

WALLENSTEIN

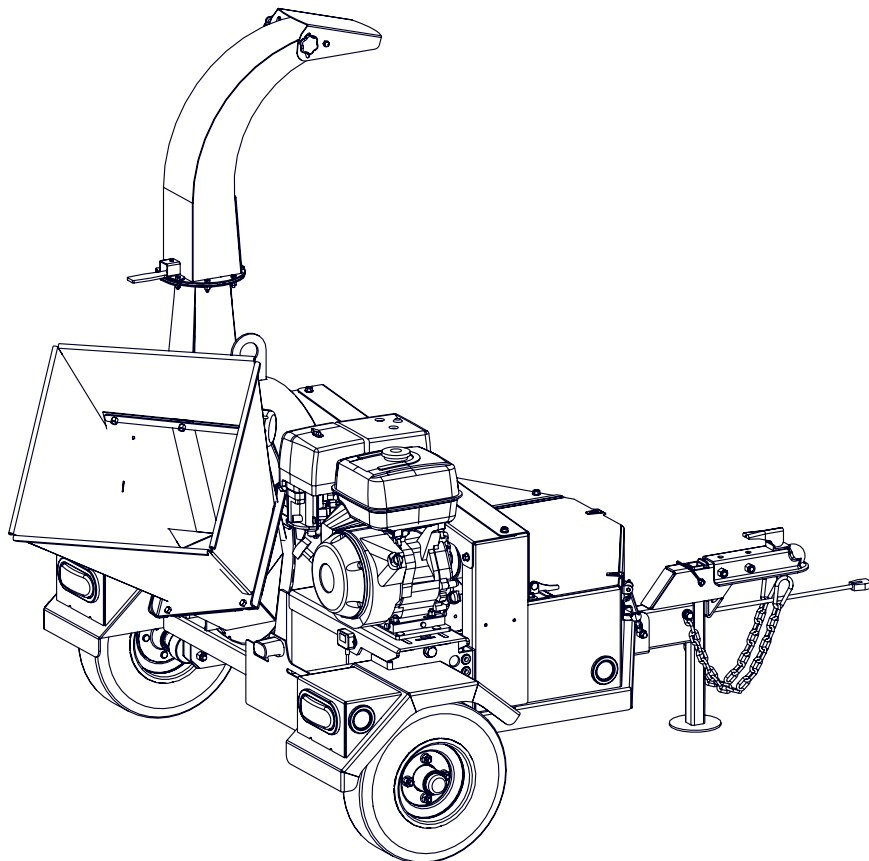
BY EMB MFG INC.

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BXT4213 Chipper S/N 2E9US1117DS030121 & After

BXT4214su Chipper S/N 2E9US111XES091177 & After

Parts Manual



Refer to the operators
manual for safe
operation and
maintenance

1052 BXT4213 BXT4214su RevF1 Parts Manual
Rev F1 080416

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.

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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.



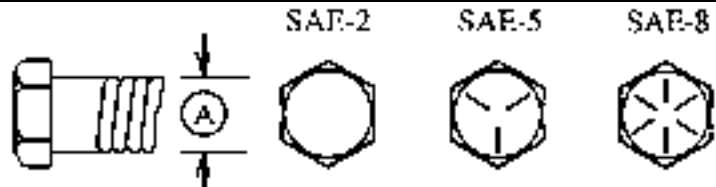
Refer to the operators
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Bolt Torque**CHECKING BOLT TORQUE**

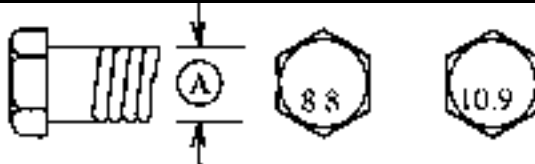
The tables shown below give correct torque values for various bolts and capscrews. Tighten all bolts to the torques specified in chart unless otherwise noted. Check tightness of bolts periodically, using bolt torque chart as a guide. Replace hardware with the same strength bolt.

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.

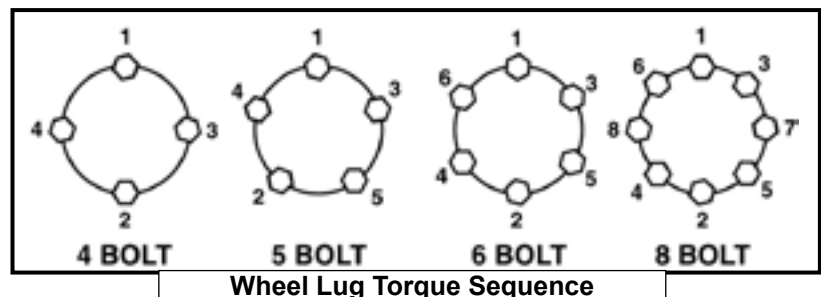
Wheel lugs should be torqued before first road use and after each wheel removal. Check and re torque after the first 16Km (10 miles), 40Km (25 miles), and again at 80Km (50 miles). Check periodically thereafter.

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.

