

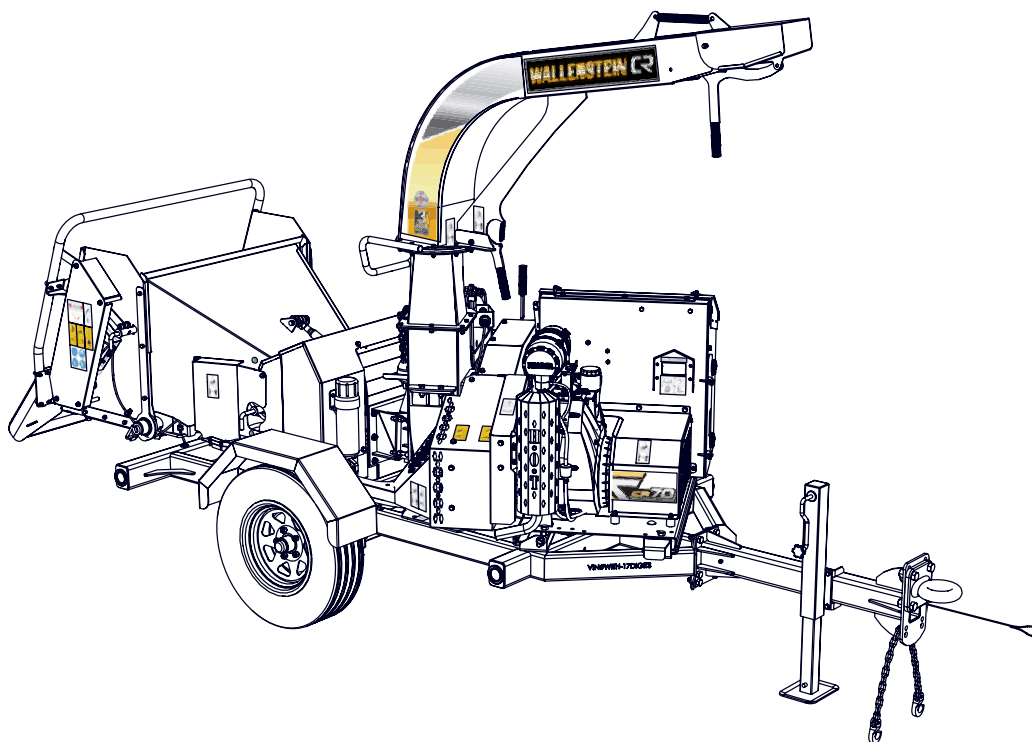
WALLENSTEIN CR

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PARTS MANUAL

CR70 & CR70B Trailer Chipper

S/N 2E9US1119H010027 & up



Refer to the operators manual for safe
operation and maintenance

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WARNING!

Refer to the operators manual for safe operation and maintenance.

Maintenance should be performed by trained personnel only.

W010

Foreword

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

Regular maintenance, and replacing old, worn or broken parts with the correct OEM parts, is essential in prolonging the life of your EMB product. Please refer to this manual to identify replacement parts.

To order parts, please contact your dealer for further information. If your dealer is no longer available please go to our website: <http://www.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. EMB reserves the right to change product specifications at any time without notice.

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

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Bolt Torque

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

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. Hand-tighten swivel nut until snug.
4. To prevent twisting the tube, use two wrenches. Place one wrench on the connector body and tighten the swivel nut with the second. Torque to values shown.

If a torque wrench is not available, use the FFFT (Flats From Finger Tight) method.

Hydraulic Fitting Torque					
Tube Size OD	Hex Size Across Flats	Torque value		Flats From Finger Tight	
Inches	Inches	lbf•ft	N•m	Flats	Turns
3/16	7/16	6	8	2	1/6
1/4	9/16	11–12	15–17	2	1/6
5/16	5/8	14–16	19–22	2	1/6
3/8	11/16	20–22	27–30	1-1/4	1/6
1/2	7/8	44–48	59–65	1	1/6
5/8	1	50–58	68–79	1	1/6
3/4	1-1/4	79–88	107–119	1	1/8
1	1-5/8	117–125	158–170	1	1/8

Values shown are for non-lubricated connections.

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.

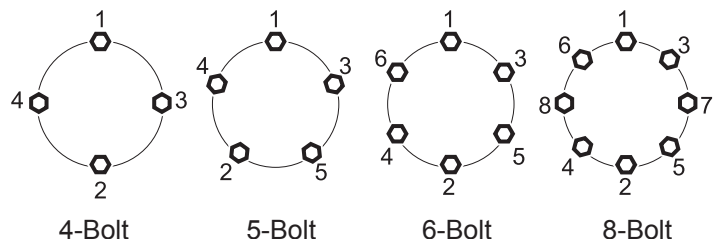
Wheel lugs should be torqued before first road use and after each wheel removal. Check and re torque after the first 10 miles (16 km), 25 miles (40 km), and again at 50 miles (80 km). Check periodically thereafter.

 **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.

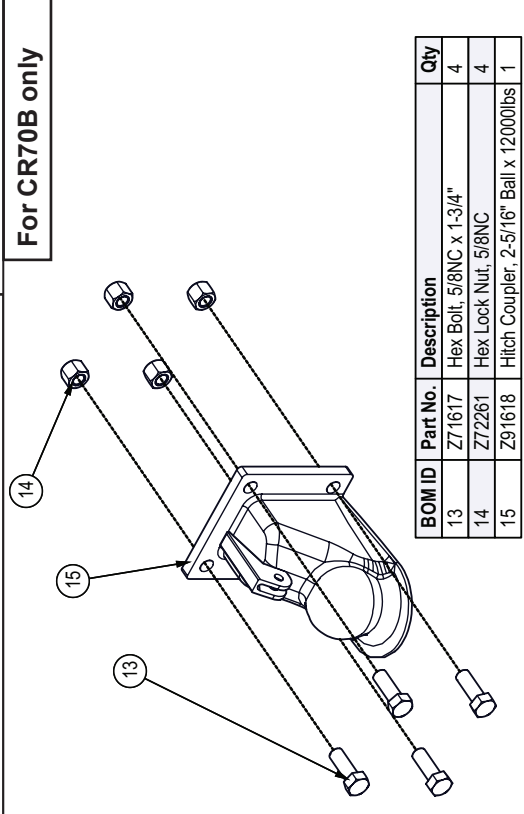
Wheel Lug Nut Torque				
Wheel Size	Units	1st Stage	2nd Stage	3rd Stage
8"	lbf•ft N•m	12–20 16–26	30–35 39–45.5	45–55 58.5–71.5
12"	lbf•ft N•m	20–25 26–32.5	35–40 45.5–52	50–60 65–78
13"	lbf•ft N•m	20–25 26–32.5	35–40 45.5–52	50–60 65–78
14"	lbf•ft N•m	20–25 26–32.5	50–60 65–78	90–120 117–156
15"	lbf•ft N•m	20–25 26–32.5	50–60 65–78	90–120 117–156
16"	lbf•ft N•m	20–25 26–32.5	50–60 65–78	90–120 117–156

