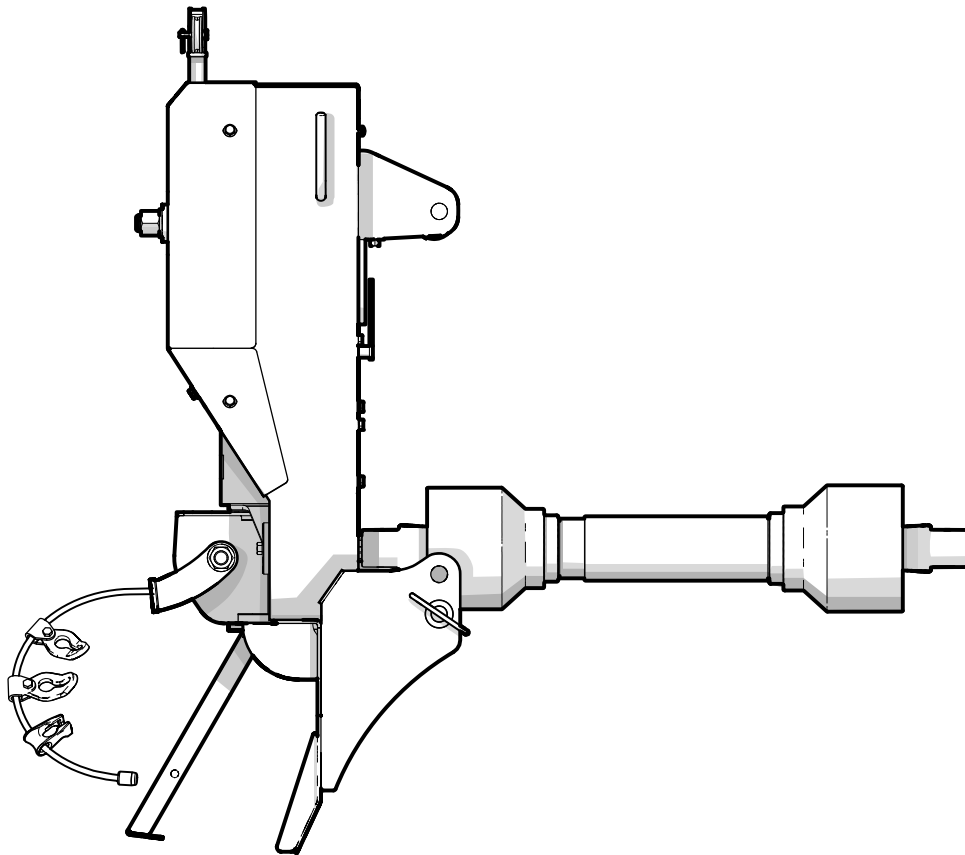


PARTS MANUAL

Serial Number 5401 & up

FX40 **PTO-DRIVEN LOG SKIDDING WINCH**



Foreword

This Wallenstein parts manual is prepared to assist customers in ordering quality OEM replacement parts.

Regular maintenance combined with replacing old, worn or broken parts with the correct OEM parts is essential in prolonging the life of your Wallenstein product. Refer to this manual to identify replacement parts.

To order parts, contact your Wallenstein dealer or distributor. Have the product model and serial number handy.

If your dealer is no longer available, please go to our website: <http://wallensteinequipment.com> and click on the [Dealer Locator](#) to find the nearest dealer.

All information contained in this parts manual is current as per the revision date at the bottom of the page. Wallenstein reserves the right to change product specifications at any time without notice.

If your product specifications differ from those contained in this manual, contact Wallenstein for current information.

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**WARNING!**

Refer to the operators manual for safe operation and maintenance.

Maintenance should be performed by trained personnel only.

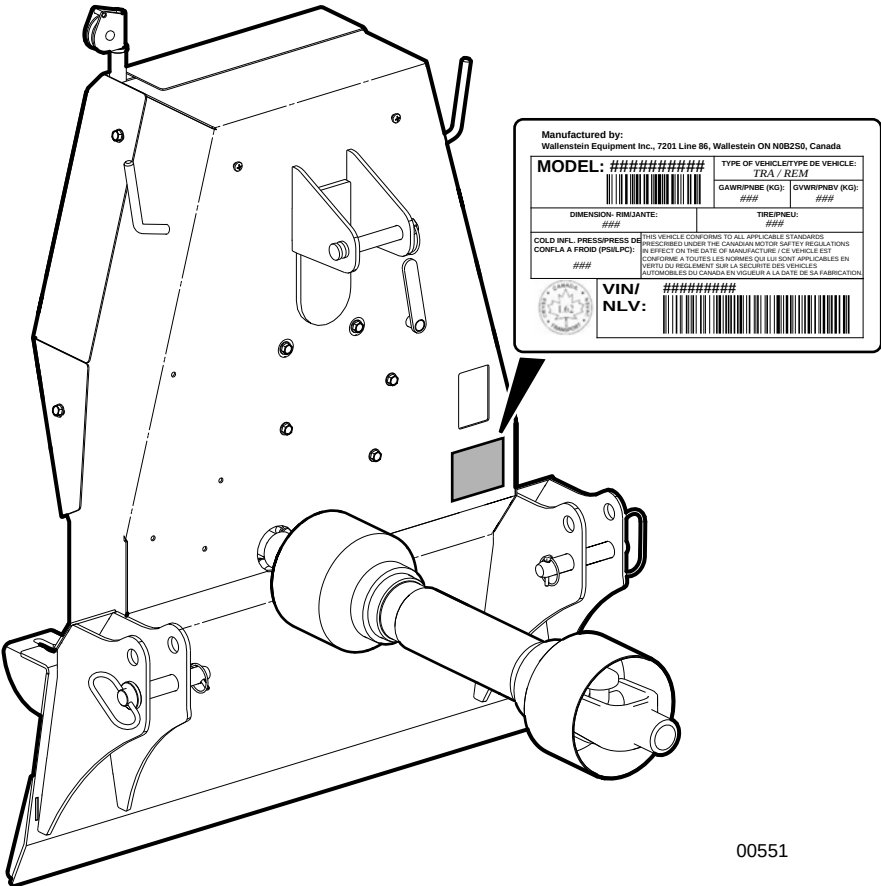
Serial Number Location

Always provide the model and serial number of your Wallenstein product when ordering parts or requesting service or other information. This information is found on the product information plate as shown below.

Record product information for future reference.