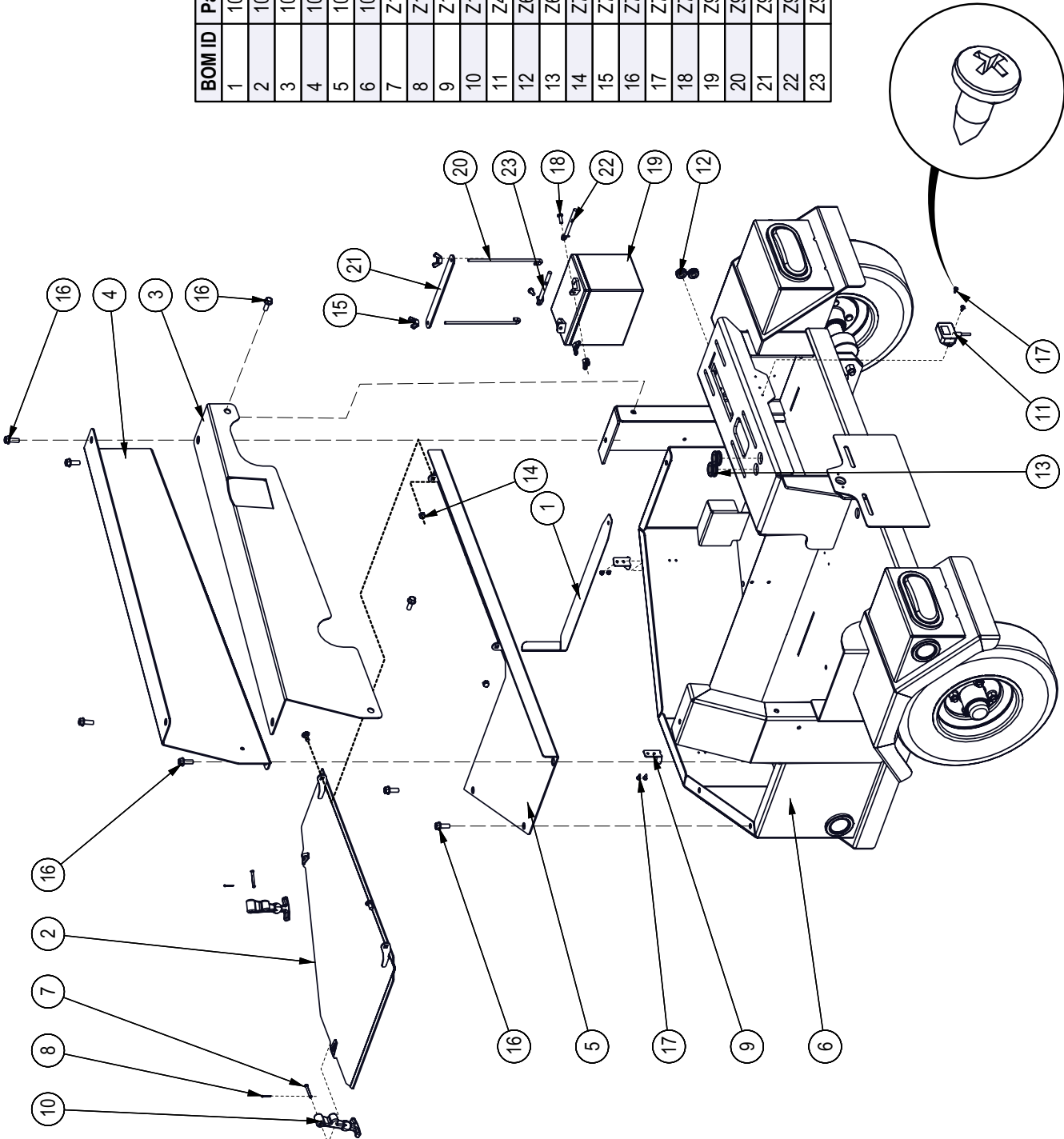
- Start all lugs by hand to prevent cross threading.
- Tighten lugs in sequence, per wheel lug torque sequence chart.
- The tightening of the fasteners should be done in stages. Following the recommended sequence, tighten fasteners per wheel torque requirements chart.