Wheel Lug Torque Pattern

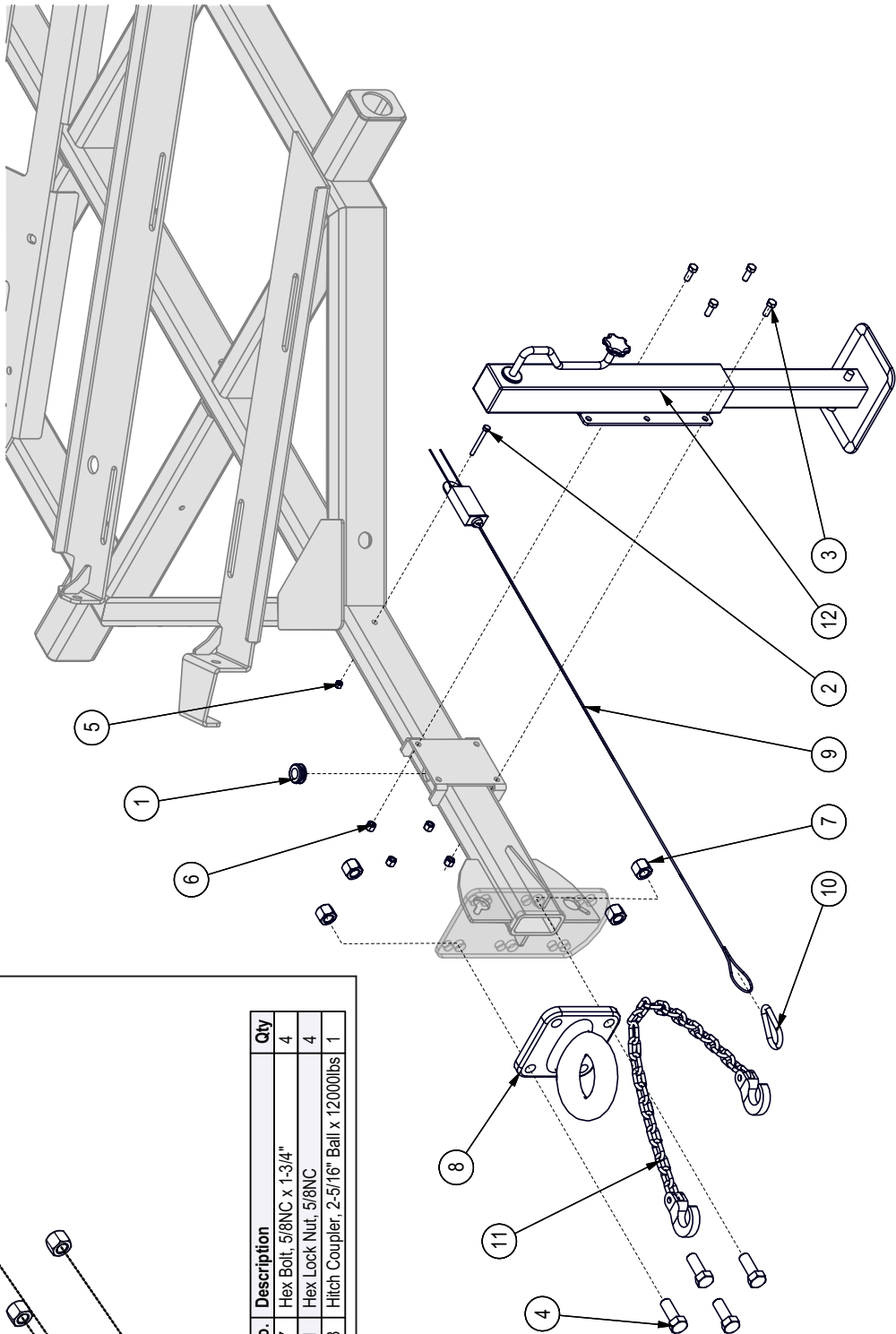


Frame Detail – Tongue & Jack

For CR70B only



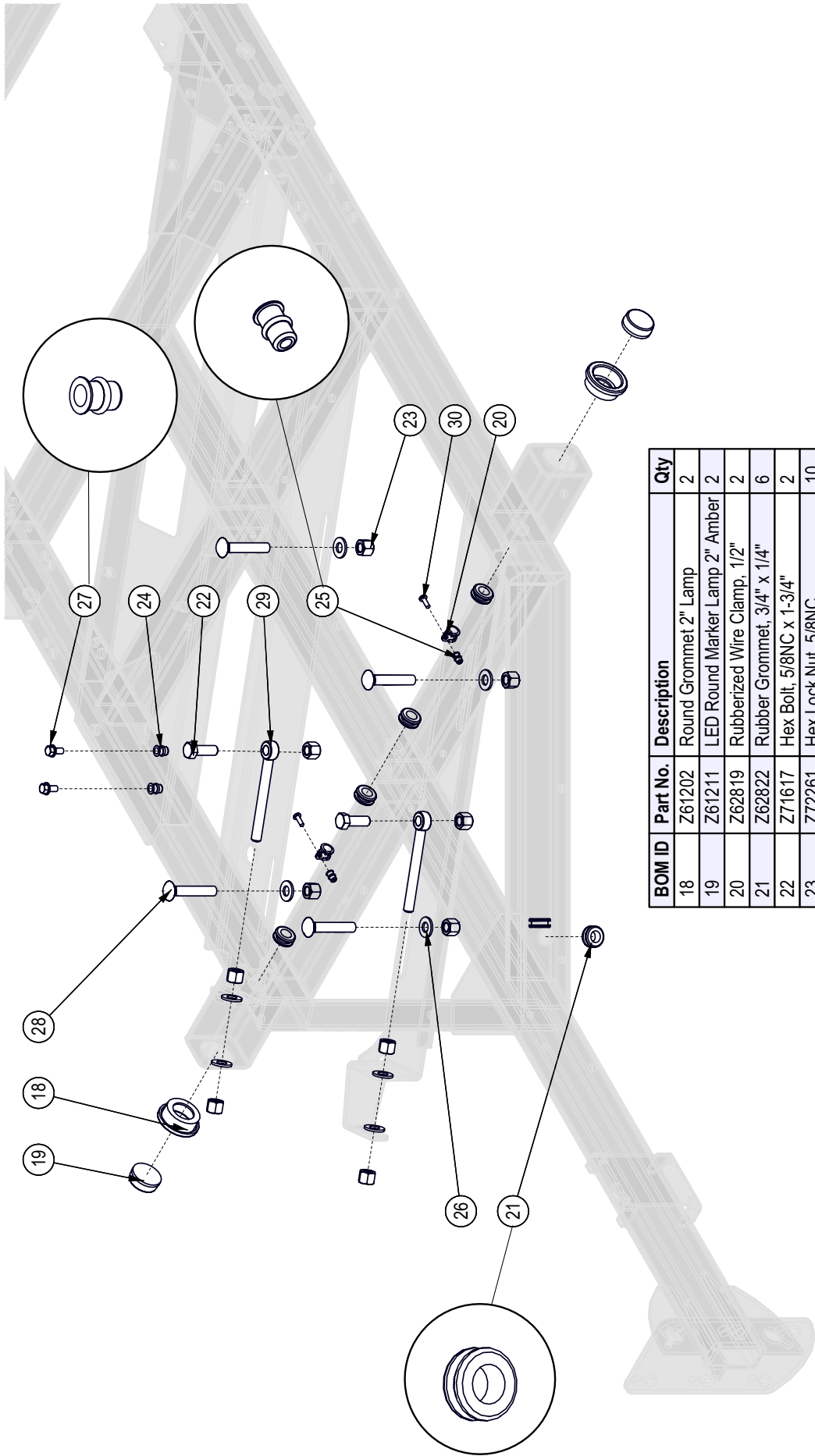
BOM ID	Part No.	Description	Qty
13	Z71617	Hex Bolt, 5/8NC x 1-3/4"	4
14	Z72261	Hex Lock Nut, 5/8NC	4
15	Z91618	Hitch Coupler, 2-5/16" Ball x 12000lbs	1



BOM ID	Part No.	Description	Qty
8	Z91621	Pintle, 3" Eye x 15000lbs	1
9	Z91713	Breakaway Safety Switch	1
10	Z92303-2	Safety Snap, 3-5/8" x 293lbs	1
11	Z92309	Safety Chain, 1/4" x 5ft Heavy Duty with Two Grab Hooks	1
12	1082W503	Jack Weldment for 1082A502	1

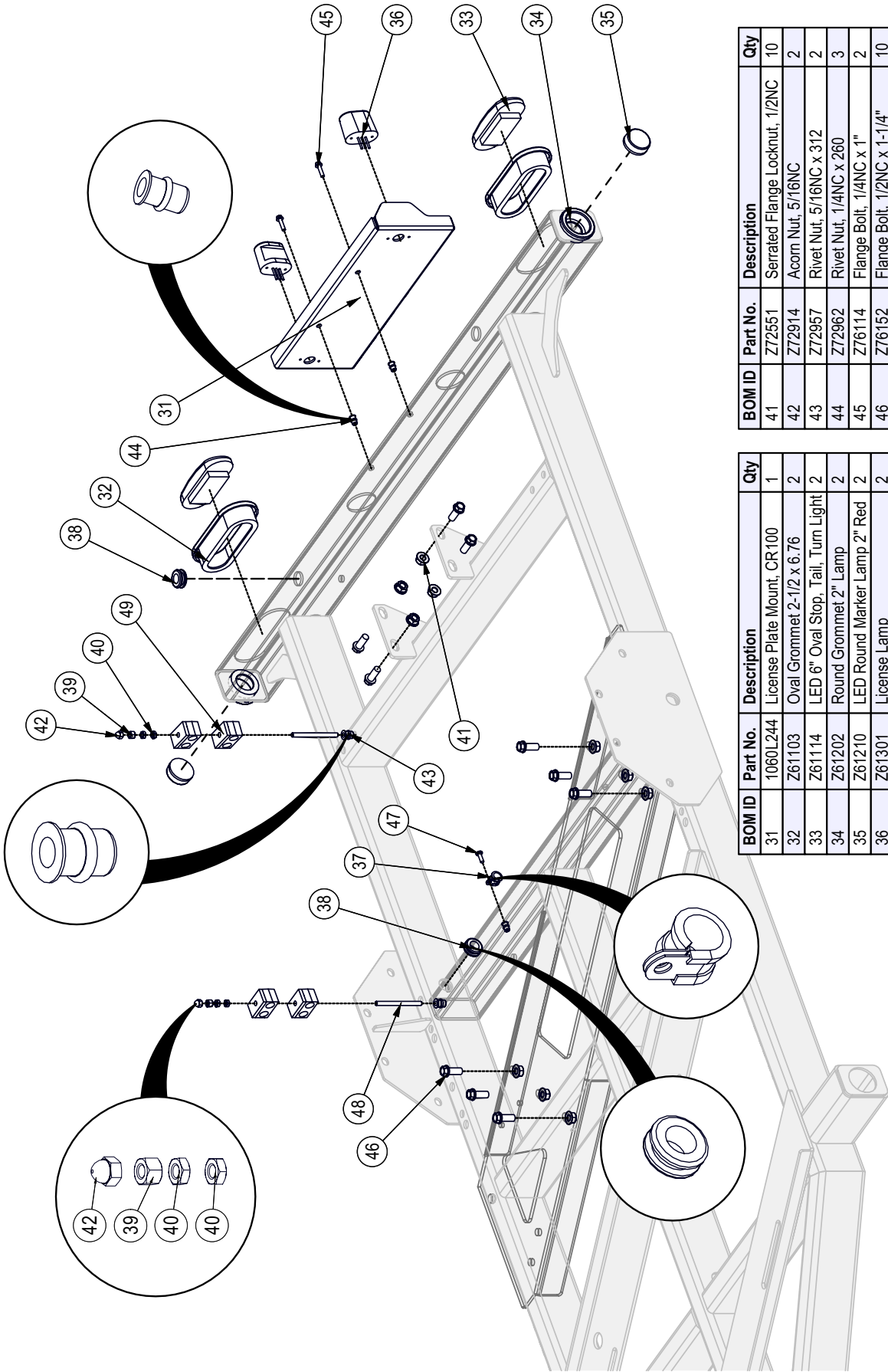
BOM ID	Part No.	Description	Qty
1	Z62822	Rubber Grommet, 3/4" x 1/4"	1
2	Z71125	Hex Bolt, 1/4NC x 2-1/2"	1
3	Z71310	Hex Bolt, 3/8NC x 1"	4
4	Z71720	Hex Bolt, 3/4NC x 2"	4
5	Z72211	Hex Lock Nut, 1/4NC	1
6	Z72231	Hex Lock Nut, 3/8NC	4
7	Z72271	Hex Lock Nut, 3/4NC	4

