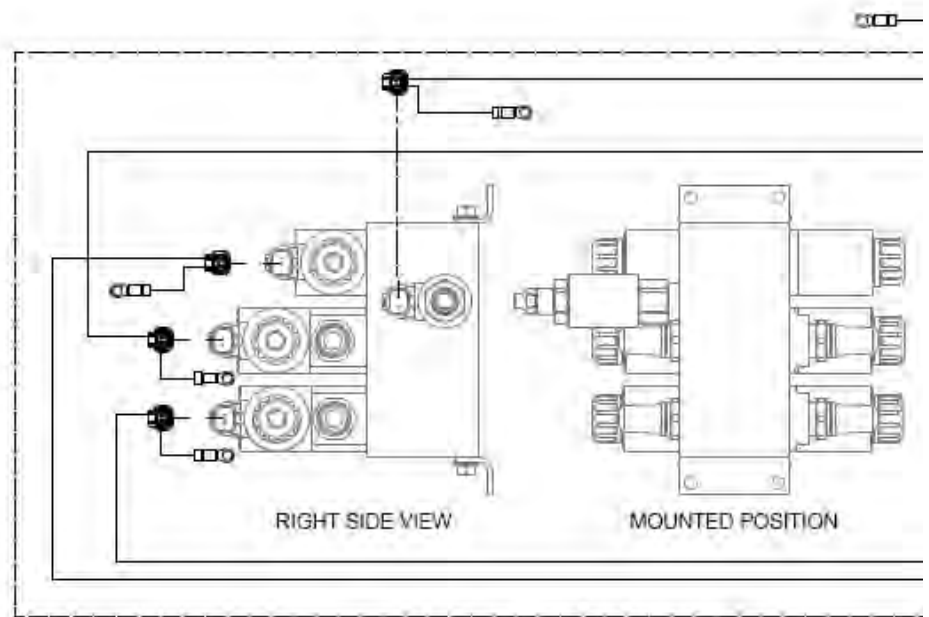
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	46146	10 Button Handheld Remote
2	1	21021	Bent Pin 1/2 X 4.5
3	1	42287	Valve Bracket
4	1	45611	Control Panel Arm
5	1	45613	Rear Cover
6	1	45614	Top Cover
7	1	FW 1/4	Flatwasher - 1/4" Zinc Plated USS
8	4	FW 3/8	Flatwasher - 3/8" Zinc Plated USS
9	4	HB1/4-20X0.5Z5	Hex Bolt 1/4-20x1/2 Grade 5 Zinc Plated Hex Cap Screw
10	1	HB3/8-16X1Z5	Hex Bolt 3/8-16x1 Grade 5 Zinc Plated Hex Cap Screw
11	4	HB3/8-16X1.25Z5	Hex Bolt 3/8-16x1 1/4 Grade 5 Zinc Plated Hex Cap Screw
12	1	HP .125X1.5	Pin Hitch - .125 X 1.5
13	2	LN1/4-20NCZ5	LN 1/4-20 Zinc Plated Nylon Insert Lock Nut
14	4	LN3/8-16NCZ5	LN 3/8-16 Zinc Plated Nylon Insert Lock Nut
15	1	TL5X2-100-104	Plastic Knob w/Stud
16	1	46147	1700 Display
17	1	46149	1700 Base Unit
18	1	48250	Electrical Connector Plate
19	2	LN #8 N	LN 3/16-32 Zinc Plated Nylon Insert Lock Nut
20	2	MS #8X32X0.75	Machine Screw - (Inch)
21	1	TL182-175	Cable Strain Relief
22	1	TL550-200-235	Toggle Switch (ON-OFF)

Automatic Wrap Manifold Mount



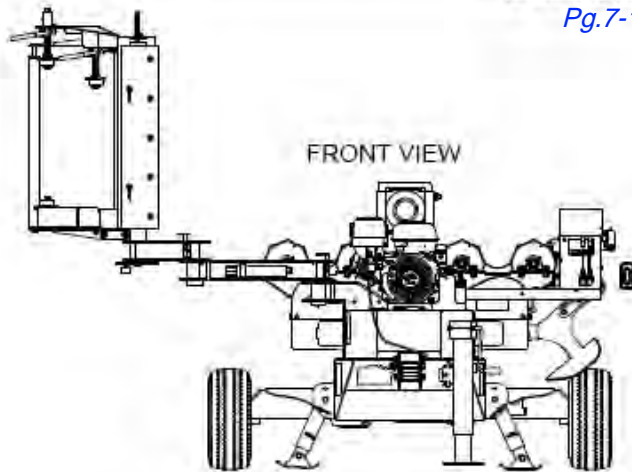
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	45689	1700 Auto Manifold Shield
2	1	46148	TL1700 Auto Manifold Assembly
3	1	46151	Pressure-Compensated Flow Control
4	1	46156	Proportional Valve
5	2	46157	Directional Control Valve
6	2	46158	Flow Control Valve
7	1	46159	Unloading/Relief Valve
8	1	46160	Aluminum Bar Manifold
9	1	46161	Valve Line Body
10	2	46162	Proportional Valve Coil
11	4	46163	Directional Control Valve Coil
12	1	46164	Unload/Relief Valve Coil
13	12	FW 1/4	Flatwasher - 1/4" Zinc Plated USS
14	4	HB 1/4-20X1 Z5	Hex Bolt 1/4-20x1 Grade 5 Zinc Plated Hex Cap Screw
15	2	HB 1/4-20X2.5 Z5	Hex Bolt 1/4-20x2 1/2 Grade 5 Zinc Plated Hex Cap Screw
16	6	HB 5/16-18X0.75 Z5	Hex Bolt 5/16-18x3/4 Grade 5 Zinc Plated Hex Cap Screw
17	12	LN 1/4 N	LN 1/4-20 Zinc Plated Nylon Insert Lock Nut
18	25	LN 5/16 N	LN 5/16-18 Zinc Plated Nylon Insert Lock Nut