Model _____

Serial Number _____



00551

www.wallensteinequipment.com

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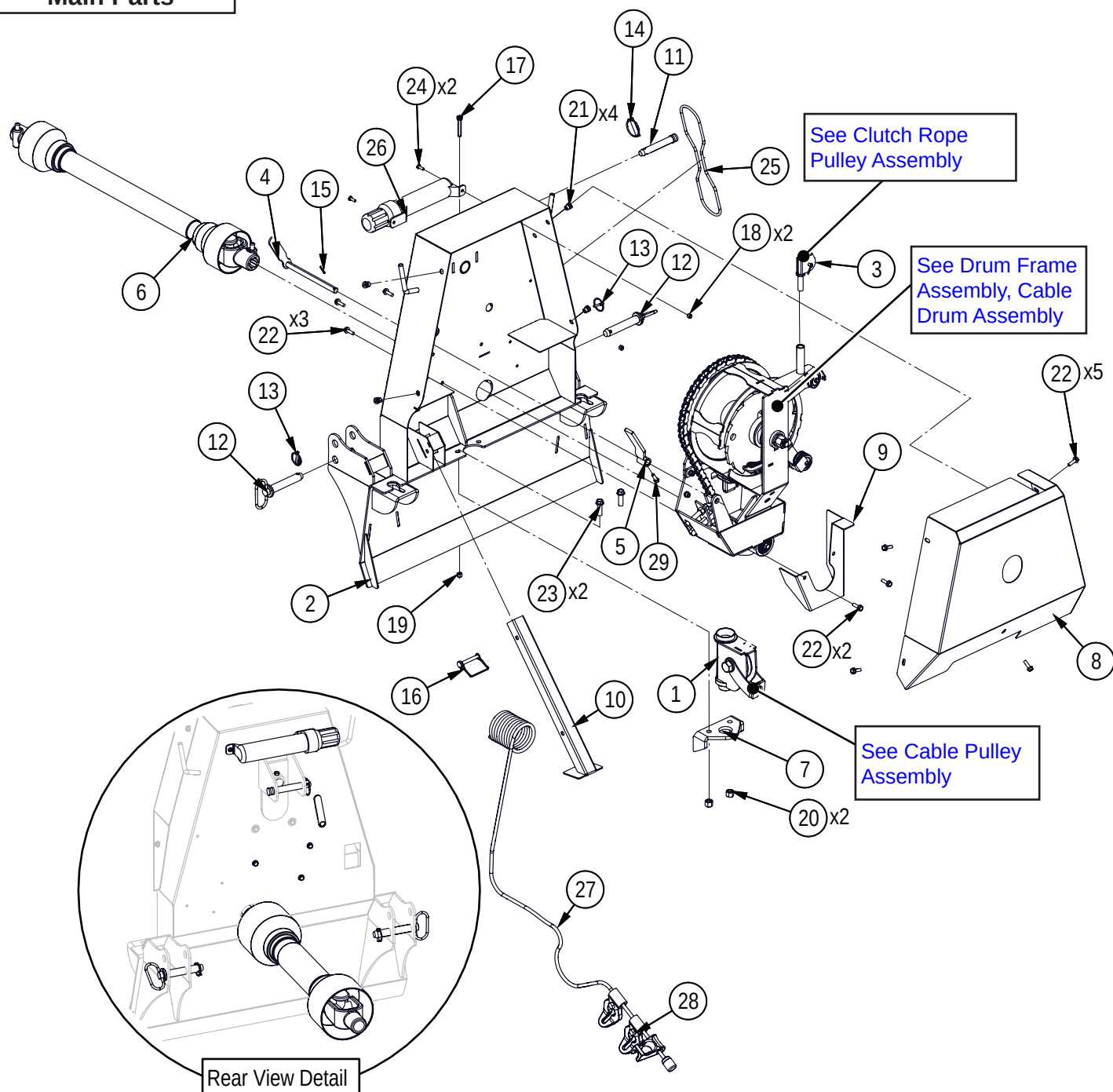
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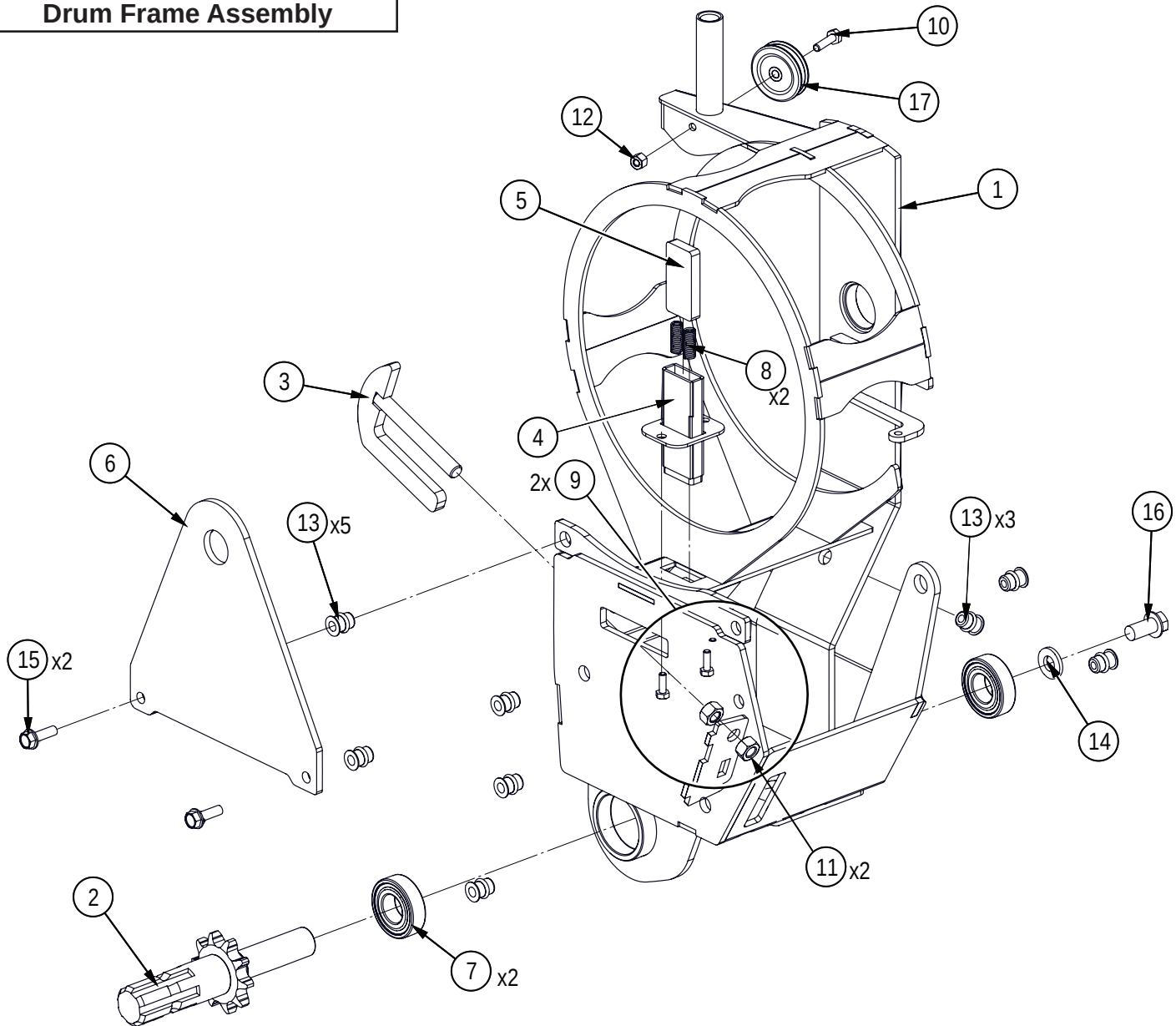
Main Parts



