



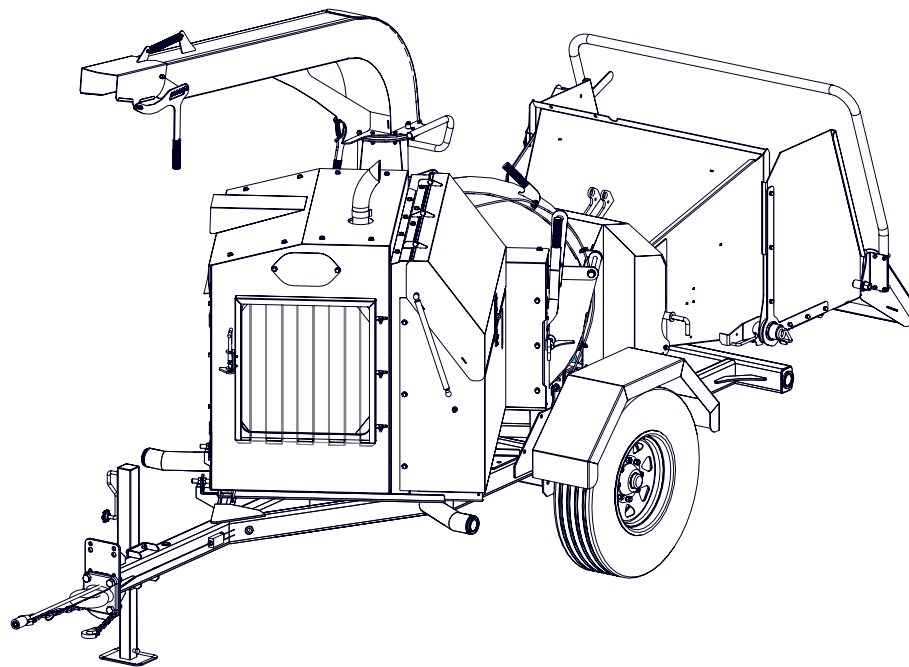
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# CR100 Trailer

## Chipper Parts Manual

Starting with S/N 2E9US1113FS010022 - 2E9US1110FS010029

**MODELS CR100, CR100B,  
CR100H, CR100HW,  
CR100BH, CR100BHW**



Refer to the operators  
manual for safe  
operation and  
maintenance

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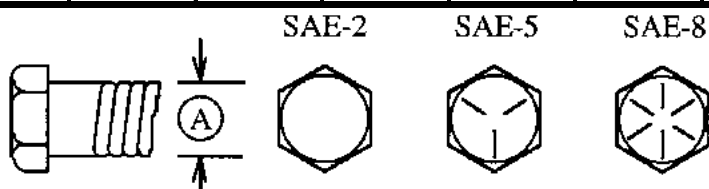
For parts and information please contact your dealer. If your dealer is no longer available please go to our website: <http://www.wallensteinequipment.com> and click on "FIND A DEALER NEAR YOU" for information on a local dealer.

**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.

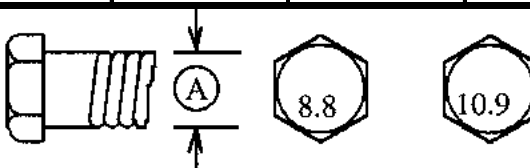
ENGLISH TORQUE SPECIFICATIONS						
Bolt Diameter "A"	Bolt Torque*					
	SAE 2 (N.m) (lb-ft)		SAE 5 (N.m) (lb-ft)		SAE 8 (N.m) (lb-ft)	
1/4"	8	6	12	9	17	12
5/16"	13	10	25	19	36	27
3/8"	27	20	45	33	63	45
7/16"	41	30	72	53	100	75
1/2"	61	45	110	80	155	115
9/16"	95	60	155	115	220	165
5/8"	128	95	215	160	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



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.

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



### 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 (in.)	Nut Size Across Flats (in.)	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
<b>3/8</b>	<b>11/16</b>	<b>24</b>	<b>18</b>	<b>1</b>	<b>1/6</b>
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

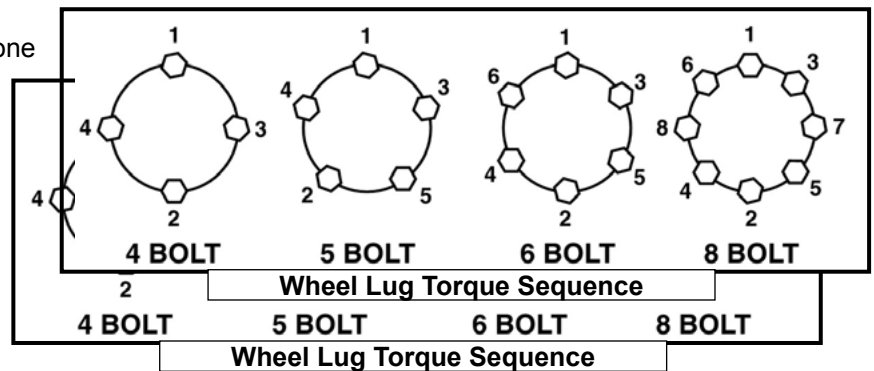
It is extremely important safety procedure to apply and maintain proper wheel mounting torque on your trailer axle. Torque wrenches are the best method to assure the proper amount of torque is being applied to a fastener.

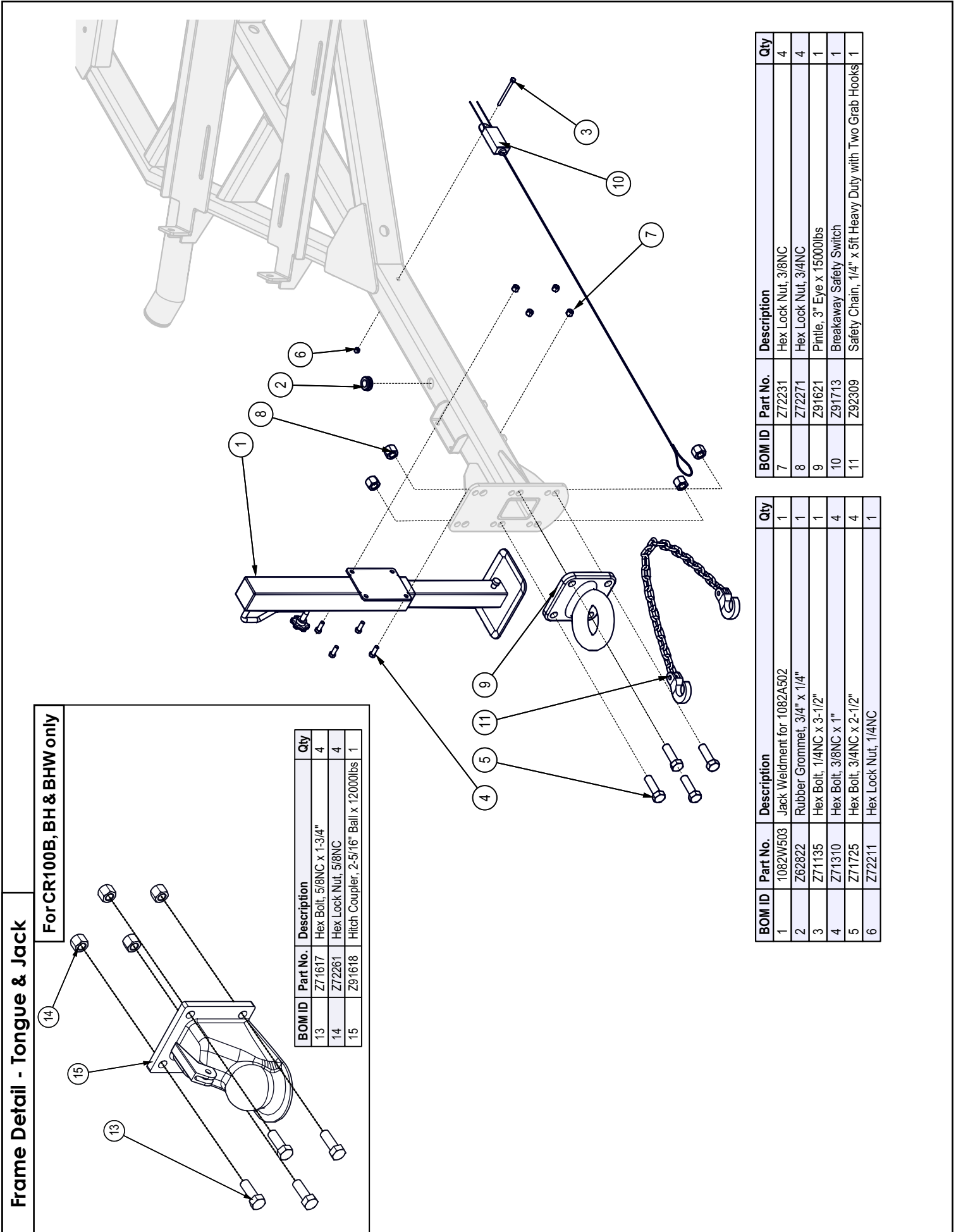
Wheel lugs should be torqued before first road use and after each wheel removal. Check and re torque after the first 16Km (10 miles), 40Km (25 miles), and again at 80Km (50 miles). Check periodically thereafter.

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





**Frame Detail - Tongue & Jack**

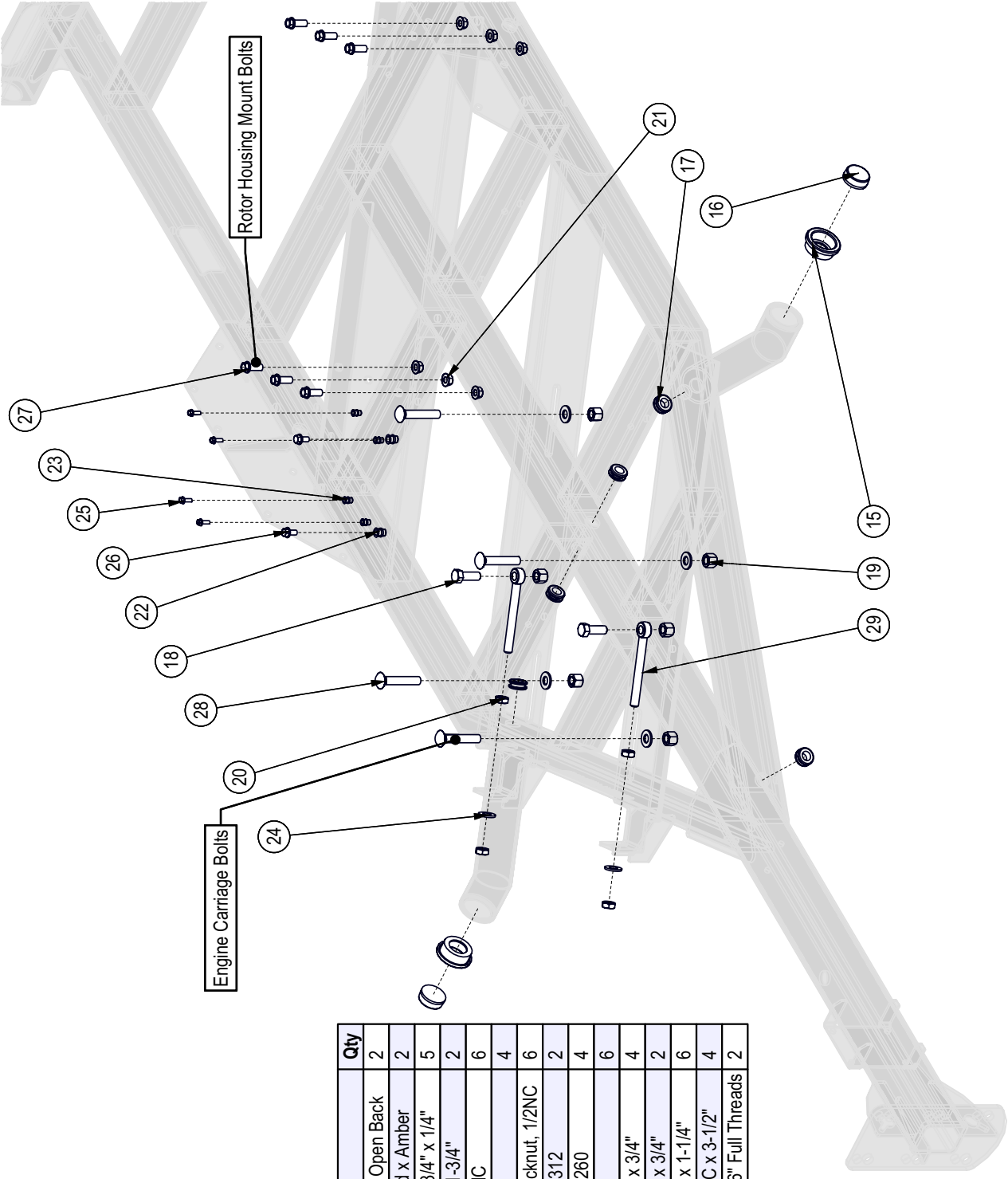
**For CR100B, BH & BHW only**

BOM ID	Part No.	Description	Qty
13	Z71617	Hex Bolt, 5/8NC x 1-3/4"	4
14	Z72261	Hex Lock Nut, 5/8NC	4
15	Z91618	Hitch Coupler, 2-5/16" Ball x 12000lbs	1

BOM ID	Part No.	Description	Qty
7	Z72231	Hex Lock Nut, 3/8NC	4
8	Z72271	Hex Lock Nut, 3/4NC	4
9	Z91621	Pin, 3" Eye x 15000lbs	1
10	Z91713	Breakaway Safety Switch	1
11	Z92309	Safety Chain, 1/4" x 5ft Heavy Duty with Two Grab Hooks	1

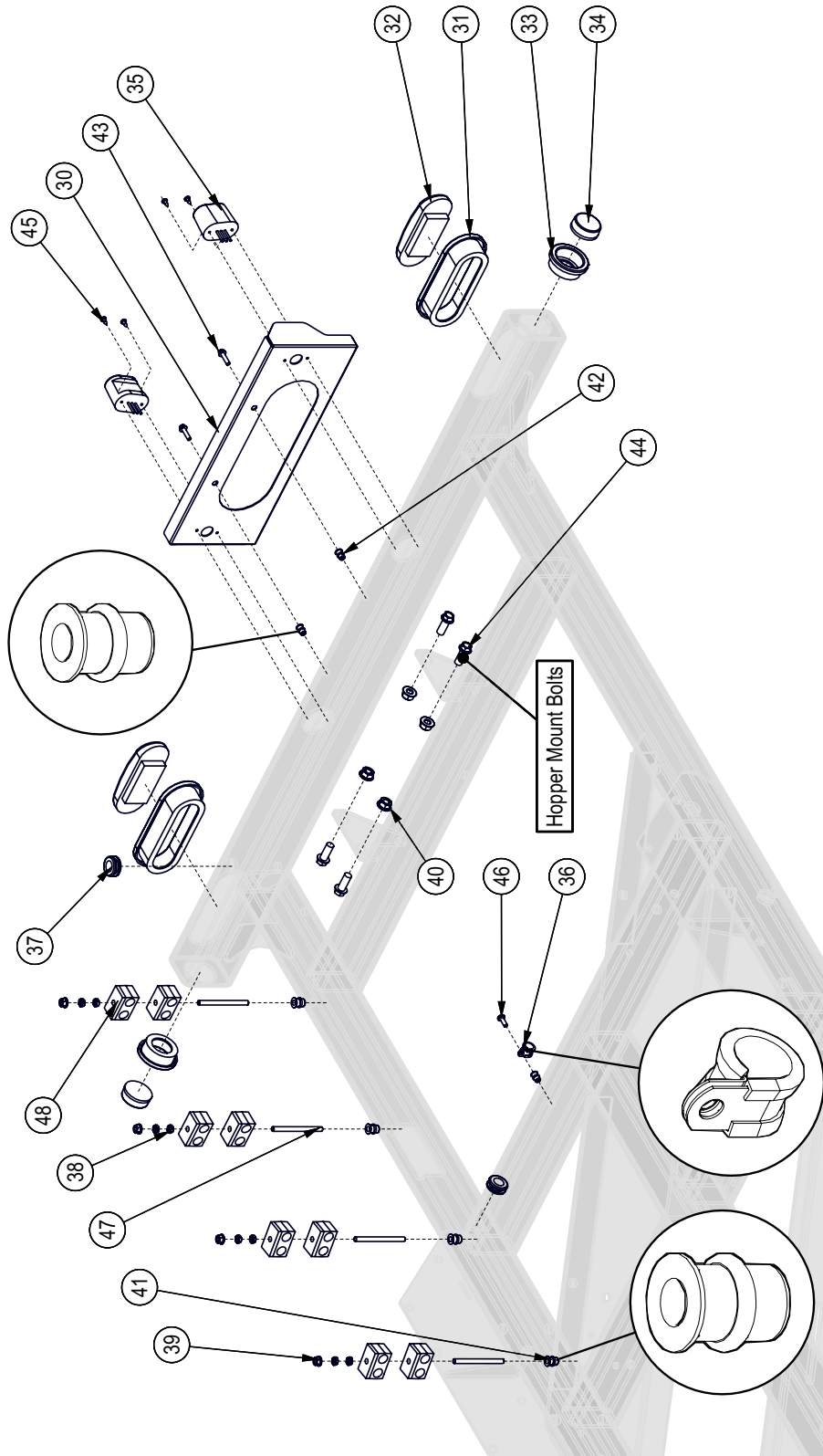
BOM ID	Part No.	Description	Qty
1	1082W503	Jack Weldment for 1082A502	1
2	Z62822	Rubber Grommet, 3/4" x 1/4"	1
3	Z71135	Hex Bolt, 1/4NC x 3-1/2"	1
4	Z71310	Hex Bolt, 3/8NC x 1"	4
5	Z71725	Hex Bolt, 3/4NC x 2-1/2"	4
6	Z72211	Hex Lock Nut, 1/4NC	1

**Frame Detail - Front**



BOM ID	Part No.	Description	Qty
15	Z61202	Grommet, Round x Open Back	2
16	Z61211	Marker LED, Round x Amber	2
17	Z62822	Rubber Grommet, 3/4" x 1/4"	5
18	Z71617	Hex Bolt, 5/8NC x 1-3/4"	2
19	Z72261	Hex Lock Nut, 5/8NC	6
20	Z72361	Jam Nut, 5/8NC	4
21	Z72551	Serrated Flange Locknut, 1/2NC	6
22	Z72959	Rivet Nut, 3/8NC x 312	2
23	Z72962	Rivet Nut, 1/4NC x 260	4
24	Z73161	SAE Washer, 5/8"	6
25	Z76111	Flange Bolt, 1/4NC x 3/4"	4
26	Z76133	Flange Bolt, 3/8NC x 3/4"	2
27	Z76152	Flange Bolt, 1/2NC x 1-1/4"	6
28	Z76265	Carriage Bolt, 5/8NC x 3-1/2"	4
29	Z76561	Rod End, 5/8NC x 6" Full Threads	2

Frame Detail - Rear

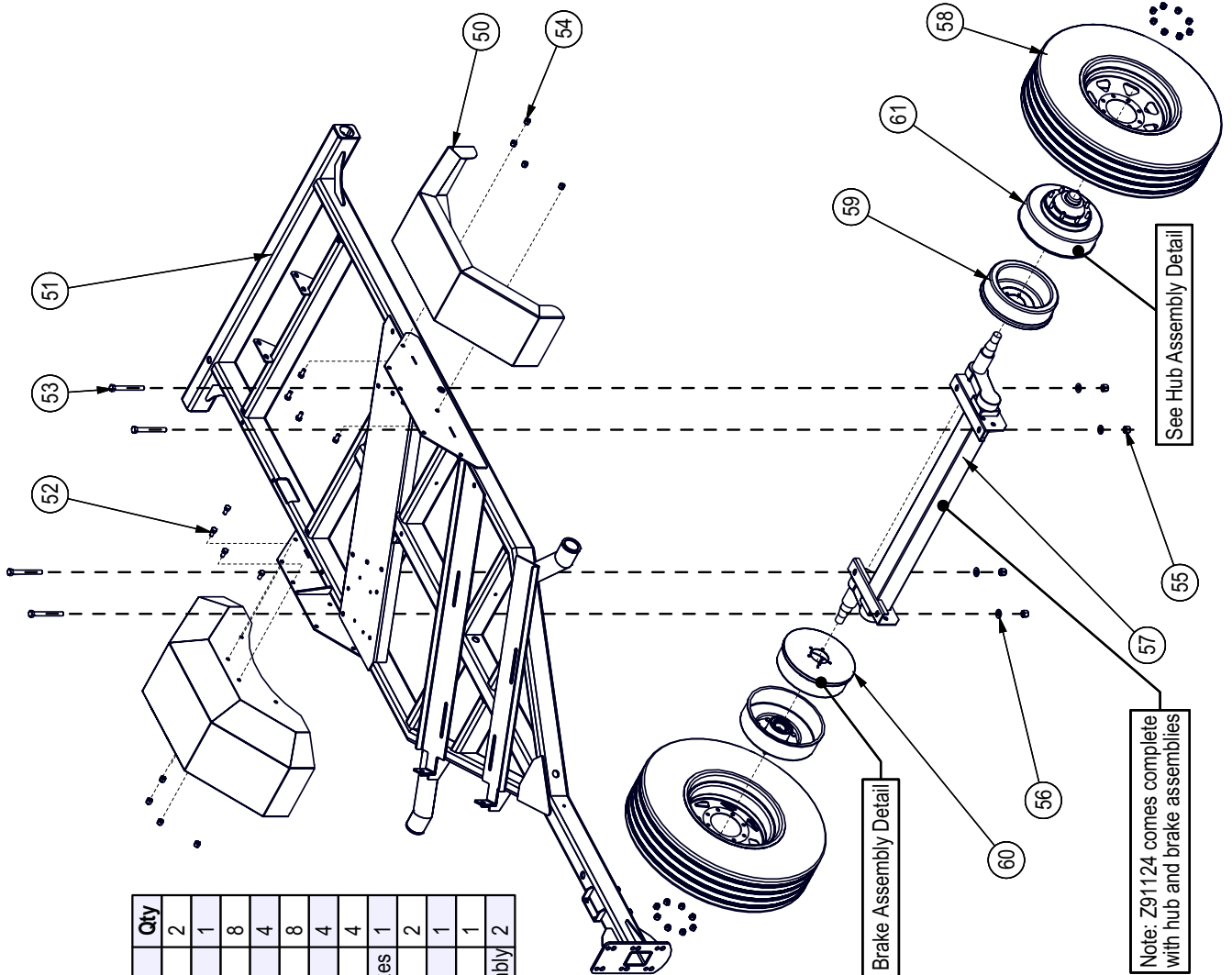


BOM ID	Part No.	Description	Qty
40	Z72551	Serrated Flange Locknut, 1/2NC	4
41	Z72957	Rivet Nut, 5/16NC x 3/12	4
42	Z72962	Rivet Nut, 1/4NC x 260	3
43	Z76114	Flange Bolt, 1/4NC x 1"	2
44	Z76152	Flange Bolt, 1/2NC x 1-1/4"	4
45	Z76711	Self-tapping Screw, #10 x 1/2"	4
46	Z78301	Machine Screw, 1/4NC x 3/4"	1
47	Z79141	Threaded Stud, 5/16NC x 4"	4
48	Z79463	Double Hose Clamp, 1 1/16" OD	8

BOM ID	Part No.	Description	Qty
30	1060L244	License Plate Mount, CR100	1
31	Z61103	Grommet, Oval x Open Back	2
32	Z61114	STT LED, Oval x Red	2
33	Z61202	Grommet, Round x Open Back	2
34	Z61210	Marker LED, Round x Red	2
35	Z61301	License Lamp, White	2
36	Z62819	Rubberized Wire Clamp, 1/2"	1
37	Z62822	Rubber Grommet, 3/4" x 1/4"	2
38	Z72321	Jam Nut, 5/16NC	8
39	Z72521	Serrated Flange Locknut, 5/16NC	4