Frame Detail – Front



BOM ID	Part No.	Description	Qty
18	Z61202	Round Grommet 2" Lamp	2
19	Z61211	LED Round Marker Lamp 2" Amber	2
20	Z62819	Rubberized Wire Clamp, 1/2"	2
21	Z62822	Rubber Grommet, 3/4" x 1/4"	6
22	Z71617	Hex Bolt, 5/8NC x 1-3/4"	2
23	Z72261	Hex Lock Nut, 5/8NC	10
24	Z72959	Rivet Nut, 3/8NC x 3/12	2
25	Z72962	Rivet Nut, 1/4NC x 260	2
26	Z73161	SAE Washer, 5/8"	8
27	Z76133	Flange Bolt, 3/8NC x 3/4"	2
28	Z76265	Carriage Bolt, 5/8NC x 3-1/2"	4
29	Z76561	Rod End, 5/8NC x 6" Full Threads	2
30	Z78301	Machine Screw, 1/4NC x 3/4"	2

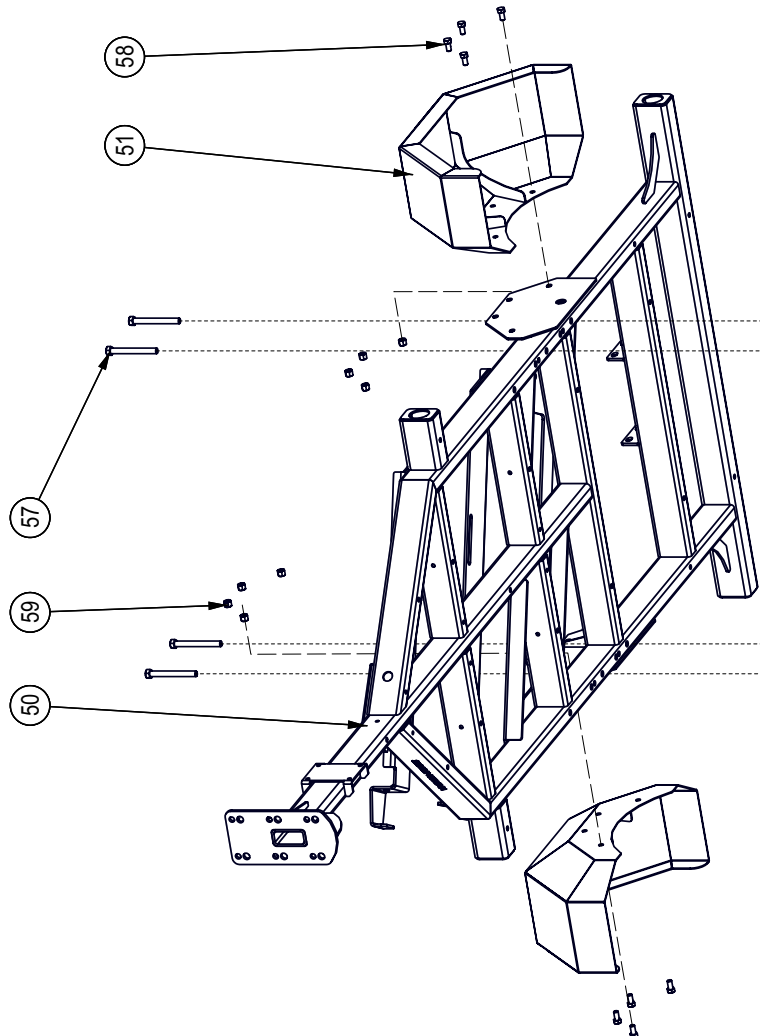
Frame Detail – Rear



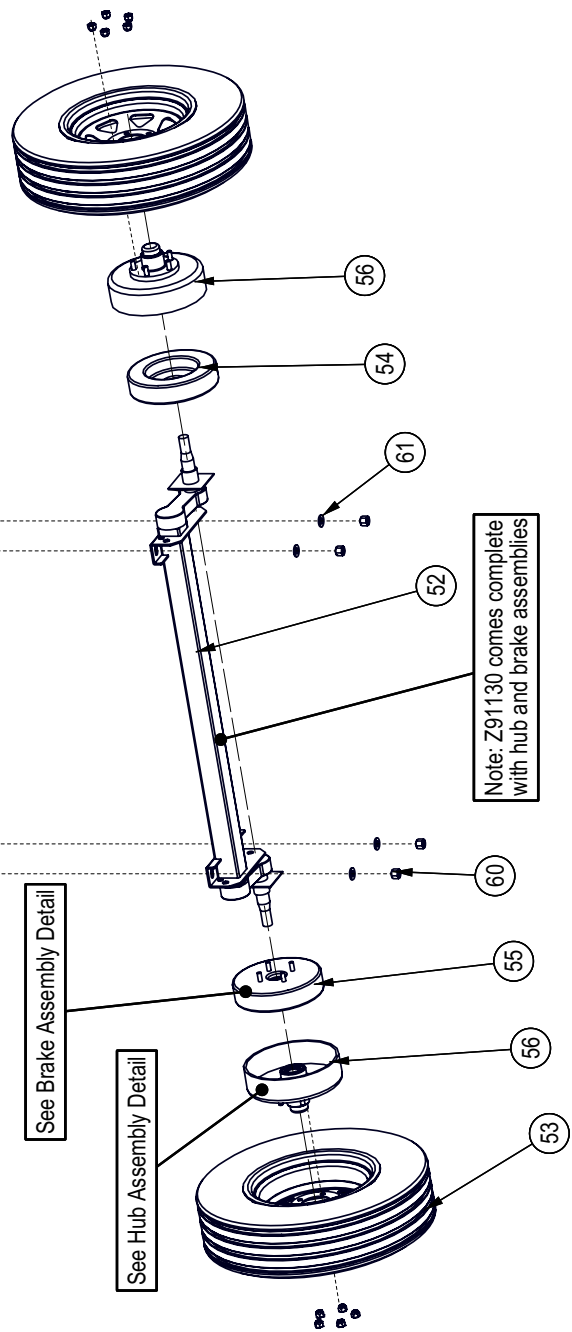
BOM ID	Part No.	Description	Qty
41	Z72551	Serrated Flange Locknut, 1/2NC	10
42	Z72914	Acorn Nut, 5/16NC	2
43	Z72957	Rivet Nut, 5/16NC x 312	2
44	Z72962	Rivet Nut, 1/4NC x 260	3
45	Z76114	Flange Bolt, 1/4NC x 1"	2
46	Z76152	Flange Bolt, 1/2NC x 1-1/4"	10
47	Z78301	Machine Screw, 1/4NC x 3/4"	1
48	Z79141	Threaded Stud, 5/16NC x 4"	2
49	Z79463	Double Hose Clamp, 11/16" OD	4

