

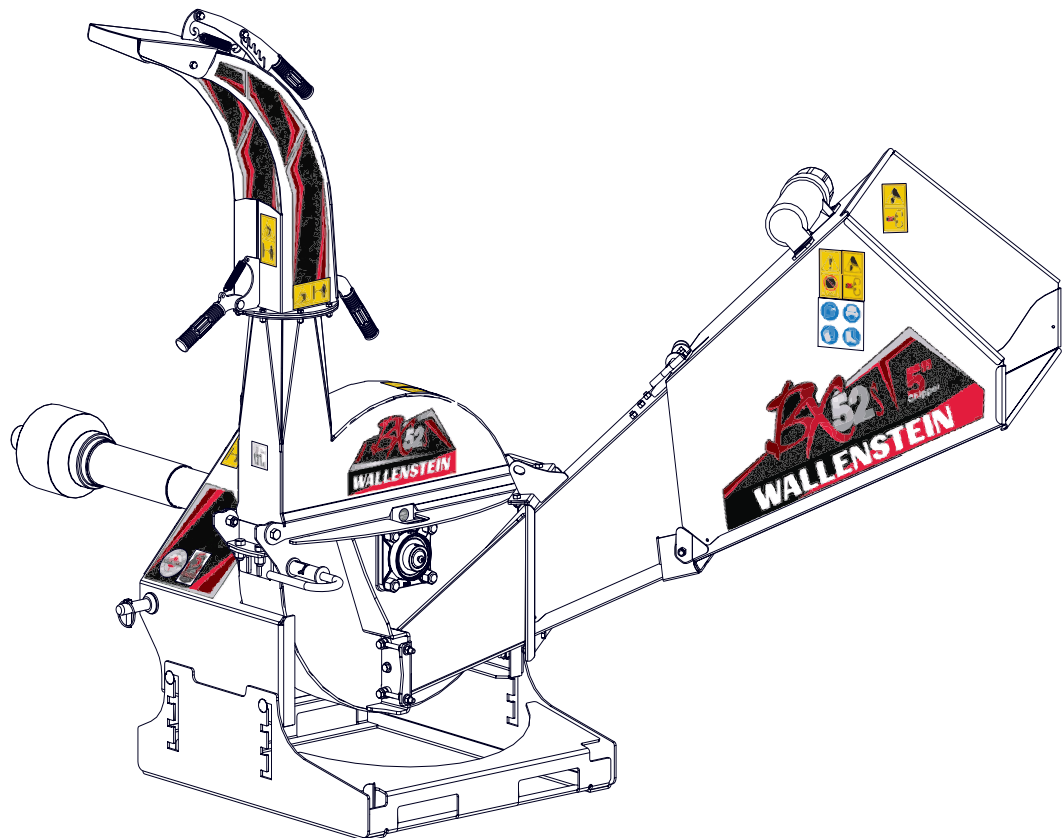


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BX52S 3PH Self Feed Chipper

Parts Manual

Starting with S/N 152S00002



Refer to the operators
manual for safe
operation and
maintenance



1024T100 BX52S Rev A Parts Book.280515
Rev A 120416

Foreword

EMB Mfg. has prepared this parts manual to assist customers in ordering quality OEM replacement parts.

Proper and regular service and replacing old, worn or broken parts with the correct OEM parts are essential to prolonging the life of your EMB product. Please refer to this manual before ordering any replacement parts.

All information contained in this parts manual is based on the latest product specification available at the time of printing this manual. If your product differs from the specifications contained within this manual contact EMB Mfg. for information.

EMB reserves the right to alter specifications on their products at any time.

Reproduction of this parts manual of any kind is prohibited without prior written permission from EMB Mfg.

For parts and information please contact your dealer. If your dealer is no longer available please go to our website: <http://www.wallensteinequipment.com> and click on "FIND A DEALER NEAR YOU" for information on a local dealer.

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Maintenance should be performed by
trained personnel only.



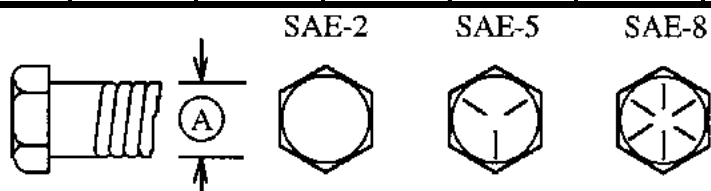
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Bolt Torque**CHECKING BOLT TORQUE**

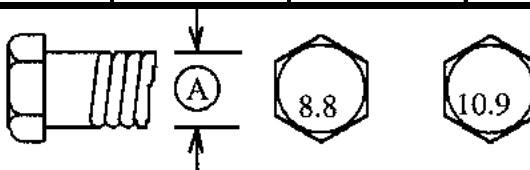
The tables shown below give correct torque values for various bolts and capscrews. Tighten all bolts to the torques specified in chart unless otherwise noted. Check tightness of bolts periodically, using bolt torque chart as a guide. Replace hardware with the same strength bolt.

ENGLISH TORQUE SPECIFICATIONS

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

**METRIC TORQUE SPECIFICATIONS**

Bolt Diameter "A"	Bolt Torque*			
	8.8 (N.m) (lb-ft)		10.9 (N.m) (lb-ft)	
M3	0.5	0.4	1.8	1.3
M4	3	2.2	4.5	3.3
M5	6	4	9	7
M6	10	7	15	11
M8	25	18	35	26
M10	50	37	70	52
M12	90	66	125	92
M14	140	103	200	148
M16	225	166	310	229
M20	435	321	610	450
M24	750	553	1050	774
M30	1495	1103	2100	1550
M36	2600	1917	3675	2710



Torque figures indicated above are valid for non-greased or non-oiled threads and heads unless otherwise specified. Therefore, do not grease or oil bolts or capscrews unless otherwise specified in this manual. When using locking elements, increase torque values by 5%.