Item No.	Part No.	Description	Qty
1	5017A002	Mid-mounted Cable Pulley	1
2	5017W005	Main A-Frame	1
3	5012A207	Clutch Rope Pulley	1
4	5017W007	Lock Dog Handle	1
5	5017W013	Locking Dog	1
6	Z44203	PTO Shaft, Series B2 x 39.685"	1
7	5017L013	Bottom Pulley Retainer	1
8	5017L027	Front Cover	1
9	5017L038	Lower Chain Guard	1
10	5017L045	Foot Channel	1
11	Z11122	Toplink Pin, 3/4" x 3-7/8"	1
12	Z11251	Hitch Pin, 7/8" x 4-1/4"	2
13	Z12110	Lynch Pin, 3/16"	2
14	Z12140	Lynch Pin, 7/16"	1
15	Z12311	Cotter Pin, 1/8" x 1"	1

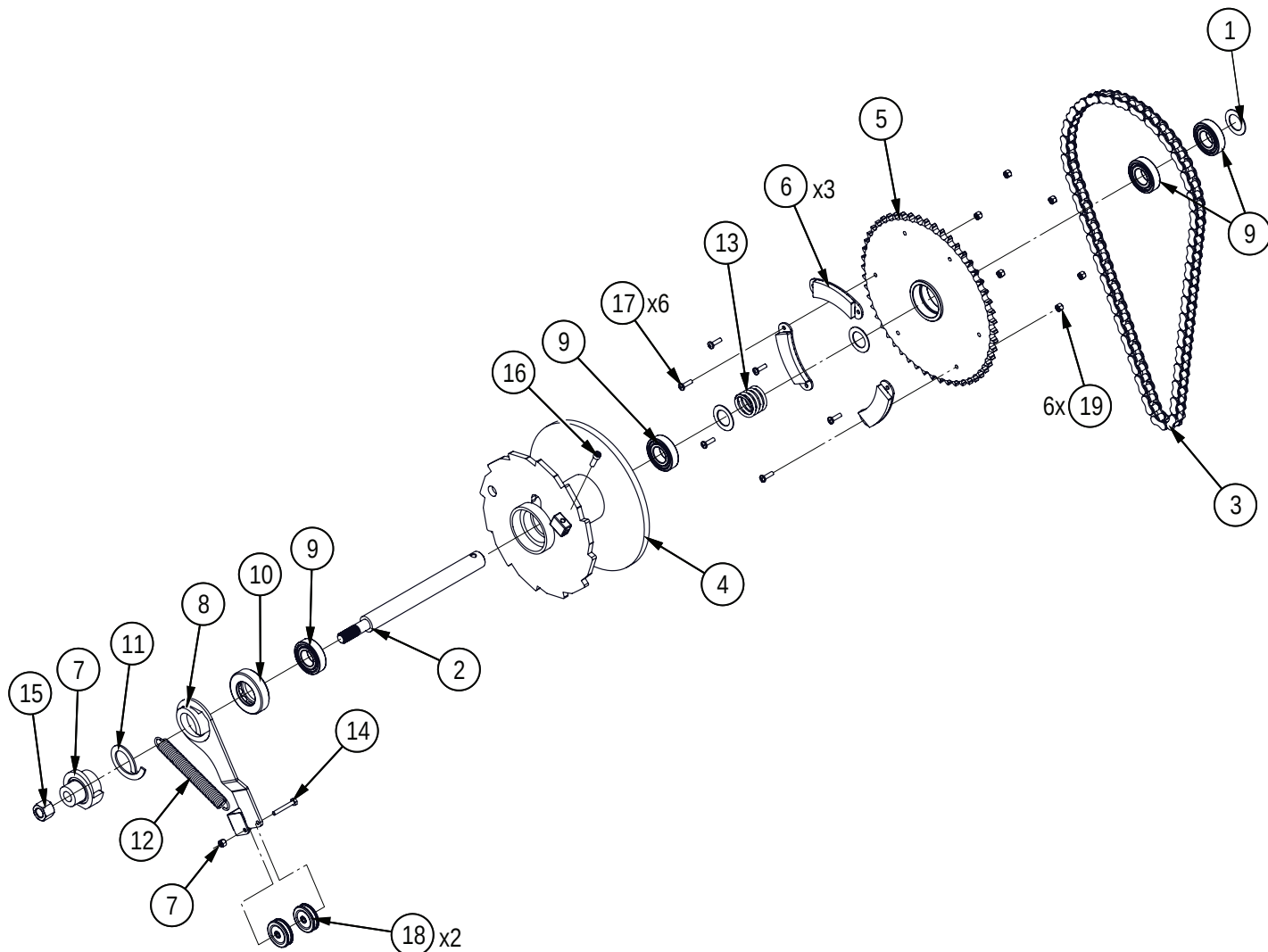
Item No.	Part No.	Description	Qty
16	Z12432	Snap Lock Pin, 3/8" x 2-1/2"	1
17	Z71222G8	Hex Bolt, 5/16NC x 2-1/4"	1
18	Z72211	Hex Lock Nut, 1/4NC	2
19	Z72221	Hex Lock Nut, 5/16NC	1
20	Z72251	Hex Lock Nut, 1/2NC	2
21	Z72956	Rivet Nut, 5/16NC x 150	4
22	Z76125	Flange Bolt, 5/16NC x 1"	10
23	Z76156	Flange Bolt, 1/2NC x 1-1/2"	2
24	Z78301	Machine Screw, 1/4NC x 3/4"	2
25	Z92205	White Nylon Rope, 1/4" x 18ft	1
26	Z96505	Manual Tube, 2" Short	1
27	Z92132	Winch Cable, 5/16" x 165ft with Forged End	1
28	Z92301	Keyhole Slider, 3/8" Chain	2
29	Z71210	Hex Bolt, 5/16NC x 1"	1