BOM ID	Part No.	Description	Qty
31	1060L244	License Plate Mount, CR100	1
32	Z61103	Oval Grommet 2-1/2 x 6.76	2
33	Z61114	LED 6" Oval Stop, Tail, Turn Light	2
34	Z61202	Round Grommet 2" Lamp	2
35	Z61210	LED Round Marker Lamp 2" Red	2
36	Z61301	License Lamp	2
37	Z62819	Rubberized Wire Clamp, 1/2"	1
38	Z62822	Rubber Grommet 3/4 x 1/4	2
39	Z72221	Hex Lock Nut, 5/16NC	2
40	Z72321	Jam Nut, 5/16NC	4

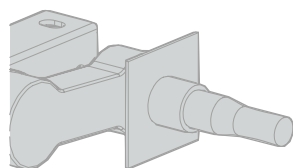
Frame & Fender Assembly



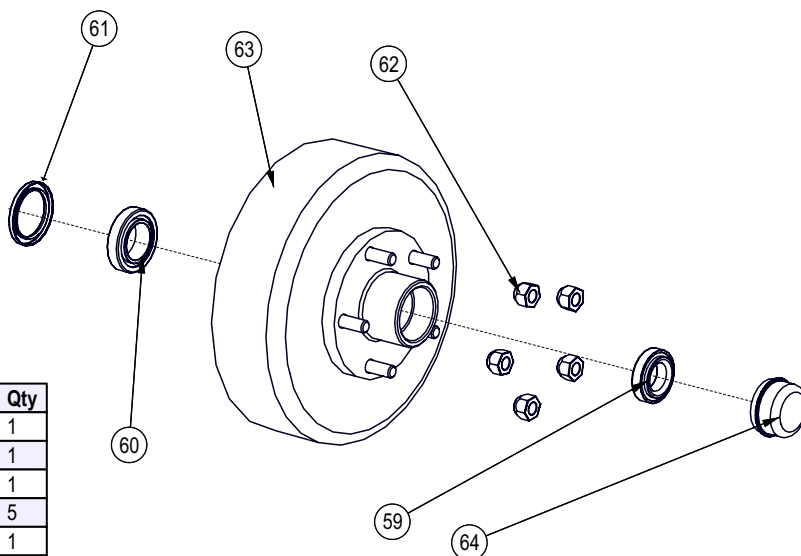
BOM ID	Part No.	Description	Qty
50	1061W169	CR70 Chassis Weldment	1
51	1061W120	Fender Well Weldment	2
52	Z91130	#10 Full Flex Axle, 3500lbs x 56" HF With Electric Brakes	1
53	Z91317	ST205/75R14 LRC Radial Trail 5on4-1/2"	2
54	Z91718	Electric Brake, 10" x 2-1/4" x 1750lbs LH	1
55	Z91719	Electric Brake, 10" x 2-1/4" x 1750lbs RH	1
56	Z91705	Brake Drum, 10" x 1750lbs 5on4-1/2" Complete Assembly	2
57	Z71655	Hex Bolt, 5/8NC x 5-1/2"	4
58	Z71510	Hex Bolt, 1/2NC x 1"	8
59	Z72251	Hex Lock Nut, 1/2NC	8
60	Z72261	Hex Lock Nut, 5/8NC	4
61	Z73161	SAE Washer, 5/8"	4



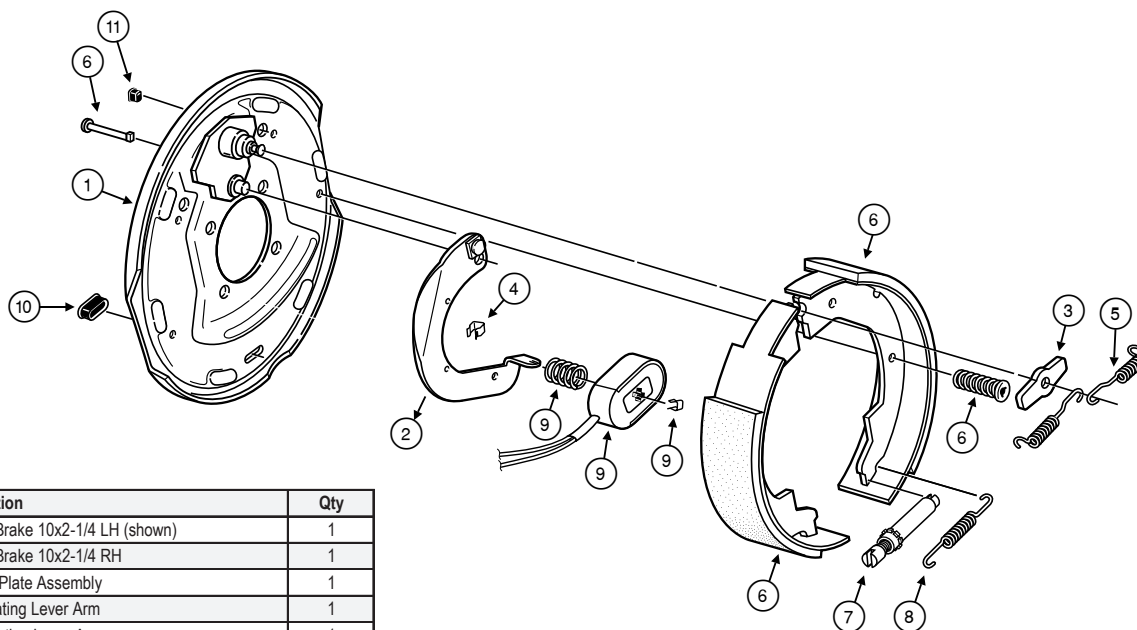
Hub Assembly



BOM ID	Part No.	Description	Qty
59	Z23202	L44649 Cone, L44610 Cup	1
60	Z23205	L68149 Cone and L68111 Cup	1
61	Z28202	Seal, Single Lip	1
62	Z72931	Lug Nut, 1/2NF	5
63	Z91708	1750# Brake Drum 10" 5 - 4-1/2 Bolts	1
64	Z91801	Dust Cap 1.98 Bore	1



Brake Assembly



Item	Part No.	Description	Qty
	Z91718	Electric Brake 10x2-1/4 LH (shown)	1
	Z91719	Electric Brake 10x2-1/4 RH	1
1	036-019-10	Backing Plate Assembly	1
2	047-019-05	LH Actuating Lever Arm	1
2	047-020-05	RH Actuating Lever Arm	1
3	005-067-00	Washer	1
4	027-005-00	Wire Clip	2
5	046-009-00	Retractor Spring	2
6	K71-047-00	Shoe & Lining Kit Contains:	1
	#040-017-00	Primary Shoe & Lining	1
	#040-021-00	Secondary Shoe & Lining	1
	#049-002-00	Shoe Hold Down Pin #8	2
	#046-077-00	Shoe Hold Down Spring & Cup	2
7	043-004-00	Adjuster Assembly	1
8	046-018-00	Adjusting Screw Spring	1
9	K71-104-00	Magnet Kit Contains:	1
	#042-140-00	Magnet (green wire)	1
	#027-009-00	Magnet Clip	1
	#046-080-00	Magnet Spring	1
10	046-007-00	Adjuster Slot Plug	2
11	046-016-00	Wire Grommet	1

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.