* Torque value for bolts and capscrews are identified by their head markings.

Hydraulic Fitting Torque

Tightening Flare Type Tube Fittings *

1. Check flare and flare seat for defects that might cause leakage.
2. Align tube with fitting before tightening.
3. Lubricate connection and hand tighten swivel nut until snug.
4. To prevent twisting the tube(s), use two wrenches. Place one wrench on the connector body and with the second tighten the swivel nut to the torque shown.

Tube Size OD	Nut Size Across Flats	Torque Value•		Recommended Turns To Tighten (After Finger Tightening)	
		(N.m)	(lb-ft)	(Flats)	(Turn)
3/16	7/16	8	6	1	1/6
1/4	9/16	12	9	1	1/6
5/16	5/8	16	12	1	1/6
3/8	11/16	24	18	1	1/6
1/2	7/8	46	34	1	1/6
5/8	1	62	46	1	1/6
3/4	1-1/4	102	75	3/4	1/8
7/8	1-3/8	122	90	3/4	1/8

The torque values shown are based on lubricated connections as in reassembly.

Wheel Lug Torque

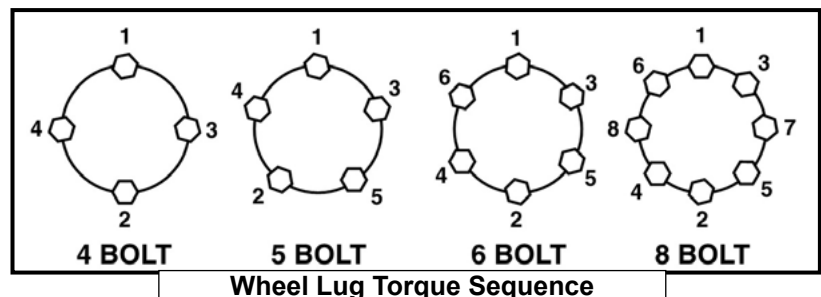
It is extremely important safety procedure to apply and maintain proper wheel mounting torque on your trailer axle. Torque wrenches are the best method to assure the proper amount of torque is being applied to a fastener.

Wheel lugs should be torqued before first road use and after each wheel removal. Check and re torque after the first 16Km (10 miles), 40Km (25 miles), and again at 80Km (50 miles). Check periodically thereafter.

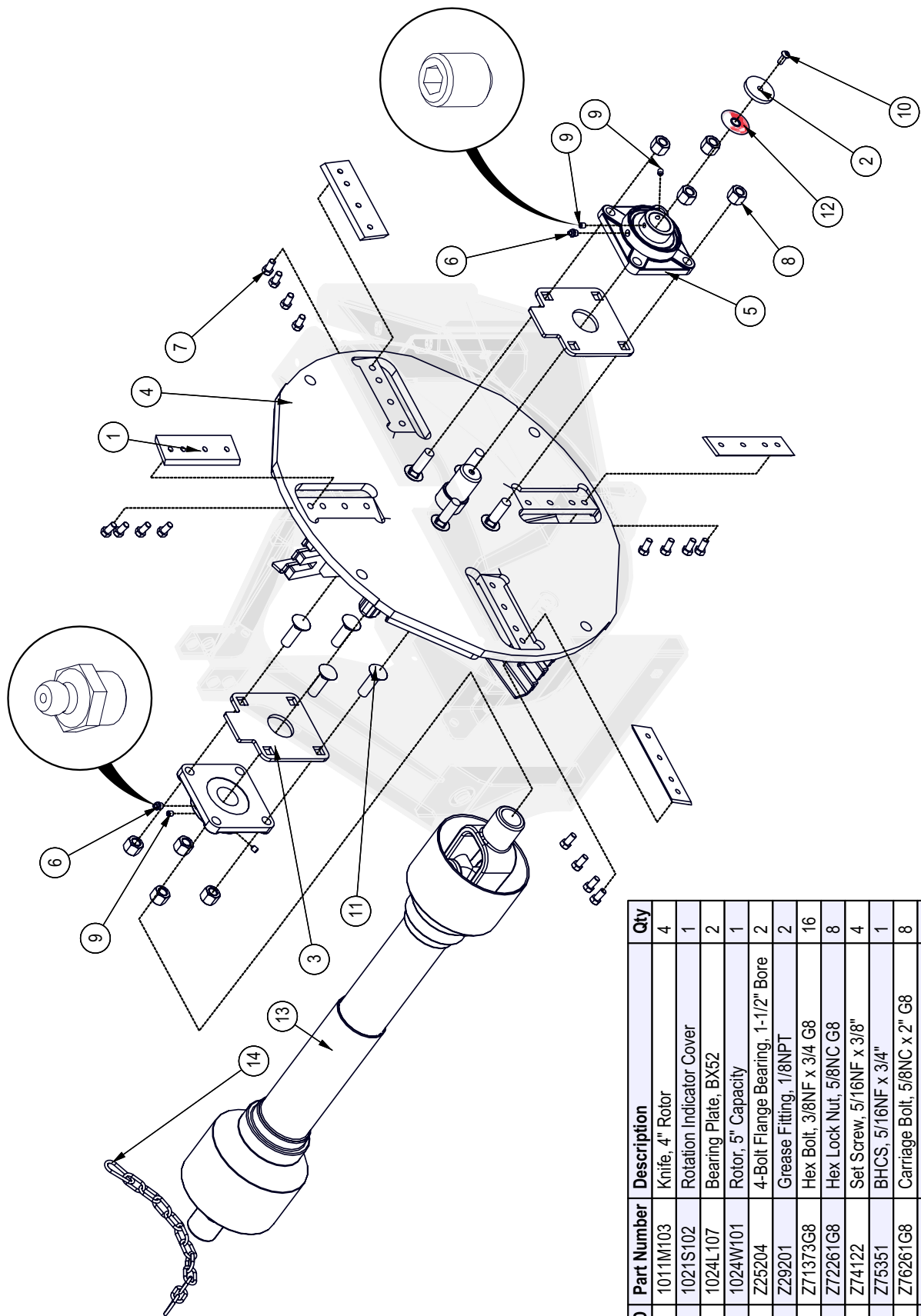
Note: Wheel lugs must be applied and maintained at the proper torque levels to prevent loose wheels, broken studs, and possible dangerous separation of wheels from your axle.