Automatic Wrap Electrical Layout - Overview

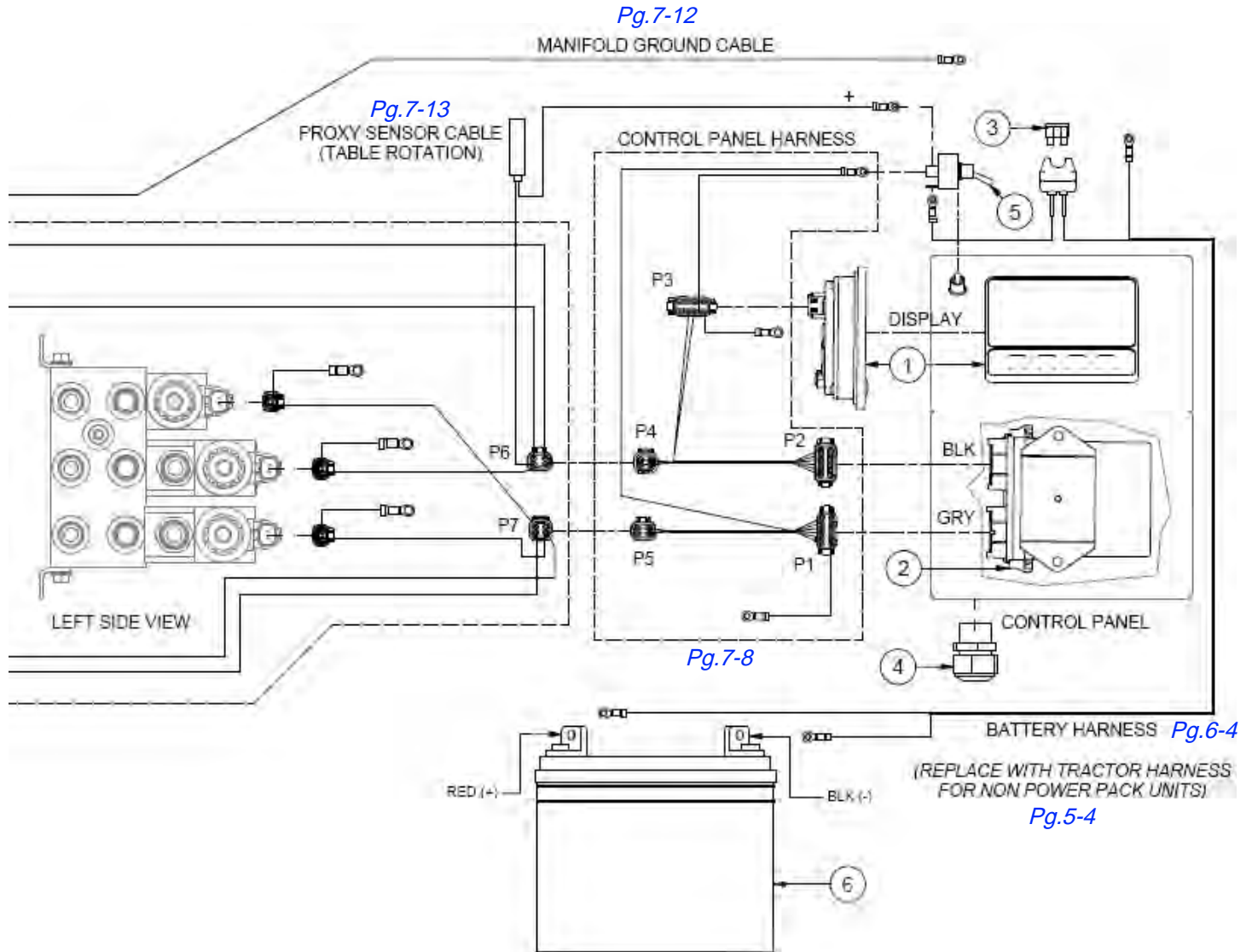


MANIFOLD HARNESS'