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

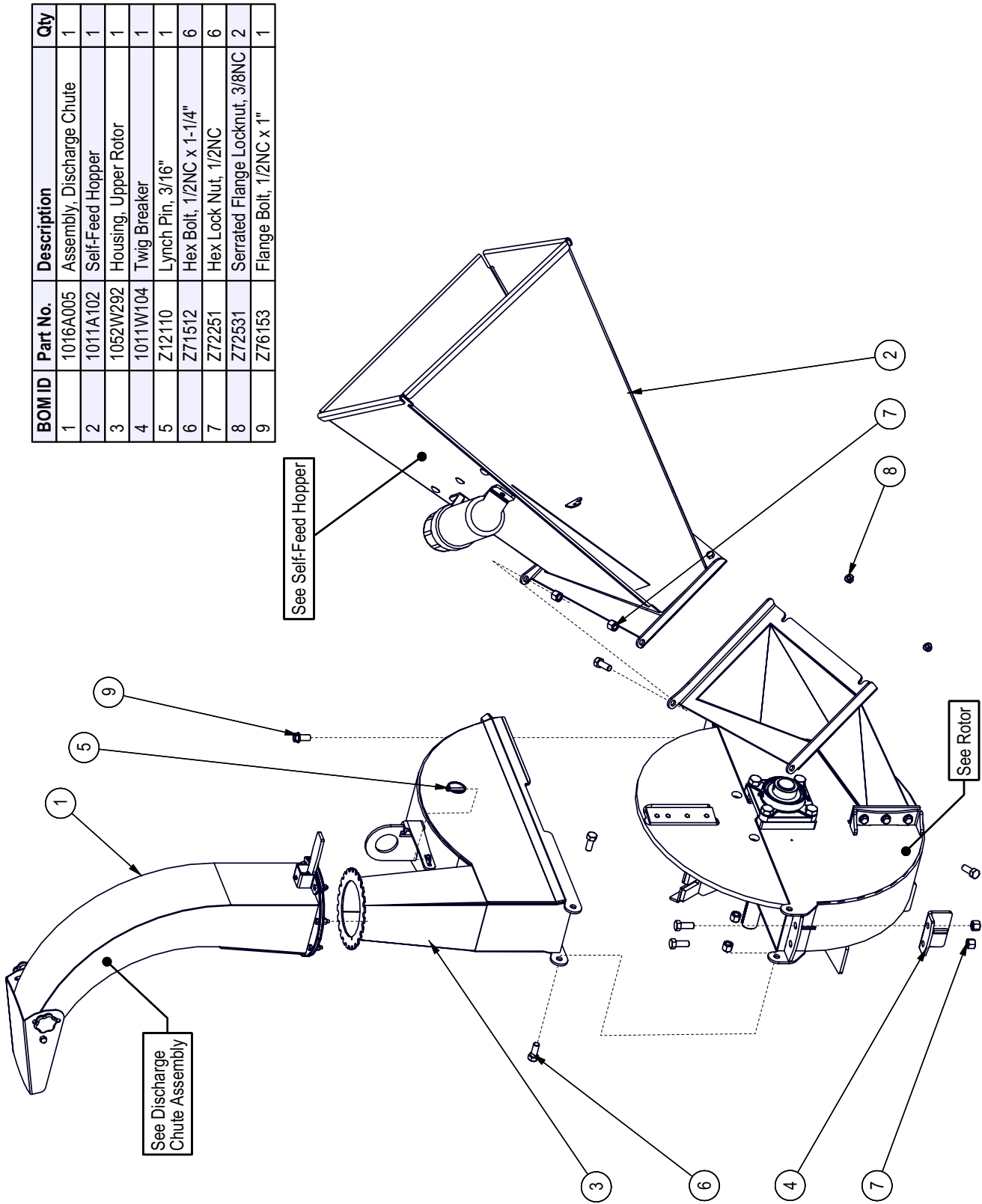


Main Frame, Guards, & Battery

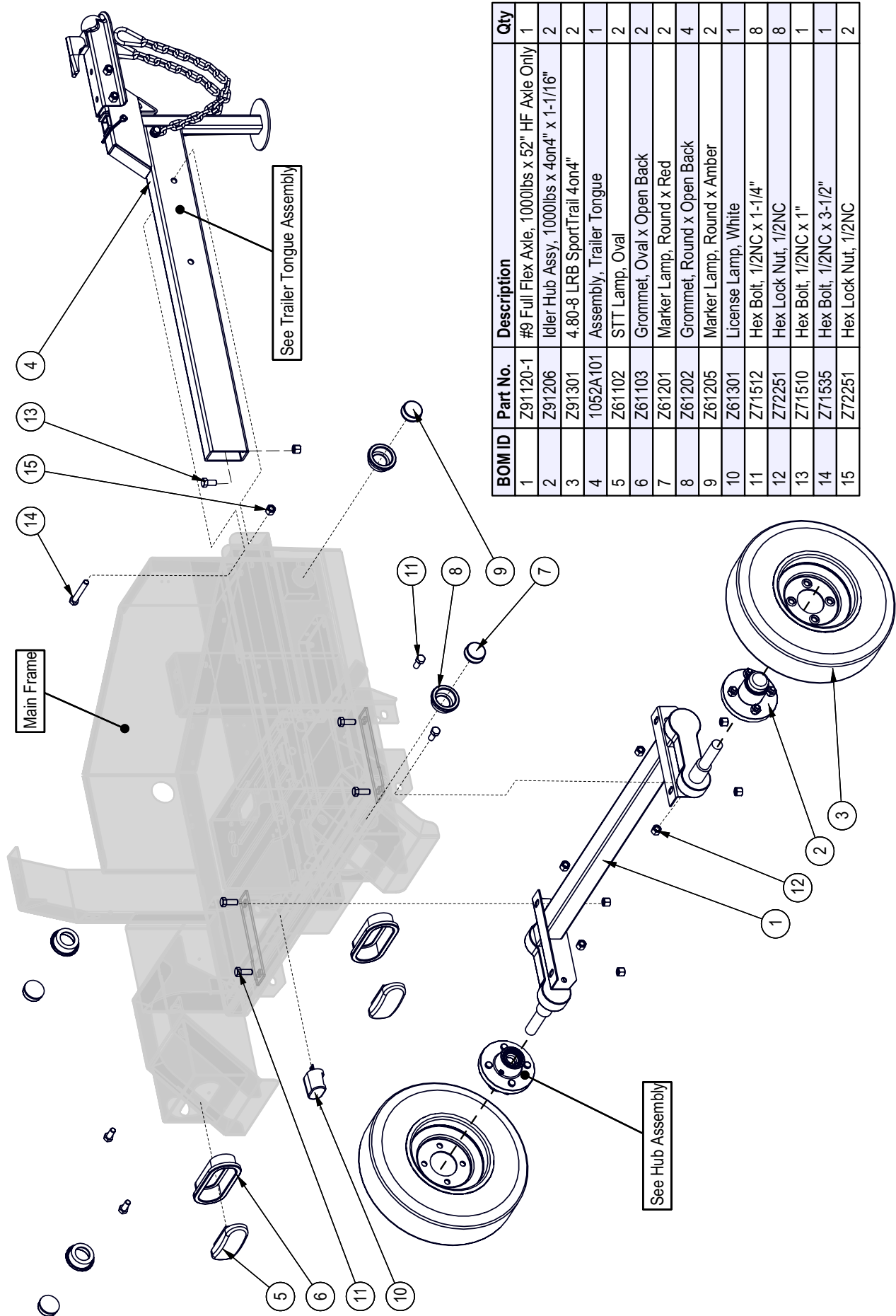


BOM ID	Part No.	Description	Qty
1	1012L269	Gauge, Ledger Setting	1
2	1052A104	Toolbox Lid	1
3	1052L122	Rear Belt Guard	1
4	1052L125	Front Belt Guard	1
5	1052W106	Weldment, Bay Cover	1
6	1052W502	Main Frame	1
7	Z11300	Clevis Pin 3/16 x 1-3/8	2
8	Z12300	Cotter Pin 3/32 X 3/4	2
9	Z18201-2	Hood Fastener, Top Bracket	2
10	Z18201-3	Hood Fastener, Latch Strap	2
11	Z47902	Hour Meter / Tachometer	1
12	Z62808	Rubber Grommet, 7/16" x 1/4"	2
13	Z62822	Rubber Grommet, 3/4" x 1/4"	2
14	Z72914	Acorn Nut, 5/16NC	2
15	Z72921	Wing Nut, 1/4NC	4
16	Z76134	Flange Bolt, 3/8NC x 1"	8
17	Z76711	Self-tapping Screw, #10 x 1/2"	6
18	Z78301	Machine Screw, 1/4NC x 3/4"	2
19	Z93201	Battery, 250CCA	1
20	Z93202	J-Hook, 1/4" x 7"	2
21	Z93207	Hold-Down Strap, 1" x 8-1/2"	1
22	Z93210	Battery Cable, Negative x 25"	1
23	Z93212	Battery Cable, Positive x 28"	1