- Start all lugs by hand to prevent cross threading.
- Tighten lugs in sequence, per wheel lug torque sequence chart.
- The tightening of the fasteners should be done in stages. Following the recommended sequence, tighten fasteners per wheel torque requirements chart.

Wheel Torque Requirements				
Wheel Size	Torque Unit	1st Stage	2nd Stage	3rd Stage
8"	ft-lbs	12 - 20	30 - 35	45 - 55
	Nm	16 - 26	39 - 45.5	58.5 - 71.5
12"	ft-lbs	20 - 25	35 - 40	50 - 60
	Nm	26 - 32.5	45.5 - 52	65 - 78
13"	ft-lbs	20 - 25	35 - 40	50 - 60
	Nm	26 - 32.5	45.5 - 52	65 - 78
14"	ft-lbs	20 - 25	50 - 60	90 - 120
	Nm	26 - 32.5	65 - 78	117 - 156
15"	ft-lbs	20 - 25	50 - 60	90 - 120
	Nm	26 - 32.5	65 - 78	117 - 156
16"	ft-lbs	20 - 25	50 - 60	90 - 120
	Nm	26 - 32.5	65 - 78	117 - 156



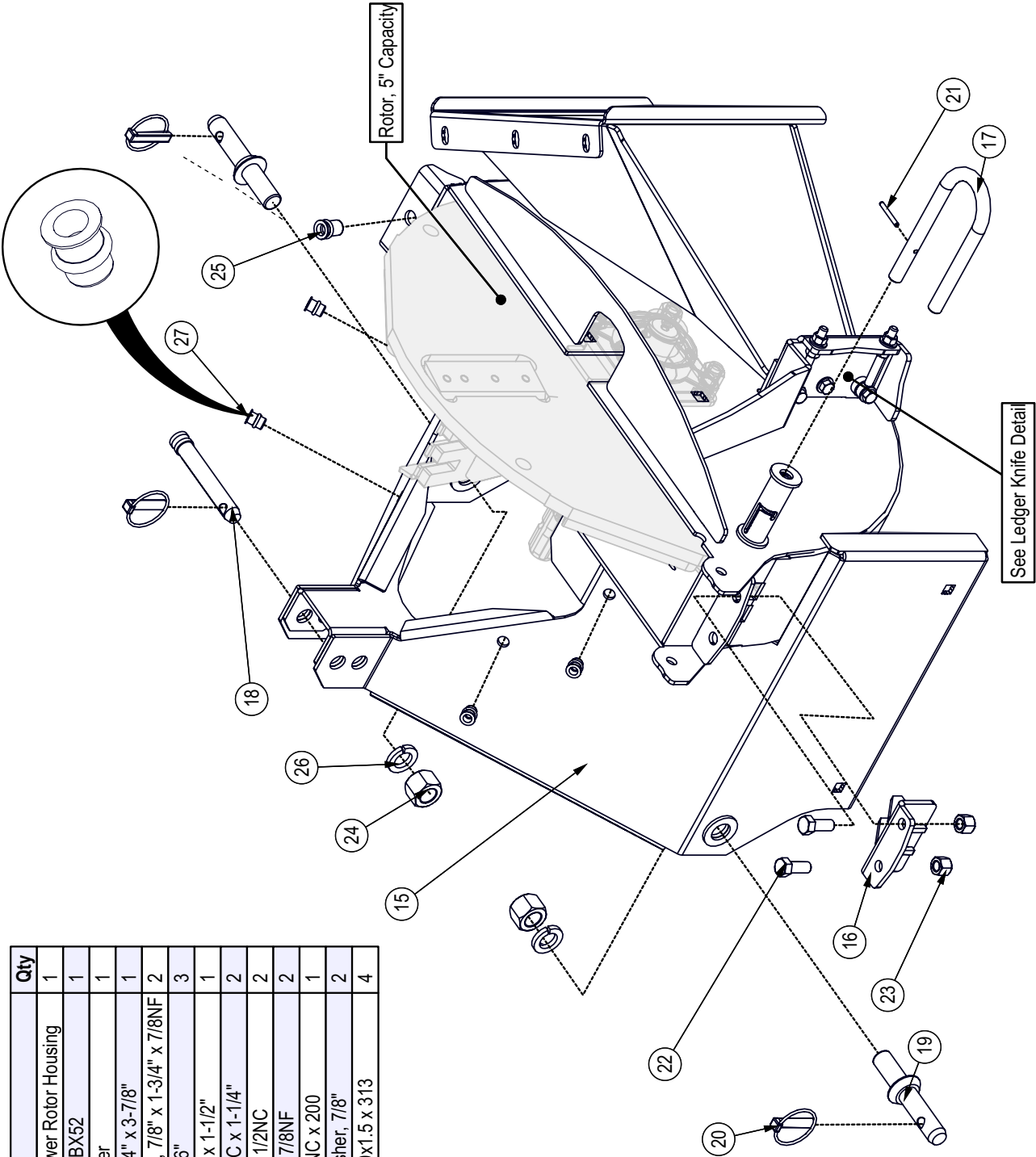
Rotor Assembly



BOM ID	Part Number	Description	Qty
1	1011M103	Knife, 4" Rotor	4
2	1021S102	Rotation Indicator Cover	1
3	1024L107	Bearing Plate, BX52	2
4	1024W101	Rotor, 5" Capacity	1