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Engine

Engine Oil Drain Assembly

Engine Skid Weldment, CR70

See Hydraulic Pump Assembly

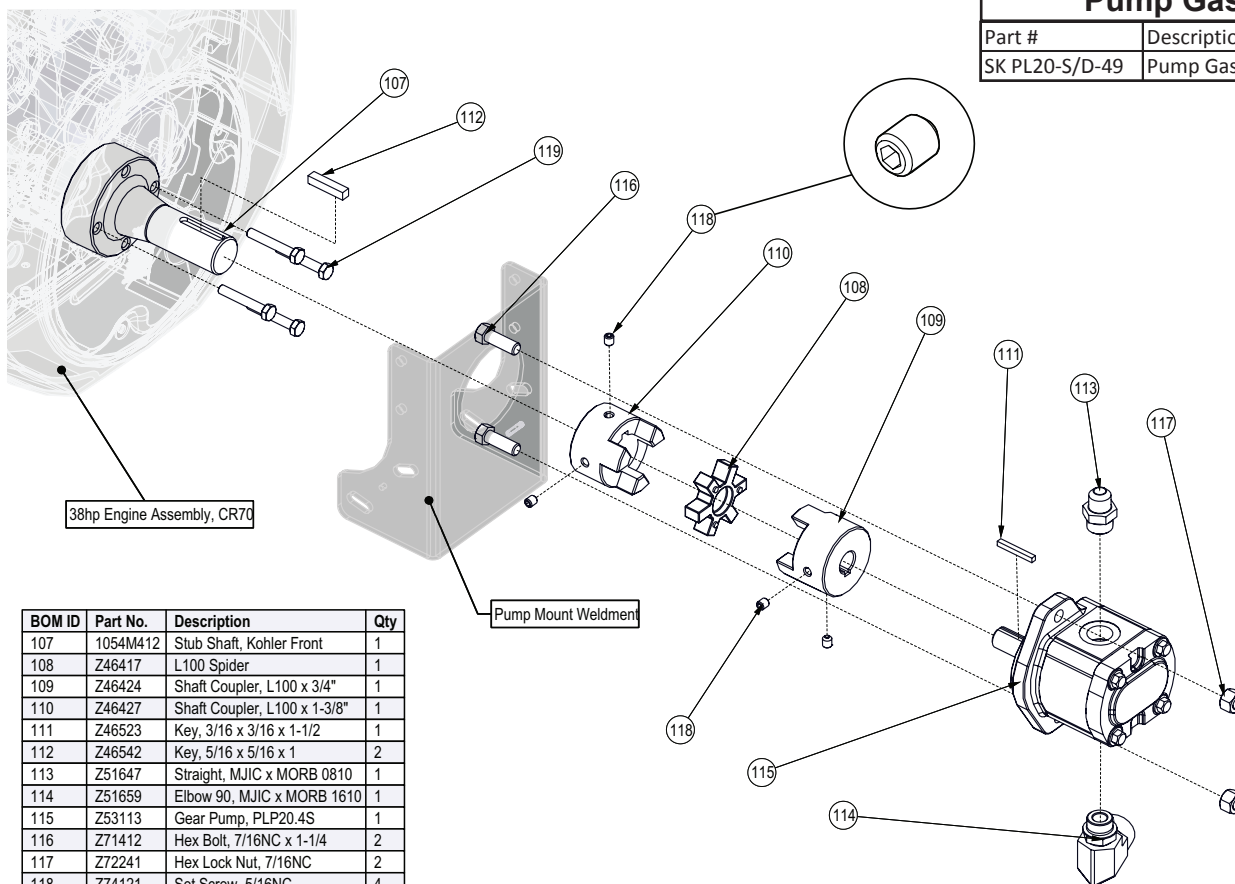
See Fluid Coupler Detail

Note: for more information on Kohler CH980 Engine, please review the Kohler Owners Manual.

Engine Parts

Part #	Description
2508301-S	Element, Air Filter - Primary
2508304-S	Element, Air Filter - Safety
5205002-S1	Oil Filter

Hydraulic Pump Assembly



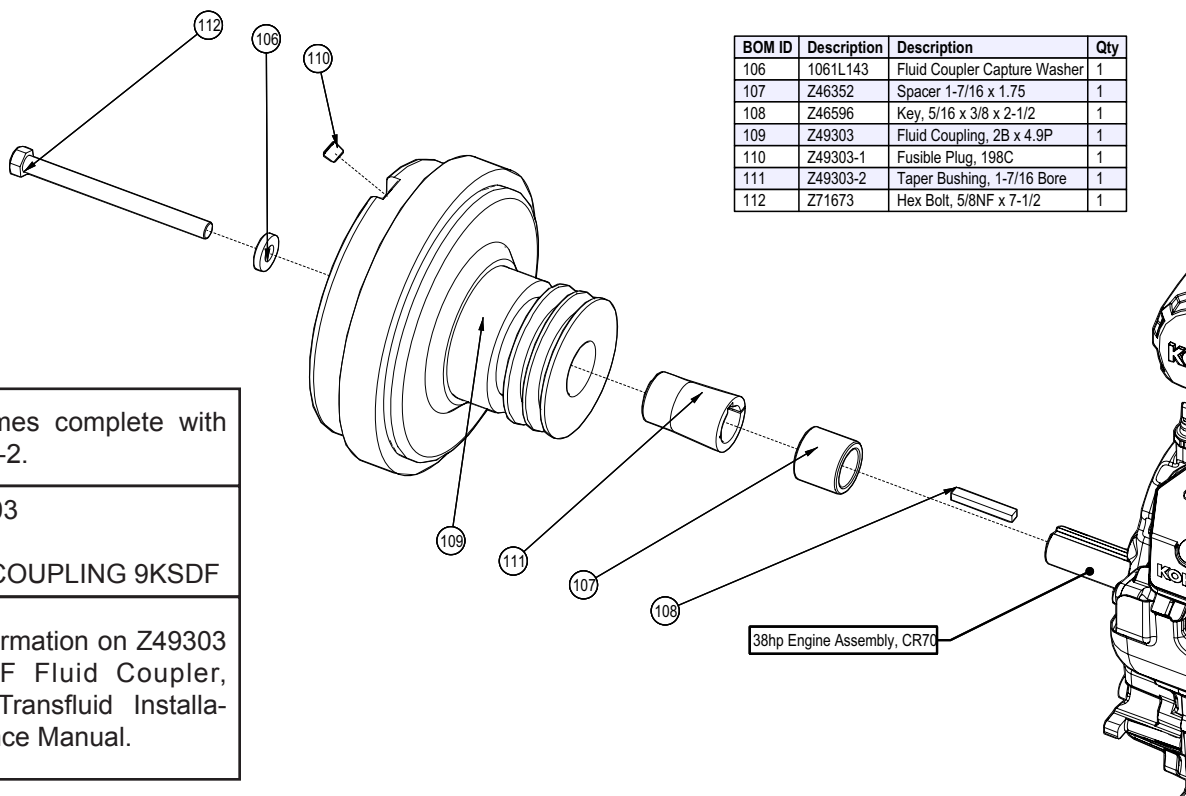
BOM ID	Part No.	Description	Qty
107	1054M412	Stub Shaft, Kohler Front	1
108	Z46417	L100 Spider	1
109	Z46424	Shaft Coupler, L100 x 3/4"	1
110	Z46427	Shaft Coupler, L100 x 1-3/8"	1
111	Z46523	Key, 3/16 x 3/16 x 1-1/2	1
112	Z46542	Key, 5/16 x 5/16 x 1	2
113	Z51647	Straight, MJIC x MORB 0810	1
114	Z51659	Elbow 90, MJIC x MORB 1610	1
115	Z53113	Gear Pump, PLP20.4S	1
116	Z71412	Hex Bolt, 7/16NC x 1-1/4	2
117	Z72241	Hex Lock Nut, 7/16NC	2
118	Z74121	Set Screw, 5/16NC	4
119	Z77154	Hex Bolt, M8x1.25x50mm	4

Pump Gasket Kit

Part #	Description
SK PL20-S/D-49	Pump Gasket Kit for #148740

Fluid Coupler Assembly – Transfluid

Note: Z49303 Transfluid is interchangeable with Z49304 Rotofluid



BOM ID	Description	Description	Qty
106	1061L143	Fluid Coupler Capture Washer	1
107	Z46352	Spacer 1-7/16 x 1.75	1
108	Z46596	Key, 5/16 x 3/8 x 2-1/2	1
109	Z49303	Fluid Coupling, 2B x 4.9P	1
110	Z49303-1	Fusible Plug, 198C	1
111	Z49303-2	Taper Bushing, 1-7/16 Bore	1
112	Z71673	Hex Bolt, 5/8NF x 7-1/2	1

Note: Z49303 comes complete with Z94303-1 & Z9303-2.

Seal Kit for #Z49303
#107200000183
SEAL KIT, FLUID COUPLING 9KSDF

Note: for more information on Z49303 Transfluid 9KSDF Fluid Coupler, please review the Transfluid Installation and Maintenance Manual.