Drum Frame Assembly

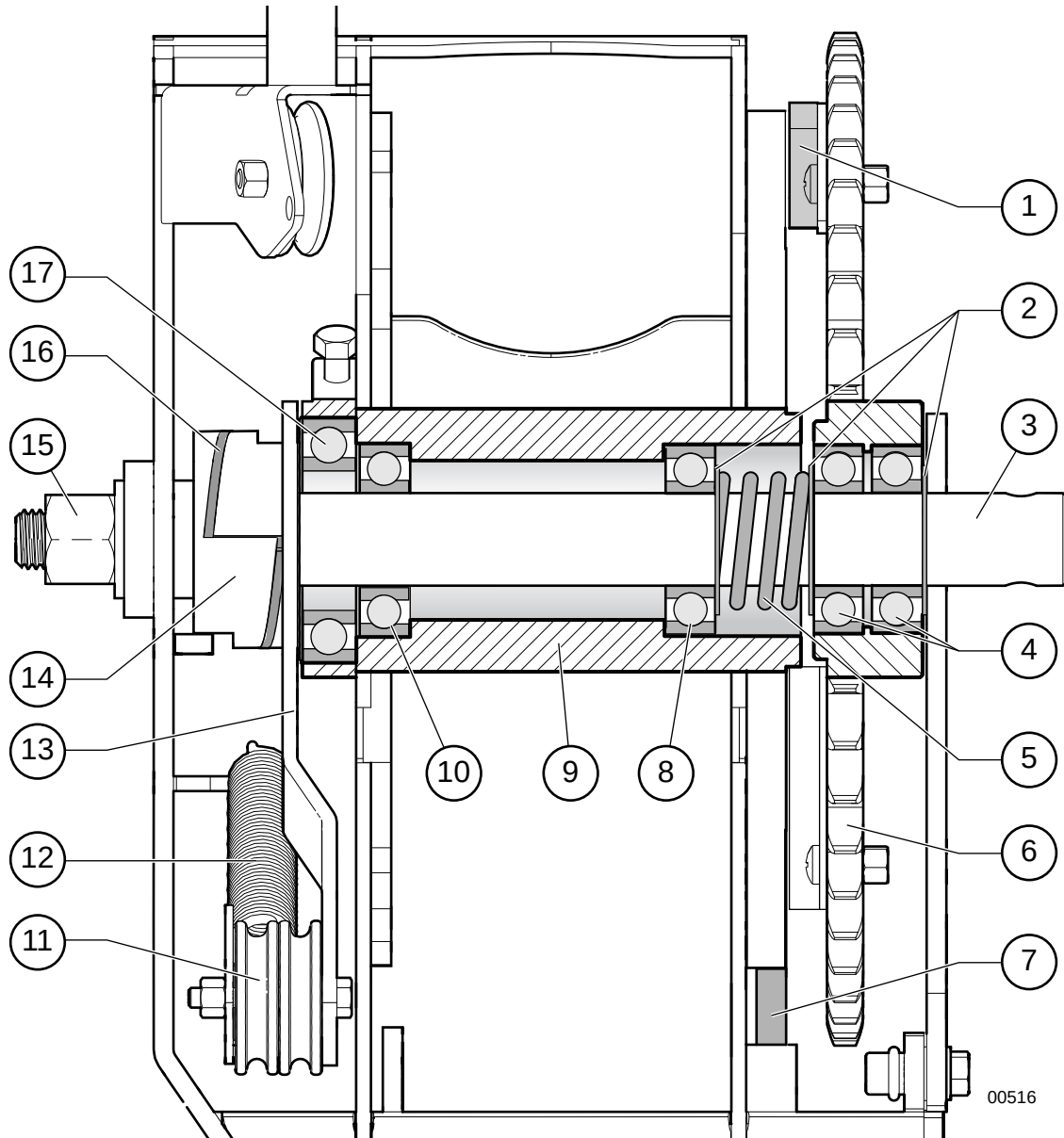


Item No.	Part No.	Description	QTY
1	5017W004	Drum Housing	1
2	5017W003	PTO Input Shaft	1
3	5017W008	Drive Chain Tensioner	1
4	5017W014	Holder, Brake Pad	1
5	5012M204	Block, Drum Brake	1
6	5017L023	Drum Retaining Plate	1
7	Z21209	Ball Bearing, 6205-2RS	2
8	Z32201	Comp Spring, 10mm OD x 64mm x 0.0475"	2
9	Z71107	Hex Bolt, 1/4NC x 3/4"	2
10	Z71110	Hex Bolt, 1/4NC x 1"	1
11	Z72151	Hex Nut, 1/2NC	2
12	Z72211	Hex Lock Nut, 1/4NC	1
13	Z72957	Rivet Nut, 5/16NC x 312	8
14	Z73151	SAE Washer, 1/2"	1
15	Z76125	Flange Bolt, 5/16NC x 1"	2
16	Z76153	Flange Bolt, 1/2NC x 1"	1
17	Z92203	Groove Pulley, 2" x 1/4"	1