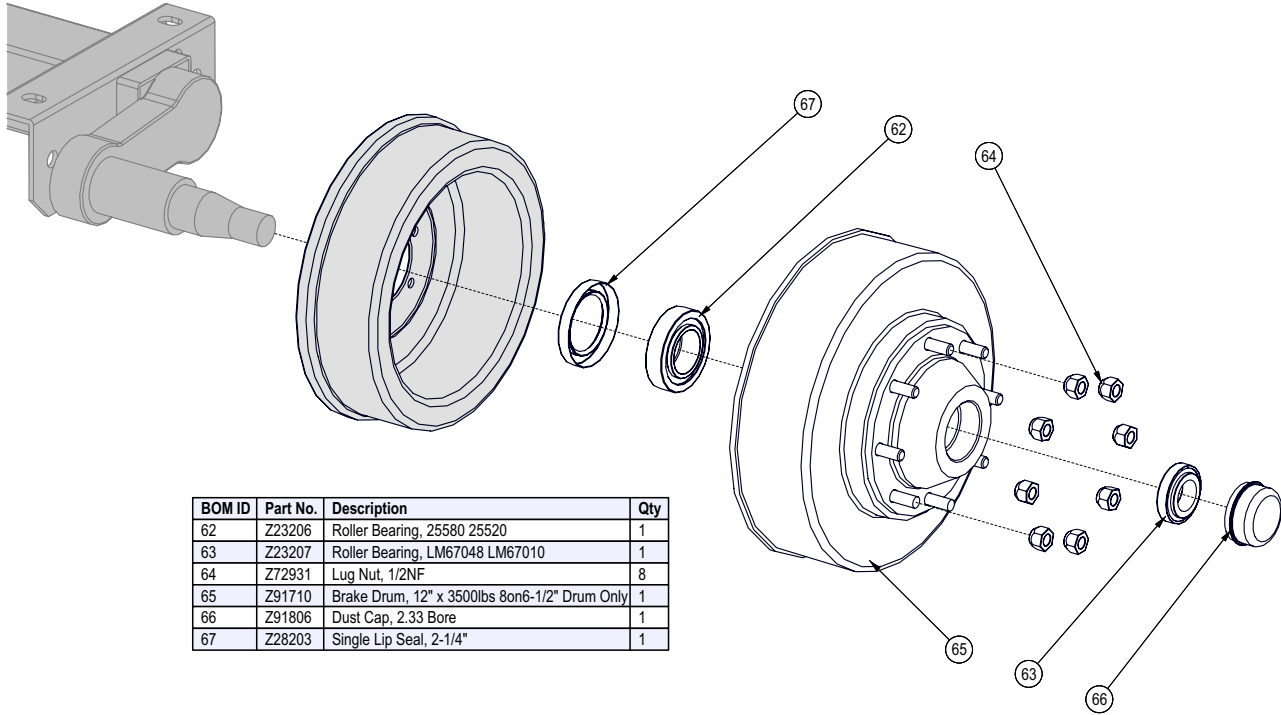


**Frame & Fender Assembly**



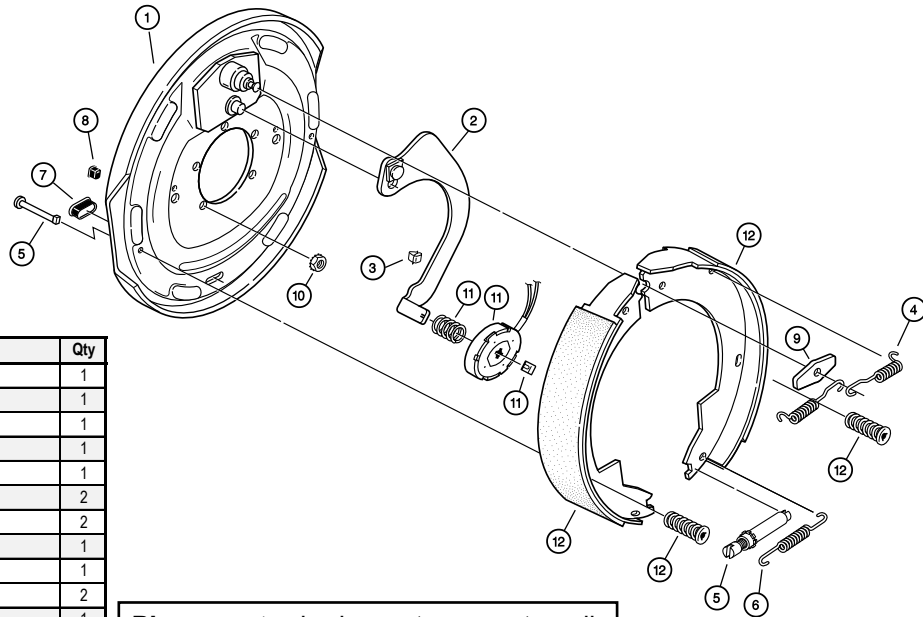
BOM ID	Part No.	Description	Qty
50	1060W105	Fender Well Weldment	2
51	1060W314	CR100 Trailer Weldment	1
52	Z71510	Hex Bolt, 1/2NC x 1"	8
53	Z71655	Hex Bolt, 5/8NC x 5-1/2"	4
54	Z72251	Hex Lock Nut, 1/2NC	8
55	Z72261	Hex Lock Nut, 5/8NC	4
56	Z73161	SAE Washer, 5/8"	4
57	Z91124	#12 Full Flex Axle, 7000lbs x 60" HF With Electric Brakes	1
58	Z91327	ST235/80R16 LRE Radial Trail 8on6-1/2"	2
59	Z91702	Electric Brake, 12" x 2" x 3500lbs LH	1
60	Z91712	Electric Brake, 12" x 2" x 3500lbs RH	1
61	Z91711	Brake Drum, 12" x 3500lbs 8on6-1/2" Complete Assembly	2

### Hub Assembly



BOM ID	Part No.	Description	Qty
62	Z23206	Roller Bearing, 25580 25520	1
63	Z23207	Roller Bearing, LM67048 LM67010	1
64	Z72931	Lug Nut, 1/2NF	8
65	Z91710	Brake Drum, 12" x 3500lbs 8on6-1/2" Drum Only	1
66	Z91806	Dust Cap, 2.33 Bore	1
67	Z28203	Single Lip Seal, 2-1/4"	1

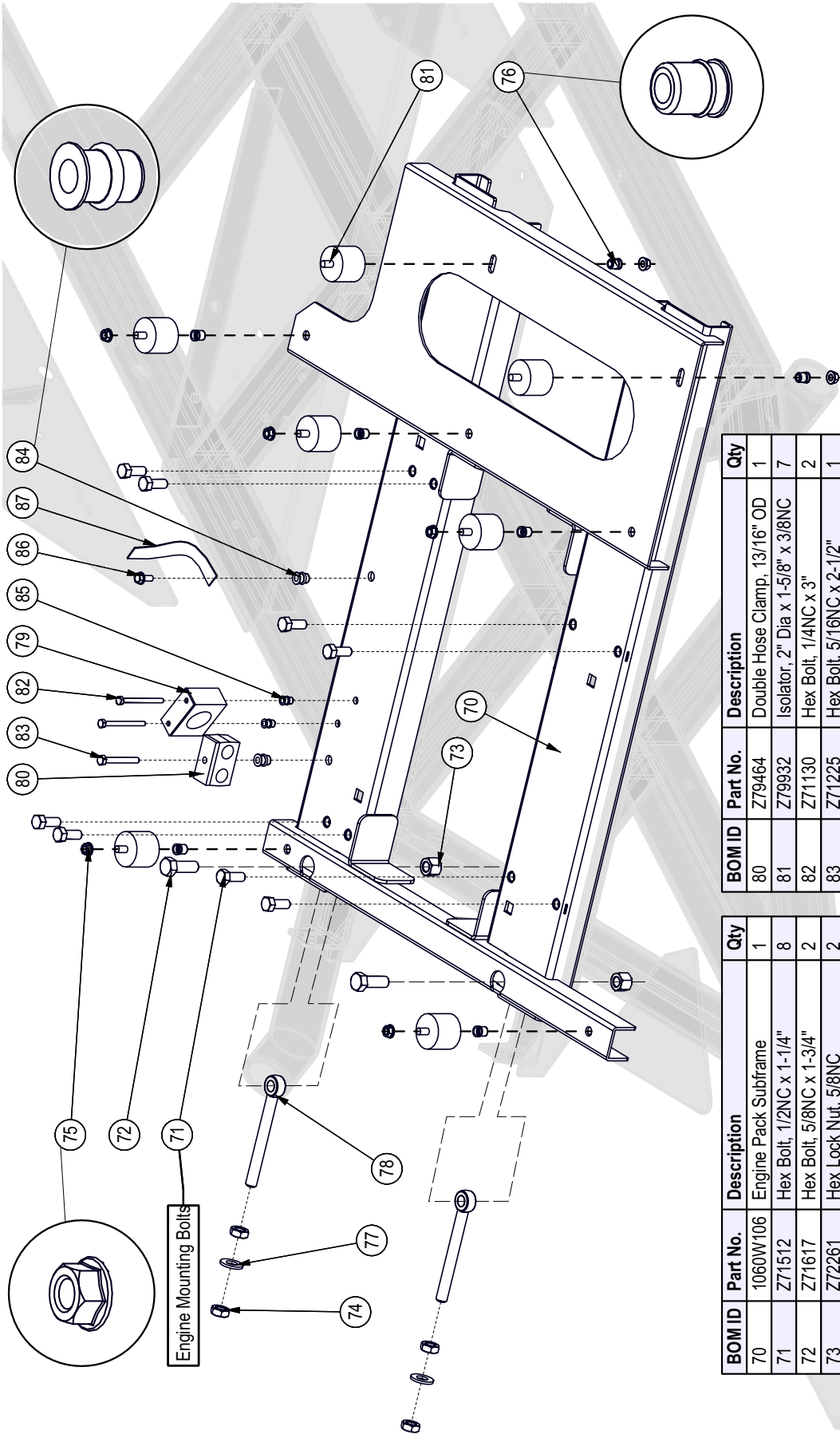
### Brake Assembly



Item	Part No.	Description	Qty
	Z91702	LH Complete Brake Assembly	1
	Z91712	RH Complete Brake Assembly (shown)	1
1	036-089-05	Backing Plate Assembly	1
2	047-107-05	LH Actuating Lever Arm Assembly	1
2	047-108-05	RH Actuating Lever Arm Assembly	1
3	027-005-00	Wire Clip	2
4	046-009-00	Retractor Spring	2
5	043-004-00	Adjuster Assembly	1
6	046-018-00	Adjusting Screw Spring	1
7	046-007-00	Adjuster Slot Plug	2
8	046-016-00	Wire Grommet	1
9	005-067-00	Anchor Post Washer	1
10	006-193-00	Nut Washer Assembly	5
11	K71-105-00	Magnet Kit Contains:	1
		Magnet (white wire)	1
		Magnet Clip	1
		Magnet Spring	1
12	K71-048-00	Shoe & Lining Kit Contains:	1
		Primary Shoe & Lining	1
		Secondary Shoe & Lining	1
		Shoe Hold Down Pin #2	2
		Shoe Hold Down Spring & Cup	2

**Please note:** brake parts are not available from EMB Mfg. Brake part numbers here reference Dexter Axle brake assemblies and are available from your local auto parts dealer. All brake repair and maintenance should be done by a qualified mechanic.

**Engine Carriage**



Engine Mounting Bolts

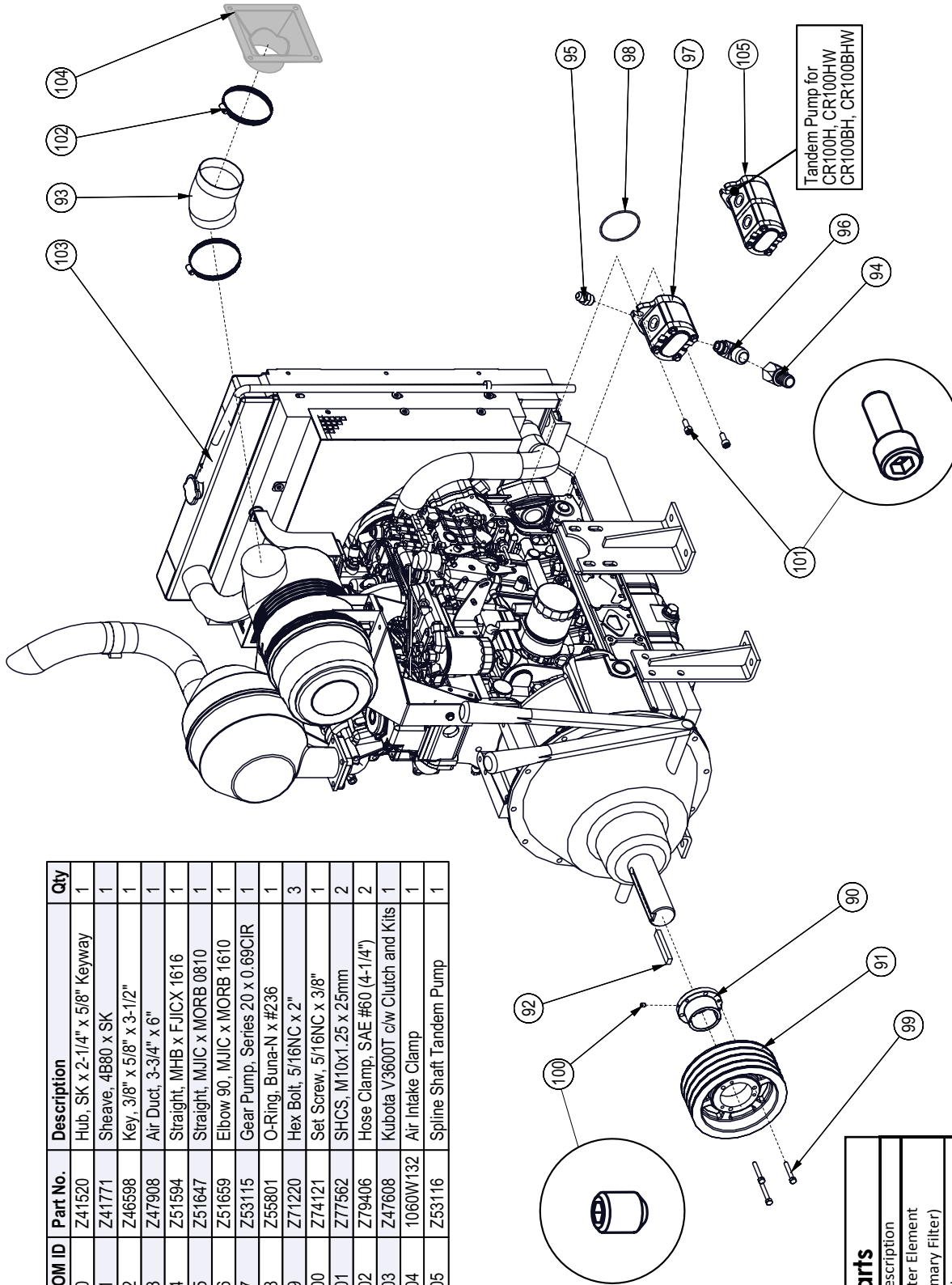
BOM ID	Part No.	Description	Qty
80	Z79464	Double Hose Clamp, 13/16" OD	1
81	Z79932	Isolator, 2" Dia x 1-5/8" x 3/8NC	7
82	Z71130	Hex Bolt, 1/4NC x 3"	2
83	Z71225	Hex Bolt, 5/16NC x 2-1/2"	1
84	Z72957	Rivet Nut, 5/16NC x 3/2	2
85	Z72962	Rivet Nut, 1/4NC x 260	2
86	Z76121	Flange Bolt, 5/16NC x 3/4"	1
87	Z62713	Copper Ground Strap, 9"	1

BOM ID	Part No.	Description	Qty
70	1060W106	Engine Pack Subframe	1
71	Z71512	Hex Bolt, 1/2NC x 1-1/4"	8
72	Z71617	Hex Bolt, 5/8NC x 1-3/4"	2
73	Z72261	Hex Lock Nut, 5/8NC	2
74	Z72361	Jam Nut, 5/8NC	4
75	Z72531	Serrated Flange Locknut, 3/8NC	7
76	Z72958	Rivet Nut, 3/8NC x 150	7
77	Z73161	SAE Washer, 5/8"	2
78	Z76561	Rod End, 5/8NC x 6" Full Threads	2
79	Z79457	Single Hose Clamp, 1-1/2" OD	1

# Engine

BOM ID	Part No.	Description	Qty
90	Z41520	Hub, SK x 2-1/4" x 5/8" Keyway	1
91	Z41771	Sheave, 4B80 x SK	1
92	Z46598	Key, 3/8" x 5/8" x 3-1/2"	1
93	Z47908	Air Duct, 3-3/4" x 6"	1
94	Z51594	Straight, MHB x FJICX 1616	1
95	Z51647	Straight, MJIC x MORB 0810	1
96	Z51659	Elbow 90, MJIC x MORB 1610	1
97	Z53115	Gear Pump, Series 20 x 0.69CIR	1
98	Z55801	O-Ring, Buna-N x #236	1
99	Z1220	Hex Bolt, 5/16NC x 2"	3
100	Z74121	Set Screw, 5/16NC x 3/8"	1
101	Z77562	SHCS, M10x1.25 x 25mm	2
102	Z79406	Hose Clamp, SAE #60 (4-1/4")	2
103	Z47608	Kubota V3600T c/w Clutch and Kits	1
104	1060W132	Air Intake Clamp	1
105	Z53116	Spline Shaft Tandem Pump	1

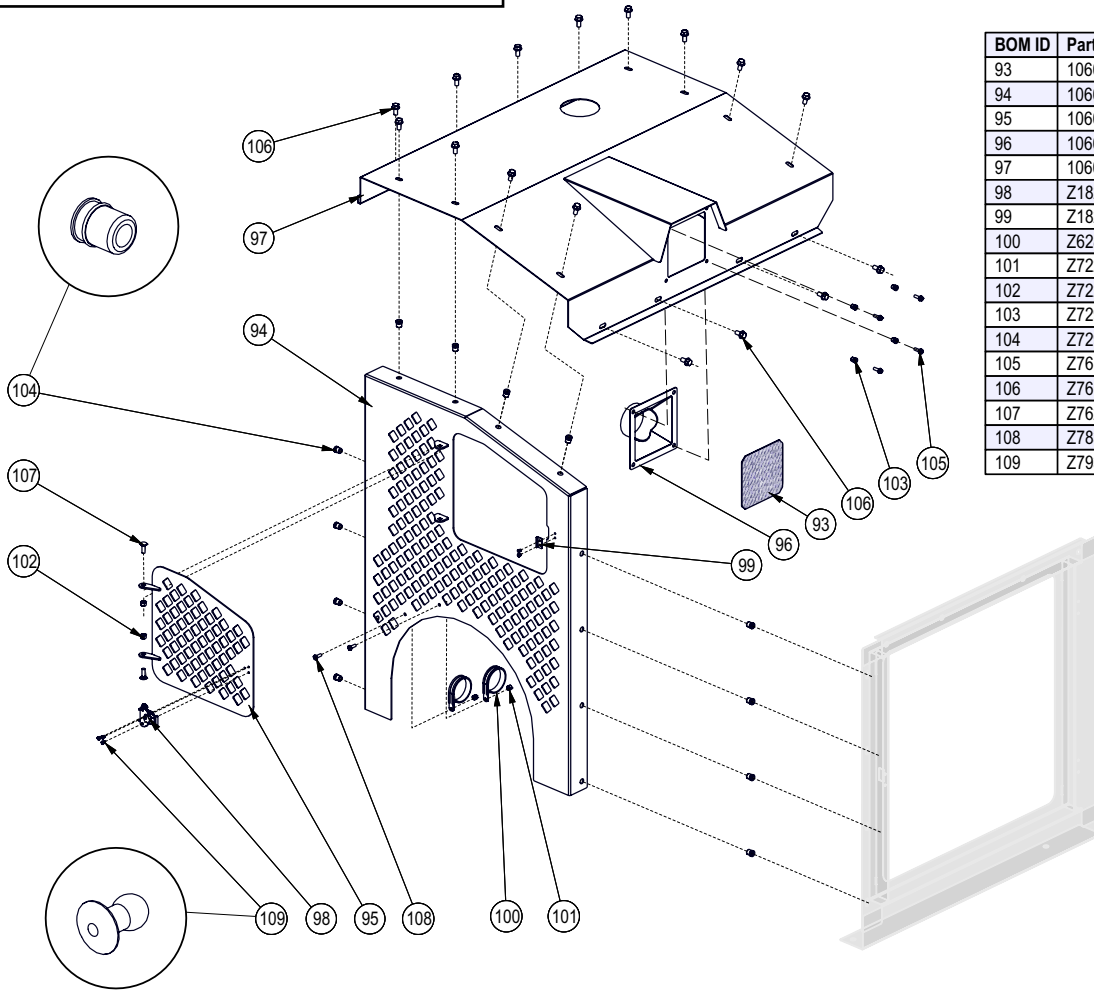
Engine Parts	
Part #	Description
107010001559	Primary Air Filter Element
(P828889)	Donaldson Primary Filter
107010001560	Safety Element
(P829333)	Donaldson Safety Element
106200000515	Air Filter Case (Includes Filters) (G082526)
106200000062	Coolant Overflow Bottle
106010002269	Rad Cap
Part #	Description
SK PL20-S/D-31	Seal Kit for Z53115 Pump
PL20/20-S/D-31/S7	Seal Kit for Z53116 Pump



Tandem Pump for  
CR100H, CR100HW  
CR100BH, CR100BHW

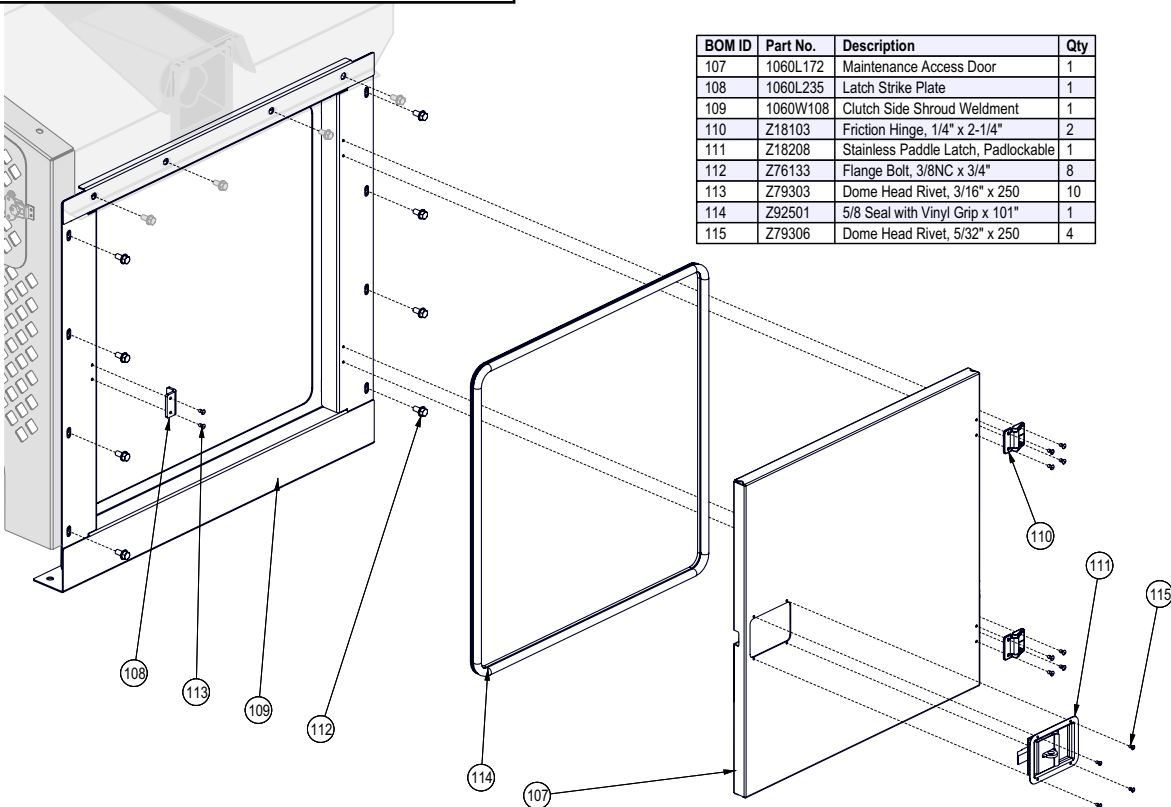
Note: for more information on Kubota V3600T Diesel Engine, please review the Kubota's Owners Manual.

### Engine Compartment Shroud



BOM ID	Part No.	Description	Qty
93	1060S108	Air Intake Screen	1
94	1060W267	Engine Vent Screen Weldment	1
95	1060W268	Air Cleaner Access Door	1
96	1060W132	Air Intake Clamp	1
97	1060W136	Enclosure Hood Weldment	1
98	Z18215	Twist Action Draw Latch, 2-3/4"	1
99	Z18216	Catch for Z18215	1
100	Z62826	Rubberized Wire Clamp, 2-1/2"	2
101	Z72211	Hex Lock Nut, 1/4NC	2
102	Z72221	Hex Lock Nut, 5/16NC	2
103	Z72955	Rivet Nut, 1/4NC x 165	4
104	Z72958	Rivet Nut, 3/8NC x 150	12
105	Z76111	Flange Bolt, 1/4NC x 3/4"	4
106	Z76133	Flange Bolt, 3/8NC x 3/4"	16
107	Z76225	Carriage Bolt, 5/16NC x 1"	2
108	Z78301	Machine Screw, 1/4NC x 3/4"	2
109	Z79305	Dome Head Rivet, 5/32" x 188	5

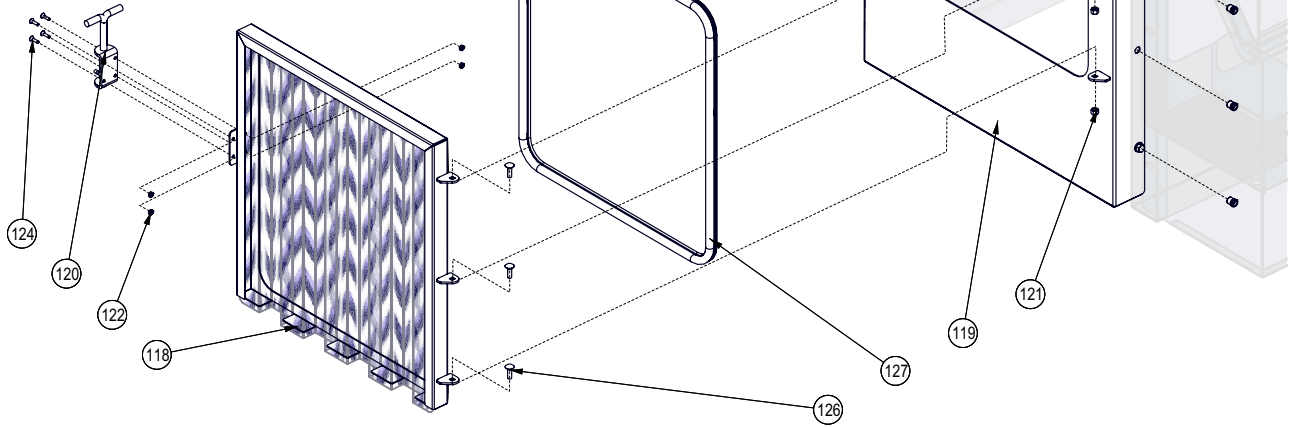
### Engine Compartment Door



BOM ID	Part No.	Description	Qty
107	1060L172	Maintenance Access Door	1
108	1060L235	Latch Strike Plate	1
109	1060W108	Clutch Side Shroud Weldment	1
110	Z18103	Friction Hinge, 1/4" x 2-1/4"	2
111	Z18208	Stainless Paddle Latch, Padlockable	1
112	Z76133	Flange Bolt, 3/8NC x 3/4"	8
113	Z79303	Dome Head Rivet, 3/16" x 250	10
114	Z92501	5/8 Seal with Vinyl Grip x 101"	1
115	Z79306	Dome Head Rivet, 5/32" x 250	4