5	Z25204	4-Bolt Flange Bearing, 1-1/2" Bore	2
6	Z29201	Grease Fitting, 1/8NPT	2
7	Z71373G8	Hex Bolt, 3/8NF x 3/4 G8	16
8	Z72261G8	Hex Lock Nut, 5/8NC G8	8
9	Z74122	Set Screw, 5/16NF x 3/8"	4
10	Z75351	BHCS, 5/16NF x 3/4"	1
11	Z76261G8	Carriage Bolt, 5/8NC x 2" G8	8
12	Z94208	Clockwise Rotation Label	1
13	Z44504	#5 Global PTO Shaft M10 Shear	1
14	Z92310	Chain 3/16" x 12" double hook ends	1

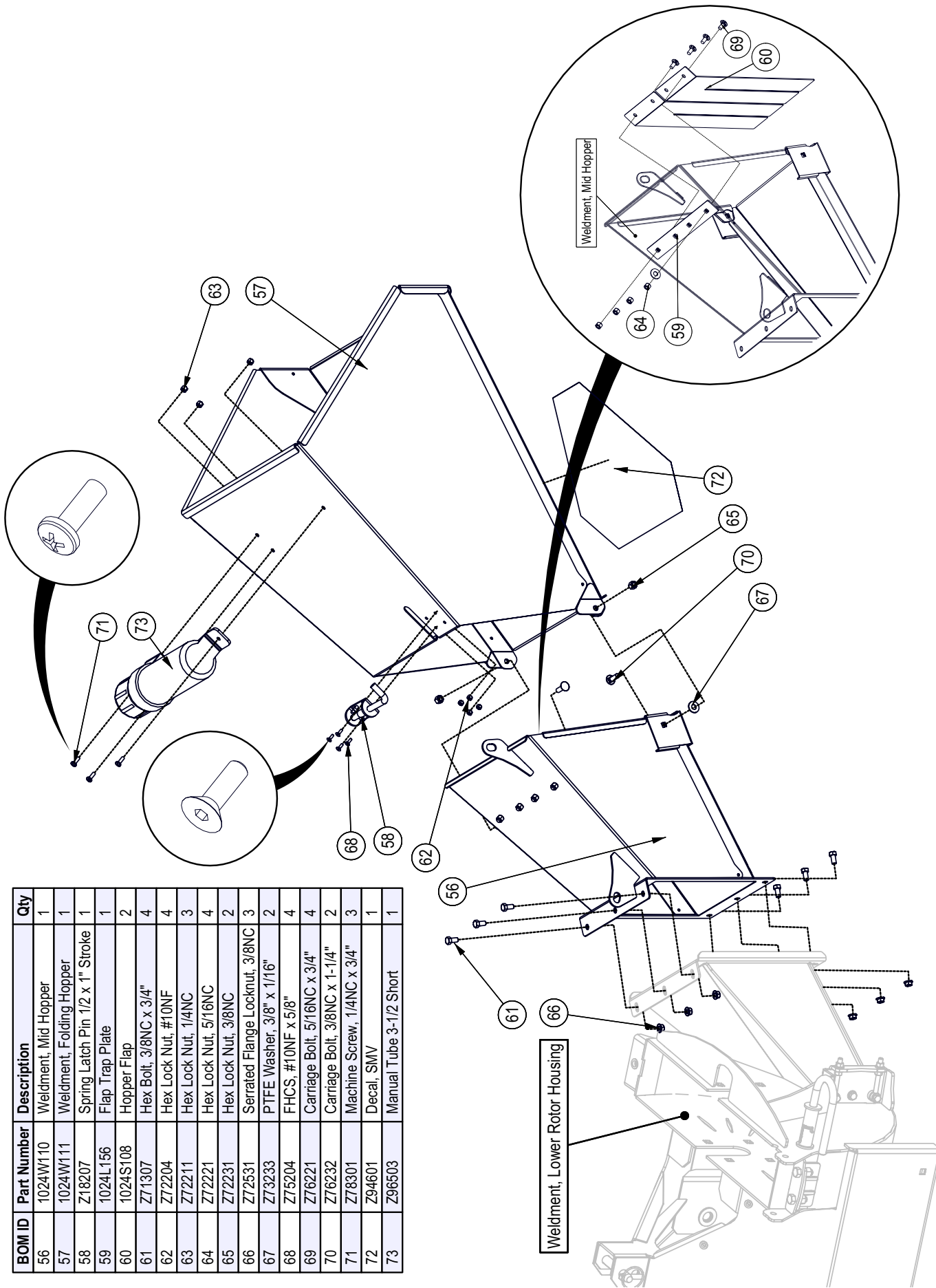
Lower Rotor Housing

BOM ID	Part Number	Description	Qty
15	1024W102	Weldment, Lower Rotor Housing	1
16	1024W103	Twig Breaker, BX52	1
17	1082M402	Locking Plunger	1
18	Z11122	Toplink Pin, 3/4" x 3-7/8"	1
19	Z11431	Implement Pin, 7/8" x 1-3/4" x 7/8NF	2
20	Z12140	Lynch Pin, 7/16"	3
21	Z14151	Roll Pin, 3/16" x 1-1/2"	1
22	Z71512	Hex Bolt, 1/2NC x 1-1/4"	2
23	Z72251	Hex Lock Nut, 1/2NC	2
24	Z72282	Hex Lock Nut, 7/8NF	2
25	Z72960	Rivet Nut, 1/2NC x 200	1
26	Z73381	Split Lock Washer, 7/8"	2
27	Z77940	Rivet Nut, M10x1.5 x 313	4