Cable Drum Assembly



Item No.	Part No.	Description	Qty
1	5017L057	Spacing Washer	3
2	5017M010	Drum Shaft	1
3	5017S002	Roller Chain, #60 x 40 Links	1
4	5017W001	Winch Drum	1
5	5017W002	Clutch Sprocket	1
6	5017W006	Brake Pad	3
7	5017W009	Fixed Clutch Ramp	1
8	5017W010	Clutch Ramp Handle	1
9	Z21210	Ball Bearing, 6206-2RS	4
10	Z22101	Thrust Bearing, 1-3/4" ID x 3.09" OD x 13/16"	1
11	Z22201	Needle Thrust, 50 ID x 70 OD x 3mm	1
12	Z31405	Ext Spring, 7/8" OD x 7" x 0.125"	1
13	Z32404	Comp Spring, 1.687" OD x 1.5" x 0.187"	1
14	Z71118	Hex Bolt, 1/4NC x 1-7/8"	1
15	Z72271	Hex Lock Nut, 3/4NC	1
16	Z75125	SHCS, 5/16NC x 1"	1
17	Z78318	Machine Screw, 1/4NC x 7/8"	6
18	Z92203	Groove Pulley, 2" x 1/4"	2
19	Z72211	Hex Lock Nut, 1/4NC	7

Cable Drum Assembly

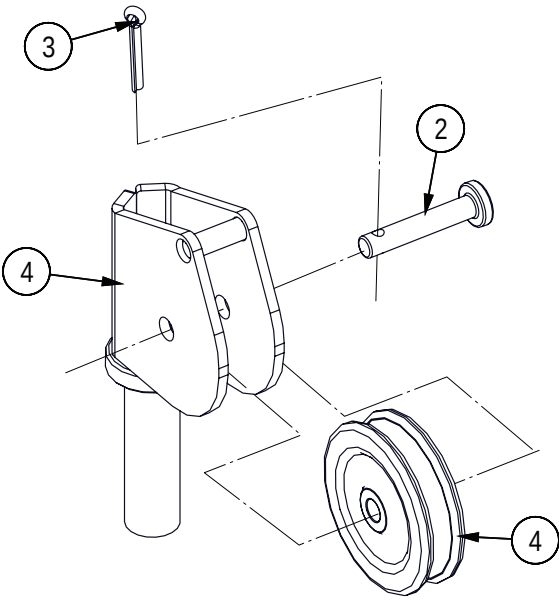
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Fig. 1 – Cable Drum Assembly

- | | | |
|------------------------|----------------------|---------------------------|
| 1. Brake Pads (3) | 7. Drum Brake Block | 13. Clutch Ramp Handle |
| 2. Spacing Washers (3) | 8. Drum Bearing | 14. Fixed Clutch Ramp |
| 3. Drum Shaft | 9. Winch Drum | 15. Drum Shaft Hex Nut |
| 4. Sprocket Bearings | 10. Drum Bearing | 16. Needle Thrust Bearing |
| 5. Compression Spring | 11. Groove Pulley | 17. Drum Bearing—Outer |
| 6. Clutch Sprocket | 12. Extension Spring | |

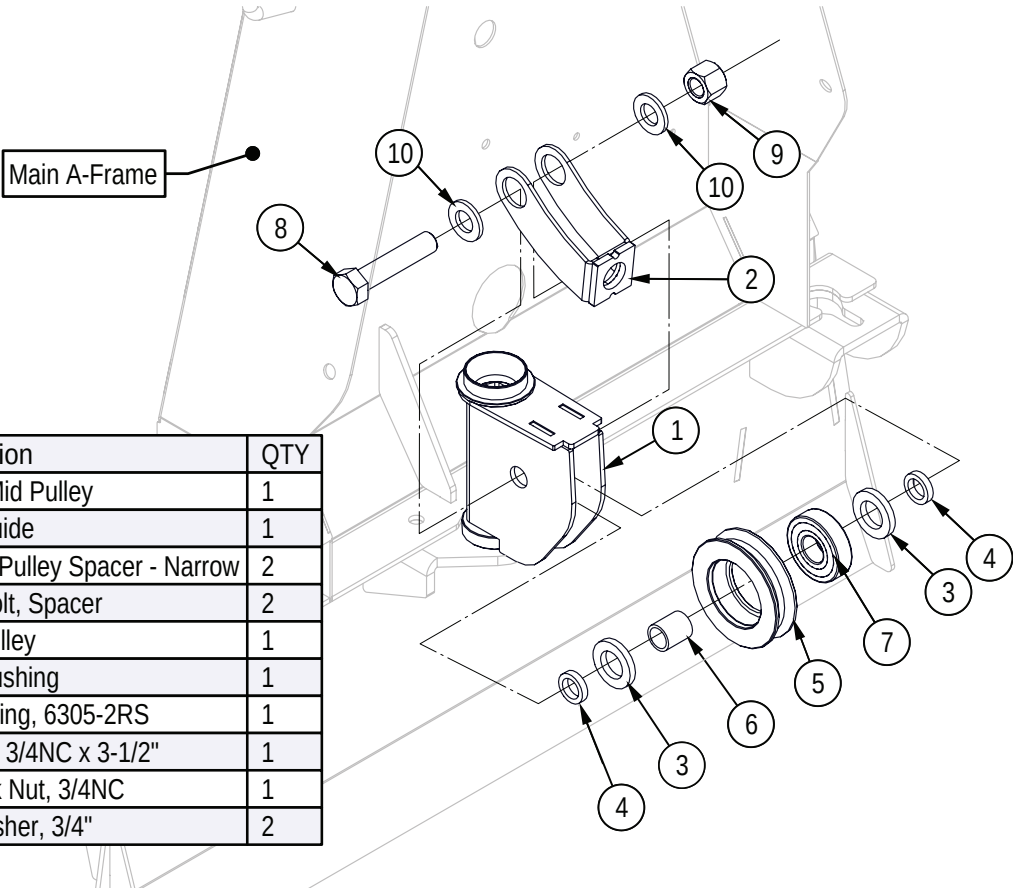
Clutch Rope Pulley Assembly

Item No.	Part No.	Description	Qty
1	Z11311	Clevis Pin, 1/4" x 1-1/8"	1
2	Z12311	Cotter Pin, 1/8" x 1"	1
3	Z92203	Groove Pulley 2" x 1/4"	1
4	5012W215	Clutch Rope Pulley Housing	1