### Radiator Shroud & Screen Door

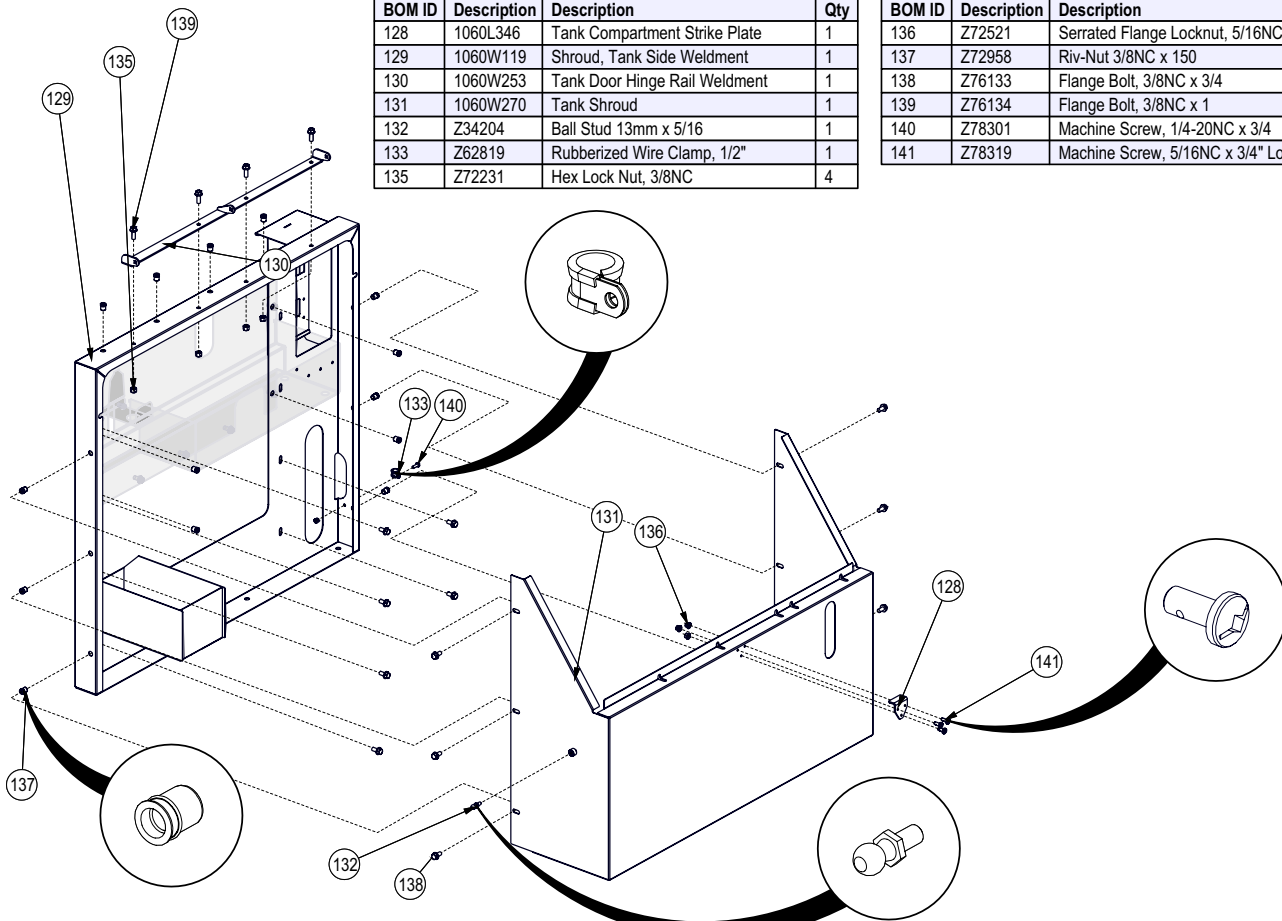
BOM ID	Part No.	Description	Qty
117	1060L210	Coolant Fill Plate	1
118	1060W124	Radiator Screen Weldment	1
119	1060W138	Radiator Screen Panel Weldment	1
120	Z18207	Spring Latch Pin, 1/2" x 1" Stroke	1
121	Z72221	Hex Lock Nut, 5/16NC	3
122	Z72752	Machine Nut, #10NF	4
123	Z72958	Rivet Nut, 3/8NC x 150	14
124	Z75203	FHCS, #10NF x 3/4"	4
125	Z76133	Flange Bolt, 3/8NC x 3/4"	2
126	Z76225	Carriage Bolt, 5/16NC x 1"	3
127	Z92501	5/8 Seal with Vinyl Grip x 83"	1

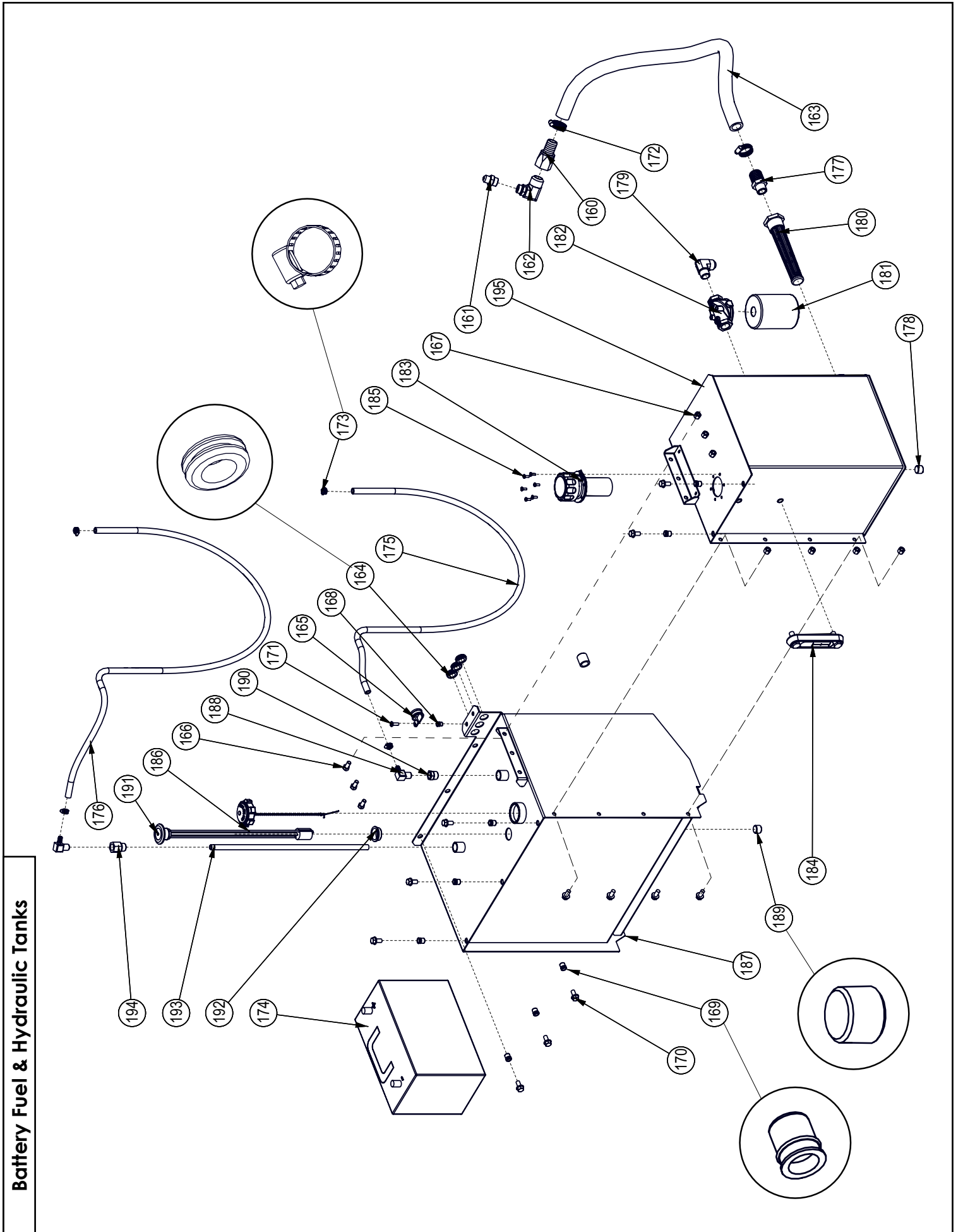


### Tank Compartment Shroud

BOM ID	Description	Description	Qty
128	1060L346	Tank Compartment Strike Plate	1
129	1060W119	Shroud, Tank Side Weldment	1
130	1060W253	Tank Door Hinge Rail Weldment	1
131	1060W270	Tank Shroud	1
132	Z34204	Ball Stud 13mm x 5/16	1
133	Z62819	Rubberized Wire Clamp, 1/2"	1
135	Z72231	Hex Lock Nut, 3/8NC	4

BOM ID	Description	Description	Qty
136	Z72521	Serrated Flange Locknut, 5/16NC	3
137	Z72958	Riv-Nut 3/8NC x 150	18
138	Z76133	Flange Bolt, 3/8NC x 3/4	12
139	Z76134	Flange Bolt, 3/8NC x 1	4
140	Z78301	Machine Screw, 1/4-20NC x 3/4	1
141	Z78319	Machine Screw, 5/16NC x 3/4" Locking	3





**Battery Fuel & Hydraulic Tanks**

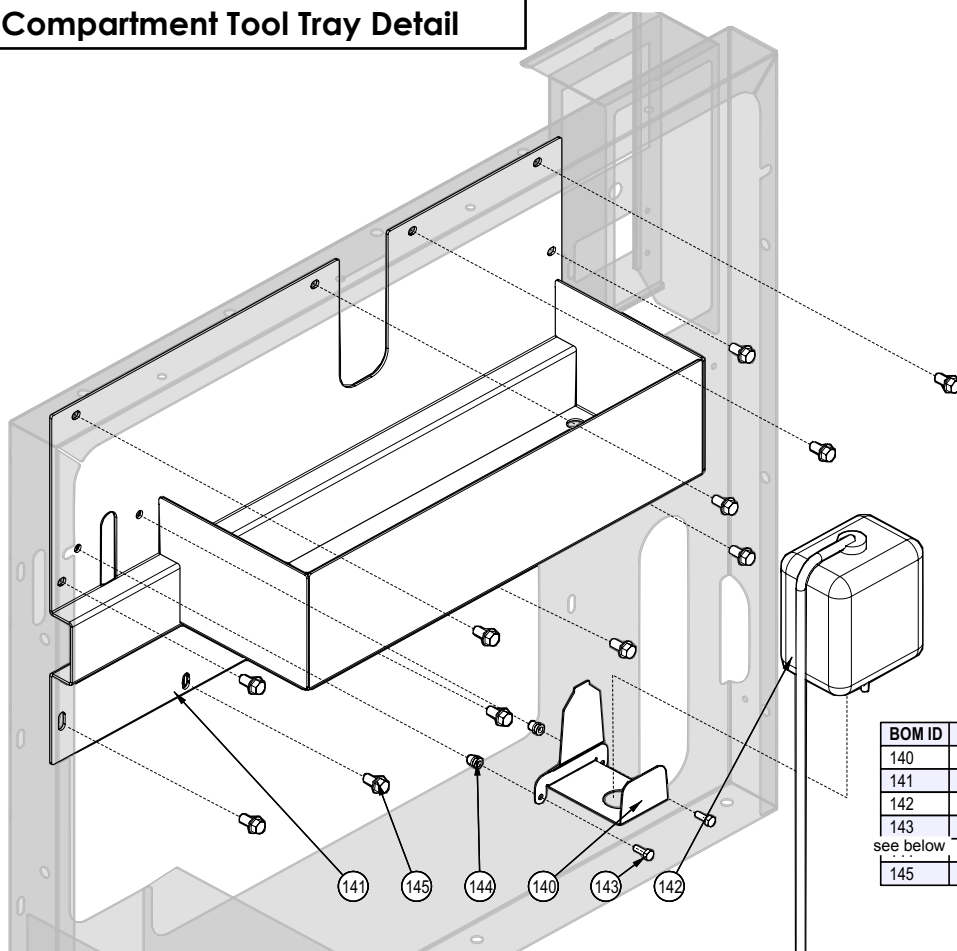
**Battery Fuel & Hydraulic Tanks Parts List**

Continued from page 15

BOM ID	Part No.	Description	Qty
160	Z51594	Straight, MHB x FJXC 1616	1
161	Z51647	Straight, MJIC x MORB 0810	1
162	Z51659	Elbow 90, MJIC x MORB 1610	1
163	Z52422	1" Tank Truck Hose x 40"	1
164	Z62823	Rubber Grommet, 5/8" x 1/8"	3
165	Z62824	Rubberized Wire Clamp, 1"	1
166	Z71307	Hex Bolt, 3/8NC x 3/4"	3
167	Z72231	Hex Lock Nut, 3/8NC	7
168	Z72955	Rivet Nut, 1/4NC x 165	1
169	Z72958	Rivet Nut, 3/8NC x 150	8
170	Z76133	Flange Bolt, 3/8NC x 3/4"	12
171	Z78301	Machine Screw, 1/4NC x 3/4"	1
172	Z79401	Hose Clamp, SAE #16 (1-1/2")	2
173	Z79405	Hose Clamp, SAE #4 (5/8")	4
174	Z93217	Battery, 31A-950	1
175	Z93311a	Fuel Line, 5/16 x 58"	1
176	Z93311b	Fuel Line, 5/16 x 66"	1
177	Z51188	Straight, MHB x MP 1612	1
178	Z51192	Socket Plug, MP 08	1
179	Z51454	Elbow 90, MJIC X MP 1212	1
180	Z55101	Suction Strainer, MP20	1
181	Z55301	Particulate Filter, FP12	1
182	Z55302	Filter Cap, MP12 x FP12	1
183	Z55403	Filler Breather Cap x 400um Locking	1
184	Z55908	Level Thermometer, 1/2NC x 5"	1
185	Z78303	Machine Screw, #10NF x 1/2"	6
186	1060A140	TIPS Diesel Fuel Cap, Tethered	1
187	1060W115	Fuel Tank Weldment	1
188	Z51189	Elbow 90, MHB x MP 0506	2
189	Z51192	Socket Plug, MP 08	1
190	Z51226	Straight, MP x FP 0806	1
191	Z93112	Fuel Gauge, Grommet Mount x 18"	1
192	Z93115	Fuel Gauge Grommet for Z93113	1
193	1060S103	Fuel Pickup Tube	1
194	1060m103	Custom Adapter MP08 x FP06	1
195	1060W114	Hydraulic Tank Weldment	1

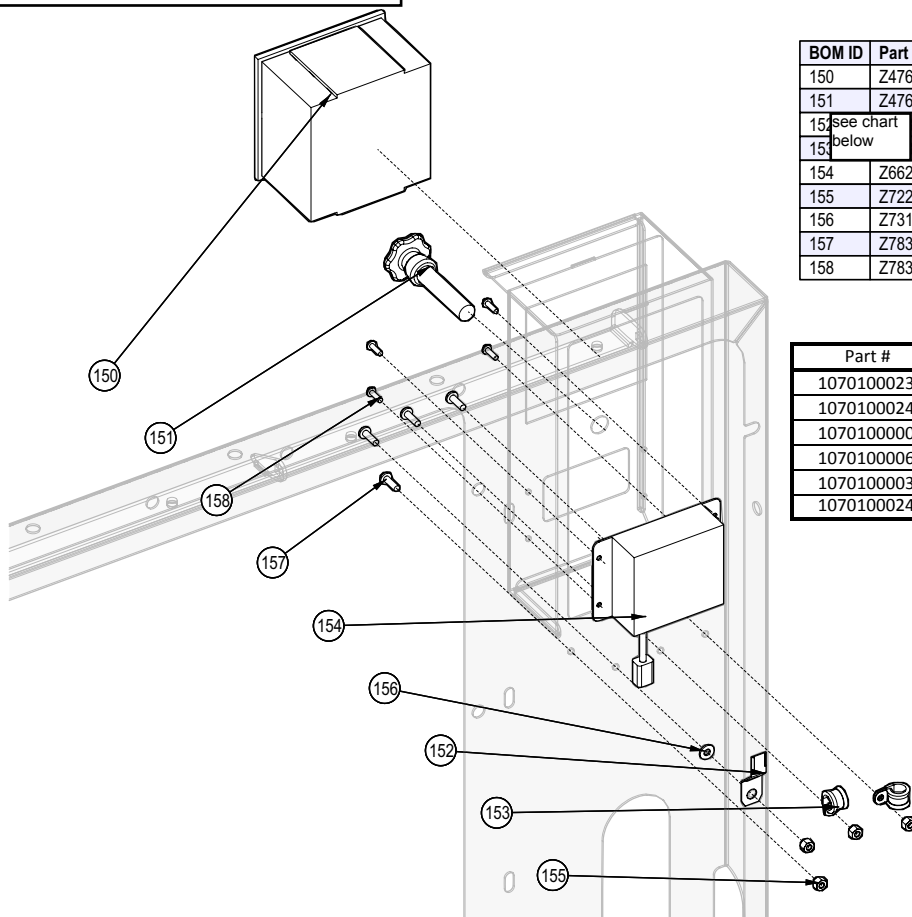


**Tank Compartment Tool Tray Detail**



BOM ID	Part #	Description	Qty
140	1060L183	Coolant Overflow Bracket	1
141	1060W133	Toolbox Rail Weldment	1
142	Z47608-3	Coolant Overflow Bottle Kit	1
143	Z71107	Hex Bolt, 1/4NC x 3/4	2
see below	Z72955	Riv-Nut 1/4NC x 165	2
145	Z76133	Flange Bolt, 3/8NC x 3/4	11

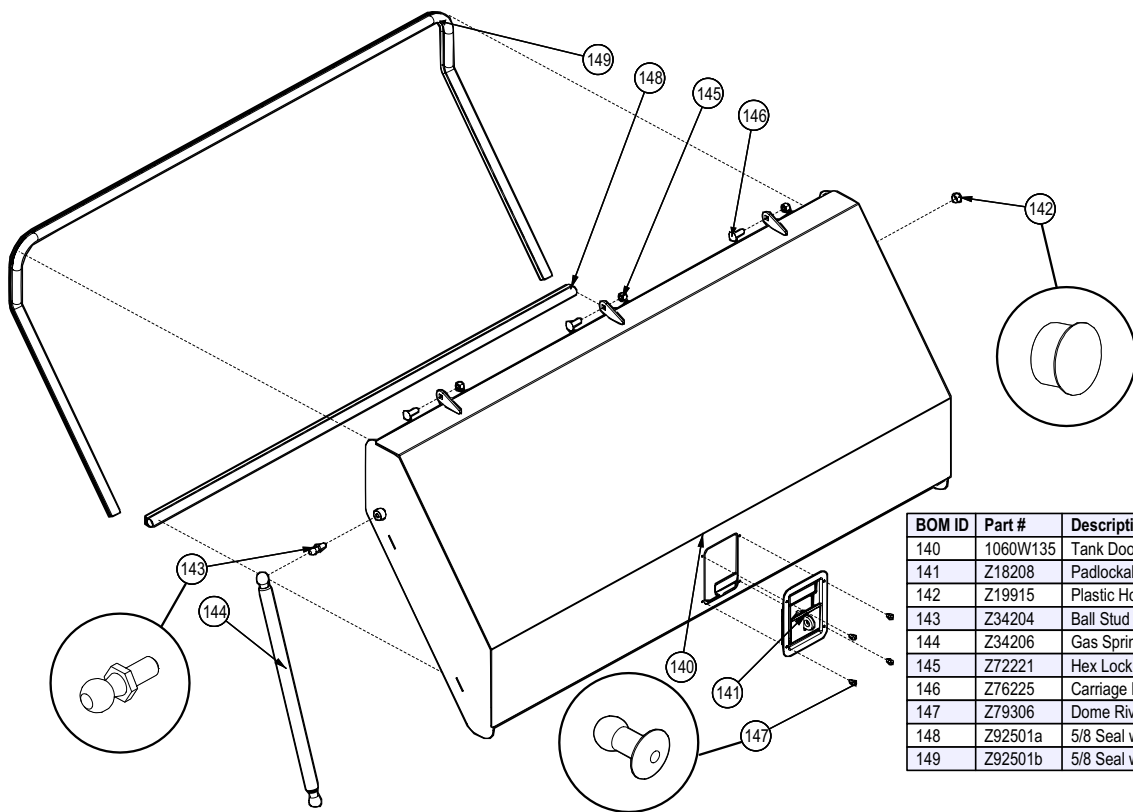
**Control Panel**



BOM ID	Part #	Description	Qty
150	Z47608-1	Engine Control Box	1
151	Z47608-2	Kubota Throttle Assembly	1
152 see chart below	16	Deutsch Mounting Clip	1
153	19	Rubberized Wire Clamp, 1/2"	2
154	Z66204	Control, IntelliFEED	1
155	Z72211	Hex Lock Nut, 1/4NC	4
156	Z73111	Flat Washer, 1/4	1
157	Z78301	Machine Screw, 1/4-20NC x 3/4	4
158	Z78312	Machine Screw, #10-24NC x 5/8	4

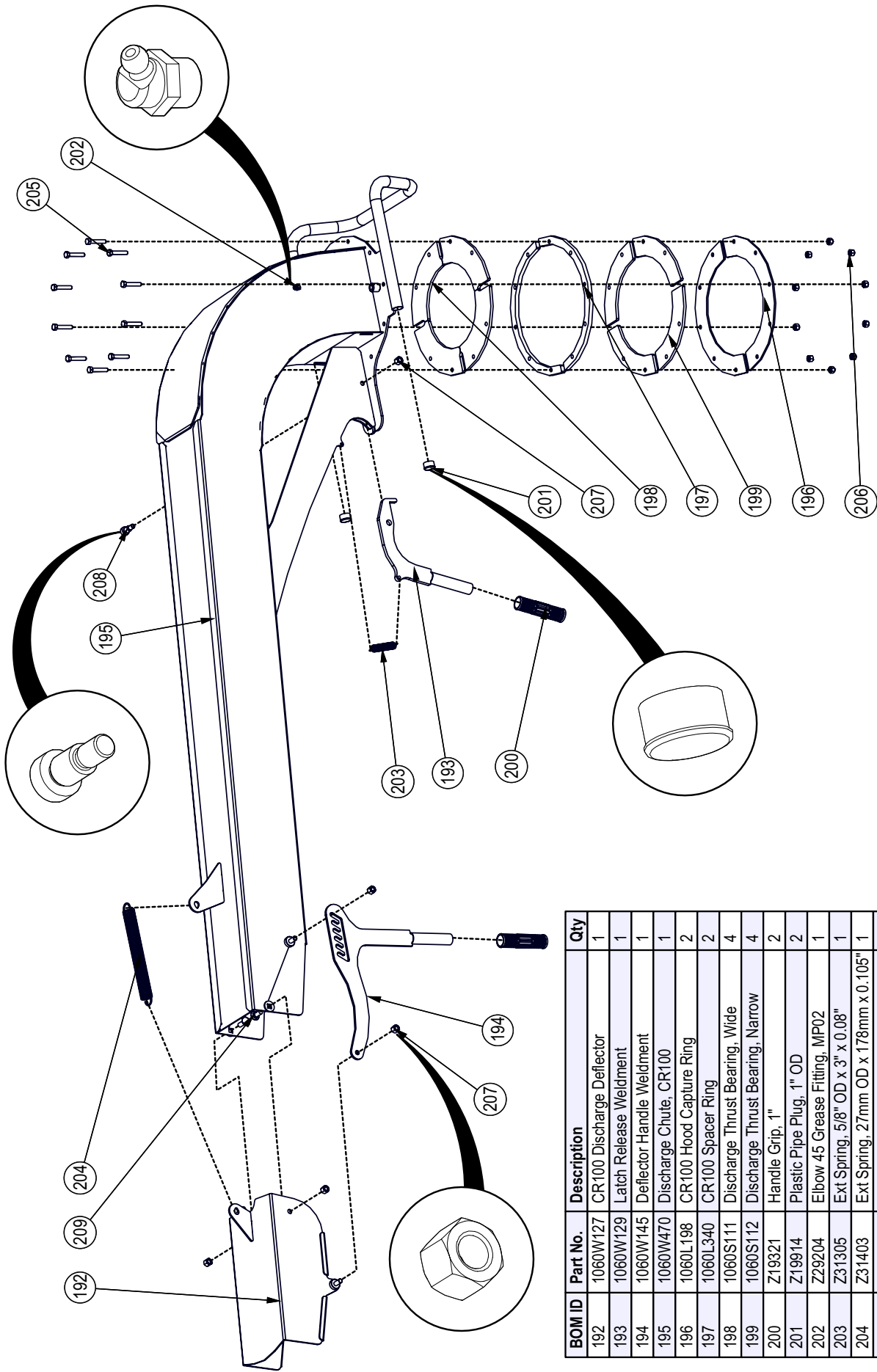
Part #	Description
107010002329	Lofa Panel
107010002445	Tachometer
107010000007	10' vernier cable
107010000610	Black Knob
107010000351	Pivot
107010002493	Threaded Hub

**Tank Compartment Lid**



BOM ID	Part #	Description	Qty
140	1060W135	Tank Door	1
141	Z18208	Padlockable Paddle Latch	1
142	Z19915	Plastic Hole Plug 9/16"	1
143	Z34204	Ball Stud 13mm x 5/16	1
144	Z34206	Gas Spring, 10mm x 11" Stroke 50lbs	1
145	Z72221	Hex Lock Nut, 5/16NC	3
146	Z76225	Carriage Bolt, 5/16NC x 1	3
147	Z79306	Dome Rivet, 5/32" x 1/4"	4
148	Z92501a	5/8 Seal with Vinyl Grip x 42"	1
149	Z92501b	5/8 Seal with Vinyl Grip x 99"	1