Pg.7-10

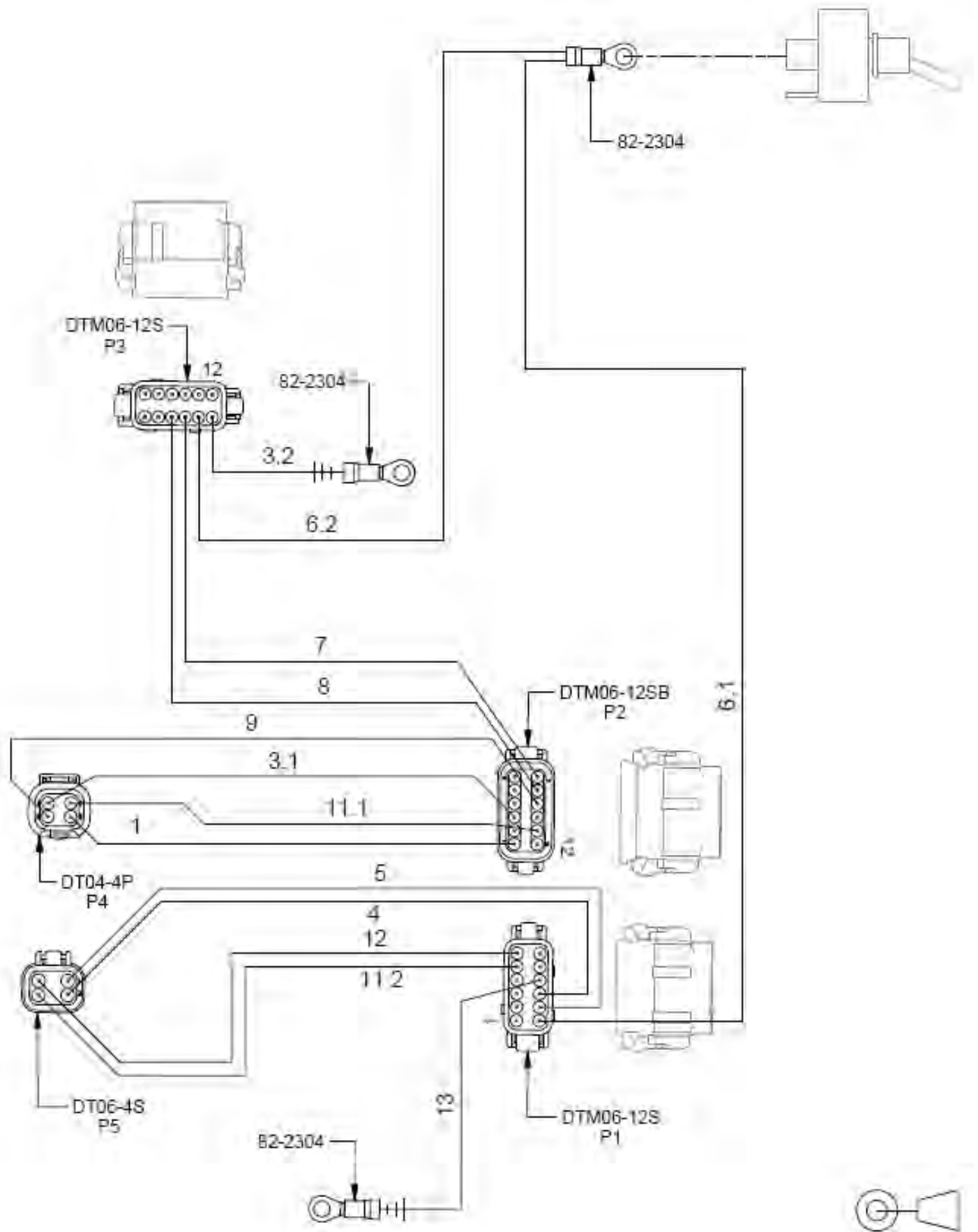


Automatic Wrap Electrical Layout - Overview



ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	46147	1700 Display
2	1	46149	TL1700 Base Unit
3	1	FUSEATC-15	15 AMP Blade Fuse
4	1	TL182-175	Cable Strain Relief
5	1	TL550-200-235	Toggle Switch (ON-OFF)
6	1	TLBATSP35	SP-35 Battery