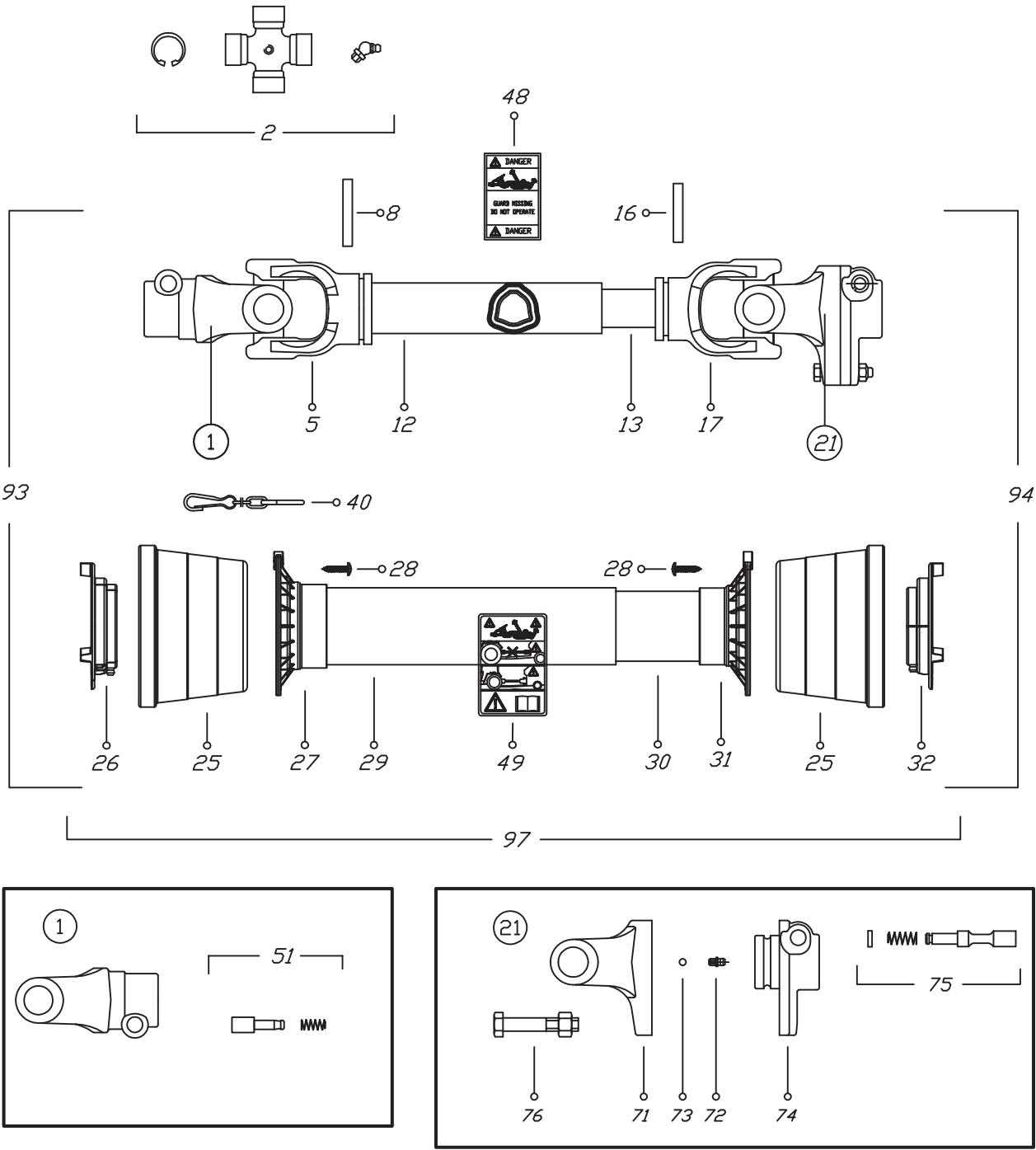


Cable Pulley Assembly

Item No.	Part No.	Description	QTY
1	5017W012	Frame, Mid Pulley	1
2	5017W011	Cable Guide	1
3	5011L647	Washer, Pulley Spacer - Narrow	2
4	5017L050	Pulley Bolt, Spacer	2
5	5017M016	Cable Pulley	1
6	5017M017	Pulley Bushing	1
7	Z21201	Ball Bearing, 6305-2RS	1
8	Z71735	Hex Bolt, 3/4NC x 3-1/2"	1
9	Z72271	Hex Lock Nut, 3/4NC	1
10	Z73171	SAE Washer, 3/4"	2