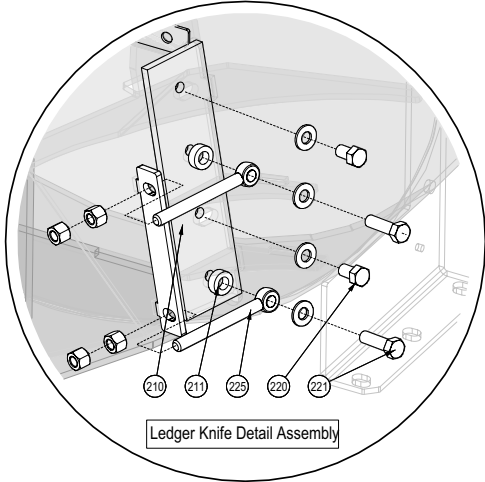
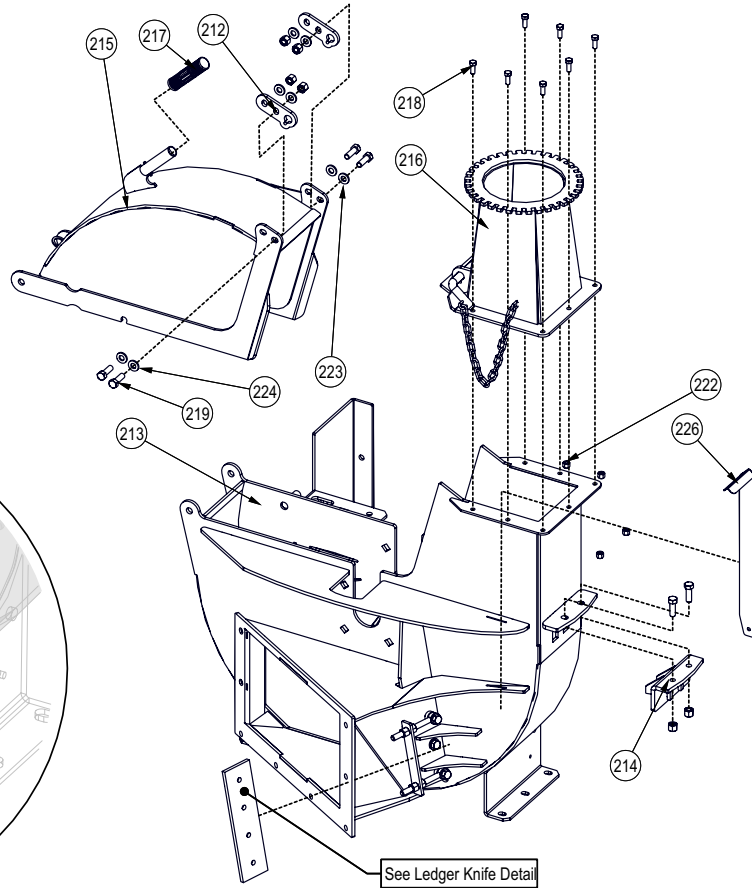
**Discharge Chute**



BOM ID	Part No.	Description	Qty
192	1060W127	CR100 Discharge Deflector	1
193	1060W129	Latch Release Weldment	1
194	1060W145	Deflector Handle Weldment	1
195	1060W470	Discharge Chute, CR100	1
196	1060L198	CR100 Hood Capture Ring	2
197	1060L340	CR100 Spacer Ring	2
198	1060S111	Discharge Thrust Bearing, Wide	4
199	1060S112	Discharge Thrust Bearing, Narrow	4
200	Z19321	Handle Grip, 1"	2
201	Z19914	Plastic Pipe Plug, 1" OD	2
202	Z29204	Elbow 45 Grease Fitting, MP02	1
203	Z31305	Ext Spring, 5/8" OD x 3" x 0.08"	1
204	Z31403	Ext Spring, 27mm OD x 178mm x 0.105"	1
205	Z71217	Hex Bolt, 5/16NC x 1-3/4"	10
206	Z72221	Hex Lock Nut, 5/16NC	10
207	Z72231	Hex Lock Nut, 3/8NC	5
208	Z75552	Shoulder Bolt, 1/2" x 5/8"	1
209	Z76231	Carriage Bolt, 3/8NC x 1"	2

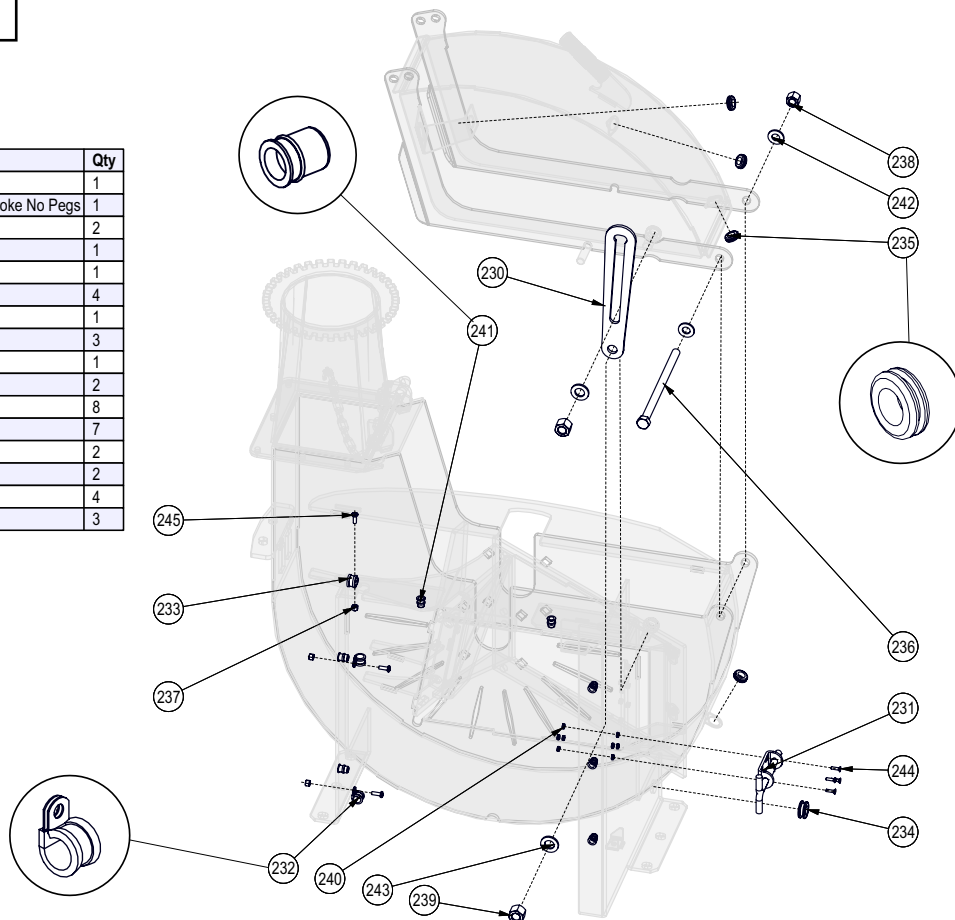
### Rotor Housing Rear

BOM ID	Part No.	Description	Qty
210	1019M904	Knife, BX92 Ledger	1
211	1021L150	Ledger Washer	2
212	1060L284	Hood Closure Interface	2
213	1060W102	Lower Housing Weldment, Trailer	1
214	1060W103	Twig Breaker, CR100	1
215	1060W126	CR100 Upper Housing	1
216	1060W150	Square to Round Weldment	1
217	Z19321	Handle Grip, 1"	1
218	Z71310	Hex Bolt, 3/8NC x 1"	7
219	Z71515	Hex Bolt, 1/2NC x 1-1/2"	6
220	Z71572G8	Hex Bolt, 1/2NF x 7/8 Gr8	2
221	Z71579G8	Hex Bolt, 1/2NF x 1-3/4" G8	2
222	Z72231	Hex Lock Nut, 3/8NC	4
223	Z72251	Hex Lock Nut, 1/2NC	10
224	Z73151	SAE Washer, 1/2"	12
225	Z76552	Rod End, 1/2NC x 5" Full Threads	2
226	1012L269	Gauge, Ledger Setting	1

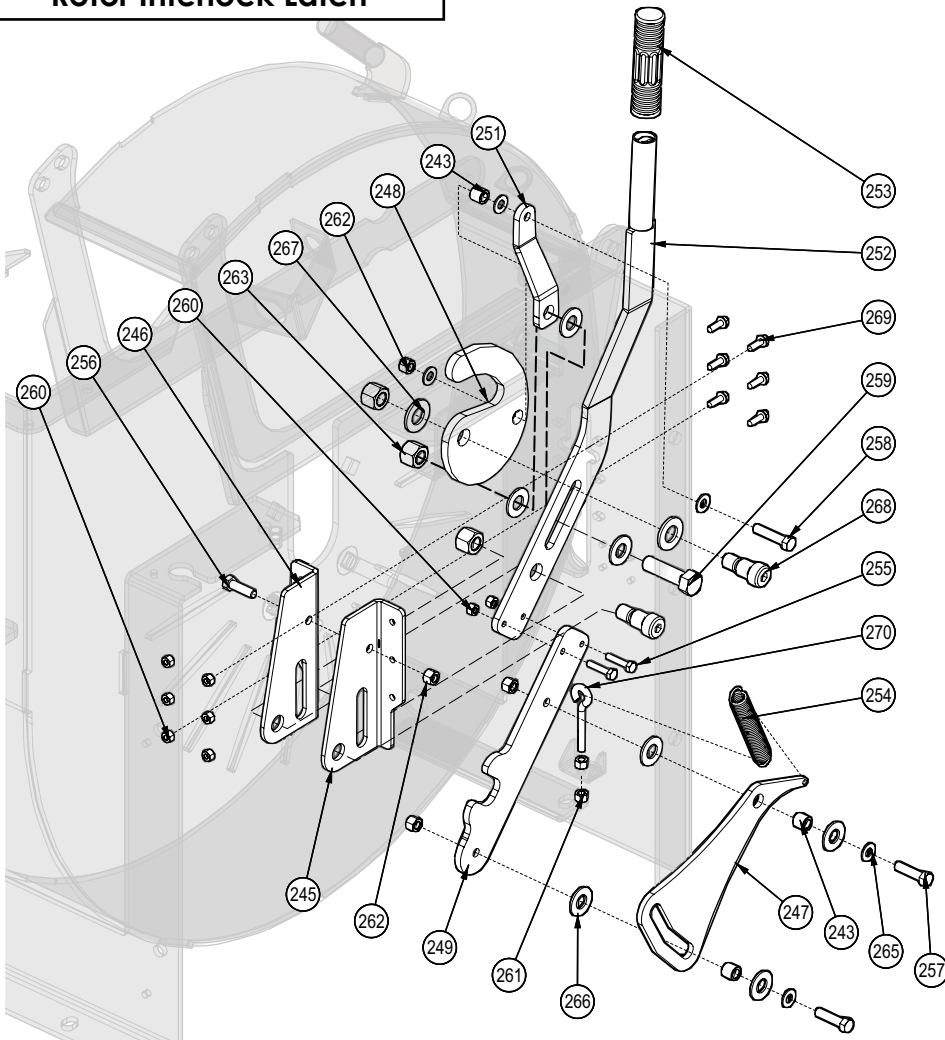


### Rotor Housing Front

BOM ID	Part No.	Description	Qty
230	1021L155	Rotation Stop	1
231	Z18210	Spring Latch Pin, 1/2" x 1" Stroke No Pegs	1
232	Z62819	Rubberized Wire Clamp, 1/2"	2
233	Z62821	Rubberized Wire Clamp, 5/8"	1
234	Z62822	Rubber Grommet, 3/4" x 1/4"	1
235	Z62823	Rubber Grommet, 5/8" x 1/8"	4
236	Z71662	Hex Bolt, 5/8NC x 10"	1
237	Z72211	Hex Lock Nut, 1/4NC	3
238	Z72261	Hex Lock Nut, 5/8NC	1
239	Z72271	Hex Lock Nut, 3/4NC	2
240	Z72752	Machine Nut, #10NF	8
241	Z72959	Rivet Nut, 3/8NC x 312	7
242	Z73161	SAE Washer, 5/8"	2
243	Z73171	SAE Washer, 3/4"	2
244	Z75203	FHCS, #10NF x 3/4"	4
245	Z78301	Machine Screw, 1/4NC x 3/4"	3

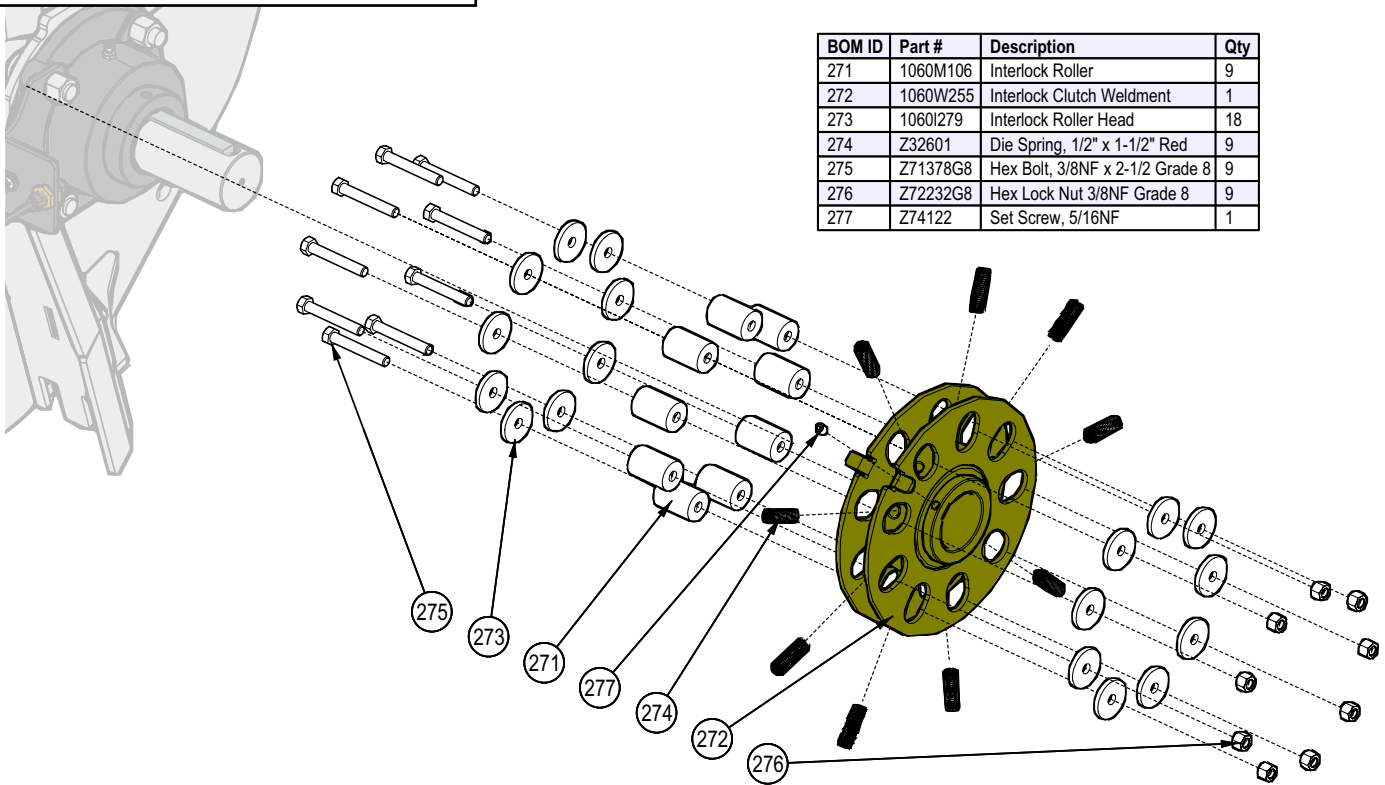


**Rotor Interlock Latch**



BOM ID	Part #	Description	Qty
243	1056M115	Spacer, Shredder .580	3
245	1060L281	Interlock Handle Base LH	1
246	1060L281H	1060L281 Mirror	1
247	1060L282	Interlock Early Warning	1
248	1060L287	Rotor Hood Safety Latch	1
249	1060L328	Interlock Tip	1
251	1060L330	Linkage	1
252	1060W256	Interlock Engage Handle	1
253	Z19321	Grip, 1" x 5"	1
254	Z31401	Spring 3/4 x 4" Heavy	1
255	Z71112	Hex Bolt, 1/4NC x 1-1/4	2
256	Z71312	Hex Bolt, 3/8NC x 1-1/4	1
257	Z71315	Hex Bolt, 3/8NC x 1-1/2	2
258	Z71317	Hex Bolt, 3/8NC x 1-3/4	1
259	Z71622	Hex Bolt, 5/8NC x 2-1/4	1
260	Z72211	Hex Lock Nut, 1/4NC	8
261	Z72221	Hex Lock Nut, 5/16NC	2
262	Z72231	Hex Lock Nut, 3/8NC	4
263	Z72261	Hex Lock Nut, 5/8NC	3
265	Z73131	Flat Washer, 3/8	5
266	Z73161	Flat Washer, 5/8	7
267	Z73171	Flat Washer, 3/4"	2
268	Z75572	Shoulder Bolt, 3/4 x 3/4	2
269	Z76111	Flange Bolt, 1/4NC x 3/4	6
270	Z76522	Eye Bolt 5/16NC x 2	1

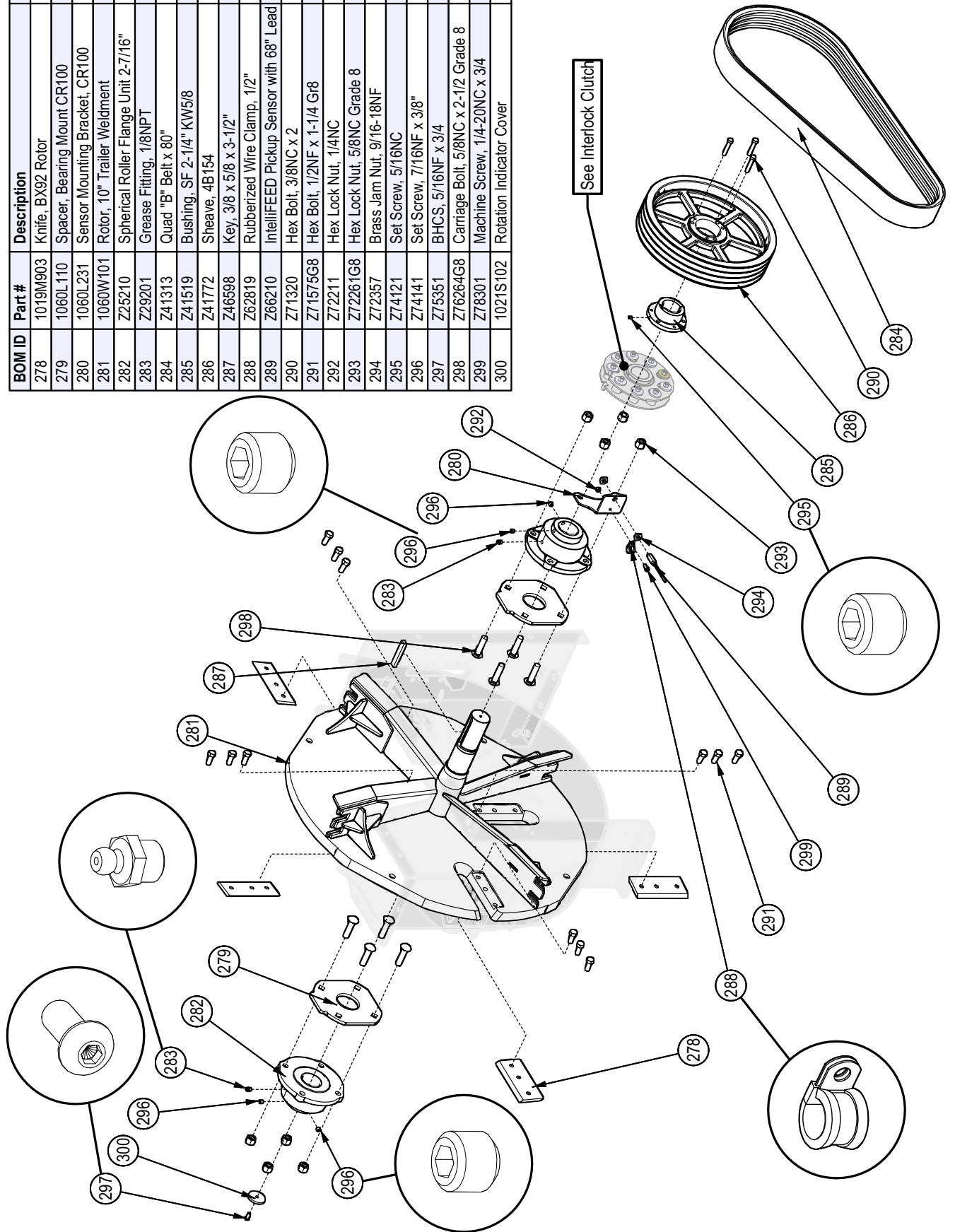
**Rotor Interlock Clutch**



BOM ID	Part #	Description	Qty
271	1060M106	Interlock Roller	9
272	1060W255	Interlock Clutch Weldment	1
273	1060I279	Interlock Roller Head	18
274	Z32601	Die Spring, 1/2" x 1-1/2" Red	9
275	Z71378G8	Hex Bolt, 3/8NF x 2-1/2 Grade 8	9
276	Z72232G8	Hex Lock Nut 3/8NF Grade 8	9
277	Z74122	Set Screw, 5/16NF	1

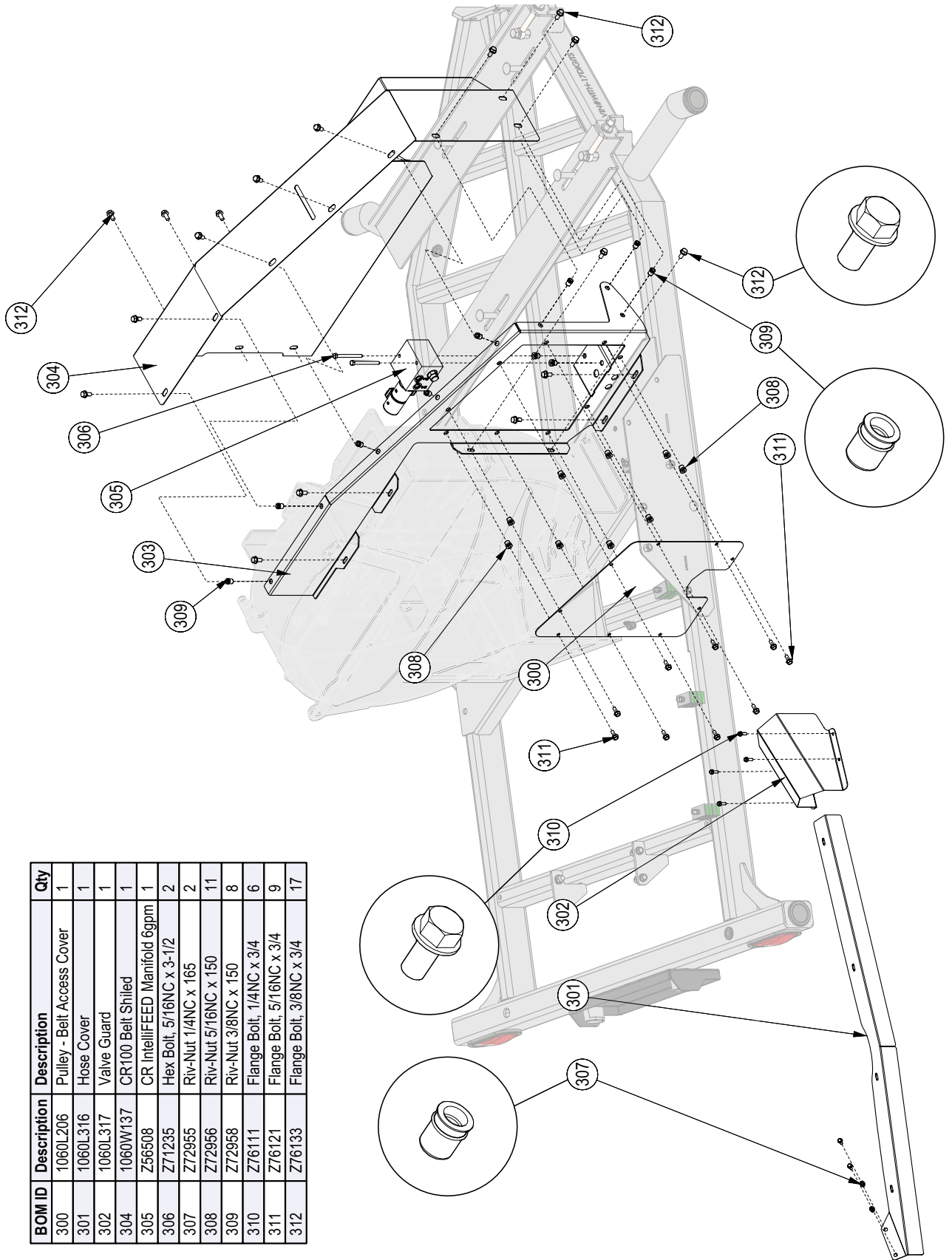
**Rotor Assembly**

BOM ID	Part #	Description	Qty
278	1019M903	Knife, BX92 Rotor	4
279	1060L110	Spacer, Bearing Mount CR100	2
280	1060L231	Sensor Mounting Bracket, CR100	1
281	1060W101	Rotor, 10" Trailer Weldment	1
282	Z25210	Spherical Roller Flange Unit 2-7/16"	2
283	Z29201	Grease Fitting, 1/8NPT	2
284	Z41313	Quad "B" Belt x 80"	1
285	Z41519	Bushing, SF 2-1/4" KW5/8	1
286	Z41772	Sheave, 4B154	1
287	Z46598	Key, 3/8 x 5/8 x 3-1/2"	1
288	Z62819	Rubberized Wire Clamp, 1/2"	1
289	Z66210	IntelliFEED Pickup Sensor with 68" Lead	1
290	Z71320	Hex Bolt, 3/8NC x 2	3
291	Z71575G8	Hex Bolt, 1/2NF x 1-1/4 Gr8	12
292	Z72211	Hex Lock Nut, 1/4NC	1
293	Z72261G8	Hex Lock Nut, 5/8NC Grade 8	8
294	Z72357	Brass Jam Nut, 9/16-18NF	2
295	Z74121	Set Screw, 5/16NC	1
296	Z74141	Set Screw, 7/16NF x 3/8"	4
297	Z75351	BHCS, 5/16NF x 3/4	1
298	Z76264G8	Carriage Bolt, 5/8NC x 2-1/2 Grade 8	8
299	Z78301	Machine Screw, 1/4-20NC x 3/4	1
300	1021S102	Rotation Indicator Cover	1