Automatic Wrap Electrical Layout - Control Panel Harness



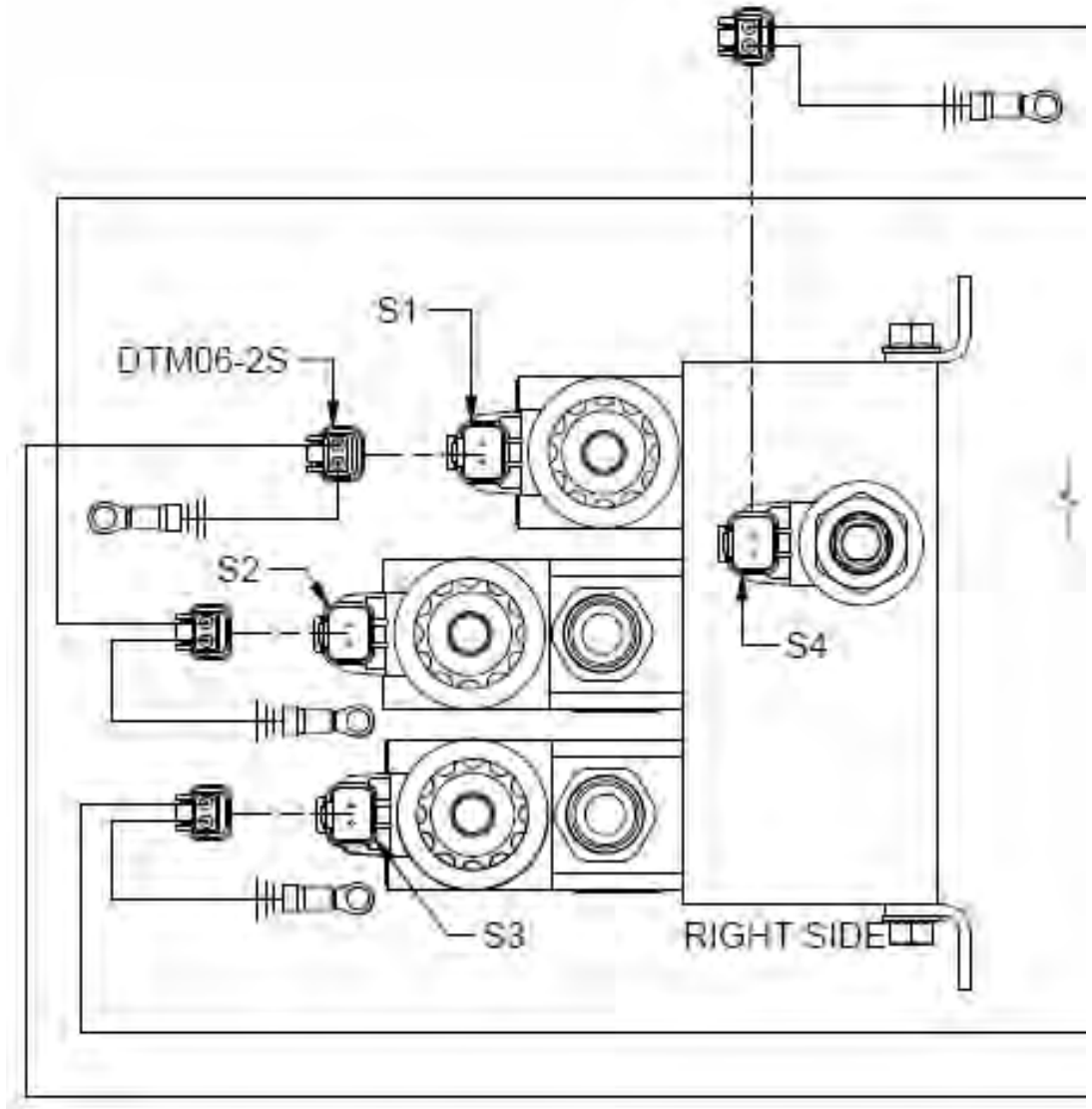
 GROUND TERMINALS TO CONTROL PANEL STUD

Automatic Wrap Electrical Layout - Control Panel Harness

WIRES & CONNECTIONS							
WIRE NO.	WIRE COLOR	WIRE GA	LENGTH	CON 1	CON 1 PIN NO.	CON 2	CON 2 PIN NO.
1	BLK	14	7.5"	P2	1	P4	3
3.1	BLK	14	7.5"	P2	3	P4	1
3.2	BLK	14	12"	P3	1	-	-
4	BLK	14	6.5"	P1	4	P5	2
5	BLK	14	6.5"	P1	5	P5	1
6.1	BLK	14	8.5"	P1	6	-	-
6.2	BLK	14	8.5"	P3	2	-	-
7	BLK	14	14"	P2	7	P3	3
8	BLK	14	14"	P2	8	P3	4
9	BLK	14	7.5"	P2	9	P4	2
11.1	BLK	14	7.5"	P2	11	P4	4
11.2	BLK	14	6.5"	P1	11	P5	3
12	BLK	14	6.5"	P1	12	P5	4
13	YEL/GRN	14	11"	P1	3	-	-