PTO Shaft



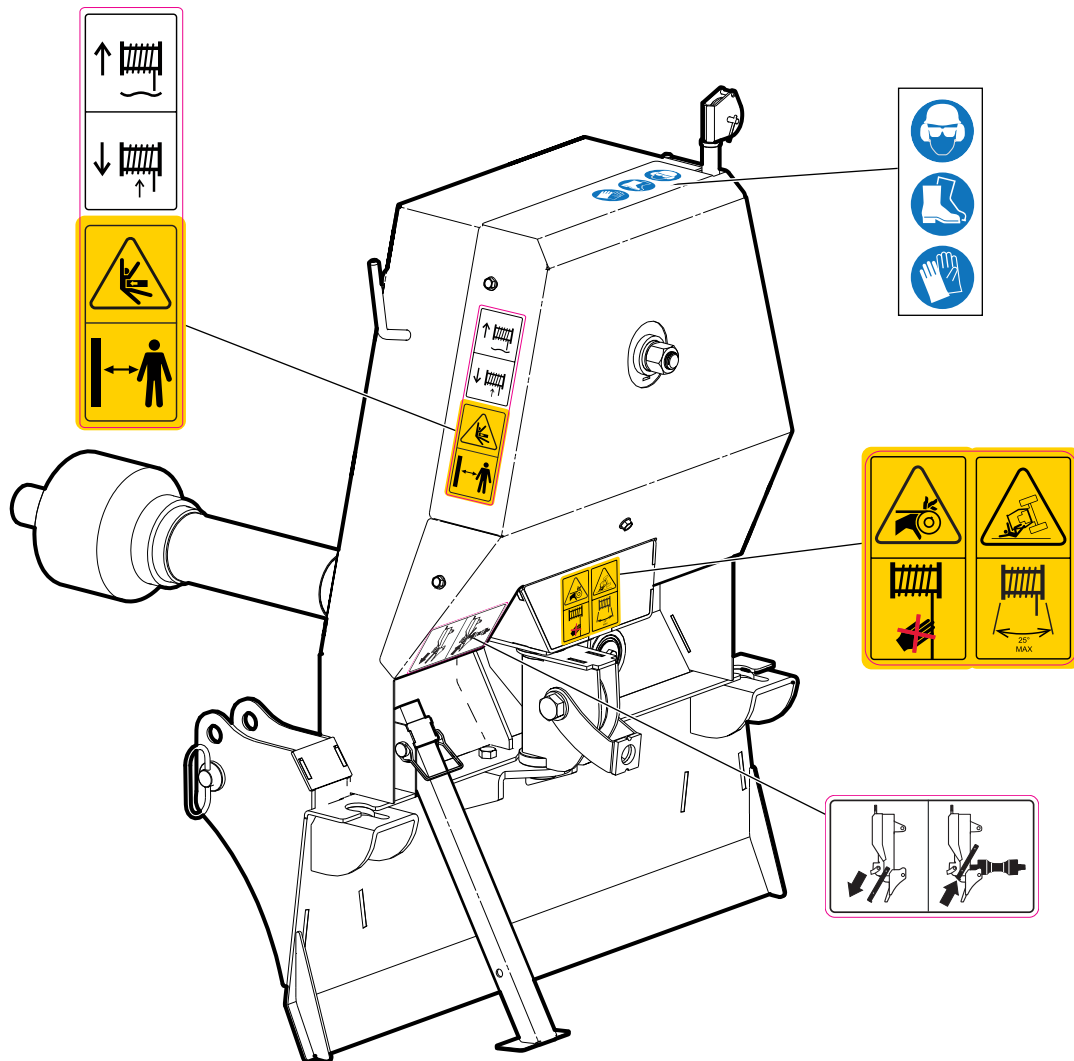
PTO Shaft – P/N Z44402

Item.	Description	Qty.	Part Number	Item.	Description	Qty.	Part Number
1	YOKE	1	0800403	31	INNER BASE CONE 03-04	1	025404C002
2	CROSS JOURNAL ASS.	2	08204	32	INNER BEARING 03-04	1	025504C002
5	OUTER TUBE YOKE	1	08004021	40	CHAIN	1	0252000001
8	FLEXIBLE PIN	1	098700860	48	LABEL DANGER OUTER DRIVE TUBE	1	09872006
12	CM. 100 CARDAN TUBE(*)	1	09881433100	49	EXTERNAL SHIELD LABEL	1	09872003
13	CM. 100 CARDAN TUBE(*)	1	09881364100	51	COMPLETE PUSH BUTTTON	1	0986014047
16	FLEXIBLE PIN	1	098700855	71	YOKE FOR LB4	1	08896904
17	INNER TUBE YOKE	1	08004011	72	GREASE NIPPLE	1	0984010150
21	SHEAR BOLT M8X1.25X45	1	Z44902	73	STEEL BALL	23	098680104
25	CONE SHIELD BELL 03-04	2	021904C001	74	HUB	1	088964
26	OUTER BEARING 03-04	1	025504C001	75	PUSH PIN SET	1	0986014075
27	OUTER BASE CONE 03-04	1	025404C001	76	NUT AND SHEARBOLT M8 x 1.25 x 45	1	Z44902
28	SCREW	6	0998052242	93	OUTER HALF SHAFT	1	B4N061US2
29	OUTER SAFETY TUBE	1	0988966NB4061	94	INNER HALF SHAFT	1	B4N061US1098
30	INNER SAFETY TUBE	1	0988961NB4061	97	SAFETY GUARD	1	083US04061

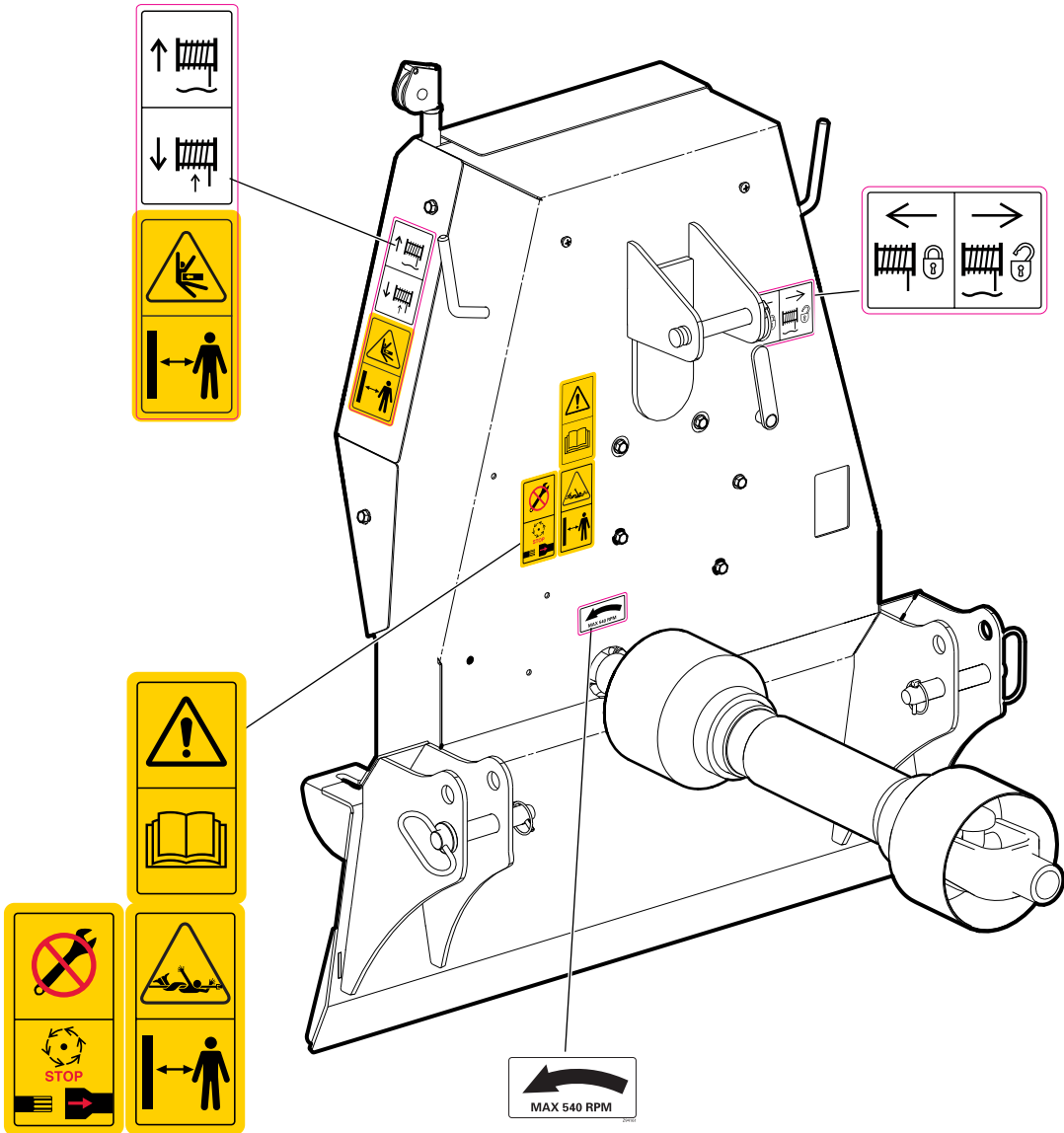
Decal Layout

IMPORTANT! If parts are replaced that have safety signs on them, new signs must be applied. Safety signs must always be replaced if they become damaged, are removed, or become illegible.