Blower Parts

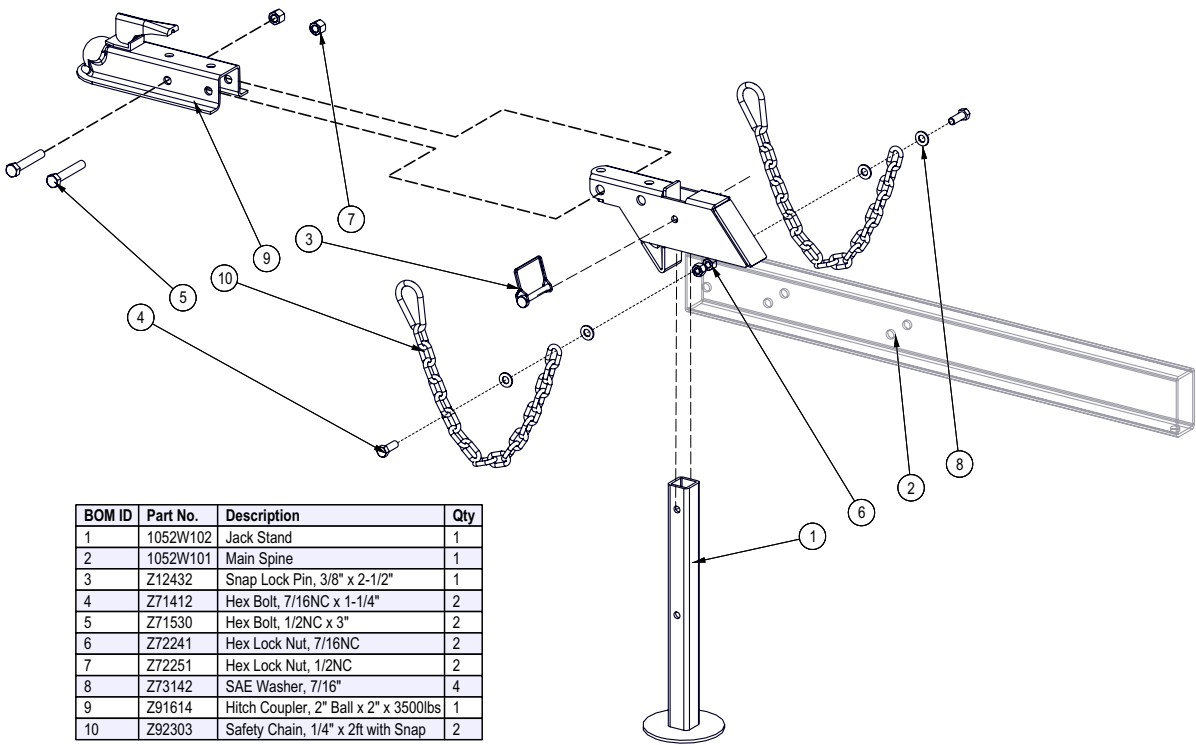


Running Gear



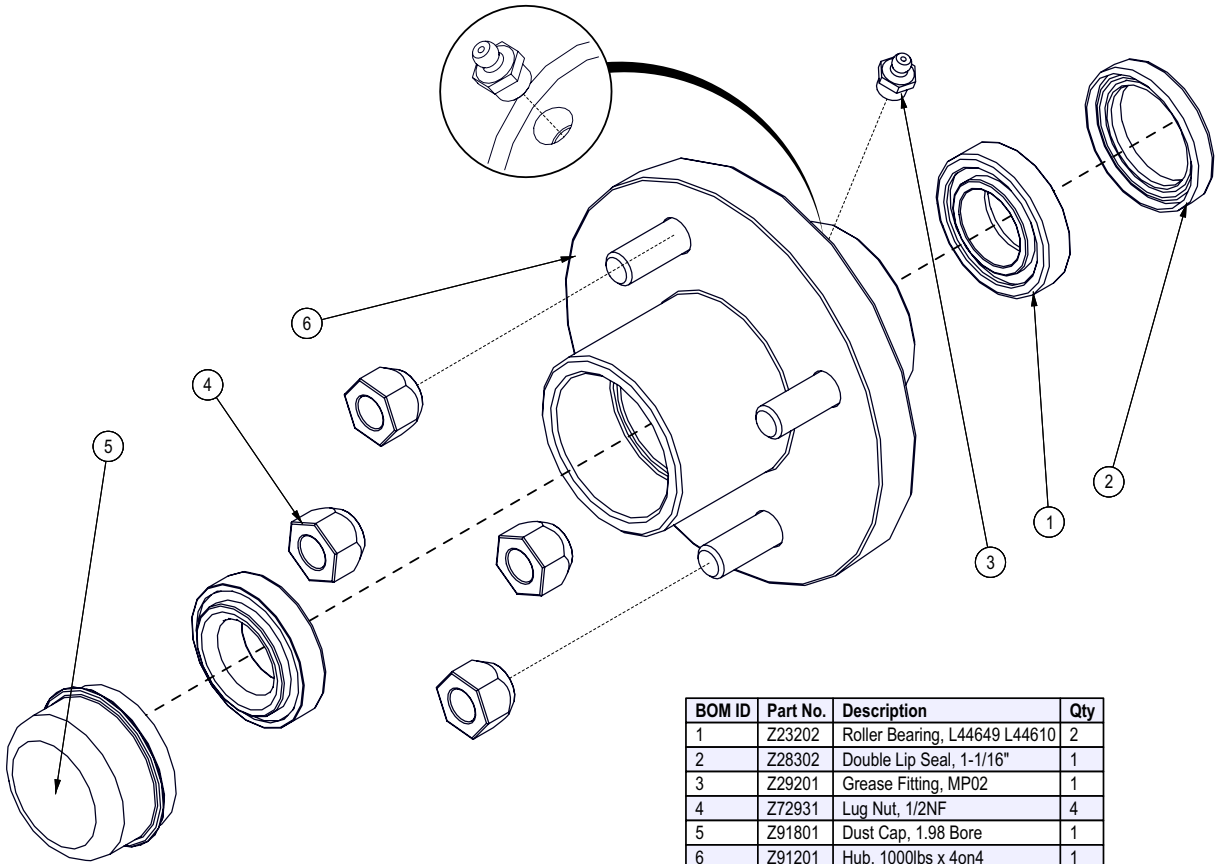
BOM ID	Part No.	Description	Qty
1	Z91120-1	#9 Full Flex Axle, 1000lbs x 52" HF Axle Only	1
2	Z91206	Idle Hub Assy, 1000lbs x 4on4" x 1-1/16"	2
3	Z91301	4.80-8 LRB SportTrail 4on4"	2
4	1052A101	Assembly, Trailer Tongue	1
5	Z61102	STT Lamp, Oval	2
6	Z61103	Grommet, Oval x Open Back	2
7	Z61201	Marker Lamp, Round x Red	2
8	Z61202	Grommet, Round x Open Back	4
9	Z61205	Marker Lamp, Round x Amber	2
10	Z61301	License Lamp, White	1
11	Z71512	Hex Bolt, 1/2NC x 1-1/4"	8
12	Z72251	Hex Lock Nut, 1/2NC	8
13	Z71510	Hex Bolt, 1/2NC x 1"	1
14	Z71535	Hex Bolt, 1/2NC x 3-1/2"	1
15	Z72251	Hex Lock Nut, 1/2NC	2