**Pulley Shroud**

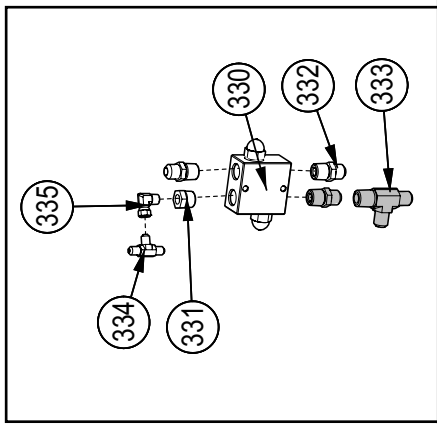
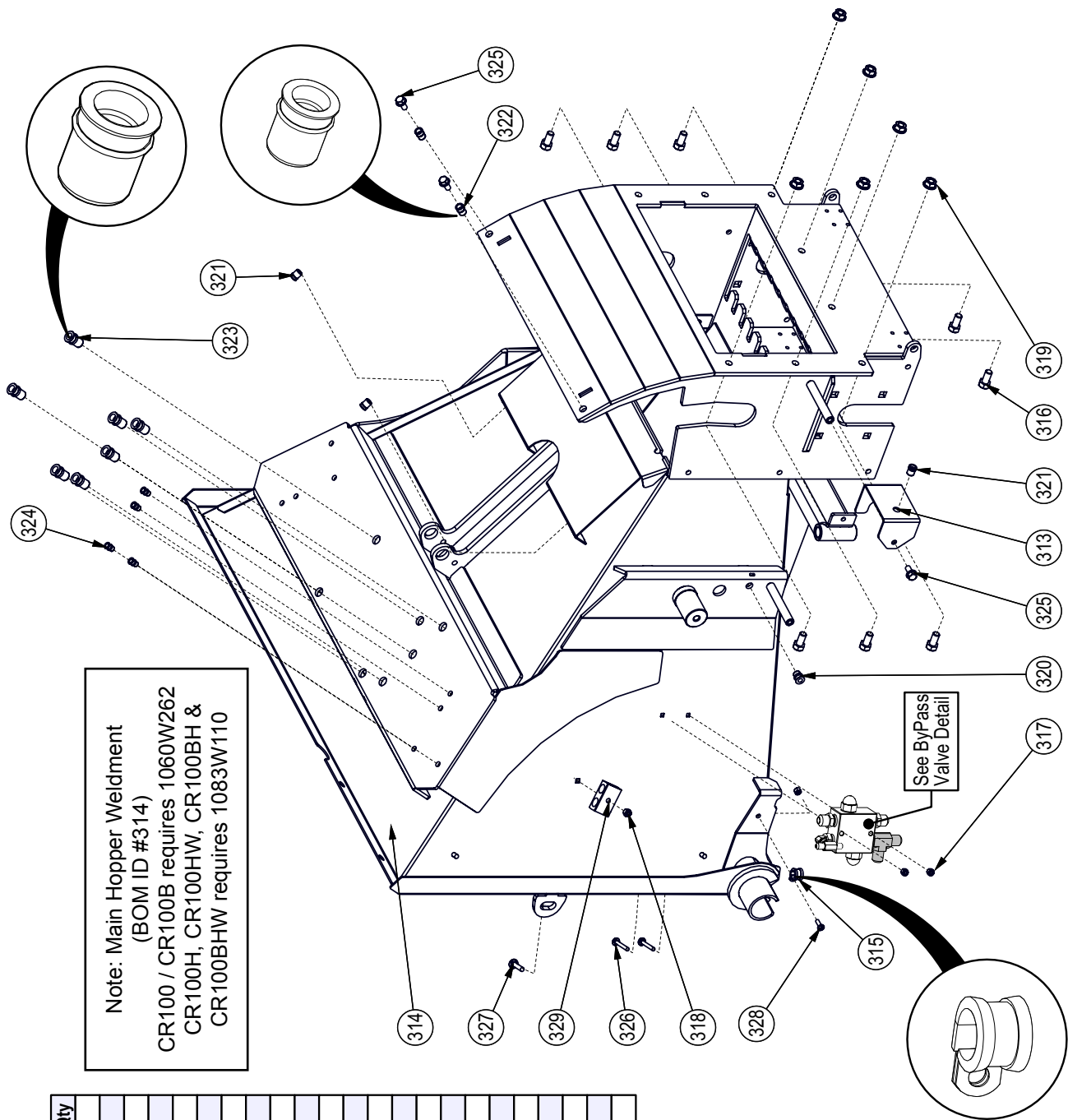
BOM ID	Description	Qty
300	1060L206 Pulley - Belt Access Cover	1
301	1060L316 Hose Cover	1
302	1060L317 Valve Guard	1
304	1060W137 CR100 Belt Shiled	1
305	Z66508 CR IntellIFEED Manifold 6gpm	1
306	Z71235 Hex Bolt, 5/16NC x 3-1/2	2
307	Z72955 Riv-Nut 1/4NC x 165	2
308	Z72956 Riv-Nut 5/16NC x 150	11
309	Z72958 Riv-Nut 3/8NC x 150	8
310	Z76111 Flange Bolt, 1/4NC x 3/4	6
311	Z76121 Flange Bolt, 5/16NC x 3/4	9
312	Z76133 Flange Bolt, 3/8NC x 3/4	17



**Hopper Top / Back View**

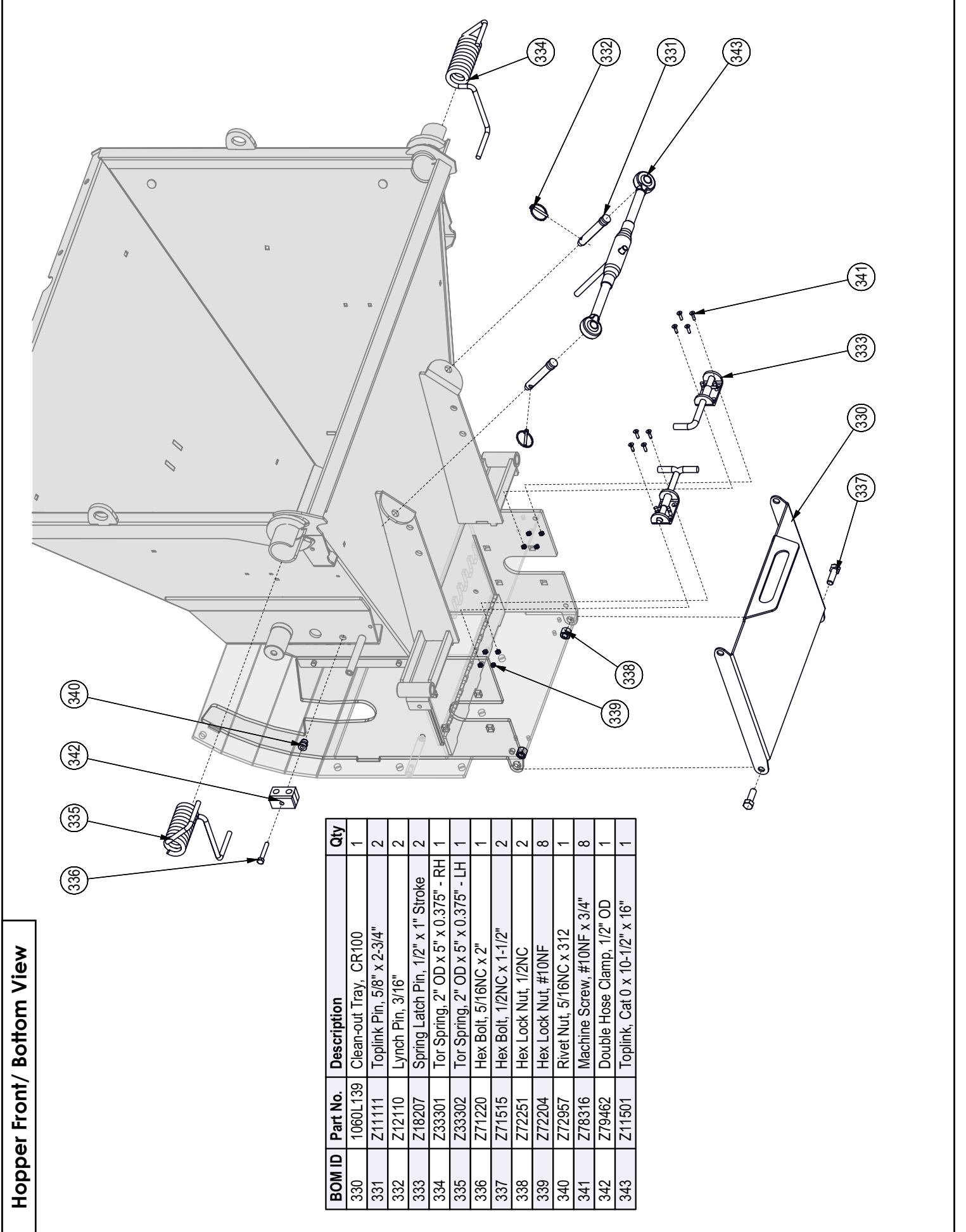
BOM ID	Description	Qty
313	102L300 Bridge Guard Mount	1
314	1060W262 Main Hopper Weldment, CR100	1
315	See Note	1
316	Rubberized Wire Clamp, 1/2"	8
317	Hex Bolt, 1/2NC x 1	2
318	Hex Lock Nut, 1/4NC	1
319	Hex Lock Nut, 5/16NC	6
320	Flange Nut 1/2NC	1
321	Riv-Nut 5/16NC x 312	3
322	Riv-Nut 3/8NC x 150	2
323	Riv-Nut 3/8NC x 312	8
324	Riv-Nut 1/2NC x 350	4
325	Riv-Nut, 1/4NC x 260	3
326	Flange Bolt, 3/8NC x 3/4	2
327	Carriage Bolt, 1/4NC x 2	1
328	Carriage Bolt, 5/16NC x 1-1/2	1
329	Machine Screw, 1/4-20NC x 3/4	1
330	Double Hose Clamp 1 1/16"	1
331	Crossover Relief Valve	1
332	Reducer, 1/2MP x 1/4FP	3
333	#8 JIC x 1/2NPT	1
334	Tee MJIC x MP x MJIC 080808	1
335	Tee MJIC x MJIC x MJIC 040404	1
336	Elbow 90 MP x FJICX 0404	1

**Note: Main Hopper Weldment (BOM ID #314)**  
 CR100 / CR100B requires 1060W262  
 CR100H, CR100HW, CR100BH &  
 CR100BHW requires 1083W110



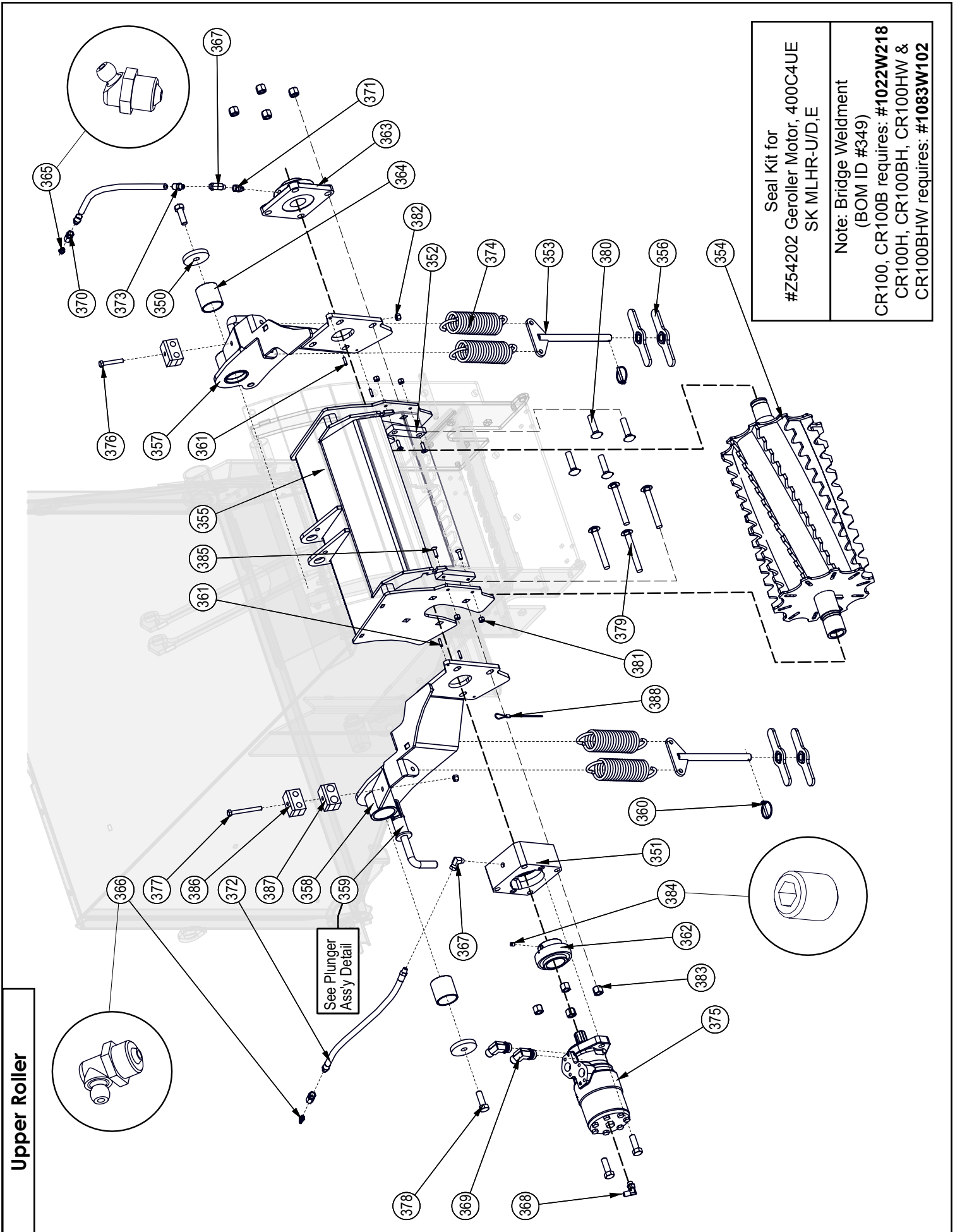
**Bypass Valve Detail**  
 Note: Fitting ID #333 replaces ID #332 for Model CR100H, CR100HW, CR100BH & CR100BHW





**Hopper Front/ Bottom View**

BOM ID	Part No.	Description	Qty
330	1060L139	Clean-out Tray, CR100	1
331	Z11111	Toplink Pin, 5/8" x 2-3/4"	2
332	Z12110	Lynch Pin, 3/16"	2
333	Z18207	Spring Latch Pin, 1/2" x 1" Stroke	2
334	Z33301	Tor Spring, 2" OD x 5" x 0.375" - RH	1
335	Z33302	Tor Spring, 2" OD x 5" x 0.375" - LH	1
336	Z71220	Hex Bolt, 5/16NC x 2"	1
337	Z71515	Hex Bolt, 1/2NC x 1-1/2"	2
338	Z72251	Hex Lock Nut, 1/2NC	2
339	Z72204	Hex Lock Nut, #10NF	8
340	Z72957	Rivet Nut, 5/16NC x 3/4"	1
341	Z78316	Machine Screw, #10NF x 3/4"	8
342	Z79462	Double Hose Clamp, 1/2" OD	1
343	Z11501	Toplink, Cat 0 x 10-1/2" x 16"	1

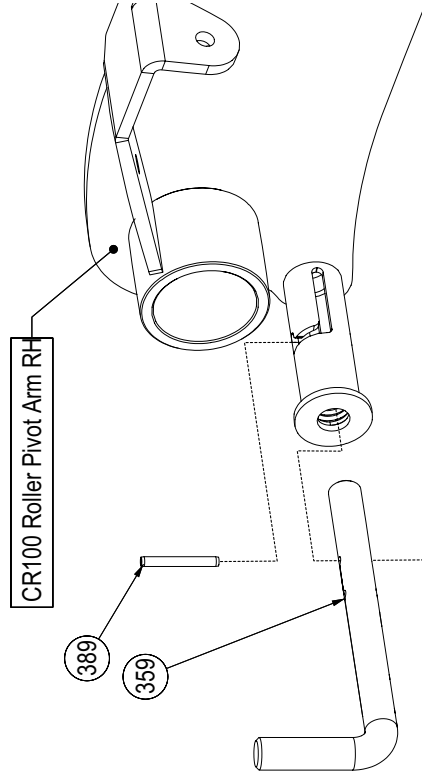


**Upper Roller Parts List**

Continued from page 26

BOM ID	Part No.	Description	Qty
350	1015L618	Capture Washer	2
351	1022M218	UC Motor Bearing Housing	1
352	1022S208	Rotor Hood Slide	2
353	1022W206	Spring Yoke	2
354	1060W311	Upper Feed Roller, Spiral	1
355	1060W307	Bridge, Guarded	1
356	1022W220	Nut Handle	4
357	1060W303	Weldment, Roller Pivot Arm LH	1
358	1060W303H	CR100 Roller Pivot Arm RH	1
359	1061M108	L Handled Plunger, Compact	1
360	Z12110	Lynch Pin, 3/16"	2
361	Z14152	Roll Pin, 3/16" x 3/4"	4
362	Z21903	Ball Bearing, UC209-28 x Insert	1
363	Z25204	4-Bolt Flange Bearing, UCF208-24	1
364	Z27101	Fiberglide Bearing, 1-3/4" ID x 2" long x 1/8" wall	2
365	Z29204	Elbow 45 Grease Fitting, MP02	1
366	Z29207	Elbow 90 Grease Fitting, MP02	1
367	Z29307	Elbow 90 Grease Fitting, MP x FPX 0202	2
368	Z51657	Elbow 90, MJIC x MORB 0404	1
369	Z51658	Elbow 90, MJIC x MORB 0810	2
370	Z29302	Grease Fitting, FP x FPX 0202	2
371	Z29311	Grease Fitting, MP x FPX 0202	1
372	Z29312	1/4" Grease Whip, MP02 x MP02 x 13"	1
373	Z29312	1/4" Grease Whip, MP02 x MP02 x 13"	1
374	Z31501	Ext Spring, 2" OD x 7" x 0.250"	4
375	Z54203	Geroller Motor, 400CCR x 6B Spline	1
376	Z71220	Hex Bolt, 5/16NC x 2"	1
377	Z71230	Hex Bolt, 5/16NC x 3"	1
378	Z71515	Hex Bolt, 1/2NC x 1-1/2"	4
379	Z762511	Carriage Bolt, 1/2NC x 4"	4
380	Z76255	Carriage Bolt, 1/2NC x 2"	4
381	Z72211	Hex Lock Nut, 1/4NC	4
382	Z72221	Hex Lock Nut, 5/16NC	2
383	Z72251	Hex Lock Nut, 1/2NC	8
384	Z74122	Set Screw, 5/16NF x 3/8"	1
385	Z75211	FHCS, 1/4NC x 7/8"	4
386	Z79462	Double Hose Clamp, 1/2" OD	2
387	Z79463	Double Hose Clamp, 1 1/16" OD	1
388	Z92110	Aircraft Cable, 1/16" x 24"	1
389	Z14151	Roll Pin, 3/16" x 1-1/2"	1

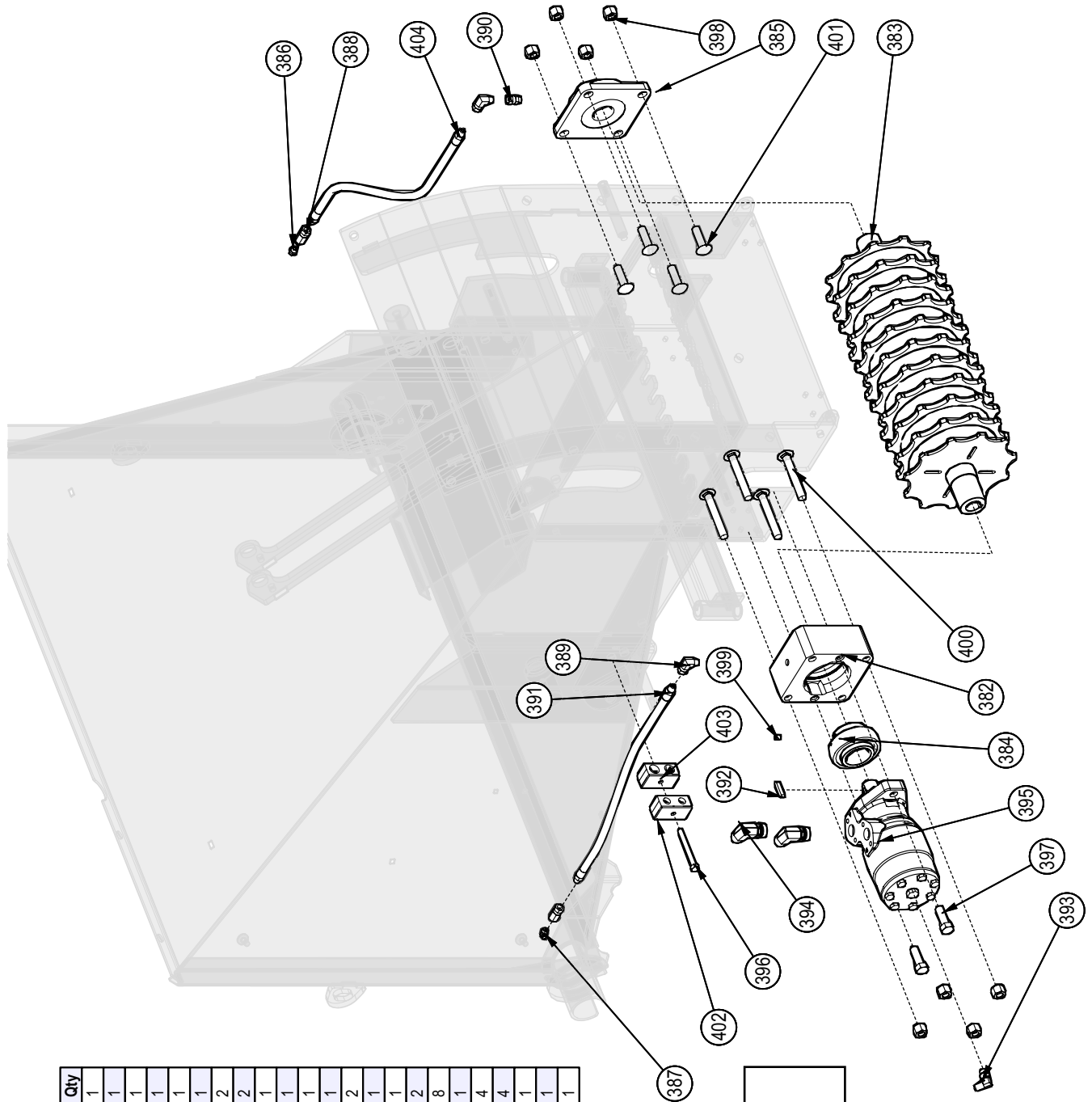
**Plunger Assembly Detail**



**Lower Roller**

BOM ID	Part #	Description	Qty
382	1022M218	UC Motor Bearing Housing	1
383	1022W205	Lower Feed Roll	1
384	Z21903	Ball Bearing Insert 1-3/4"	1
385	Z25204	4-Bolt Bearing 1-1/2" Bore	1
386	Z29204	Grease Fitting, 1/8NPT x 45	1
387	Z29207	Grease Zerk, MP02 x 90	1
388	Z29302	Straight, FP x FPX 0202	2
389	Z29307	Elbow 90, MP x FPX 0202	2
390	Z29311	Straight, MP x FPX 0202	1
391	Z29313b	1/4" Grease Whip, MP02 x MP02 x 16"	1
392	Z46594	Blind Chipper Key 1/4 x 1-1/4	1
393	Z51657	Elbow 90, MORB x MJIC 0404	1
394	Z51658	Elbow 90 MJIC x MORB 0810	2
395	Z54201	Geroller Motor, 315C4UE	1
396	Z71230	Hex Bolt, 5/16NC x 3	1
397	Z71515	Hex Bolt, 1/2NC x 1-1/2	2
398	Z72251	Hex Lock Nut, 1/2NC	8
399	Z74122	Set Screw, 5/16NF	1
400	Z762510	Carriage Bolt, 1/2NC x 3-1/2	4
401	Z76258	Carriage Bolt, 1/2NC x 1-3/4	4
402	Z79462	Double Hose Clamp 1/2"	1
403	Z79463	Double Hose Clamp 1 1/16"	1
404	Z92313b	1/4" Grease Whip, MP02 x MP02 x 16"	1