CONNECTORS	
SUPPLIER PN	CON
DTM06-12S	P1, P3
DTM06-12SB	P2
DT06-4S	P5
DT04-4P	P4
83-2304	-

Automatic Wrap Electrical Layout - Manifold Harness

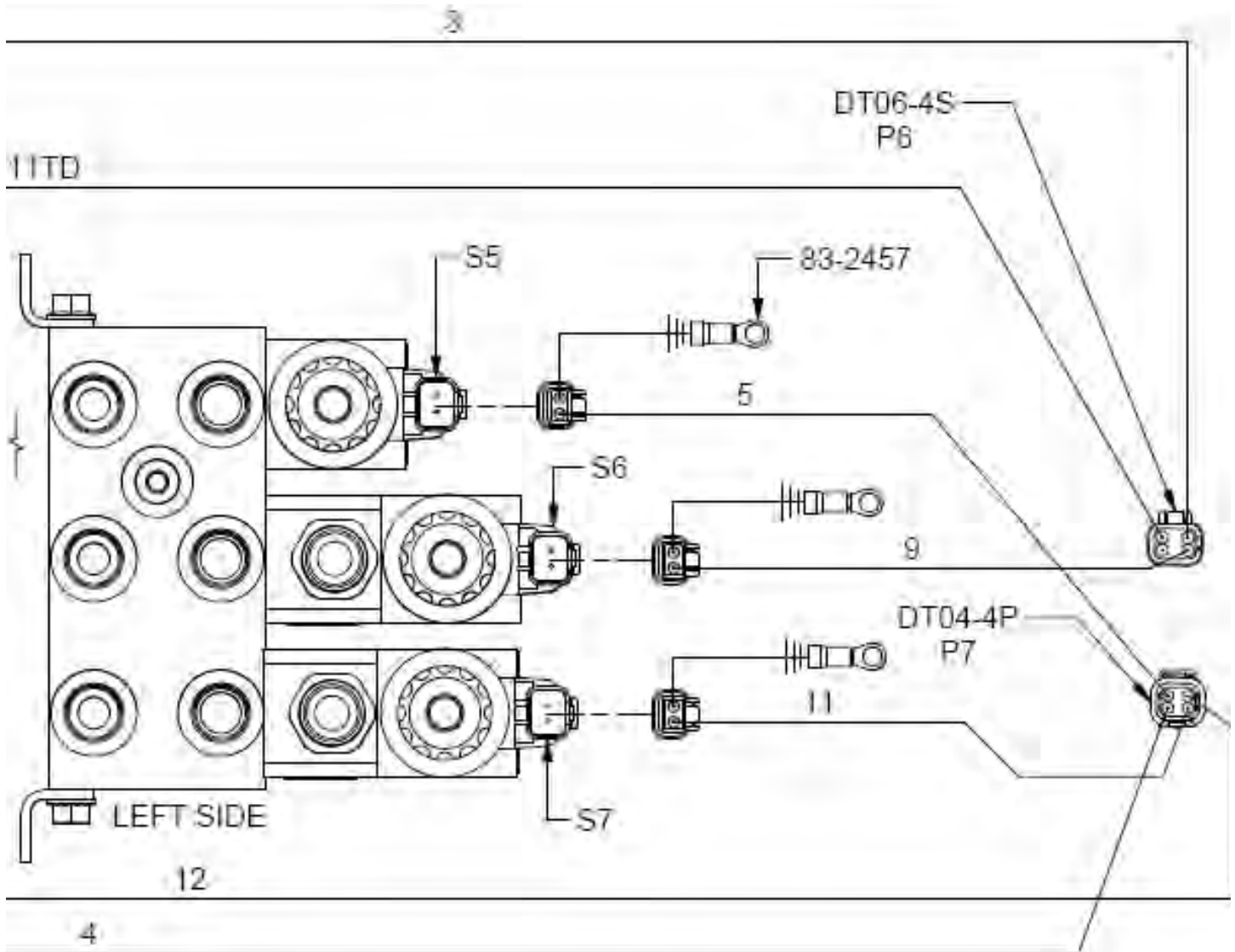


All 7 ground wires are BLK 14GA 12" long and connected to frame ground stud and pin 2 of DTM06-2S

WIRES & CONNECTIONS

WIRE NO.	WIRE COLOR	WIRE GA	LENGTH	CON 1	CON 1 PIN NO.	CON 2	CON 2 PIN NO.
3	BLK	14	60"	P6	4	S4	1
4	BLK	14	60"	P7	2	S1	1
5	BLK	14	60"	P7	1	S5	1
9	BLK	14	60"	P6	2	S6	1
11	BLK	14	60"	P7	3	S7	1
11TD	BLK	14	60"	P6	3	S2	1
12	BLK	14	60"	P7	4	S3	1