Trailer Tongue Assembly

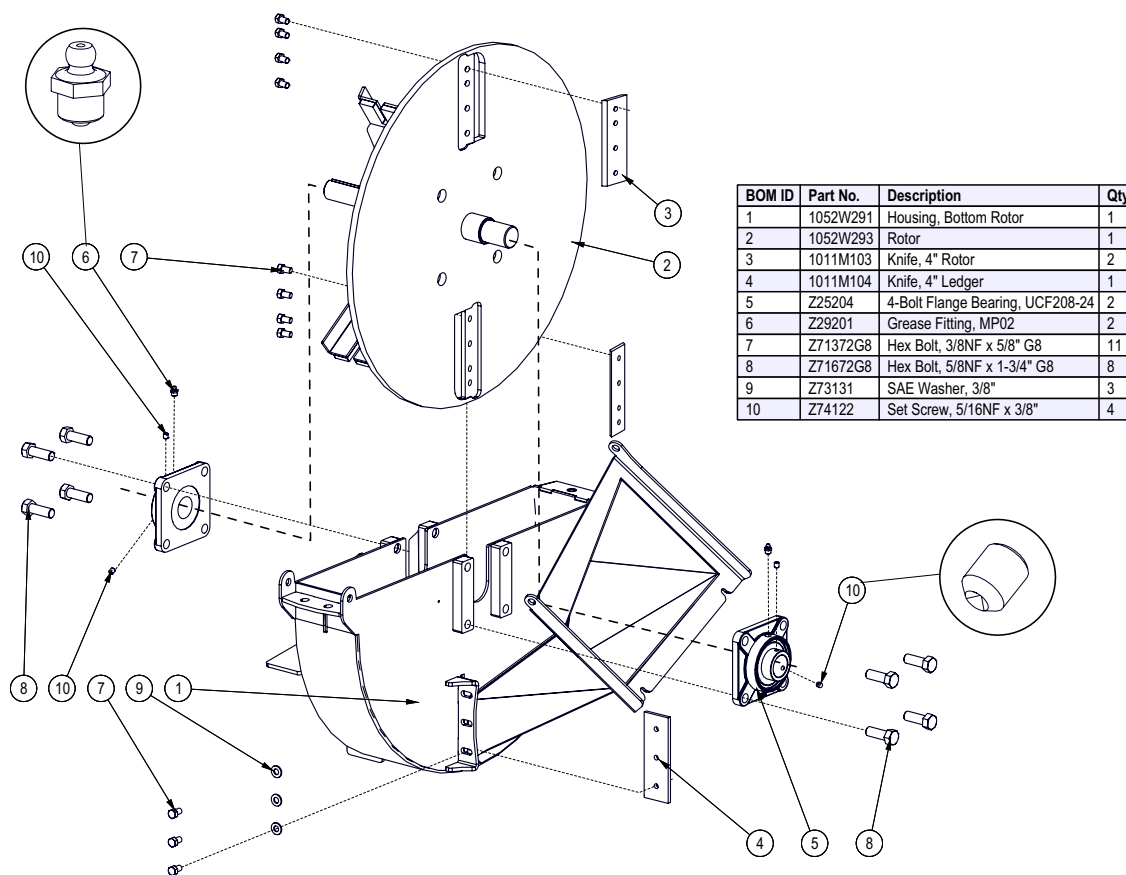
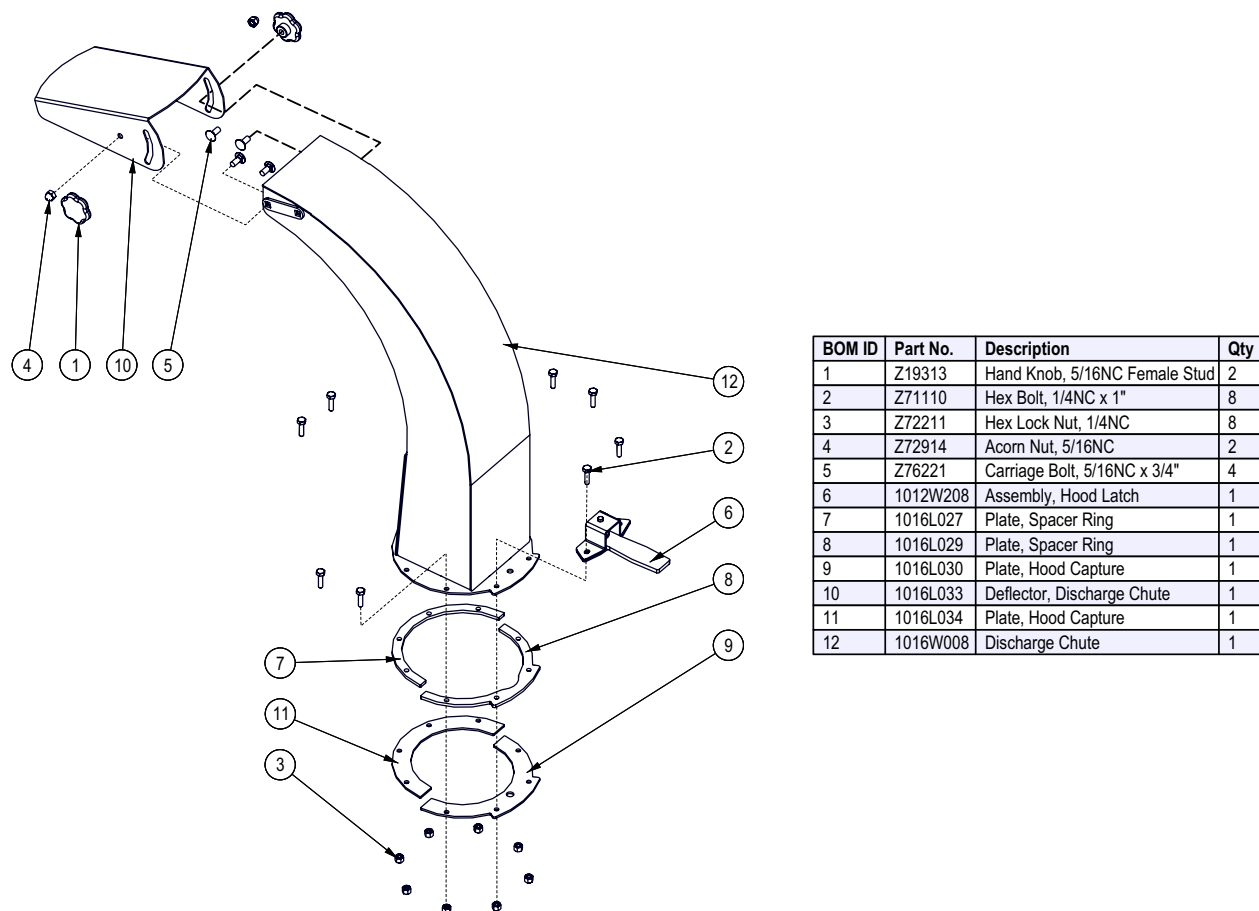