**Seal Kit for  
#Z54201 Geroller Motor, 315C4UE  
SK MLHR-U/D,E**

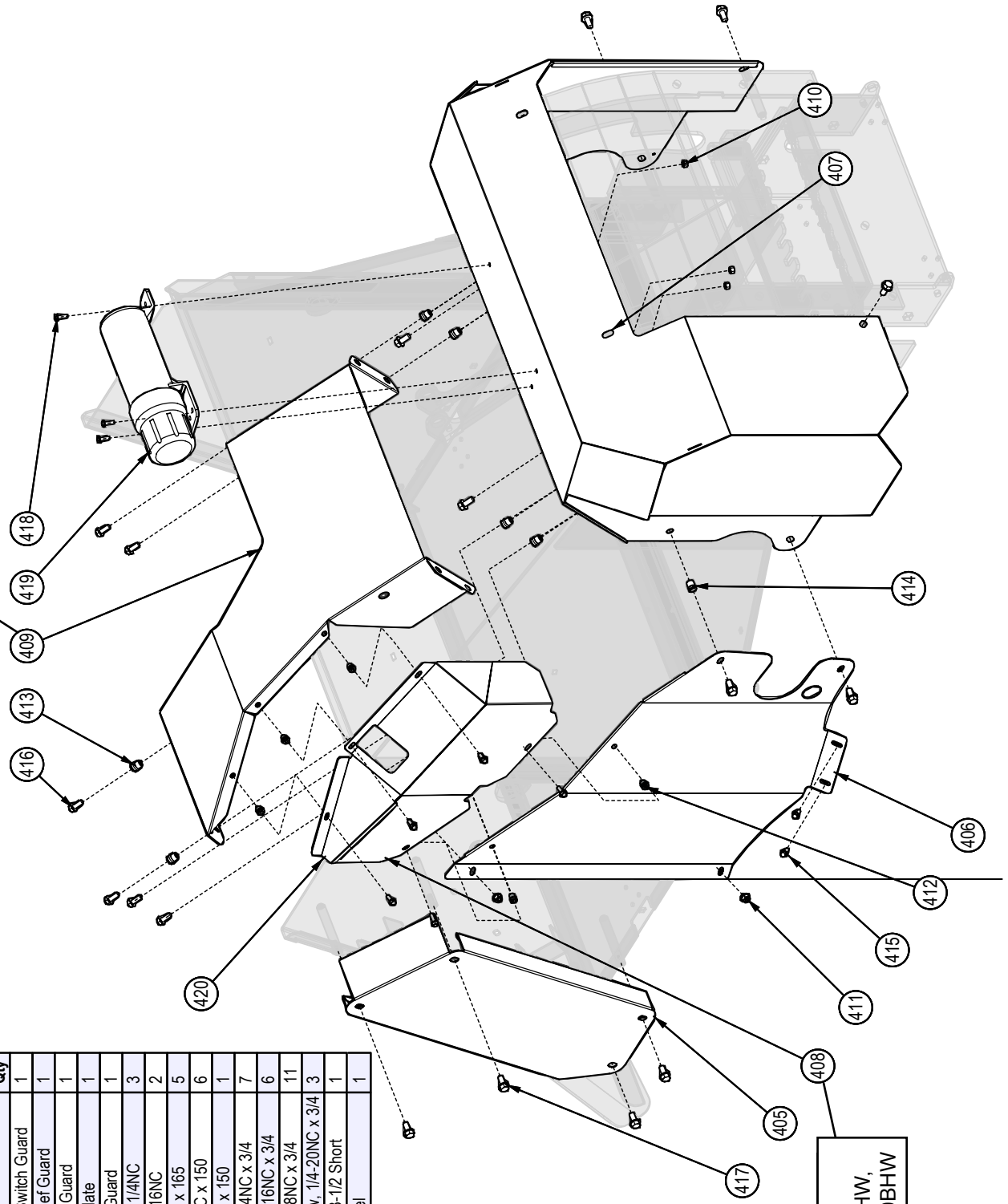


**Hopper Roller Shrouding**

for Model  
CR100H, CR100HW, CR100BH & CR100BHW

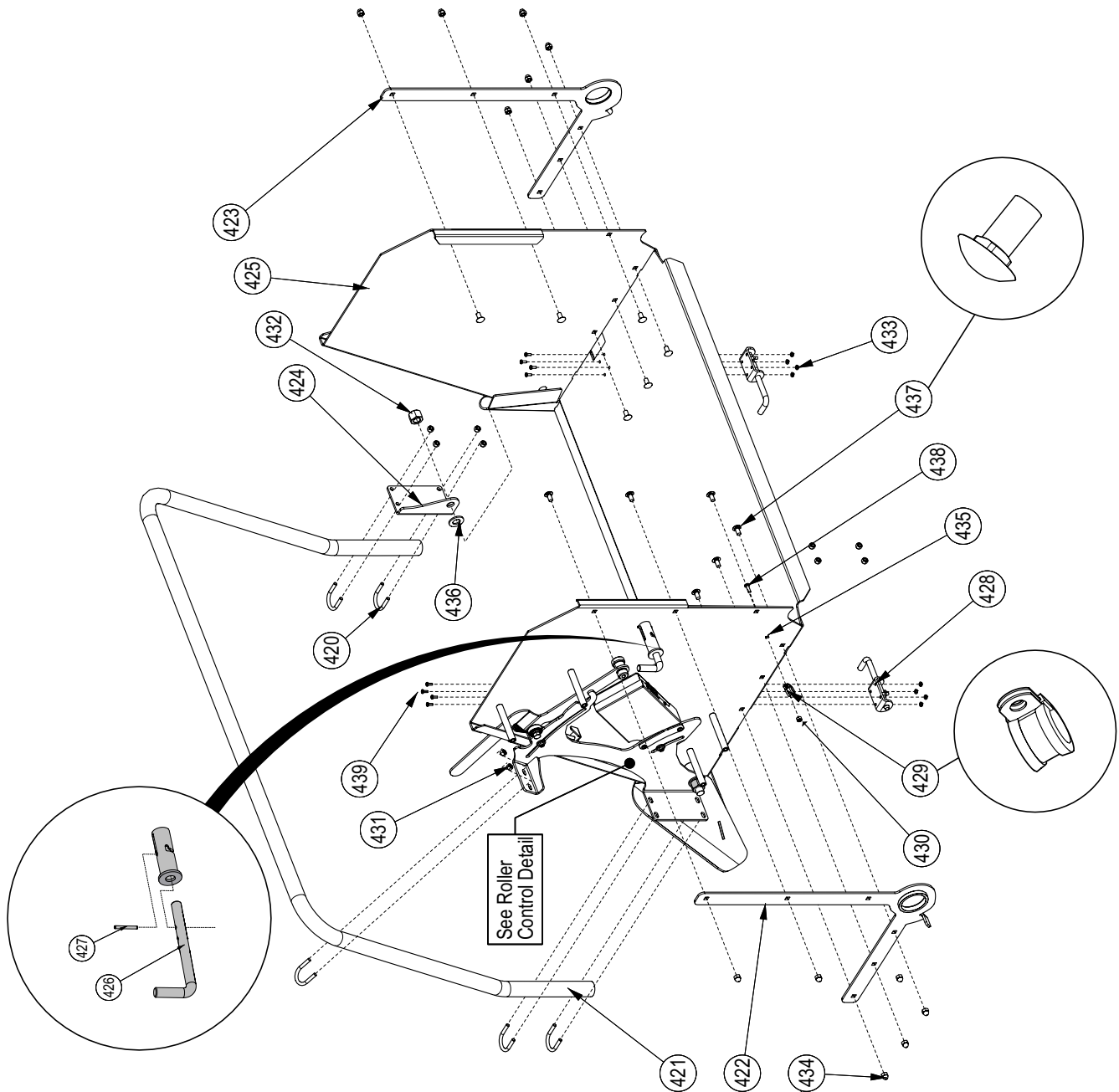
BOM ID	Part #	Description	Qty
405	1060L302	CR100 Feed Switch Guard	1
406	1060L318	Crossover Relief Guard	1
407	1060W122	CR100 Bridge Guard	1
408	1083L106	Valve Cover Plate	1
409	1083L107	CR100 Valve Guard	1
410	Z72211	Hex Lock Nut, 1/4NC	3
411	Z72521	Flange Nut, 5/16NC	2
412	Z72955	Riv-Nut 1/4NC x 165	5
413	Z72956	Riv-Nut 5/16NC x 150	6
414	Z72958	Riv-Nut 3/8NC x 150	1
415	Z76111	Flange Bolt, 1/4NC x 3/4	7
416	Z76121	Flange Bolt, 5/16NC x 3/4	6
417	Z76133	Flange Bolt, 3/8NC x 3/4	11
418	Z78301	Machine Screw, 1/4-20NC x 3/4	3
419	Z96503	Manual Tube 3-1/2 Short	1
420	1083L110	Option Channel	1

for Model  
CR100H, CR100HW,  
CR100BH & CR100BHW



**Feed Table**

BOM ID	Description	Qty
420	1015S538 U-bolt, Bearing Adapter	5
421	1022S203 Feed Control Handle	1
422	1022W230 Feed Table Trap Plate Weldment	1
423	1022W230H Feed Table Trap Weldment, LH	1
424	1060L306 Feed Control Pivot, CR100	1
425	1060W301 CR100 Feed Table Weldment	1
426	1061M108 L Handled Plunger, Compact	1
427	Z14151 Roll Pin, 3/16" x 1-1/2"	1
428	Z18207 Spring Latch Pin 1/2 x 1" Stroke	2
429	Z62819 Rubberized Wire Clamp, 1/2"	1
430	Z72211 Hex Lock Nut, 1/4NC	3
431	Z72221 Hex Lock Nut, 5/16NC	10
432	Z72271 Hex Lock Nut, 3/4NC	1
433	Z72752 Machine Nut, #10-32NF	8
434	Z72911 Acorn Nut, 3/8NC	12
435	Z73111 Flat Washer, 1/4	1
436	Z73171 Flat Washer, 3/4"	1
437	Z76233 Carriage Bolt, 3/8NC x 3/4	12
438	Z78301 Machine Screw, 1/4-20NC x 3/4	1
439	Z78303 Machine Screw, #10-32NF x 1/2	8

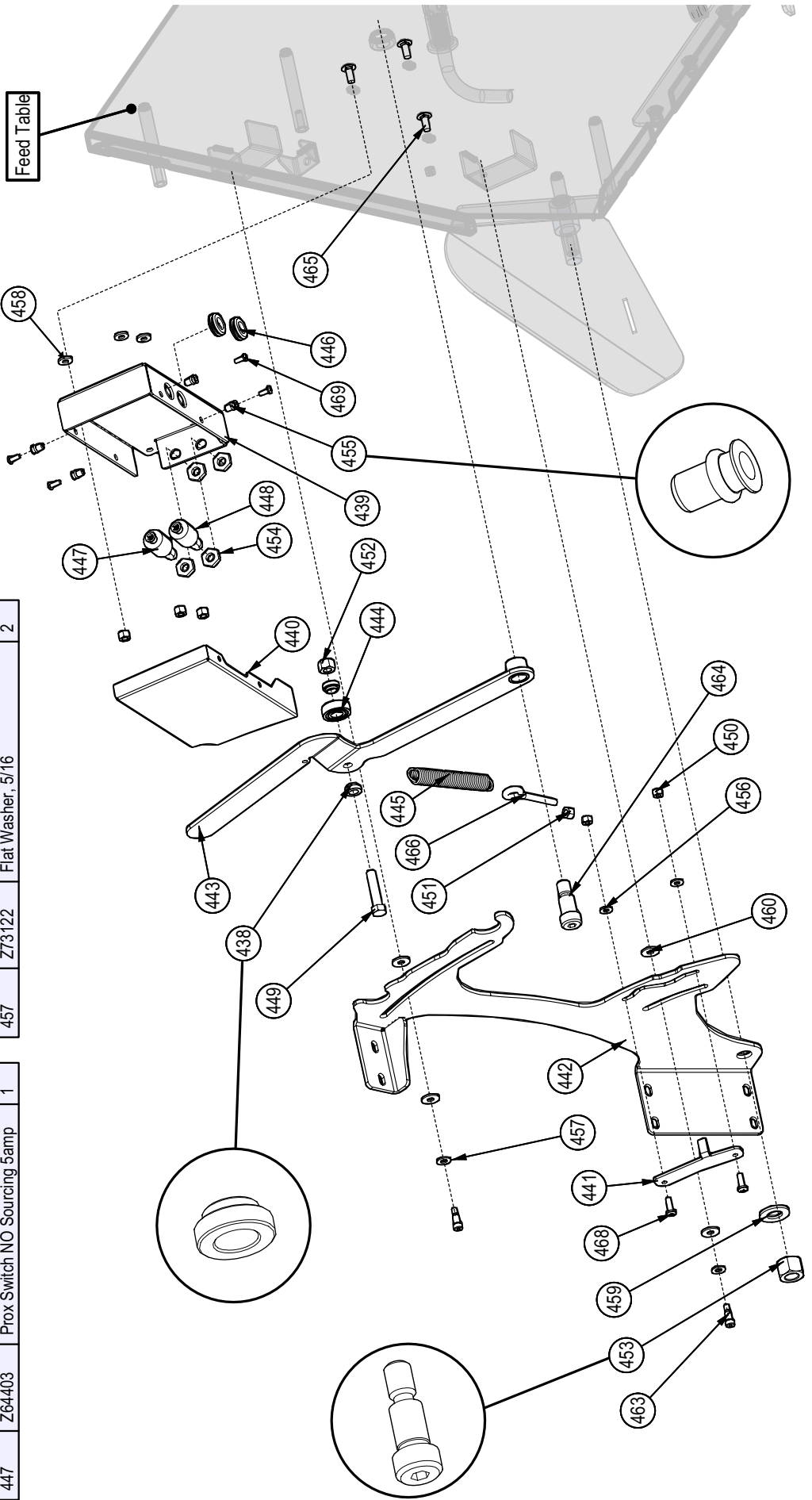


**Feed Roller Control Detail**

BOM ID	Part #	Description	Qty
438	1015M637	Bushing, Bearing	2
439	1060L301	Switch Mount Plate, CR100	1
440	1060L303	Sensor Box Lid, CR100	1
441	1060L304	Feed Pickup Trigger, CR100	1
442	1060L305	CR100 Control Base Pivot Link	1
443	1060W302	Detent Reset Weldment, CR100	1
444	Z21203	Ball Bearing 6202 2RS	1
445	Z31401	Spring 3/4 x 4" Heavy	1
446	Z62823	Rubber Grommet 3/4 x 1/8	2
447	Z64403	Prox Switch NO Sourcing 5amp	1

BOM ID	Part #	Description	Qty
448	Z64405	Prox Switch NO Sinking 5amp	1
449	Z71420	Hex Bolt, 7/16NC x 2	1
450	Z72211	Hex Lock Nut, 1/4NC	2
451	Z72221	Hex Lock Nut, 5/16NC	4
452	Z72241	Hex Lock Nut, 7/16NC	1
453	Z72271	Hex Lock Nut, 3/4NC	1
454	Z72357	Brass Jam Nut, 9/16-18NF	4
455	Z72954	Riv-Nut #10-32NF - 130	4
456	Z73111	Flat Washer, 1/4	2
457	Z73122	Flat Washer, 5/16	2

BOM ID	Part #	Description	Qty
458	Z73123	Rubber Flat Washer, 5/16 x 0.093"	3
459	Z73171	Flat Washer, 3/4"	1
460	Z73222	PTFE Flat Washer, 5/16 x 0.080"	4
463	Z75522	Shoulder Bolt, 5/16 x 1/2"	2
464	Z75574	Shoulder Bolt, 3/4 x 1	1
465	Z76221	Carriage Bolt, 5/16NC x 3/4	3
466	Z76522	Eye Bolt 5/16NC x 2	1
468	Z78301	Machine Screw, 1/4-20NC x 3/4	2
469	Z78303	Machine Screw, #10-32NF x 1/2	4

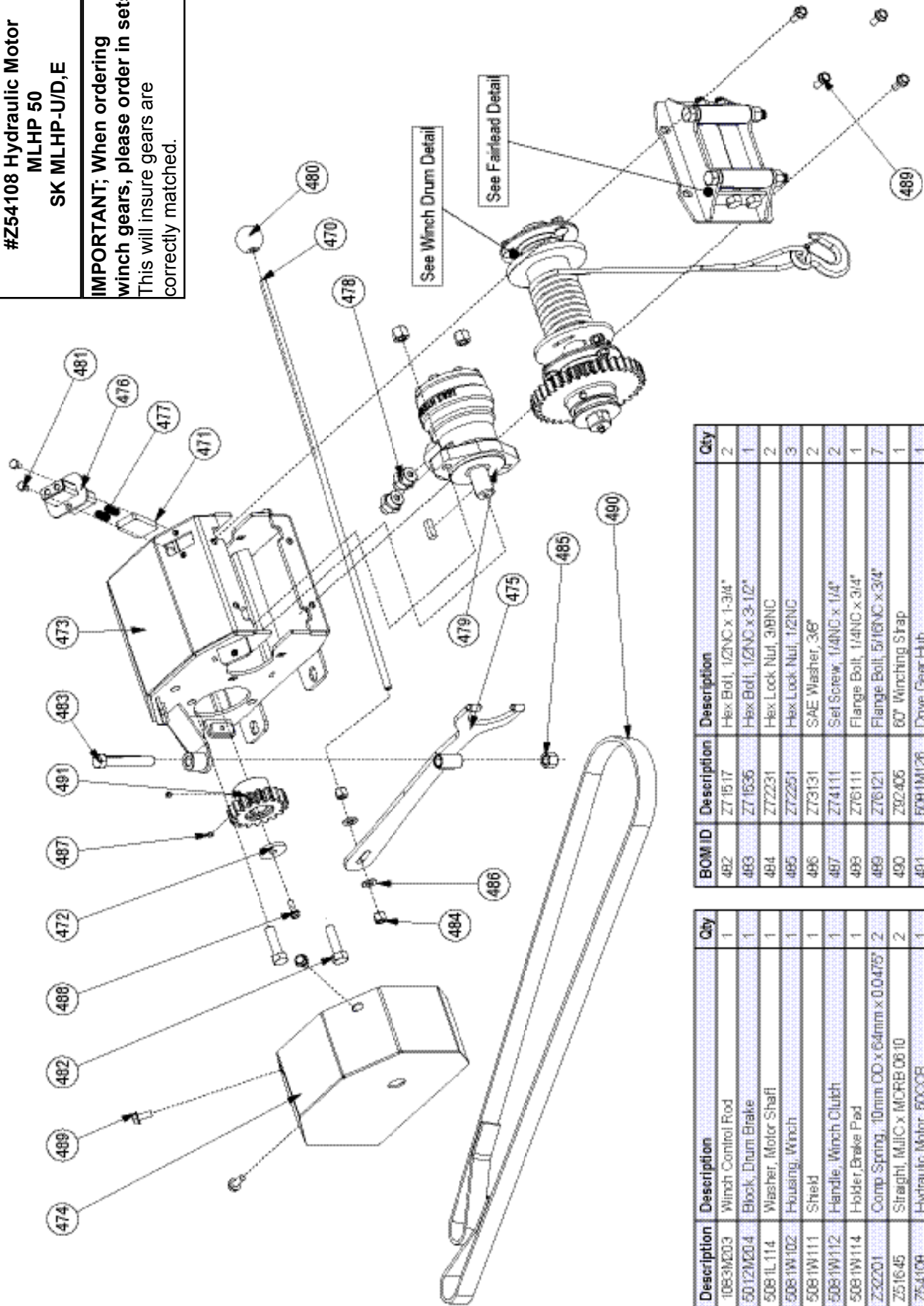


for Model  
CR100HW, CR100BHW

Seal Kit for  
#Z54108 Hydraulic Motor  
MLHP 50  
SK MLHP-U/D, E

**IMPORTANT; When ordering winch gears, please order in sets:**  
This will insure gears are correctly matched.

**Winch**



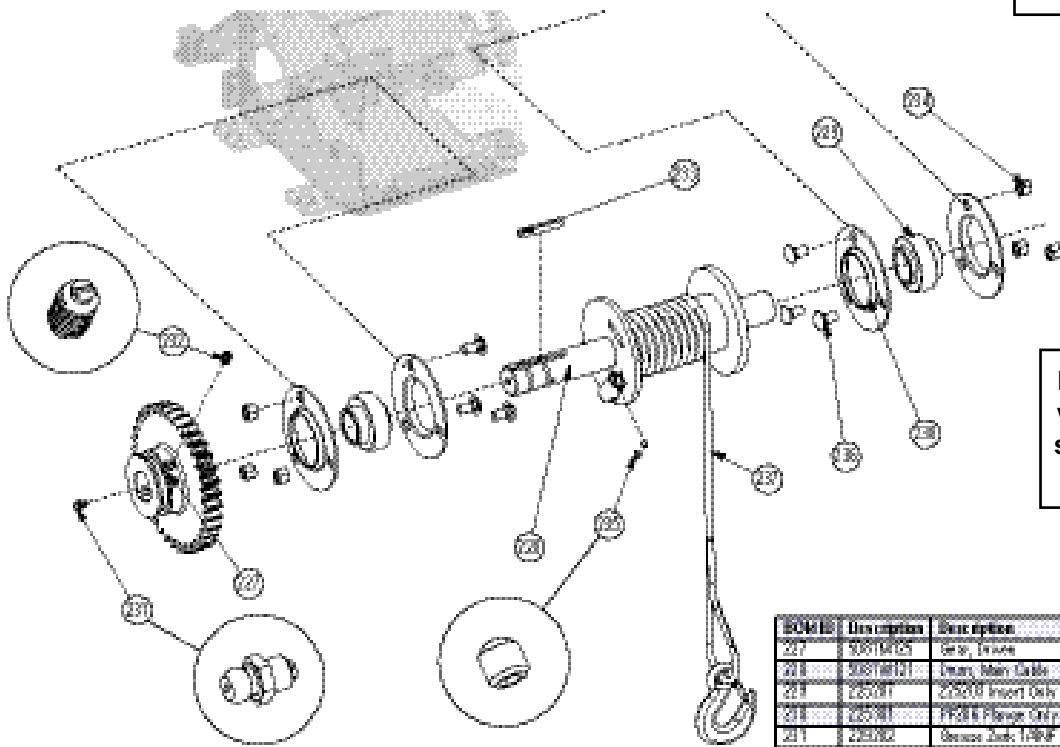
BOM ID	Description	Description	Qty
482	Z71517	Hex Bol., 1/2"NC x 1-3/4"	2
483	Z71536	Hex Bol., 1/2"NC x 3-1/2"	1
484	Z72231	Hex Lock Nut, 3/8"NC	2
485	Z72251	Hex Lock Nut, 1/2"NC	3
486	Z73131	SAE Washer, 3/8"	2
487	Z74111	Set Screw, 1/4"ND x 1/4"	2
488	Z76111	Flange Bolt, 1/4"NC x 3/4"	1
489	Z76121	Flange Bolt, 5/16"NC x 3/4"	7
490	Z92405	60° Winching Strap	1
491	5081M126	Drive Gear Hub	1

BOM ID	Description	Description	Qty
470	1083M203	Winch Control Rod	1
471	5012M204	Block, Drum Brake	1
472	5081L114	Washer, Motor Shaft	1
473	5081W102	Housing, Winch	1
474	5081W111	Shield	1
475	5081W112	Handle, Winch Clutch	1
476	5081W114	Holder, Brake Pad	1
477	Z32201	Comp Spring, 10mm OD x 64mm x 0.0475"	2
478	Z51645	Straight, M/JIC x MCRB 06 10	2
479	Z54108	Hydraulic Motor, 5000R	1
480	Z56914	Handle Kit, Knob	1
481	Z71105	Hex Bolt, 1/4"NC x 1-1/2"	2



**Winch Drum Detail**

for Model  
CR100HW, CR100BHW

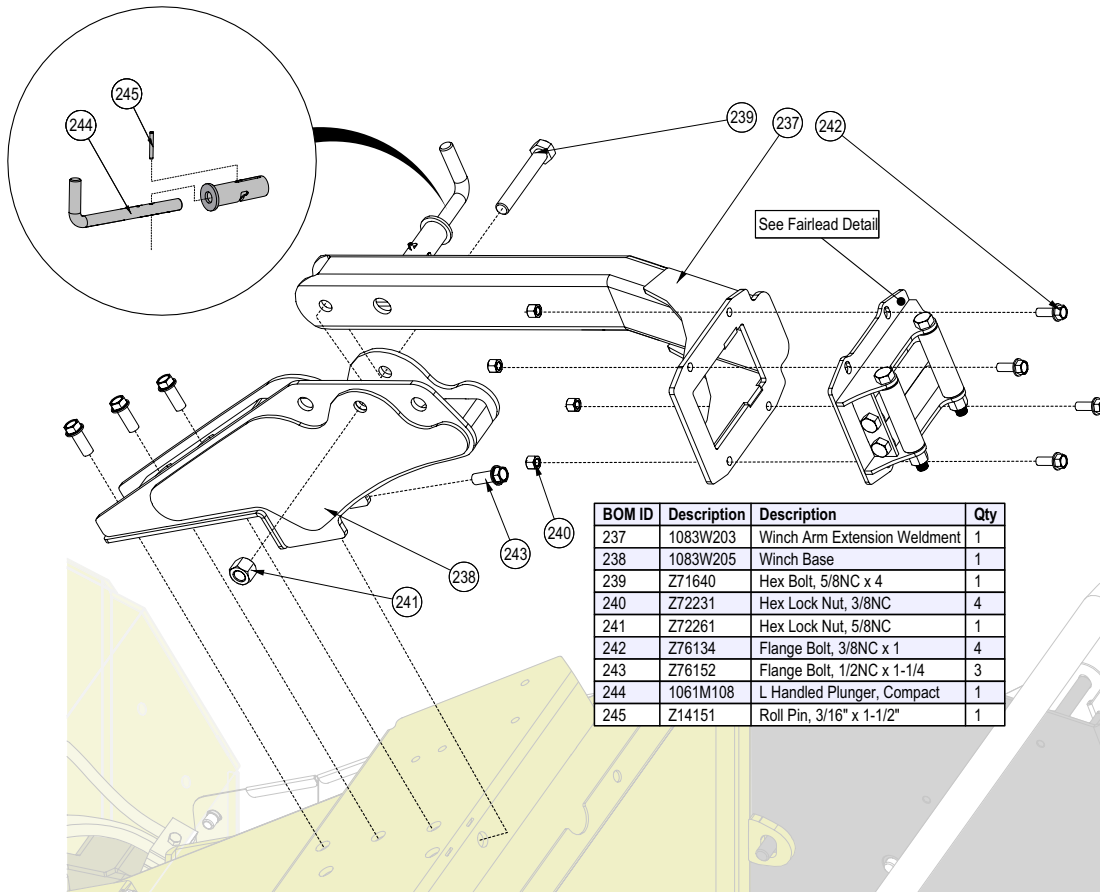


**IMPORTANT; When ordering winch gears, please order in sets:** This will insure gears are correctly matched.

BOM ID	Item description	Item options	Qty
227	1081M102	Gear, Drive	1
228	1081M101	Drum, Main Cable	1
229	275281	Z75010 Insert Disk	2
230	275301	FF300 Flange Only	4
231	275282	Storage Jack, T-LOCK	1
232	275302	Storage Flange, 108HW/550" x 21.5"	1
233	246201	Hex. 1/4" x 1/4" x 2"	1
234	272231	Hex. Lock Nut, 3/8NC	4
235	272261	Hex. Lock Nut, 5/8NC	1
236	276134	Flange Bolt, 3/8NC x 1"	4
237	276152	Flange Bolt, 1/2NC x 1-1/4"	3
238	1061M108	Storage Bolt, 1/2" x 1-1/4"	1
239	276152	Storage Bolt, 1/2" x 1-1/4"	1