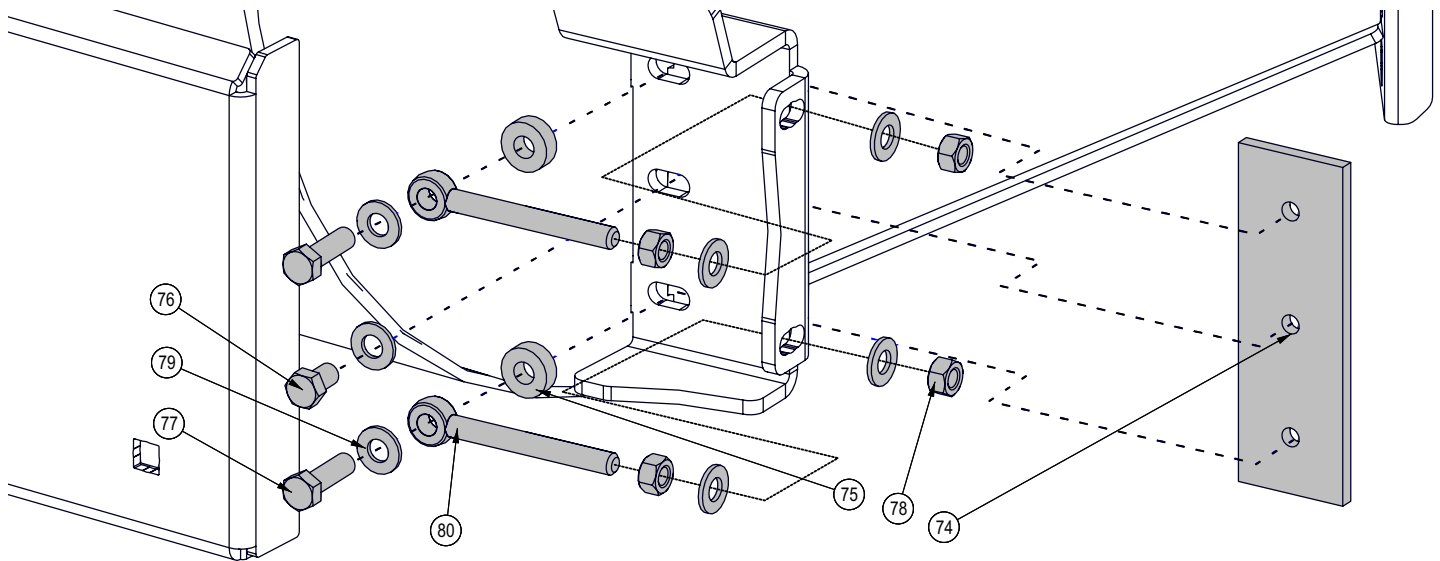


Feed Chute

BOM ID	Part Number	Description	Qty
56	1024W110	Weldment, Mid Hopper	1
57	1024W111	Weldment, Folding Hopper	1
58	Z18207	Spring Latch Pin 1/2 x 1" Stroke	1
59	1024L156	Flap Trap Plate	1
60	1024S108	Hopper Flap	2
61	Z71307	Hex Bolt, 3/8NC x 3/4"	4
62	Z72204	Hex Lock Nut, #10NF	4
63	Z72211	Hex Lock Nut, 1/4NC	3
64	Z72221	Hex Lock Nut, 5/16NC	4
65	Z72231	Hex Lock Nut, 3/8NC	2
66	Z72531	Serrated Flange Locknut, 3/8NC	3
67	Z73233	PTFE Washer, 3/8" x 1/16"	2
68	Z75204	FHCS, #10NF x 5/8"	4
69	Z76221	Carriage Bolt, 5/16NC x 3/4"	4
70	Z76232	Carriage Bolt, 3/8NC x 1-1/4"	2
71	Z78301	Machine Screw, 1/4NC x 3/4"	3
72	Z94601	Decal, SMV	1
73	Z96503	Manual Tube 3-1/2 Short	1



Ledger Knife Detail

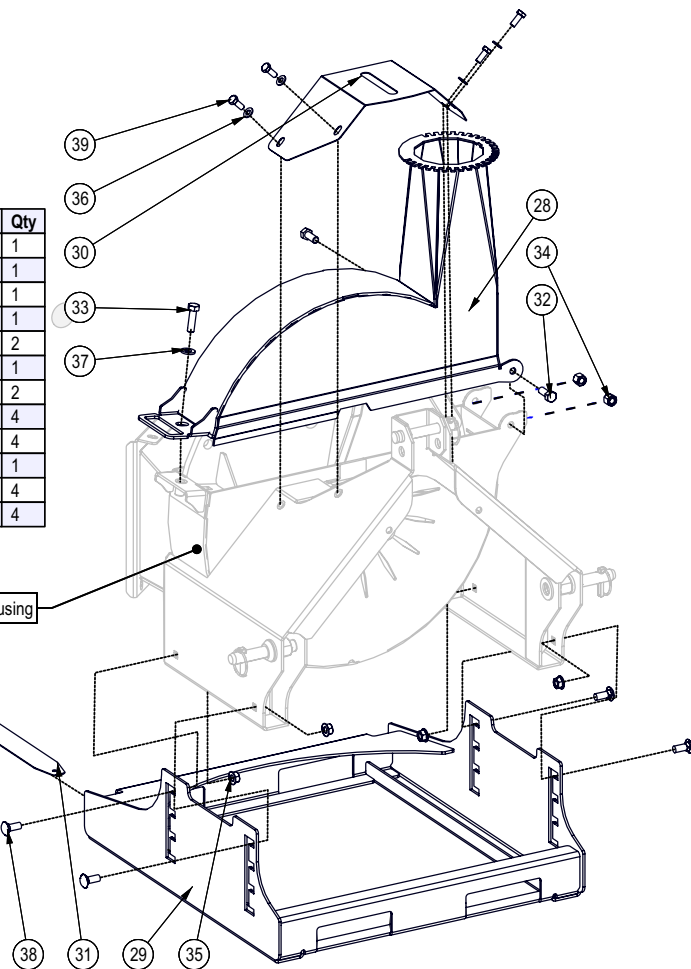


BOM ID	Part Number	Description	Qty
74	1011M104	Knife, 4" Ledger	1
75	1024L124	Ledger Washer	2
76	Z71372G8	Hex Bolt, 3/8NF x 5/8" G8	1
77	Z71379G8	Hex Bolt, 3/8NF x 1-1/4" G8	2
78	Z72131	Hex Nut, 3/8NC	4
79	Z73131	SAE Washer, 3/8"	7
80	Z76534	Rod End, 3/8NC x 3-1/2"	2