BOM ID	Part No.	Description	Qty
1	1052W102	Jack Stand	1
2	1052W101	Main Spine	1
3	Z12432	Snap Lock Pin, 3/8" x 2-1/2"	1
4	Z71412	Hex Bolt, 7/16NC x 1-1/4"	2
5	Z71530	Hex Bolt, 1/2NC x 3"	2
6	Z72241	Hex Lock Nut, 7/16NC	2
7	Z72251	Hex Lock Nut, 1/2NC	2
8	Z73142	SAE Washer, 7/16"	4
9	Z91614	Hitch Coupler, 2" Ball x 2" x 3500lbs	1
10	Z92303	Safety Chain, 1/4" x 2ft with Snap	2

Idler Hub Assembly

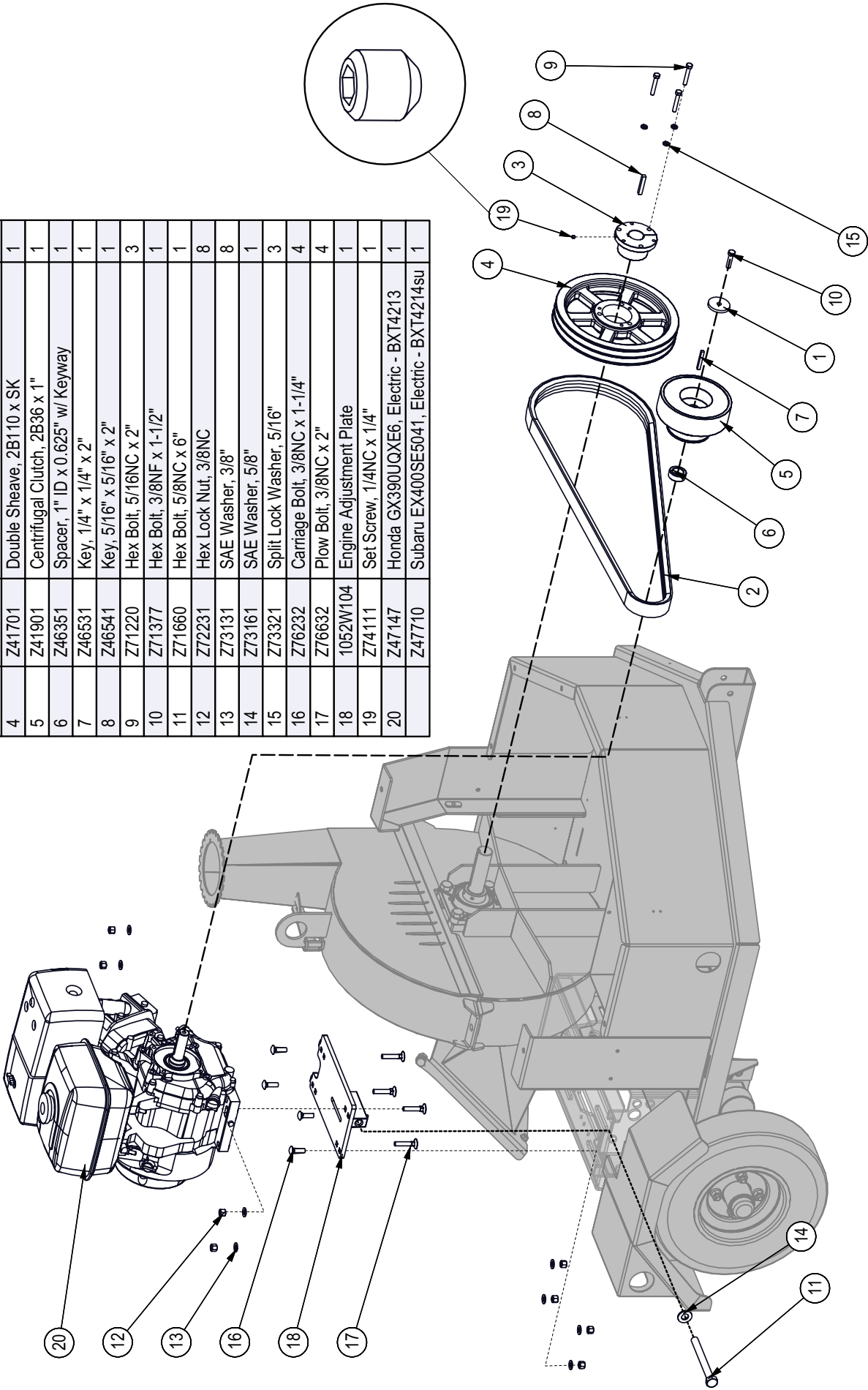


BOM ID	Part No.	Description	Qty
1	Z23202	Roller Bearing, L44649 L44610	2
2	Z28302	Double Lip Seal, 1-1/16"	1
3	Z29201	Grease Fitting, MP02	1
4	Z72931	Lug Nut, 1/2NF	4
5	Z91801	Dust Cap, 1.98 Bore	1
6	Z91201	Hub, 1000lbs x 4on4	1