**Winch Arm Ass'y**

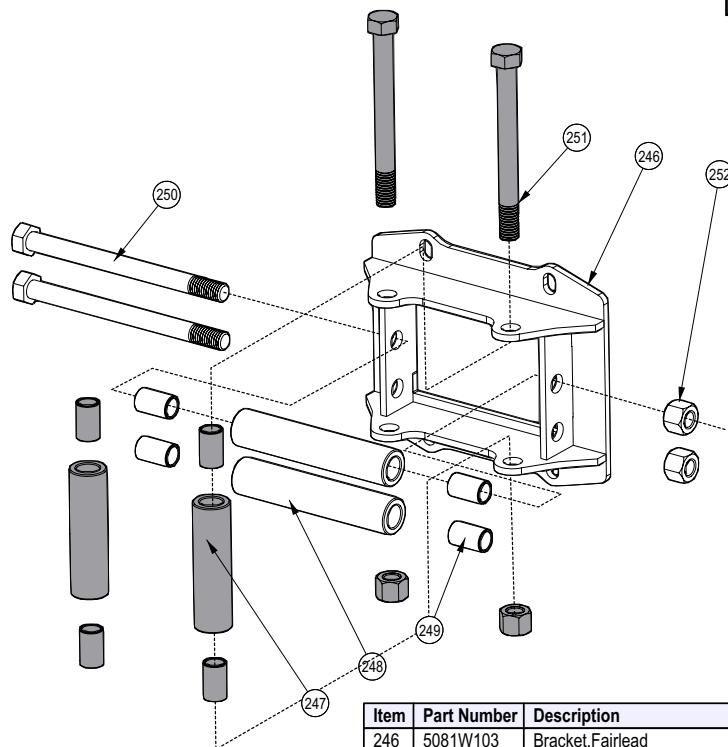
for Model  
CR100HW, CR100BHW



BOM ID	Description	Description	Qty
237	1083W203	Winch Arm Extension Weldment	1
238	1083W205	Winch Base	1
239	Z71640	Hex Bolt, 5/8NC x 4"	1
240	Z72231	Hex Lock Nut, 3/8NC	4
241	Z72261	Hex Lock Nut, 5/8NC	1
242	Z76134	Flange Bolt, 3/8NC x 1"	4
243	Z76152	Flange Bolt, 1/2NC x 1-1/4"	3
244	1061M108	L Handled Plunger, Compact	1
245	Z14151	Roll Pin, 3/16" x 1-1/2"	1

**Fairlead Ass'y Detail**

for Model  
CR100HW, CR100BHW

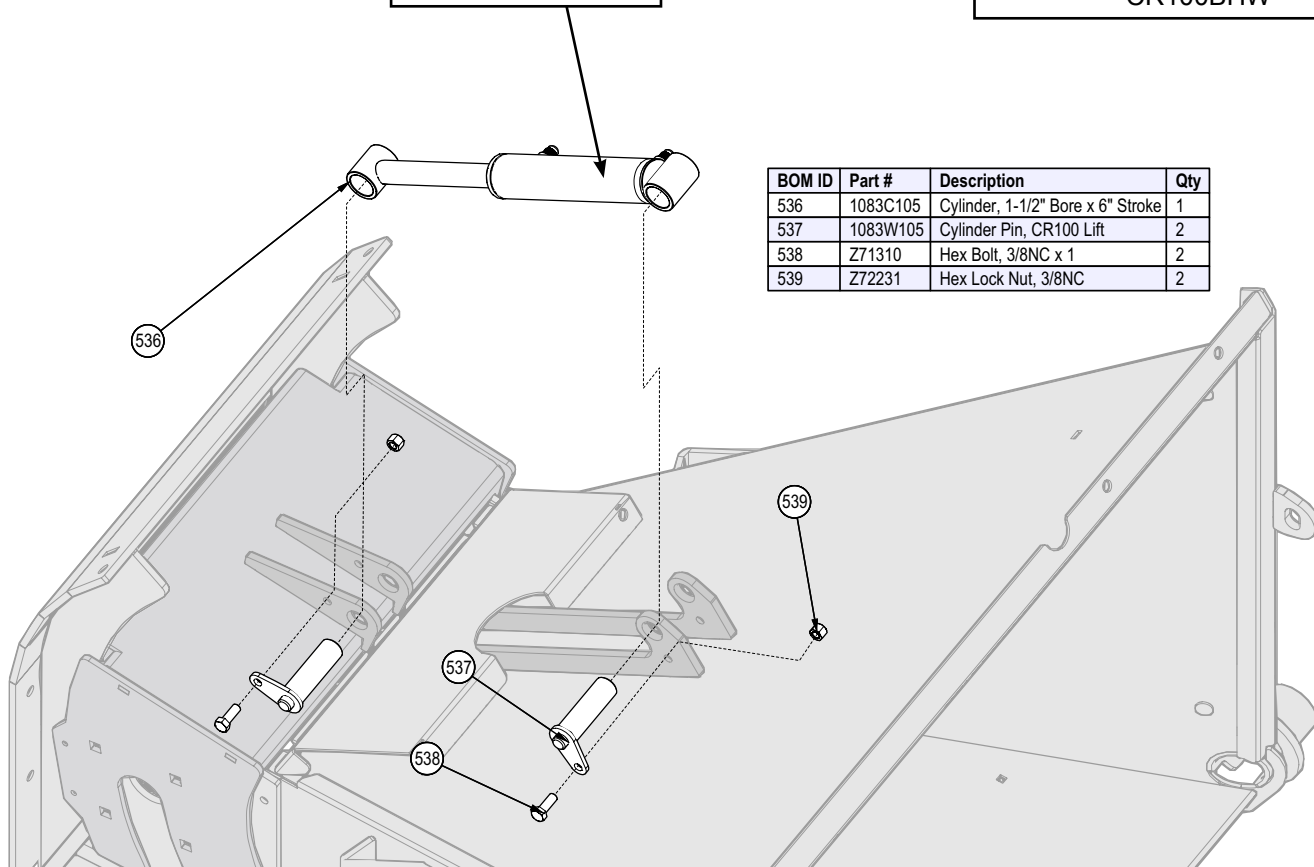


Item	Part Number	Description	Qty
246	5081W103	Bracket, Fairlead	1
247	5081M109	Bushing, Fairlead Side	2
248	5081M111	Bushing, Fairlead Top	2
249	Z27103	Fiberglide Bearing 1/2" x 1"	8
250	Z71566	Hex Bolt, 1/2NC x 6-1/4, 5-1/4 Shank	2
251	Z71567	Hex Bolt, 1/2NC x 5, 4" Shank	2
252	Z72251	Hex Lock Nut, 1/2NC	4

**Roller Lift Hydraulic Cylinder**

for Model  
CR100H, CR100BH, CR100HW,  
CR100BHW

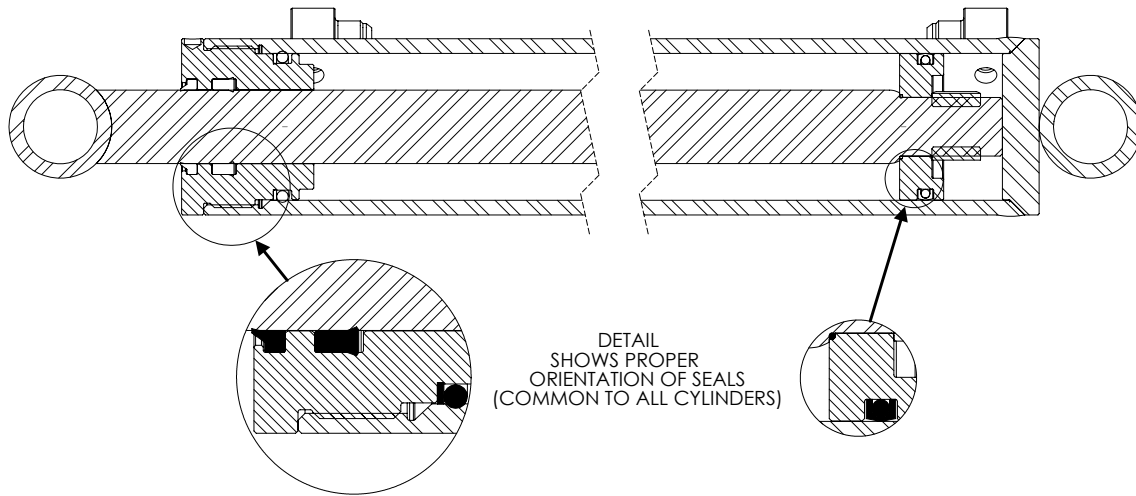
See Cylinder Detail



BOM ID	Part #	Description	Qty
536	1083C105	Cylinder, 1-1/2" Bore x 6" Stroke	1
537	1083W105	Cylinder Pin, CR100 Lift	2
538	Z71310	Hex Bolt, 3/8NC x 1	2
539	Z72231	Hex Lock Nut, 3/8NC	2

**Cylinder Seal Installation**

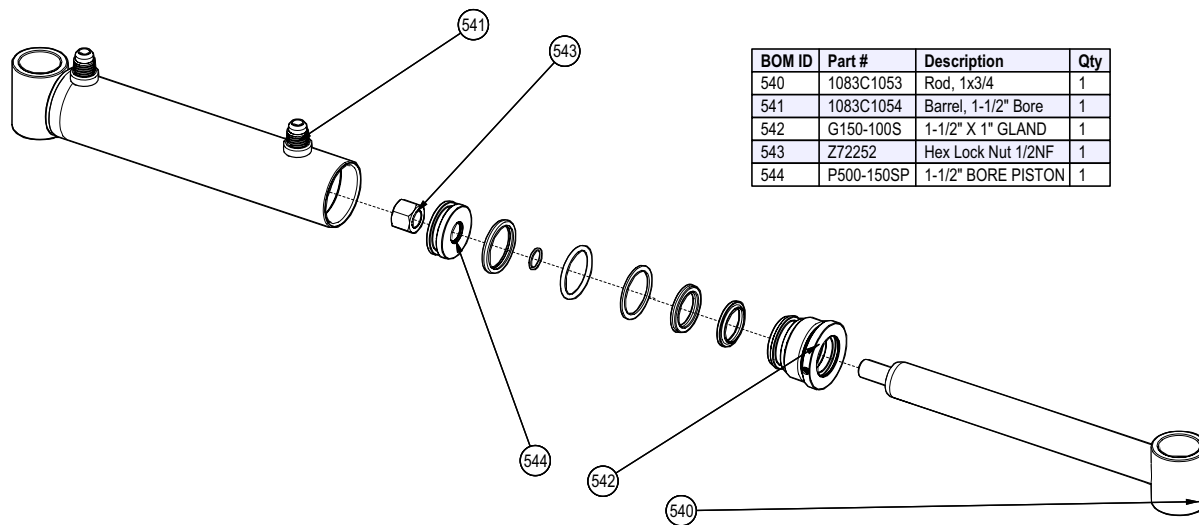
for Model  
CR100H, CR100BH, CR100HW,  
CR100BHW



DETAIL  
SHOWS PROPER  
ORIENTATION OF SEALS  
(COMMON TO ALL CYLINDERS)

**Roller Lift Hydraulic Cylinder Detail**

for Model  
CR100H, CR100BH, CR100HW,  
CR100BHW

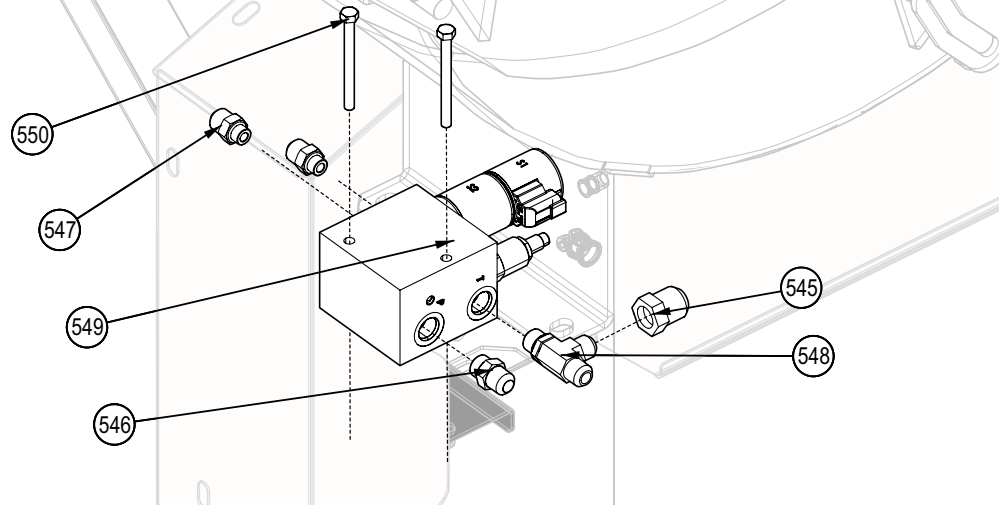


BOM ID	Part #	Description	Qty
540	1083C1053	Rod, 1x3/4	1
541	1083C1054	Barrel, 1-1/2" Bore	1
542	G150-100S	1-1/2" X 1" GLAND	1
543	Z72252	Hex Lock Nut 1/2NF	1
544	P500-150SP	1-1/2" BORE PISTON	1

**IntelliFeed Manifold Ass'y**

for Model  
CR100H, CR100BH, CR100HW,  
CR100BHW

BOM ID	Part #	Description	Qty
545	Z51498	Straight, FJIC x MJIC 0812	1
546	Z51643	#8ORB x #8JIC	1
547	Z51649	Straight, MJIC x MORB 0806	2
548	Z51673	Tee, MJIC x MORB x MJIC 080808	1
549	Z56508	CR IntelliFEED Manifold 6gpm	1
550	Z71235	Hex Bolt, 5/16NC x 3-1/2	2

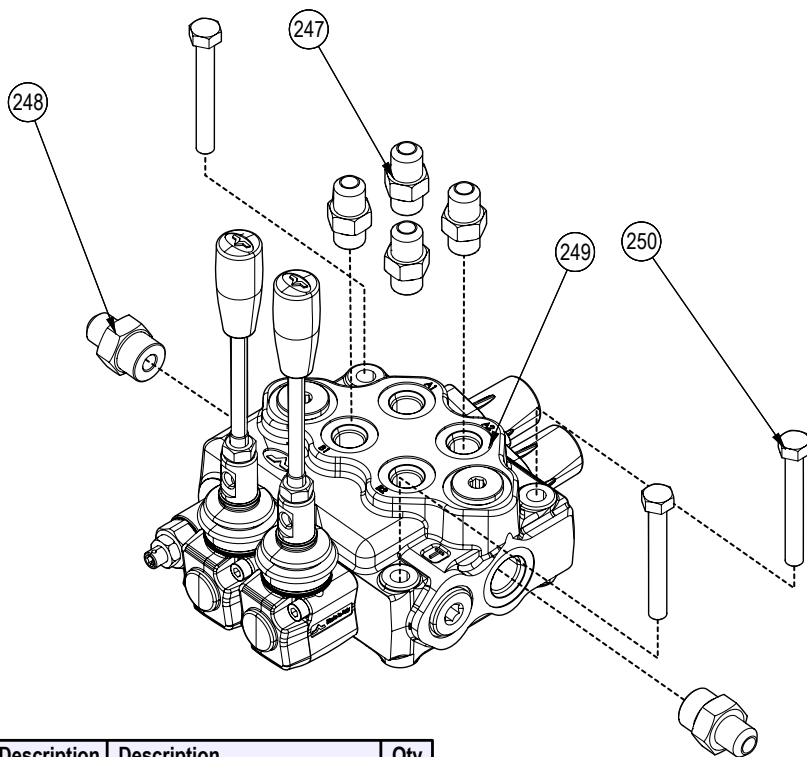


**Winch and Roller Lift Hydraulic Controls**

for Model  
CR100H, CR100BH, CR100HW,  
CR100BHW

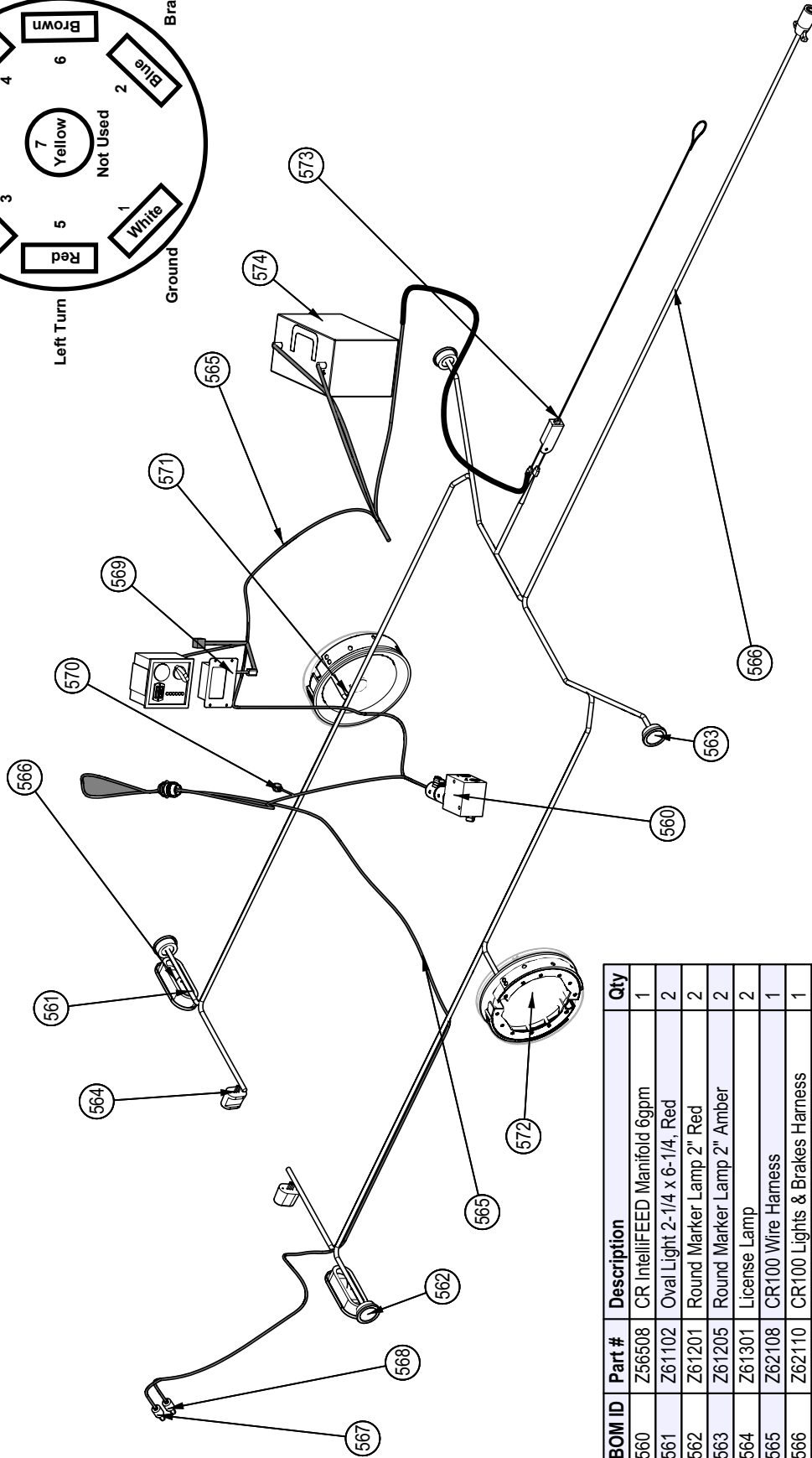
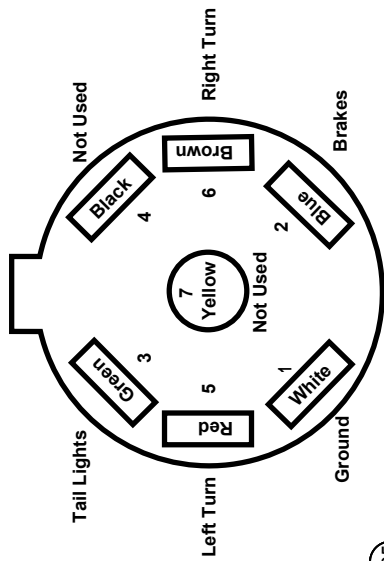
**Seal and Replacement Kits**

1x SK SD5/1	Complete seal kit for your part #Z56216)
1x SK SD5/2	Complete seal kit for your part #Z56219)
1x L5(M8)	Lever box



BOM ID	Description	Description	Qty
247	Z51641	#6ORB x #6JIC	4
248	Z51644	Straight, MJIC x MORB 0608	2
249	Z56218	Two Spool Valve, VC x 12GPM	1
250	Z71225	Hex Bolt, 5/16NC x 2-1/2"	3

**Intellifeed Wiring Harness & Lights and Brakes Wiring Harness**

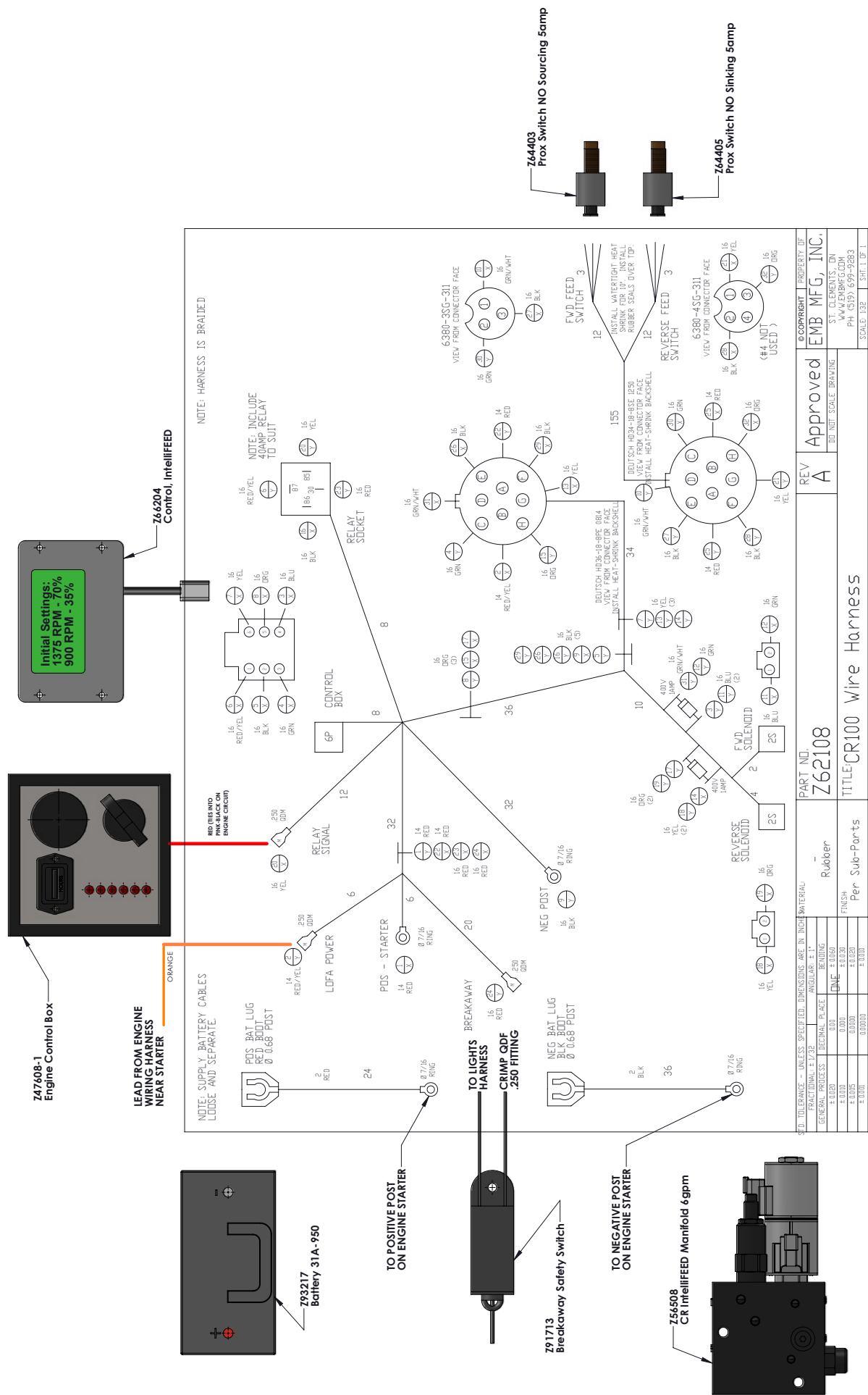


BOM ID	Part #	Description	Qty
560	Z56508	CR IntelliFEED Manifold 6gpm	1
561	Z61102	Oval Light 2-1/4 x 6-1/4, Red	2
562	Z61201	Round Marker Lamp 2" Red	2
563	Z61205	Round Marker Lamp 2" Amber	2
564	Z61301	License Lamp	2
565	Z62108	CR100 Wire Harness	1
566	Z62110	CR100 Lights & Brakes Harness	1
567	Z64403	Prox Switch NO Sourcing 5amp	1
568	Z64405	Prox Switch NO Sinking 5amp	1
569	Z66204	Control, IntelliFEED	1
570	Z66210	IntelliFEED Pickup Sensor with 68" Lead	1
571	Z91702	Electric Brake, 2x12 LH	1
572	Z91712	Electric Brake, 2x12 RH	1
573	Z91713	Breakaway Safety Switch	1
574	Z93217	Battery 31A-950	1

Light Bulb Replacement	
Part #	Description
	replacement
Z61201	Round Marker Lamp 2" Red
Z61205	Round Marker Lamp 2" Amber
Z61102	Oval Light 2-1/4 x 6-1/4, Red
Z61301	License Lamp
	replacement bulb #67

Intellifeed Wiring Diagram #Z62108

CR100 LOGIC WIRING HARNESS INSTALLATION

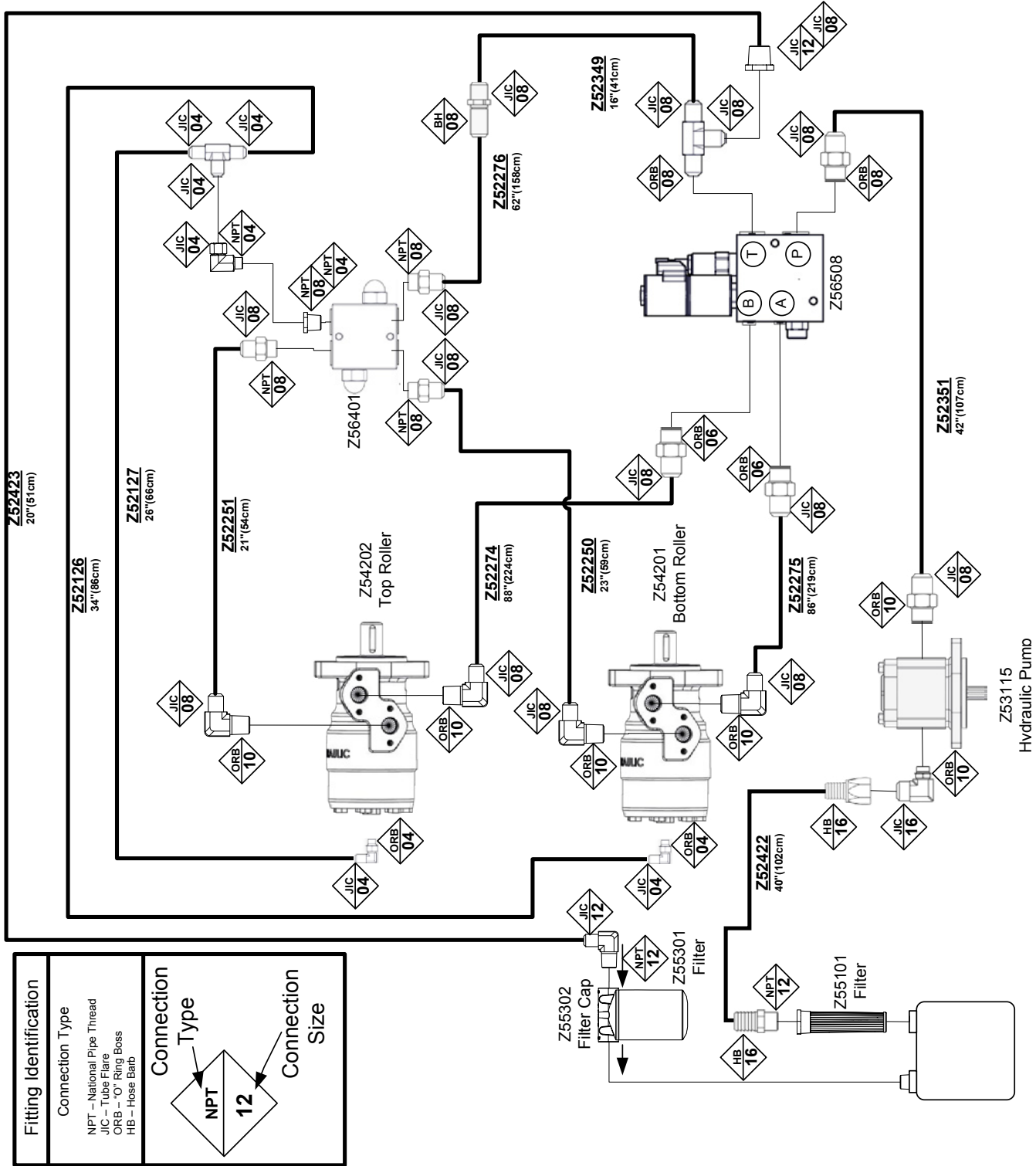


**Hydraulic Hose Parts List**

The Chart below is a complete list of hydraulic hoses for all models of the CR100. For information on your model and its hose connections please review the hydraulic schematics on the following pages.