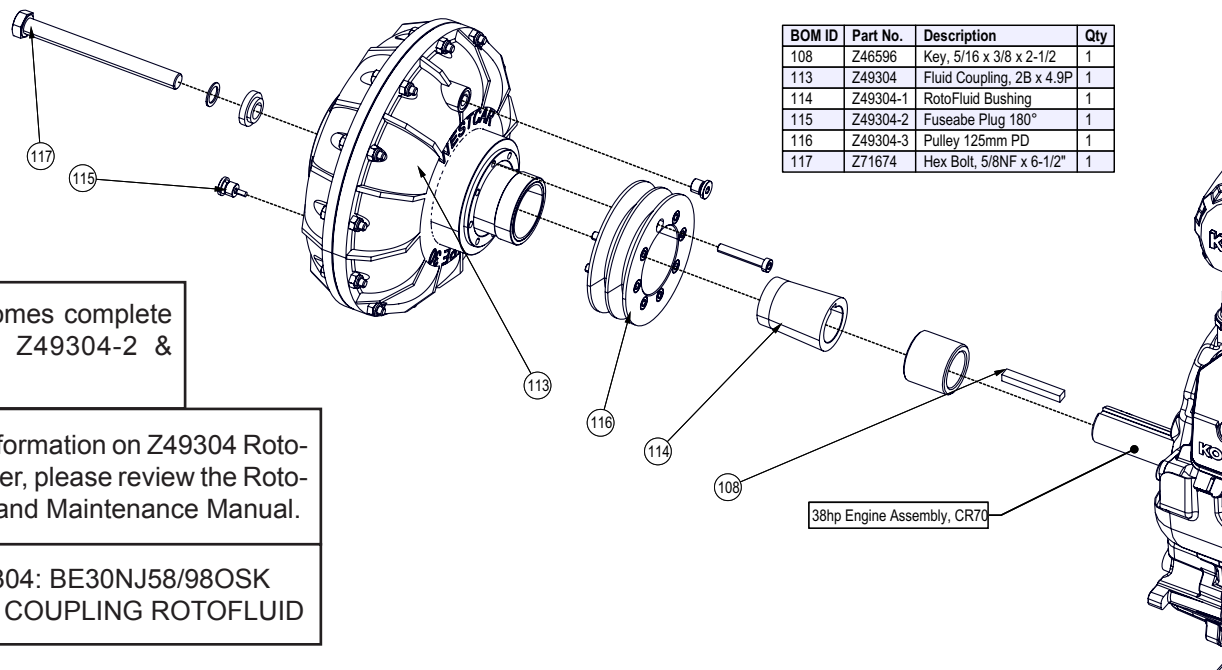
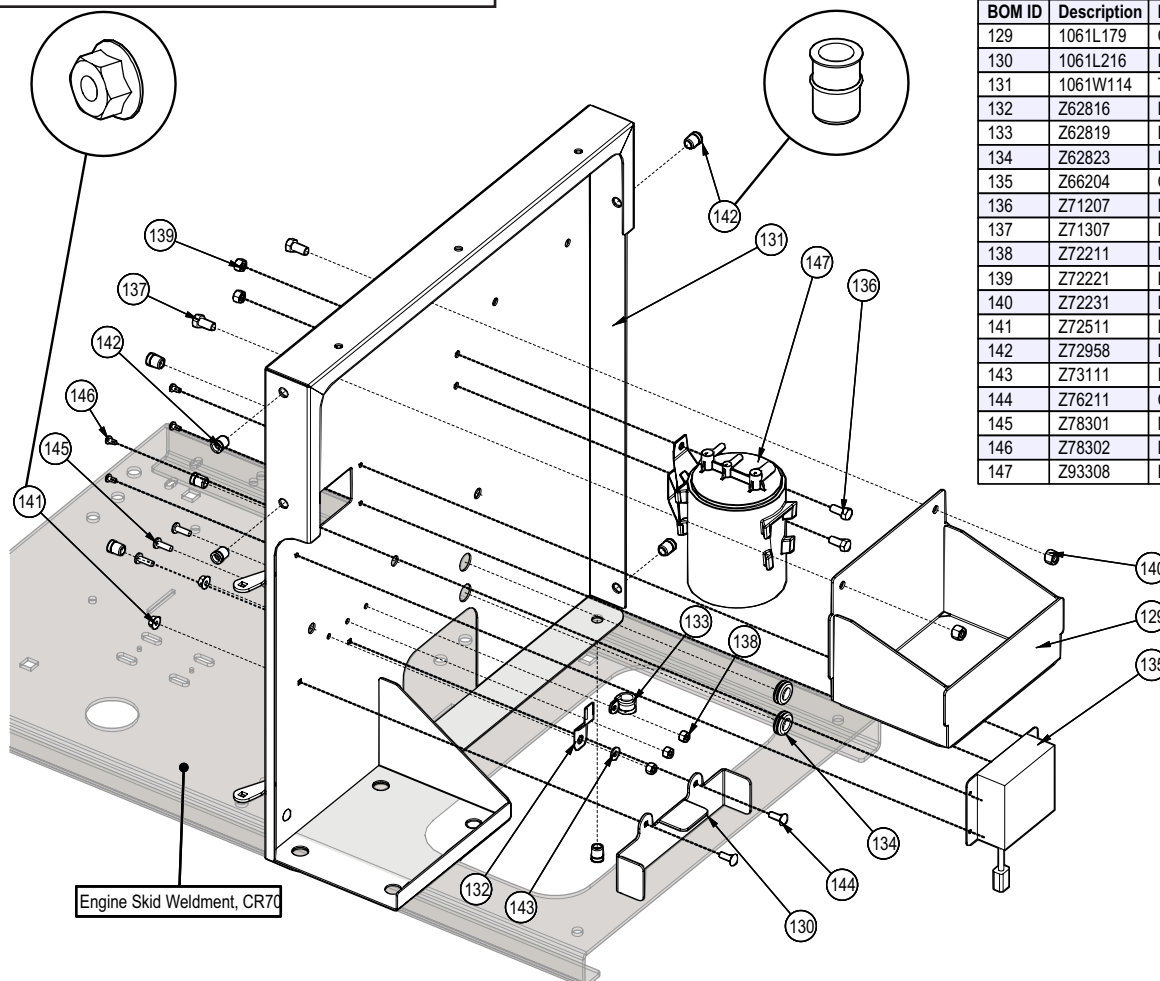
Fluid Coupler Assembly – Rotofluid

Note: Z49304 Rotofluid is interchangeable with Z49303 Transfluid

Note: Z49304 comes complete with Z49304-1, Z49304-2 & Z49304-3.

Note: for more information on Z49304 Roto-Fluid Fluid Coupler, please review the Roto-fluid Installation and Maintenance Manual.

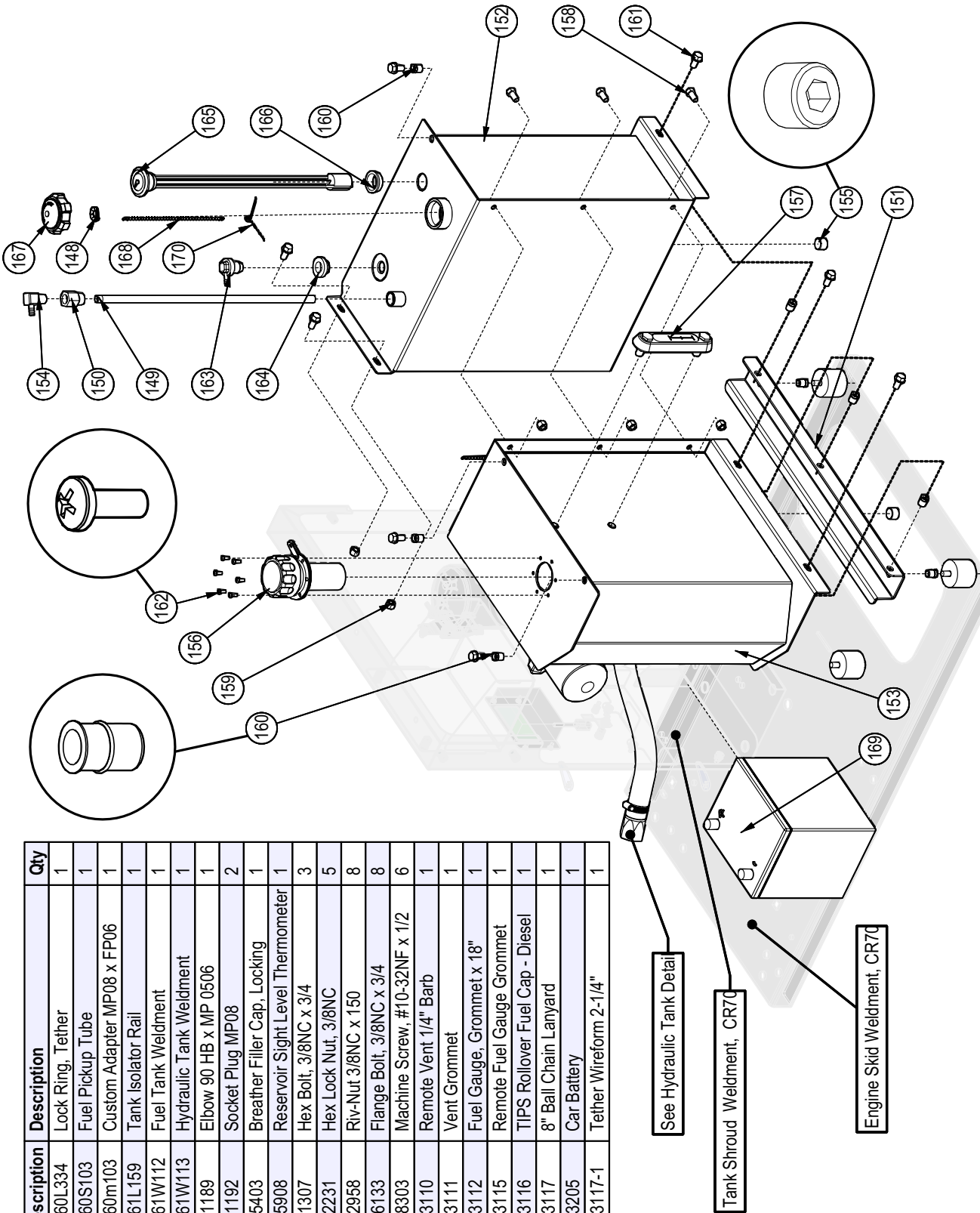
Seal Kit for #Z49304: BE30NJ58/98OSK
SEAL KIT, FLUID COUPLING ROTOFLUID