Rotor**Discharge Chute Assembly**

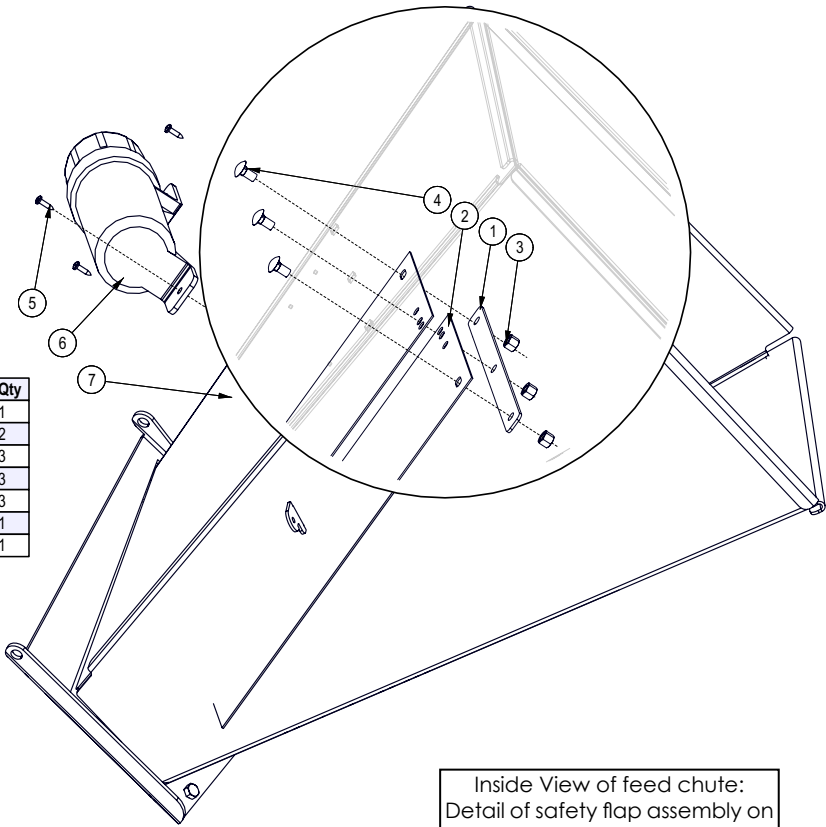
Engine & Driveline

BOM ID	Part No.	Description	Qty
1	1052L142	Washer, Clutch Trap x 3/8"	1
2	Z41258	Double "B" x 74"	1
3	Z41501	Hub, SK x 1-3/8"	1
4	Z41701	Double Sheave, 2B110 x SK	1
5	Z41901	Centrifugal Clutch, 2B36 x 1"	1
6	Z46351	Spacer, 1" ID x 0.625" w/ Keyway	1
7	Z46531	Key, 1/4" x 1/4" x 2"	1
8	Z46541	Key, 5/16" x 5/16" x 2"	1
9	Z71220	Hex Bolt, 5/16NC x 2"	3
10	Z71377	Hex Bolt, 3/8NF x 1-1/2"	1
11	Z71660	Hex Bolt, 5/8NC x 6"	1
12	Z72231	Hex Lock Nut, 3/8NC	8
13	Z73131	SAE Washer, 3/8"	8
14	Z73161	SAE Washer, 5/8"	1
15	Z73321	Split Lock Washer, 5/16"	3
16	Z76232	Carriage Bolt, 3/8NC x 1-1/4"	4
17	Z76632	Plow Bolt, 3/8NC x 2"	4
18	1052W104	Engine Adjustment Plate	1
19	Z74111	Set Screw, 1/4NC x 1/4"	1
20	Z47147	Honda GX390UQXE6, Electric - BXT4213	1
	Z47710	Subaru EX400SE5041, Electric - BXT4214su	1