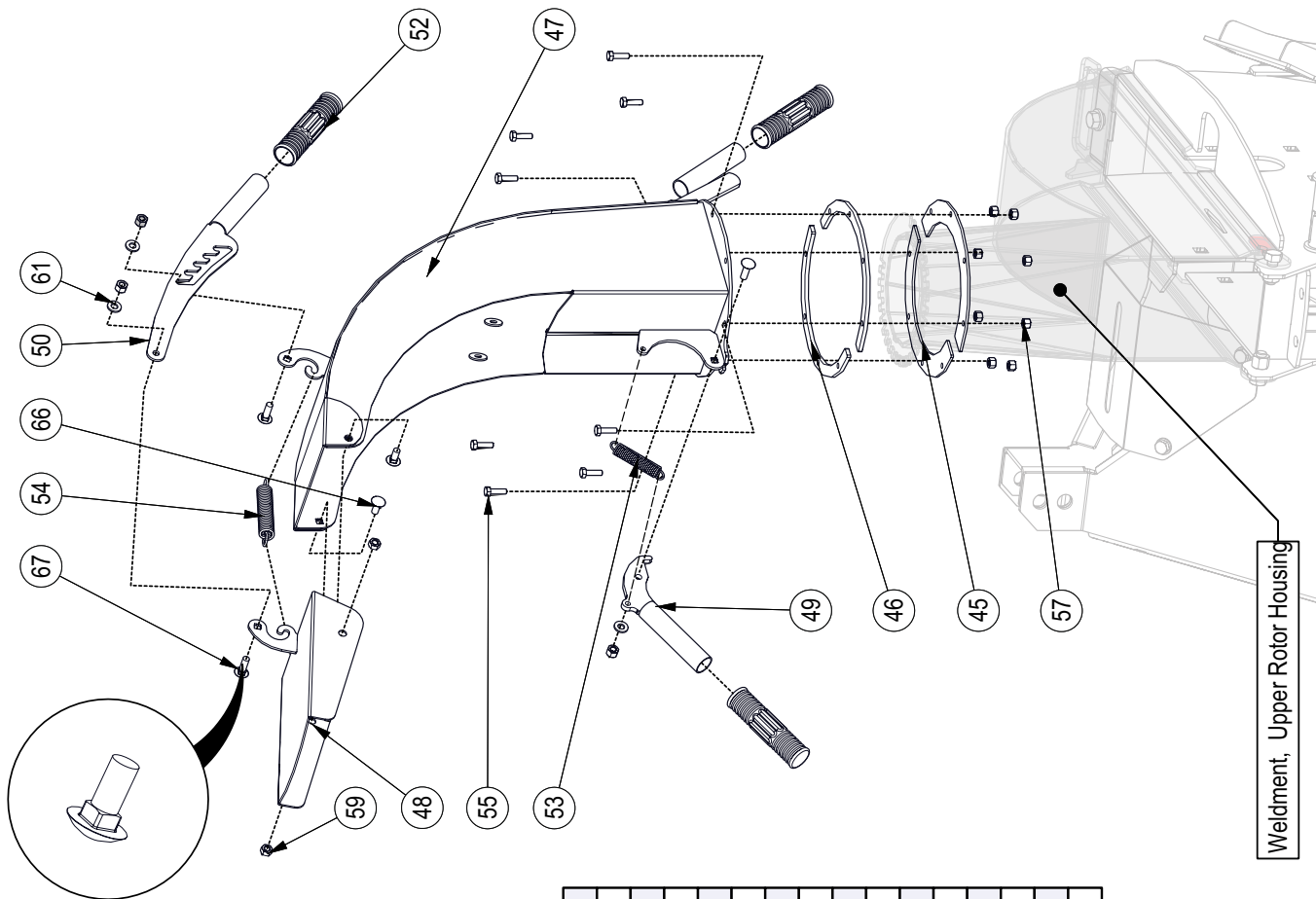
Upper Rotor Housing

BOM ID	Part Number	Description	Qty
28	1024W104	Weldment, Upper Rotor Housing	1
29	1024W105	Adjustable Ski Base	1
30	1024L154	PTO Guard	1
31	1024L161	Gauge, Ledger Setting	1
32	Z71512	Hex Bolt, 1/2NC x 1-1/4"	2
33	Z71517	Hex Bolt, 1/2NC x 1-3/4"	1
34	Z72251	Hex Lock Nut, 1/2NC	2
35	Z72551	Serrated Flange Locknut, 1/2NC	4
36	Z73131	SAE Washer, 3/8"	4
37	Z73151	SAE Washer, 1/2"	1
38	Z76259	Carriage Bolt, 1/2NC x 1-1/4"	4
39	Z77162	Hex Bolt, M10x1.5 x 25mm	4