PART NUMBER	DESCRIPTION	QTY	MODEL
Z52121	1/4"Hose, FJIC06 x 90FJIC06 x 28"	2	CR100HW & CR100BHW
Z52126	1/4"Hose, FJIC04 x 90FJIC04 x 34"	1	All Models
Z52127	1/4"Hose, FJIC04 x 90FJIC04 x 26"	1	All Models
Z52135	1/4"Hose, FJIC06 x 90FJIC06 x 18"	1	CR100H & CR100BH CR100HW & CR100BHW
Z52136	1/4"Hose, FJIC06 x 90FJIC06 x 23"	1	CR100H & CR100BH CR100HW & CR100BHW
Z52250	3/8"Hose, FJIC08 x 90FJIC08 x 23"	1	All Models
Z52251	3/8"Hose, FJIC08 x 90FJIC08 x 21"	1	CR100H & CR100BH CR100HW & CR100BHW
Z52274	3/8"Hose, FJIC08 x FJIC08 x 88"	1	All Models
Z52275	3/8"Hose, FJIC08 x FJIC08 x 86"	1	All Models
Z52276	3/8"Hose, FJIC08 x FJIC08 x 62"	1	All Models
Z52277	3/8"Hose, FJIC08 x 45FJIC06 x 93"	1	CR100H & CR100BH CR100HW & CR100BHW
Z52278	3/8"Hose, FJIC08 x 45FJIC06 x 27"	1	CR100H & CR100BH CR100HW & CR100BHW
Z52279	3/8"Hose, FJIC08 x 90FJIC08 x 44"	1	CR100H & CR100BH CR100HW & CR100BHW
Z52349	1/2"Hose, FJIC08 x FJIC08 x 16"	1	All Models
Z52351	1/2"Hose, FJIC08 x 90FJIC08 x 42"	1	All Models
Z52423	3/4"Hose, FJIC12 x 90FJIC12 x 20"	1	All Models

**Hydraulic Schematic CR100 & CR100B**



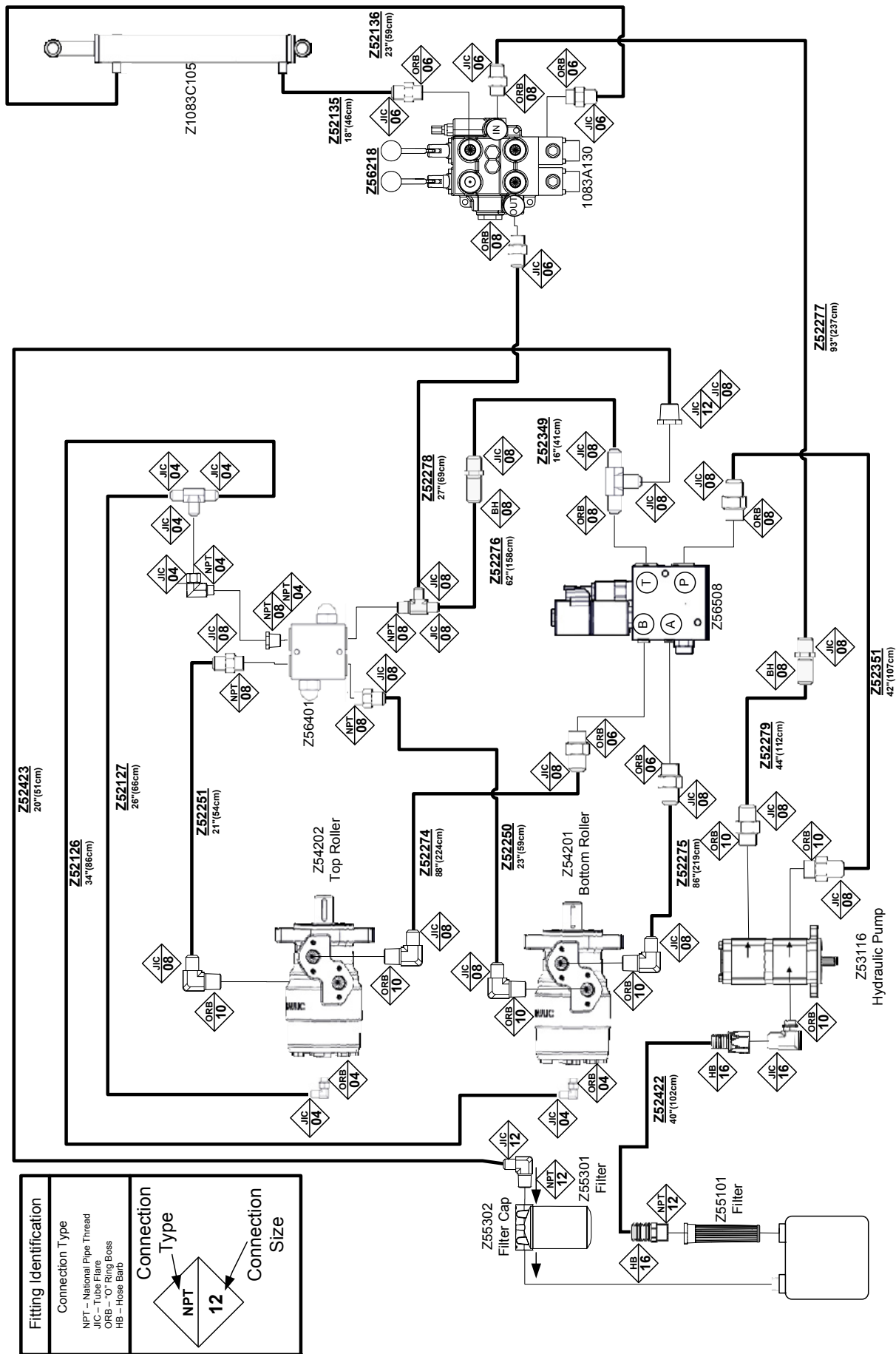
Fitting Identification	
Connection Type	
NPT	National Pipe Thread
JIC	Tube Flare
ORB	Ring Boss
HB	Hose Barb

Connection Type	
NPT	12
	16

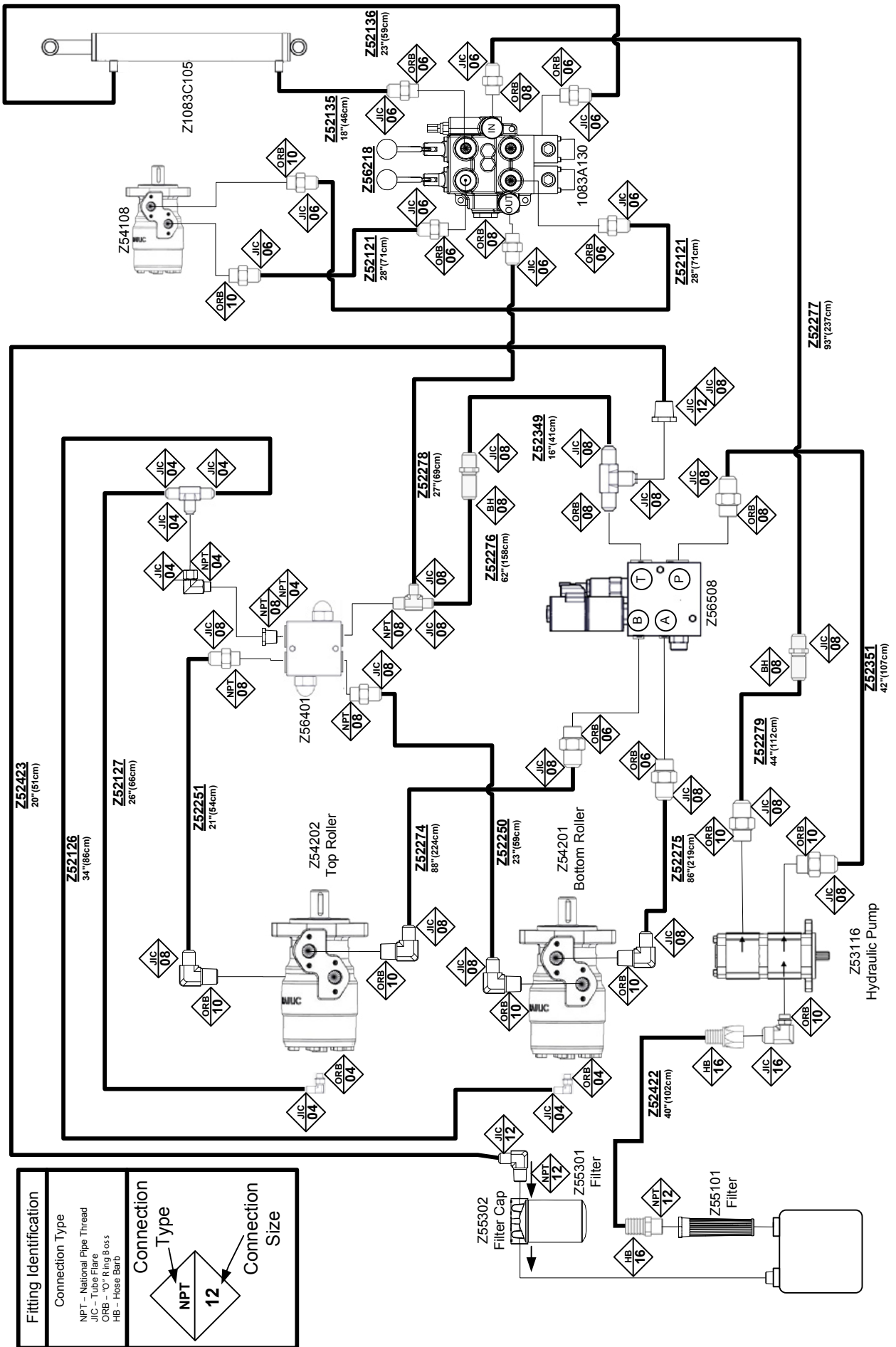


**Hydraulic Schematic CR100H & CR100BH**



Fitting Identification	
Connection Type	
NPT - National Pipe Thread	
JIC - Tube Flare	
ORB - 'O' Ring Boss	
HB - Hose Barb	
Connection Type	
Connection Size	

**Hydraulic Schematic CR100HW & CR100BHW**

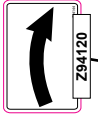
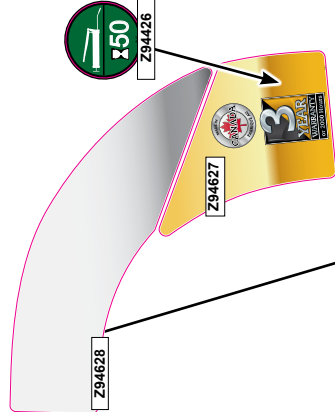
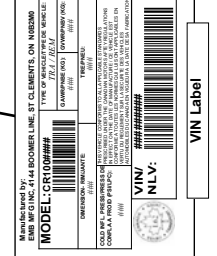
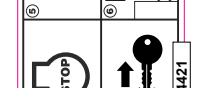
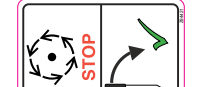
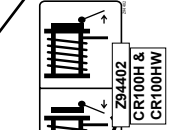
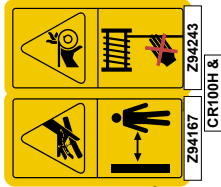
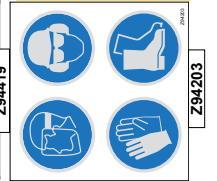
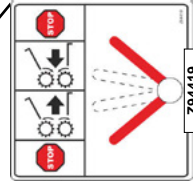
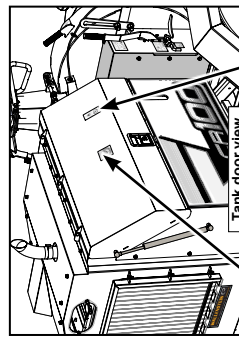
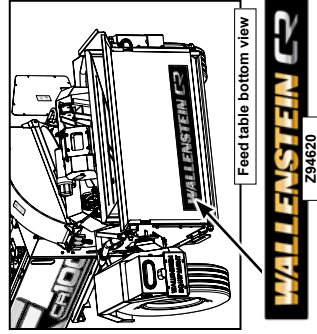
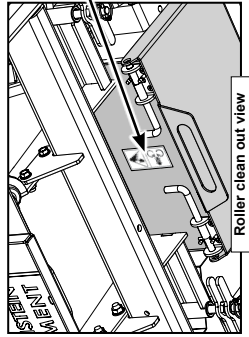


Fitting Identification	
Connection Type	
NPT - National Pipe Thread	
JIC - Tube Flare	
ORB - "O" Ring Boss	
HB - Hose Barb	
Connection	
Type	Size
NPT	12

CR100: LABEL PART NUMBER AND DESIGNATION LIST				
Prt. No	Description	CR100 & CR100B	CR100HW & CR100BHW	CR100H & CR100BH
Z94622	CR100 TOOLBOX CR100	1	1	1
Z94623	CR100 ENGINE DOOR CR100	1	1	1
Z94115	FIRE HAZARD – NO SMOKING	2	2	2
Z94435	ULSD DEISEL FUEL LABEL	1	1	1
Z94116	DRIVELINE – ARM ENTANGLEMENT HAZARD – KEEP HANDS AWAY	2	2	2
Z94167	HYDRAULIC RUPTURE HAZARD – KEEP BACK	5	8	7
Z94117	FLYING OBJECT HAZARD – KEEP BACK	4	4	4
Z94119	HAZARD – READ MANUAL	1	1	1
Z94228	REMOVE IGNITION KEY	1	1	1
Z94120	ROTATING CUTTER HAZARD – KEEP HANDS AWAY	6	6	6
Z94127	DRIVELINE – HAND ENTANGLEMENT HAZARD – KEEP HANDS AWAY	1	1	1
Z94143	NOISE – 121DB NOISE	1	1	1
Z94207	ENTANGLEMENT HAZARD – DO NOT CLIMB IN HOPPER	4	4	4
Z94209	COUNTER CLOCKWISE ROTATION – ROUND	1	1	1
Z94215	FROZEN BATTERY HAZARD	1	1	1
Z94414	ROLLER FEED CHIPPER – FEED CONTROL RH	1	1	1
Z94422	FEED CONTROL LOCK	1	1	1
Z94238	150 MM (6.0) MAX MATERIAL CAUTION DECAL	2	2	2
Z94203	PROTECTION EQUIPMENT	2	2	2
Z94119	ROLLER FEED CHIPPER – FEED CONTROL LH	1	1	1
Z94421	ROTOR LOCK	1	1	1
Z94618	CR100 L&R CHUTE MID. WALLENSTEIN	2	2	2
Z94619	CR100 CONTROL PANEL WALLENSTEIN	1	1	1
Z94620	CR100 TABLE BOTTOM WALLENSTEIN	1	1	1
Z94621	CR100 INTELLIFEED	1	1	1
Z94416	CR100 STARTING / OPERATING / STOPPING INSTRUCTIONS	1	1	1
Z94625	CR100 CHUTE RIGHT BOTTOM GOLD	1	1	1
	Z94617 MADE IN CANADA 3" DIA" ON Z94625	1	1	1
	Z94630 3 YEAR WARRANTY DECAL ON Z94625	1	1	1
Z94627	CR100 CHUTE LEFT BOTTOM GOLD	1	1	1
	Z94617 MADE IN CANADA 3" DIA" ON Z94627	1	1	1
	Z94630 3 YEAR WARRANTY DECAL ON Z94627	1	1	1
	Z94426 GREASE 50HRS LABEL ON Z94627	1	1	1
Z94626	CR100 CHUTE RIGHT ELBOW SILVER	1	1	1
Z94628	CR100 CHUTE LEFT ELBOW SILVER	1	1	1
Z96376	CR MARKETING STICKER 7.0 X 1.5	1	1	1
Z96377	CR MARKETING STICKER 13.0 X 2.5	1	1	1
Z94426	GREASE 50HRS LABEL	7	7	7
Z94144	RH ROTATION DECAL	1	1	1
Z94145	LH ROTATION DECAL	1	1	1
Z94436	ANTIFREEZE LABEL	1	1	1
Z94124	DECAL WARNING LABEL	2	2	2
Z94401	WINCH CONTROL – WIND/UWIND	0	1	0
Z94402	WINCH – FREE WHEEL / ENGAGED	0	2	0
Z94250	WINCH ENTANGLEMENT DECAL HORIZONTAL	0	1	0
Z944243	WINCH ENTANGLEMENT DECAL	0	1	0
Z94415	UPPER ROLLER LIFT CYLINDER – LIFT / CRUSH	0	1	1

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.

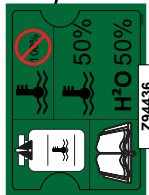
Label Layout - Left Side



Z94618



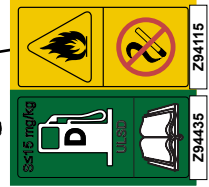
Z94117



Z94436



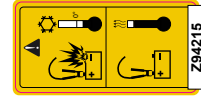
Z96377



Z94435



Z94143

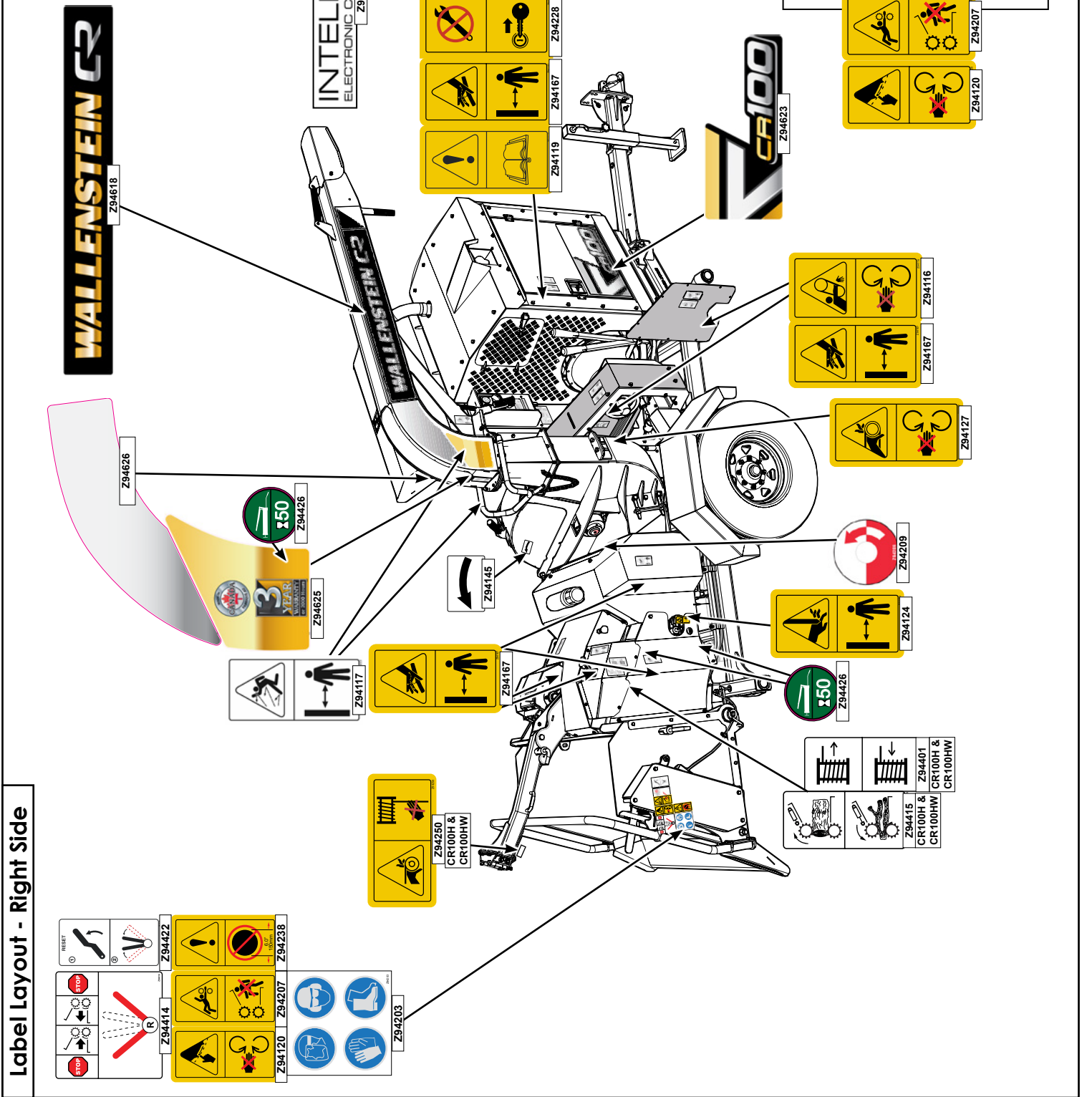


Z94215



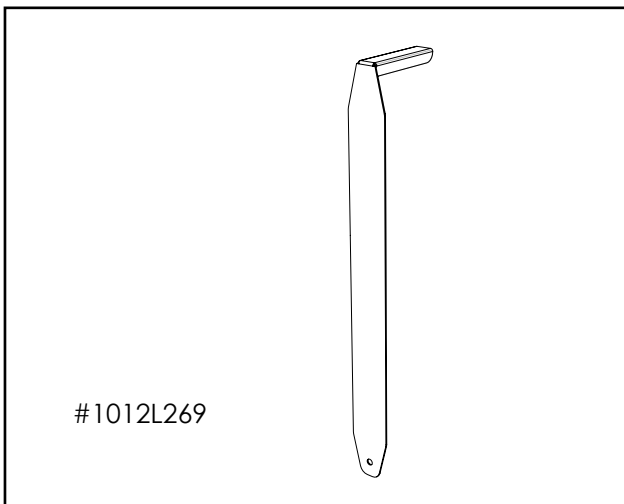
Z94622

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.



Label Layout - Right Side

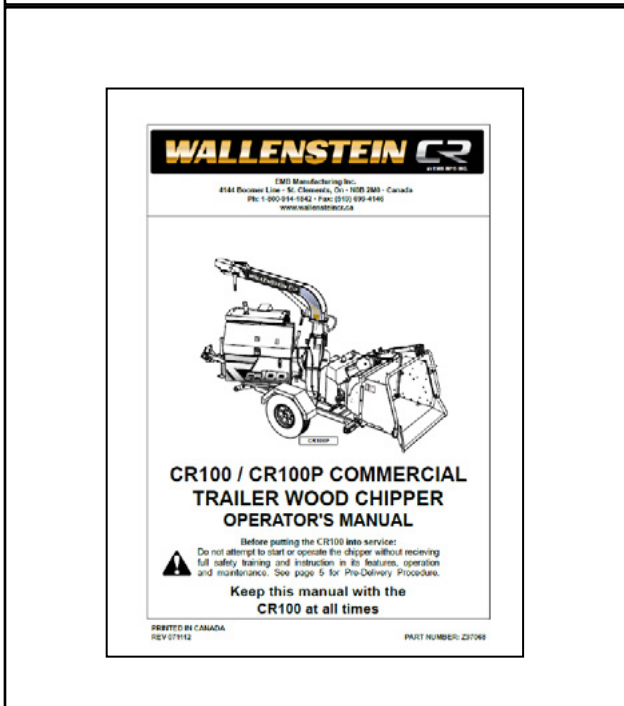
**Accessories**



#1012L269

**#1012L269 LEDGER CLEARANCE SETTING GAUGE**

For **CR100 Series**  
 An easy and accurate way of setting the critical clearances between the ledger blade and the rotor chipper blade.



**#Z97068 CR100 / CR100P COMMERCIAL TRAILER WOOD CHIPPER OPERATOR'S MANUAL**

Available as a download at [www.wallensteincr.com](http://www.wallensteincr.com)