Automatic Wrap Electrical Layout - Manifold Harness

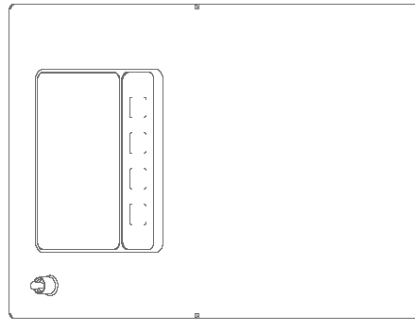


All 7 ground wires are BLK 14GA 12" long and connected to frame ground stud and pin 2 of DTM06-2S

SOLENOIDS		CONNECTORS	
SOLENOID NO.	FUNCTION	SUPPLIER PN	CON
S1	REVERSE ROTATION	DTM06-2S	S1- S7
S2	TIP DOWN	DT06-4S	P6
S3	CUT + HOLD ON	DT04-4P	P7
S4	UNLOAD	83-2457	ALL GROUNDS
S5	FORWARD ROTATION		
S6	TIP UP		
S7	CUT + HOLD OFF		

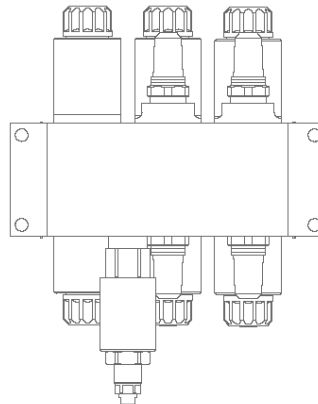
Automatic Wrap Electrical Layout - Manifold Ground Cable