Weldment, Lower Rotor Housing



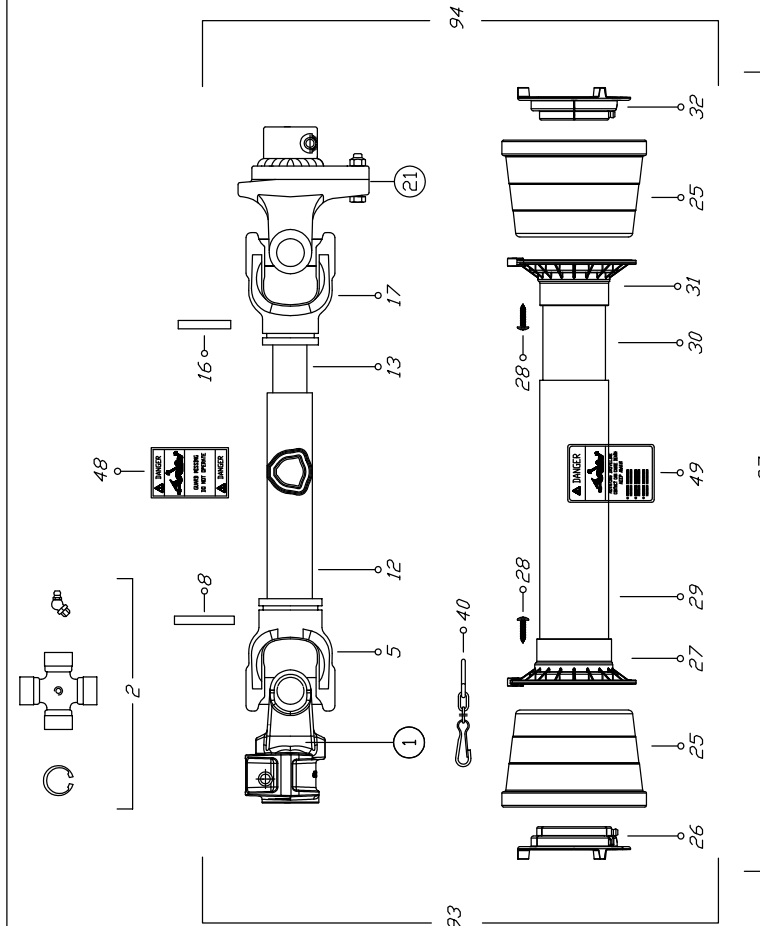
Discharge Chute



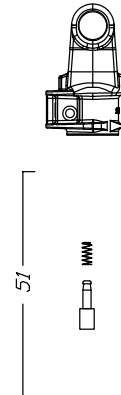
BOM ID	Part No.	Description	Qty
45	1024L 133	Hood Capture Ring	2
46	1024L 134	Spacer Ring	2
47	1024W106	Weldment, Discharge Chute	1
48	1024W107	Weldment, Discharge Deflector	1
49	1024W108	Weldment, Discharge Latch	1
50	1024W109	Weldment, Discharge Adjustor	1
52	Z19321	Grip, 1" x 5"	3
53	Z31305	Ext Spring, 5/8" OD x 3" x 0.08"	1
54	Z31401	Ext Spring, 3/4" OD x 4" x 0.105"	1
55	Z71108	Hex Bolt, 1/4NC x 7/8"	8
56	Z72211	Hex Lock Nut, 1/4NC	8
59	Z72221	Hex Lock Nut, 5/164NC	2
61	Z73122	SAE Washer, 5/16"	3
66	Z76221	Carriage Bolt, 5/16NC x 0.75"	2
67	Z76225	Carriage Bolt, 5/16NC x 1"	3

Binacchi SPARE PARTS LIST : B5D056US098001

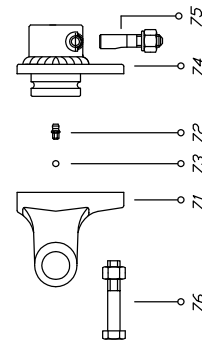
POS.	DESCRIPTION	Q.	Part #
01	YOKE	1	0800503
02	CROSS JOURNAL ASS.	2	08205
05	OUTER TUBE YOKE	1	08005021
08	FLEXIBLE PIN	1	098701075
12	CM. 100 CARDAN TUBE(*)	1	09881523100
13	CM. 100 CARDAN TUBE(*)	1	09881454100
16	FLEXIBLE PIN	1	0987001065
17	INNER TUBE YOKE	1	08005011
21	SHEAR BOLT M10X1.5X55	1	Z19407 (5 Pack)
25	CONE SHIELD BELL 05-06	2	021906C001
26	OUTER BEARING 05	1	025505C001
27	OUTER BASE CONE 05-06	1	025406C001
28	SCREW	6	0998052242
29	OUTER SAFETY TUBE	1	0988981NB5056
30	INNER SAFETY TUBE	1	0988975NB5056
31	INNER BASE CONE 05-06	1	025406C002
32	INNER BEARING 05	1	025505C002
40	CHAIN	1	0252000001
48	LABEL DANGER OUTER DRIVE TUBE	1	09872006
49	EXTERNAL SHIELD LABEL	1	09872003
51	COMPLETE PUSH BUTTTON	1	0986014047
71	YOKE FOR LB5	1	08896905
72	GREASE NIPPLE	1	0984010150
73	STEEL BALL	23	098680104
74	HUB	1	088965A60
75	PUSH PIN SET	1	0986014075
76	NUT AND BOLT M10 x 1.5 x 55 10.9	1	Z19407 (5 Pack)
93	OUTER HALF SHAFT	1	B5056US2
94	INNER HALF SHAFT	1	B5056US1098001
97	SAFETY GUARD	1	083US05056



(1)



(21)



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DATA
29/01/10

The diagram shows a BX52 snow blower with the following safety decals and signs labeled:

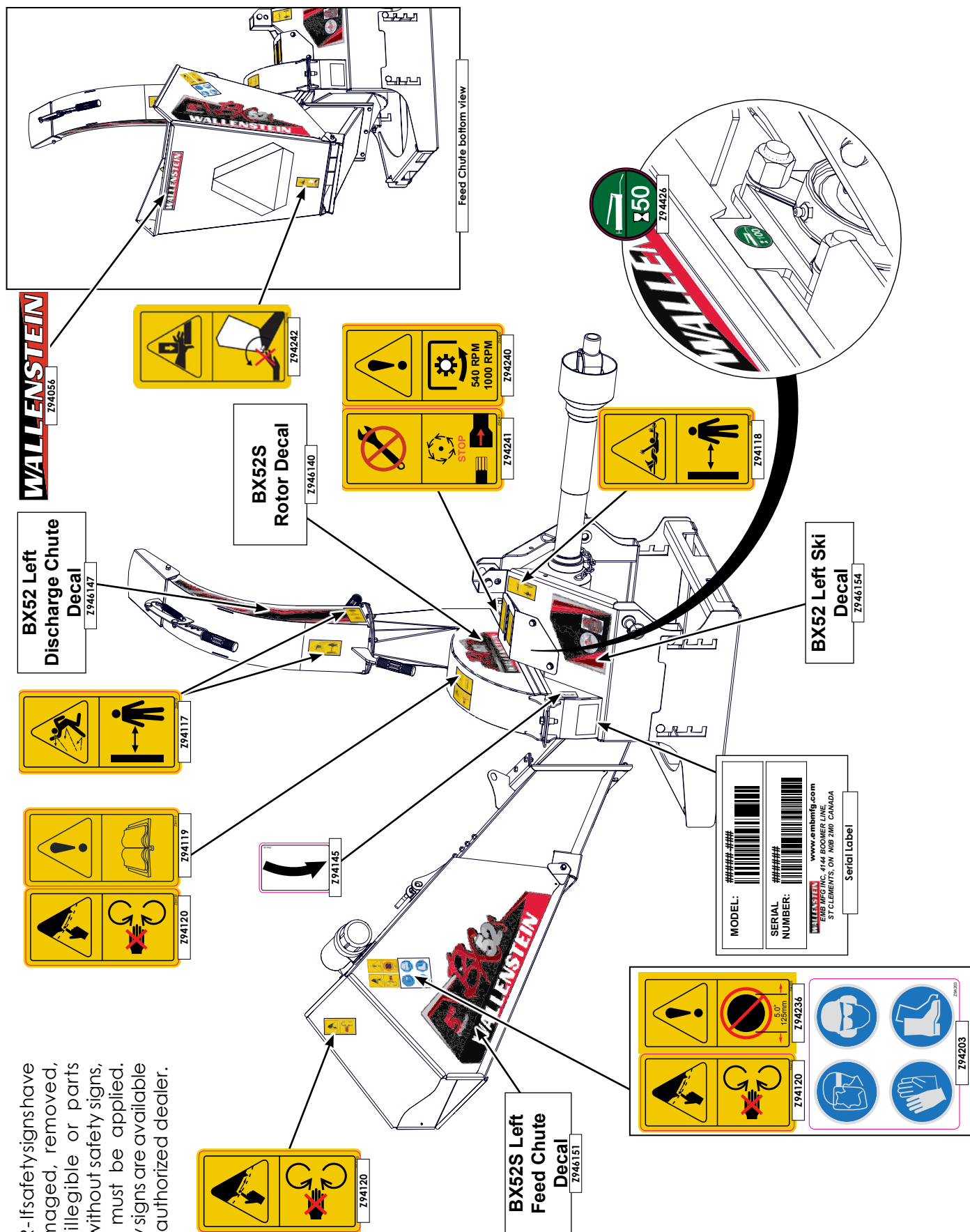
- BX52 Right Discharge Chute Decal** (Z946146)
- BX52S Rotor Decal** (Z946140)
- BX52 Right Ski Decal** (Z946153)
- BX52 Right Feed Chute Decal** (Z946150)
- 121 dB LWA** (Z94143)
- 50** (Z94426)
- Warning Signs:**
 - Z94120: Falling object and no hand near moving parts.
 - Z94236: General warning, no hand near moving parts, and dimensions (125mm, 125mm).
 - Z94120: Falling object and no hand near moving parts.
 - Z94203: Four safety icons: eye protection, foot protection, head protection, and hand protection.
 - Z94117: Falling object and pedestrian warning.
 - Z94118: Falling object and pedestrian warning.

REMEMBER - If safety signs have been damaged, removed, become illegible or parts replaced without safety signs, new signs must be applied. New safety signs are available from your authorized dealer.

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Labels - Right Side View

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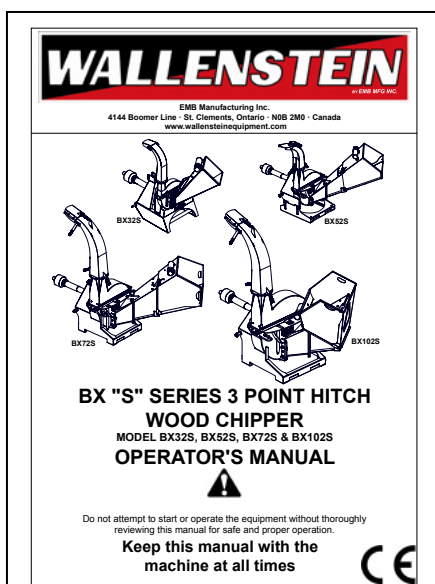
Accessories

Call your dealer for pricing and availability



#1012L269 LEDGER CLEARANCE SETTING GAUGE

An easy and accurate way of setting the critical clearances between the ledger blade and the rotor chipper blade.



#Z97085 BX "S" SERIES 3 POINT HITCH WOOD CHIPPER OPERATOR'S MANUAL

Available as a download at
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