**Tank Compartment**

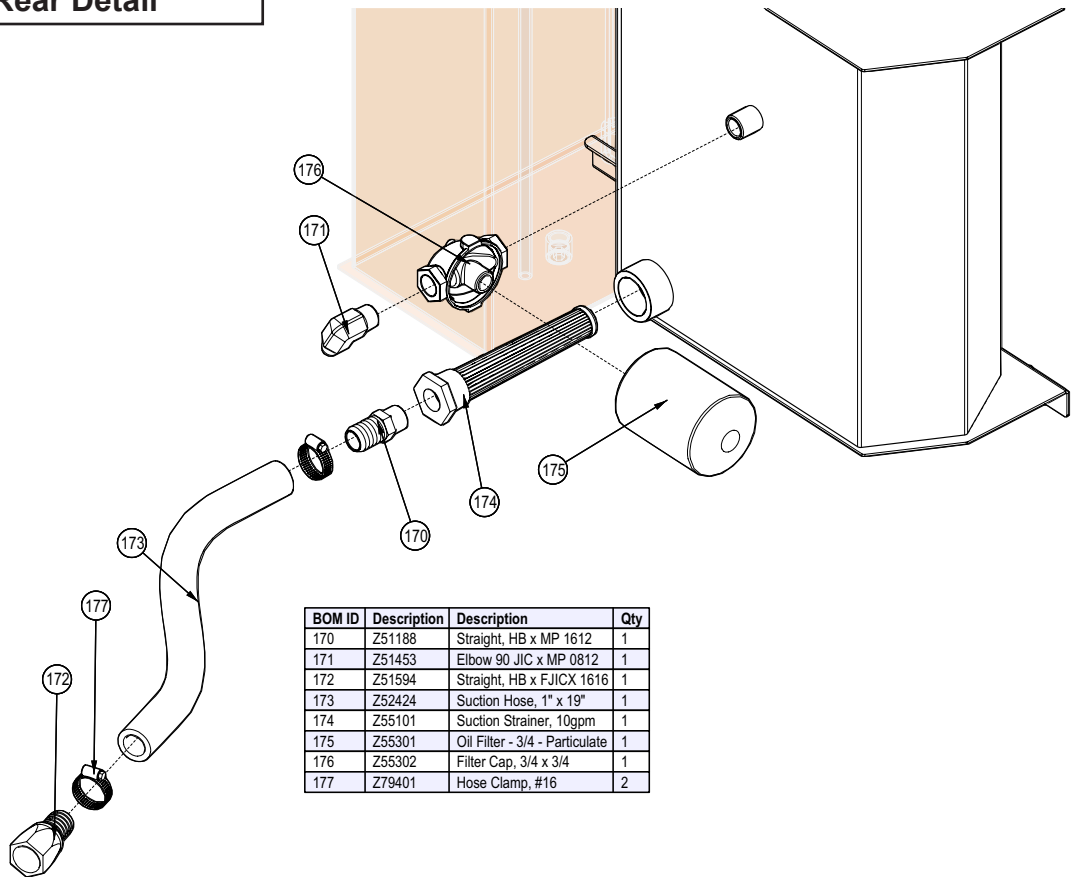
BOM ID	Description	Description	Qty
129	1061L179	CR70 Toolbox	1
130	1061L216	Battery Cage	1
131	1061W114	Tank Shroud Weldment, CR70	1
132	Z62816	Deutsch Mounting Clip	1
133	Z62819	Rubberized Wire Clamp, 1/2"	1
134	Z62823	Rubber Grommet 3/4 x 1/8	2
135	Z66204	Control, IntelliFEED	1
136	Z71207	Hex Bolt, 5/16NC x 3/4	2
137	Z71307	Hex Bolt, 3/8NC x 3/4	2
138	Z72211	Hex Lock Nut, 1/4NC	3
139	Z72221	Hex Lock Nut, 5/16NC	2
140	Z72231	Hex Lock Nut, 3/8NC	2
141	Z72511	Hex Flange Nut, 1/4NC	3
142	Z72958	Riv-Nut 3/8NC x 150	8
143	Z73111	Flat Washer, 1/4	1
144	Z76211	Carriage Bolt, 1/4NC x 3/4	3
145	Z78301	Machine Screw, 1/4-20NC x 3/4	3
146	Z78302	Machine Screw, #10-32NF x 3/8	4
147	Z93308	EPA Carbon Canister 1200cc	1

Fuel & Hydraulic Tanks

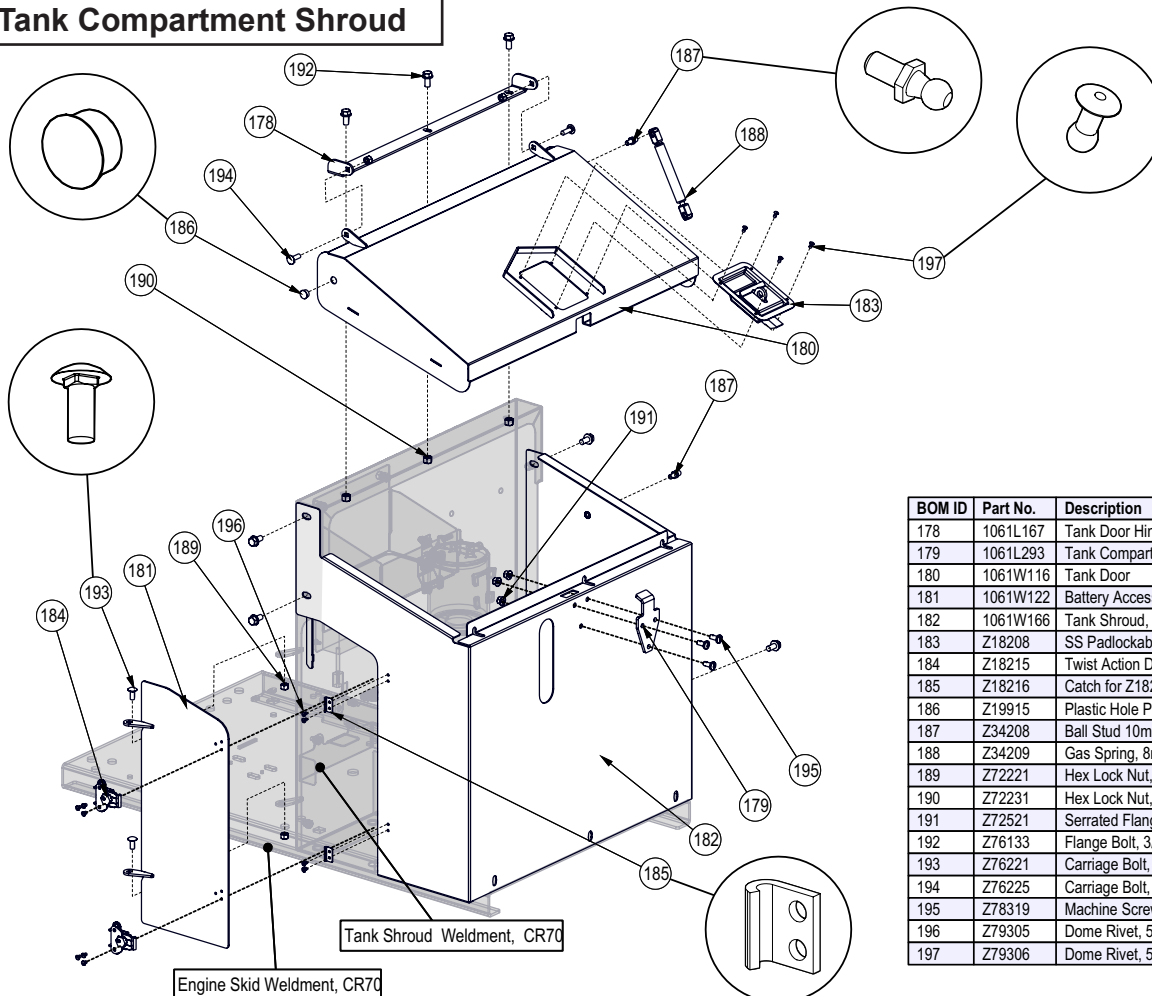
BOM ID	Description	Qty
148	1060L334 Lock Ring, Tether	1
149	1060S103 Fuel Pickup Tube	1
150	1060m103 Custom Adapter MP08 x FP06	1
151	1061L159 Tank Isolator Rail	1
152	1061W112 Fuel Tank Weldment	1
153	1061W113 Hydraulic Tank Weldment	1
154	Z51189 Elbow 90 HB x MP 0506	1
155	Z51192 Socket Plug MP08	2
156	Z55403 Breather Filler Cap, Locking	1
157	Z55908 Reservoir Sight Level Thermometer	1
158	Z71307 Hex Bolt, 3/8NC x 3/4	3
159	Z72231 Hex Lock Nut, 3/8NC	5
160	Z72958 Riv-Nut 3/8NC x 150	8
161	Z76133 Flange Bolt, 3/8NC x 3/4	8
162	Z78303 Machine Screw, #10-32NF x 1/2	6
163	Z93110 Remote Vent 1/4" Barb	1
164	Z93111 Vent Grommet	1
165	Z93112 Fuel Gauge, Grommet x 18"	1
166	Z93115 Remote Fuel Gauge Grommet	1
167	Z93116 TIPS Rollover Fuel Cap - Diesel	1
168	Z93117 8" Ball Chain Lanyard	1
169	Z93205 Car Battery	1
170	Z93117-1 Tether Wireform 2-1/4"	1