83-2304

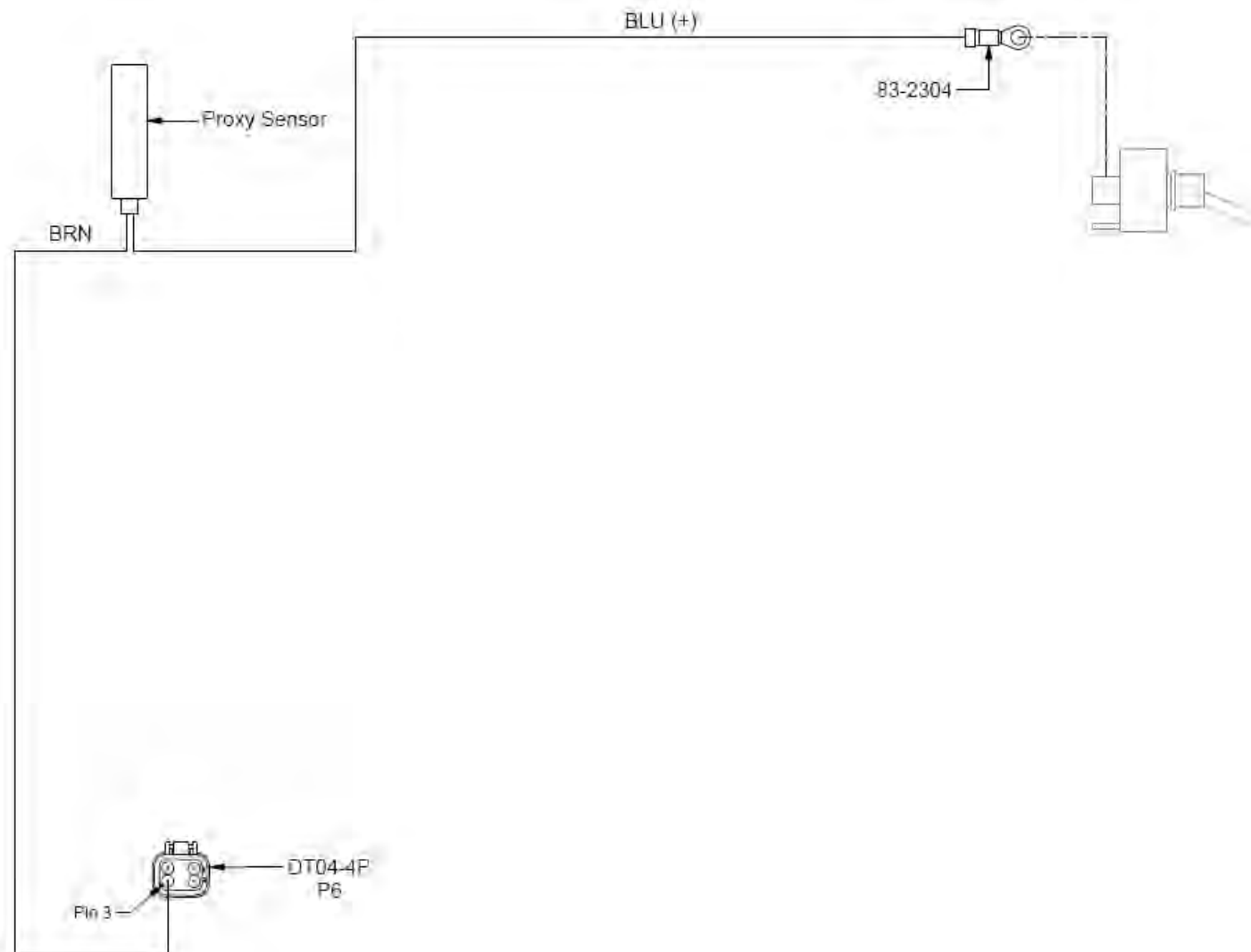


14 GA BLK 60"

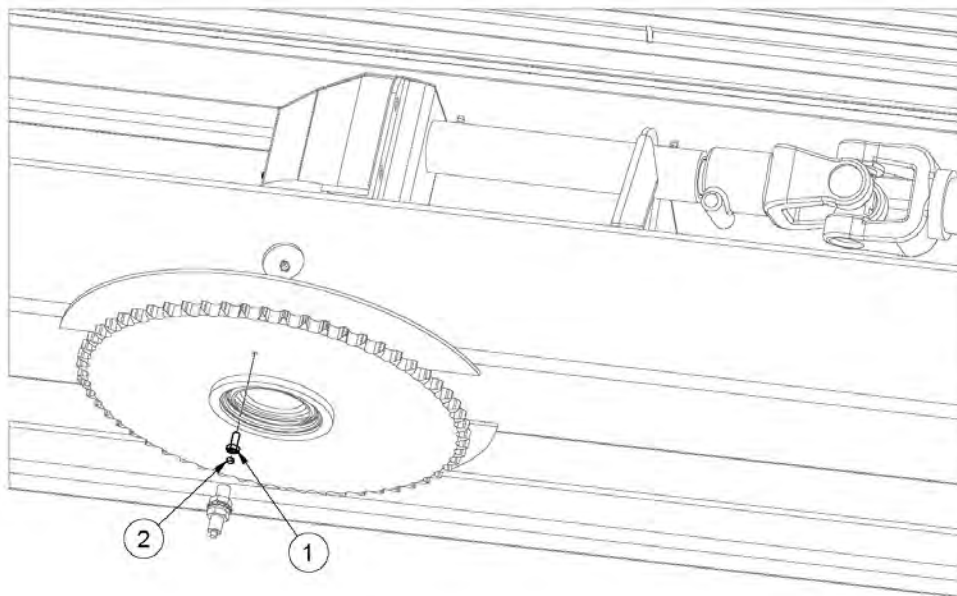
83-2457



Automatic Wrap Electrical Layout - Turntable Proxy Sensor













Automatic Wrap - Turntable Proxy Sensor Magnet



ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	46226	Machined Bolt
2	1	46227	1700 Auto Proxy Magnet

Torque Values - Imperial

SAE Grade and Head Markings	1 or 2 ^b	5	5.1	5.2	8	8.2
	NO MARK					
SAE Grade and Nut Markings	2	5		8		
	NO MARK					

Size	Grade 1				Grade 2 ^b				Grade 5, 5.1, or 5.2				Grade 8 or 8.2			
	Lubricated ^a		Dry ^a		Lubricated ^a		Dry ^a		Lubricated ^a		Dry ^a		Lubricated ^a		Dry ^a	
	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft
1/4	3.7	2.8	4.7	3.5	6	4.5	7.5	5.5	9.5	7	12	9	13.5	10	17	12.5
5/16	7.7	5.5	10	7	12	9	15	11	20	15	25	18	28	21	35	26
3/8	14	10	17	13	22	16	27	20	35	26	44	33	50	36	63	46
7/16	22	16	28	20	35	26	44	32	55	41	70	52	80	58	100	75
1/2	33	25	42	31	53	39	67	50	85	63	110	80	120	90	150	115
9/16	48	36	60	45	75	56	95	70	125	90	155	115	175	130	225	160
5/8	67	50	85	62	105	78	135	100	170	125	215	160	240	175	300	225
3/4	120	87	150	110	190	140	240	175	300	225	375	280	425	310	550	400
7/8	190	140	240	175	190	140	240	175	490	360	625	450	700	500	875	650
1	290	210	360	270	290	210	360	270	725	540	925	675	1050	750	1300	975
1-1/8	400	300	510	375	400	300	510	375	900	675	1150	850	1450	1075	1850	1350
1-1/4	570	425	725	530	570	425	725	530	1300	950	1650	1200	2050	1500	2600	1950
1-3/8	750	550	950	700	750	550	950	700	1700	1250	2150	1550	2700	2000	3400	2550
1-1/2	1000	725	1250	925	990	725	1250	930	2250	1650	2850	2100	3600	2650	4550	3350

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

Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical grade.