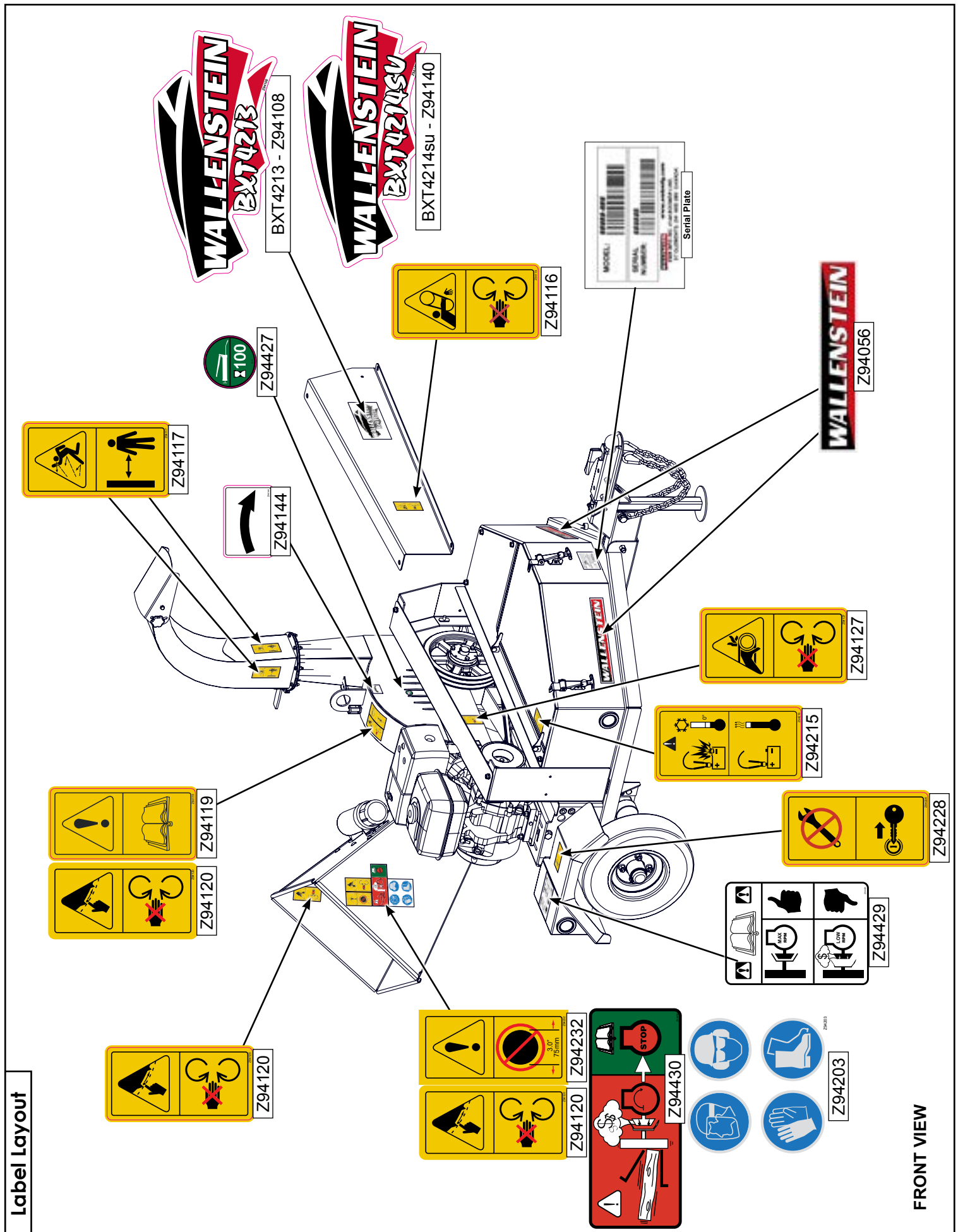


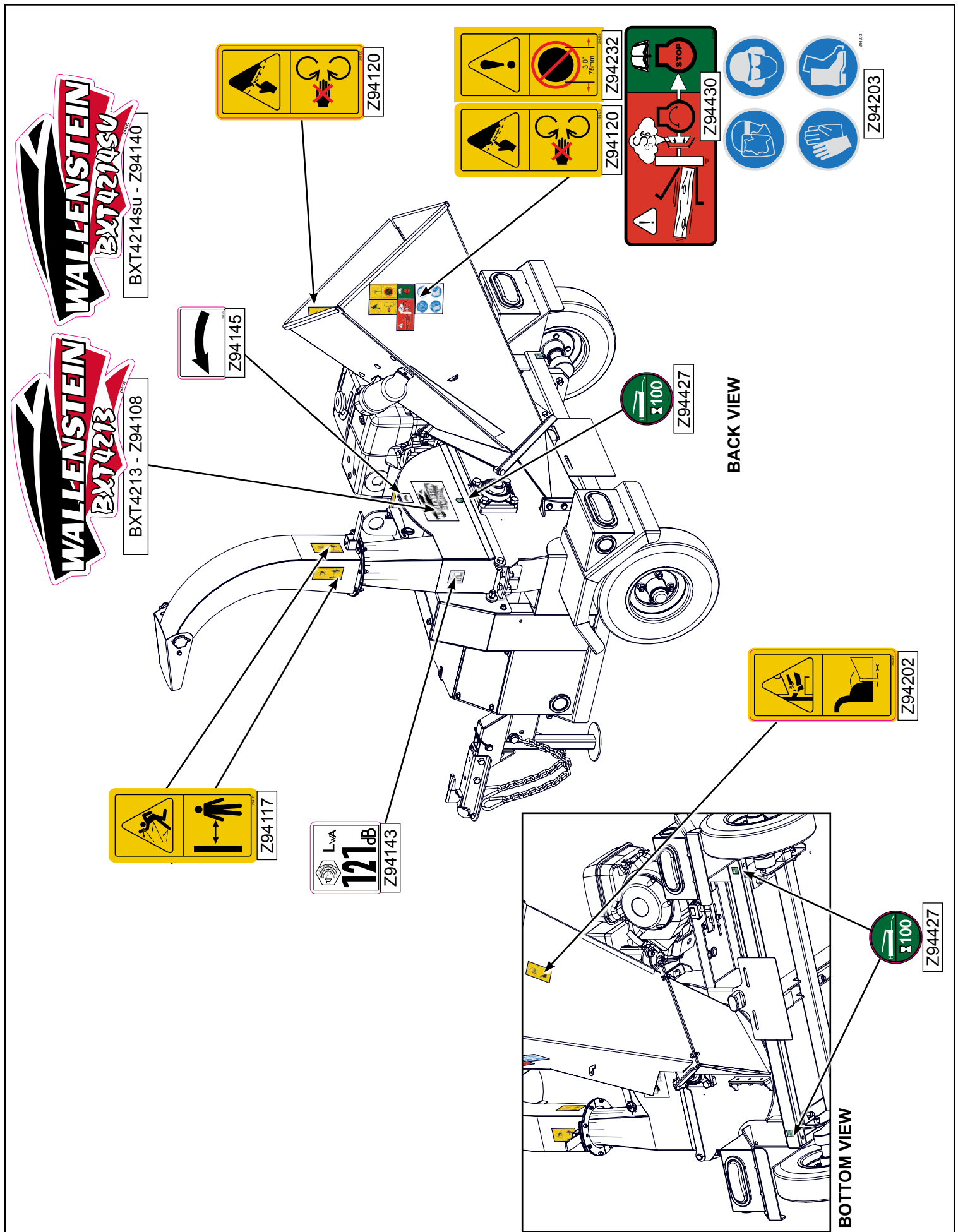
Self-feed Hopper Flap Detail

BOM ID	Part No.	Description	Qty
1	1011L151	Strap, Hopper Flap	1
2	1011S103	Flap, Hopper	2
3	Z72231	Hex Lock Nut, 3/8NC	3
4	Z76233	Carriage Bolt, 3/8NC x 3/4"	3
5	Z76712	Self-tapping Screw, #10 x 3/4"	3
6	Z96503	Manual Tube, 3-1/2" Short	1
7	1011W108	Weldment, Infeed Hopper	1



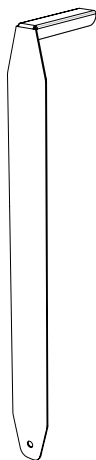
Inside View of feed chute:
Detail of safety flap assembly on
inside of feed chute.





Accessories

Call your dealer for pricing and availability



#1012L269 LEDGER CLEARANCE SETTING GAUGE



**#Z97033
TRAILER WOOD CHIPPER
OPERATOR'S MANUAL**

Available as a download at
www.wallensteinequipment.com