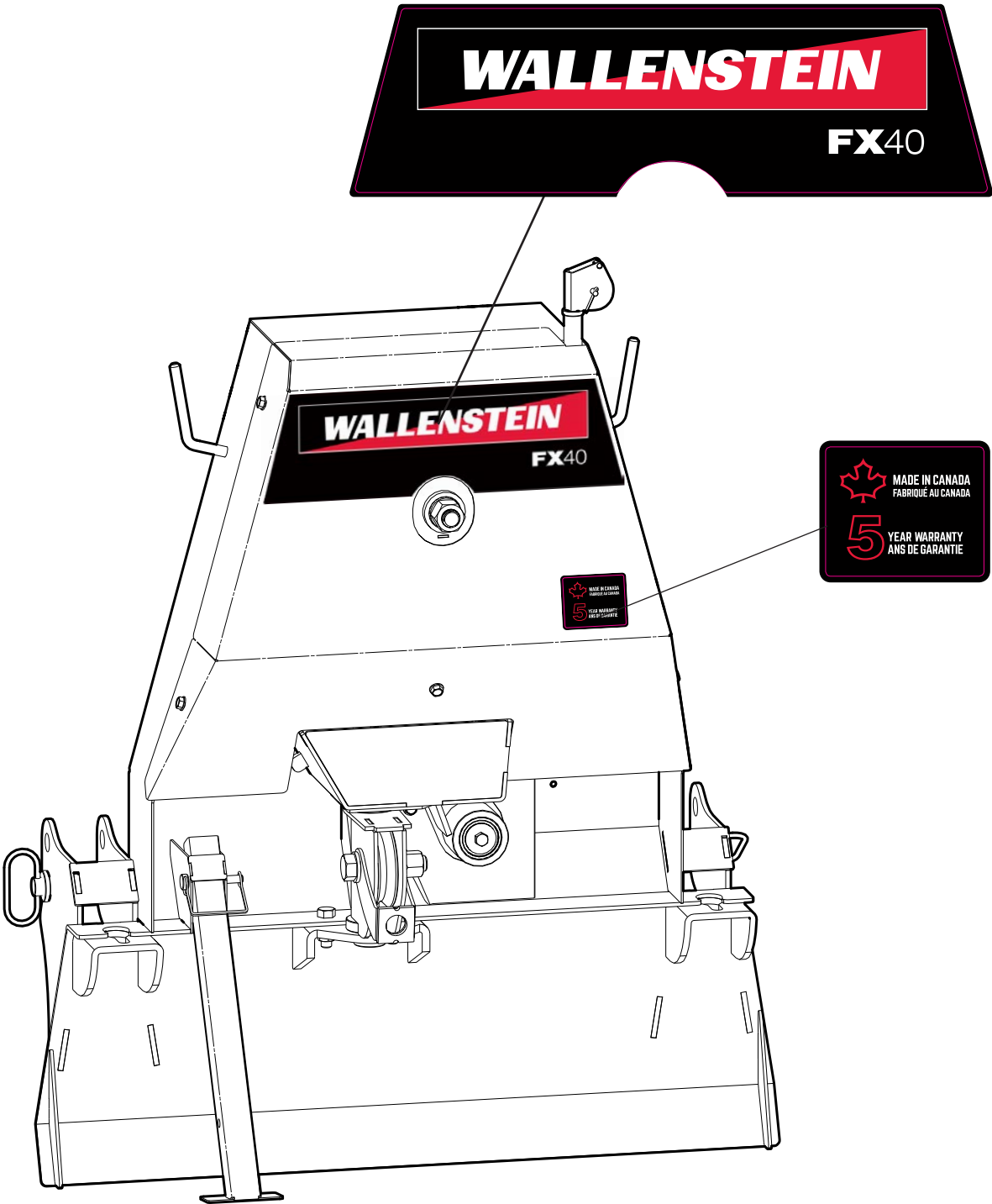
Safety signs are included in the product decal kit available from your authorized dealer. Decals are not available separately.



Decal Layout



Decal Layout



Common Bolt Torque Values

Checking Bolt Torque

The tables shown give correct torque values for various bolts and capscrews. Tighten all bolts to the torque values specified in the table, unless indicated otherwise. Check tightness of bolts periodically.

IMPORTANT! If replacing hardware, use fasteners of the same grade.

IMPORTANT! Torque figures indicated in the table are for non-greased or non-oiled threads. Do not grease or oil threads unless indicated otherwise. When using a thread locker, increase torque values by 5%.



NOTE: Bolt grades are identified by their head markings.

Imperial Bolt Torque Specifications

Bolt Diameter	Torque Value					
	SAE Gr. 2		SAE Gr. 5		SAE Gr. 8	
	lbf•ft	N•m	lbf•ft	N•m	lbf•ft	N•m
1/4"	6	8	9	12	12	17
5/16"	10	13	19	25	27	36
3/8"	20	27	33	45	45	63
7/16"	30	41	53	72	75	100
1/2"	45	61	80	110	115	155
9/16"	60	95	115	155	165	220
5/8"	95	128	160	215	220	305
3/4"	165	225	290	390	400	540
7/8"	170	230	420	570	650	880
1"	225	345	630	850	970	1320



SAE Gr. 2



SAE Gr. 5



SAE Gr. 8

Metric Bolt Torque Specifications

Bolt Diameter	Torque Value			
	Gr. 8.8		Gr. 10.9	
	lbf•ft	N•m	lbf•ft	N•m
M3	0.4	0.5	1.3	1.8
M4	2.2	3	3.3	4.5
M6	7	10	11	15
M8	18	25	26	35
M10	37	50	52	70
M12	66	90	92	125
M16	166	225	229	310
M20	321	435	450	610
M30	1,103	1 495	1,550	2 100
M36	1,917	2 600	2,700	3 675



8.8



10.9