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

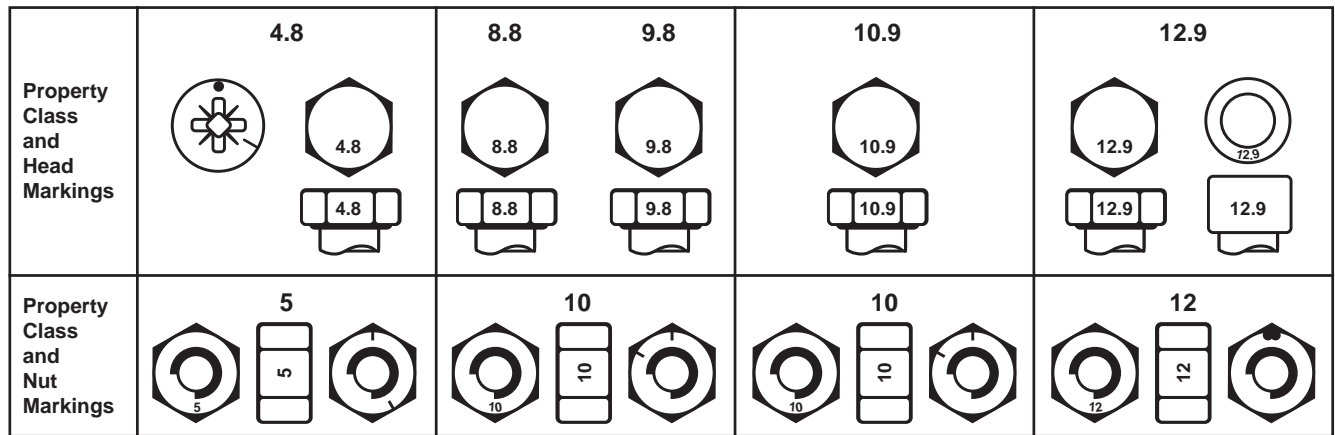
Make sure fasteners threads are clean and that you properly start thread engagement. This will prevent them from failing when tightening.

Tighten plastic insert or crimped steel-type lock nuts to approximately 50 percent of the dry torque shown in the chart, applied to the nut, not to the bolt head. Tighten toothed or serrated-type lock nuts to the full torque value.

^a "Lubricated" means coated with a lubricant such as engine oil, or fasteners with phosphate and oil coatings. "Dry" means plain or zinc plated without any lubrication.

^b Grade 2 applies for hex cap screws (not hex bolts) up to 152 mm (6-in.) long. Grade 1 applies for hex cap screws over 152 mm (6-in.) long, and for all other types of bolts and screws of any length.

Torque Values - Metric



Size	Class 4.8				Class 8.8 or 9.8				Class 10.9				Class 12.9			
	Lubricated ^a		Dry ^a		Lubricated ^a		Dry ^a		Lubricated ^a		Dry ^a		Lubricated ^a		Dry ^a	
	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft
M6	4.8	3.5	6	4.5	9	6.5	11	8.5	13	9.5	17	12	15	11.5	19	14.5
M8	12	8.5	15	11	22	16	28	20	32	24	40	30	37	28	47	35
M10	23	17	29	21	43	32	55	40	63	47	80	60	75	55	95	70
M12	40	29	50	37	75	55	95	70	110	80	140	105	130	95	165	120
M14	63	47	80	60	120	88	150	110	175	130	225	165	205	150	260	190
M16	100	73	125	92	190	140	240	175	275	200	350	255	320	240	400	300
M18	135	100	175	125	260	195	330	250	375	275	475	350	440	325	560	410
M20	190	140	240	180	375	275	475	350	530	400	675	500	625	460	800	580
M22	260	190	330	250	510	375	650	475	725	540	925	675	850	625	1075	800
M24	330	250	425	310	650	475	825	600	925	675	1150	850	1075	800	1350	1000
M27	490	360	625	450	950	700	1200	875	1350	1000	1700	1250	1600	1150	2000	1500
M30	675	490	850	625	1300	950	1650	1200	1850	1350	2300	1700	2150	1600	2700	2000
M33	900	675	1150	850	1750	1300	2200	1650	2500	1850	3150	2350	2900	2150	3700	2750
M36	1150	850	1450	1075	2250	1650	2850	2100	3200	2350	4050	3000	3750	2750	4750	3500

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

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

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

Make sure fasteners threads are clean and that you properly start thread engagement. This will prevent them from failing when tightening.

Tighten plastic insert or crimped steel-type lock nuts to approximately 50 percent of the dry torque shown in the chart, applied to the nut, not to the bolt head. Tighten toothed or serrated-type lock nuts to the full torque value.

^a "Lubricated" means coated with a lubricant such as engine oil, or fasteners with phosphate and oil coatings. "Dry" means plain or zinc plated without any lubrication.

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WARNING

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

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