Hydraulic Tank Rear Detail



Tank Compartment Shroud



No. **Description** **Qty**

W127	CR100 Discharge Deflector	1
W129	Latch Release Weldment	1
W145	Deflector Handle Weldment	1
W107	Discharge Chute, CR70	1
L198	CR100 Hood Capture Ring	2
L340	CR100 Spacer Ring	2
S111	Discharge Thrust Bearing, Wide	4
S112	Discharge Thrust Bearing, Narrow	4
B321	Grip, 1" x 5"	2
P114	Plastic Pipe Plug 1" OD	2
F204	Grease Fitting, 1/8NPT x 45	1
S305	Spring 5/8 x 3" Medium	1
S403	Spring 27mm x 178mm x 0.105	1
B217	Hex Bolt, 5/16NC x 1-3/4	10
N221	Hex Lock Nut, 5/16NC	10
N331	Hex Lock Nut, 3/8NC	5
B552	Shoulder Bolt, 1/2 x 5/8	1

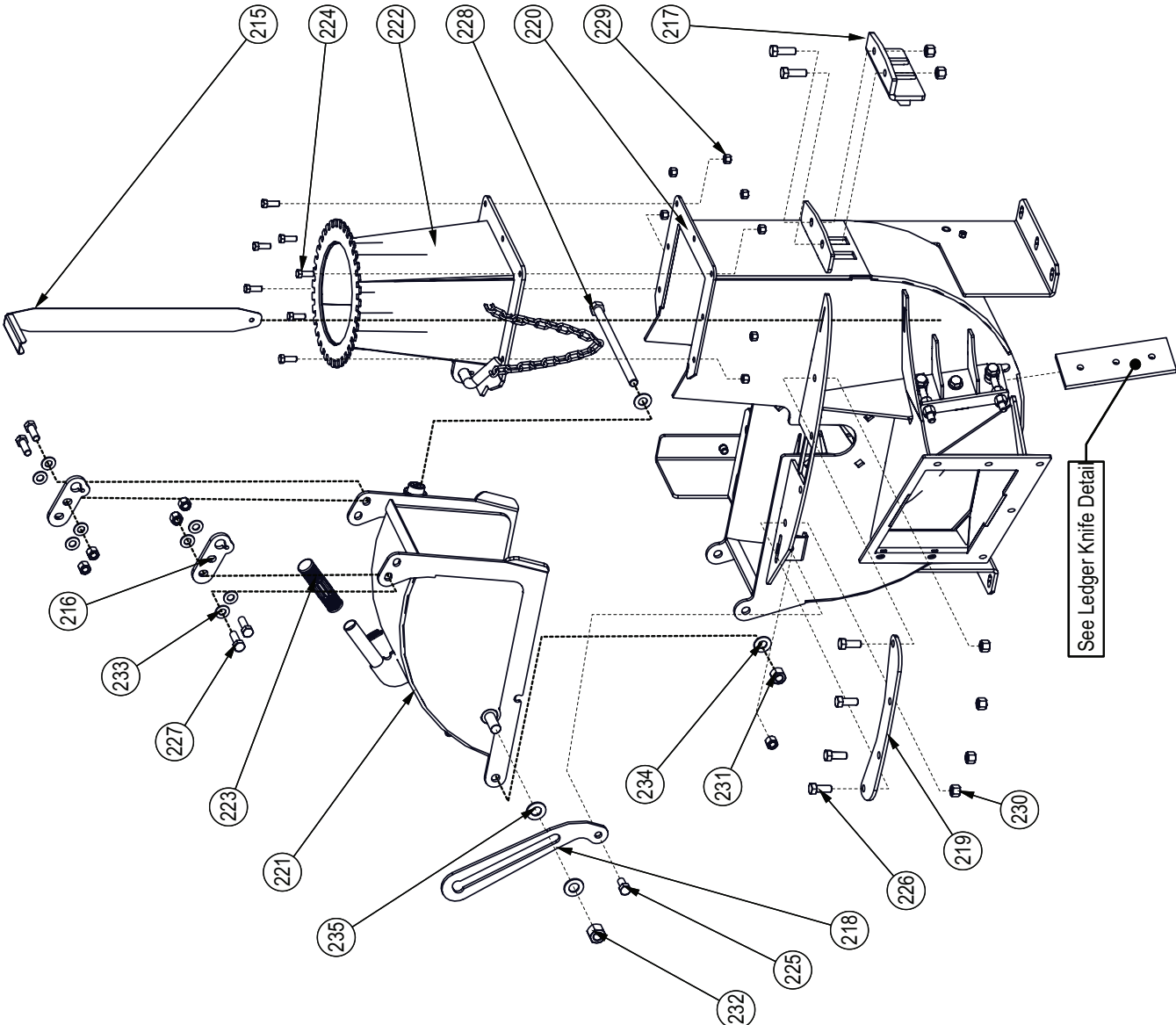
BOM ID	Part No.	Description	Qty
197	1060W127	CR100 Discharge Deflector	1
198	1060W129	Latch Release Weldment	1
199	1060W145	Deflector Handle Weldment	1
200	1061W107	Discharge Chute, CR70	1
201	1060L198	CR100 Hood Capture Ring	2
202	1060L340	CR100 Spacer Ring	2
203	1060S111	Discharge Thrust Bearing, Wide	4
204	1060S112	Discharge Thrust Bearing, Narrow	4
205	Z19321	Grip, 1" x 5"	2
206	Z19914	Plastic Pipe Plug 1" OD	2
207	Z29204	Grease Fitting, 1/8NPT x 45	1
208	Z31305	Spring 5/8 x 3" Medium	1
209	Z31403	Spring 27mm x 178mm x 0.105	1
210	Z71217	Hex Bolt, 5/16NC x 1-3/4	10
211	Z72221	Hex Lock Nut, 5/16NC	10
212	Z72231	Hex Lock Nut, 3/8NC	5
213	Z75552	Shoulder Bolt, 1/2 x 5/8	1
214	Z76231	Carriage Bolt, 3/8NC x 1	2

ing Front

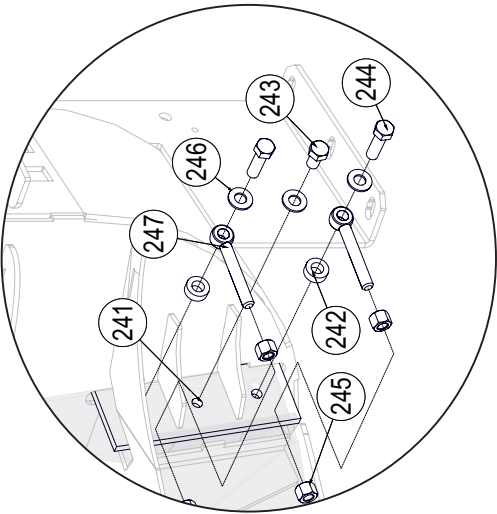
BOM ID	Part No.	Description
235	Z18210	Spring
236	Z62819	Rubber
237	Z62821	Rubber
238	Z62822	Rubber
239	Z62823	Rubber
240	Z72211	Hex Lo
241	Z72752	Machin
242	Z72959	Riv-Nut

BOM ID	Part No.	Description	Qty
235	Z18210	Spring Pin 1/2 x 1" Stroke, No Pegs	
236	Z628219	Rubberized Wire Clamp, 1/2"	2
237	Z62821	Rubberized Wire Clamp, 5/8"	1
238	Z62822	Rubber Grommet 3/4 x 1/4	1
239	Z62823	Rubber Grommet 3/4 x 1/8	4
240	Z72211	Hex Lock Nut, 1/4NC	3
241	Z72752	Machine Nut, #10-32NF	8
242	Z72959	Riv-Nut 3/8NC x 312	6
243	Z75203	FHCS, #10-32NF x 3/4	3
244	Z78301	Machine Screw, 1/4-20NC x 3/4"	4

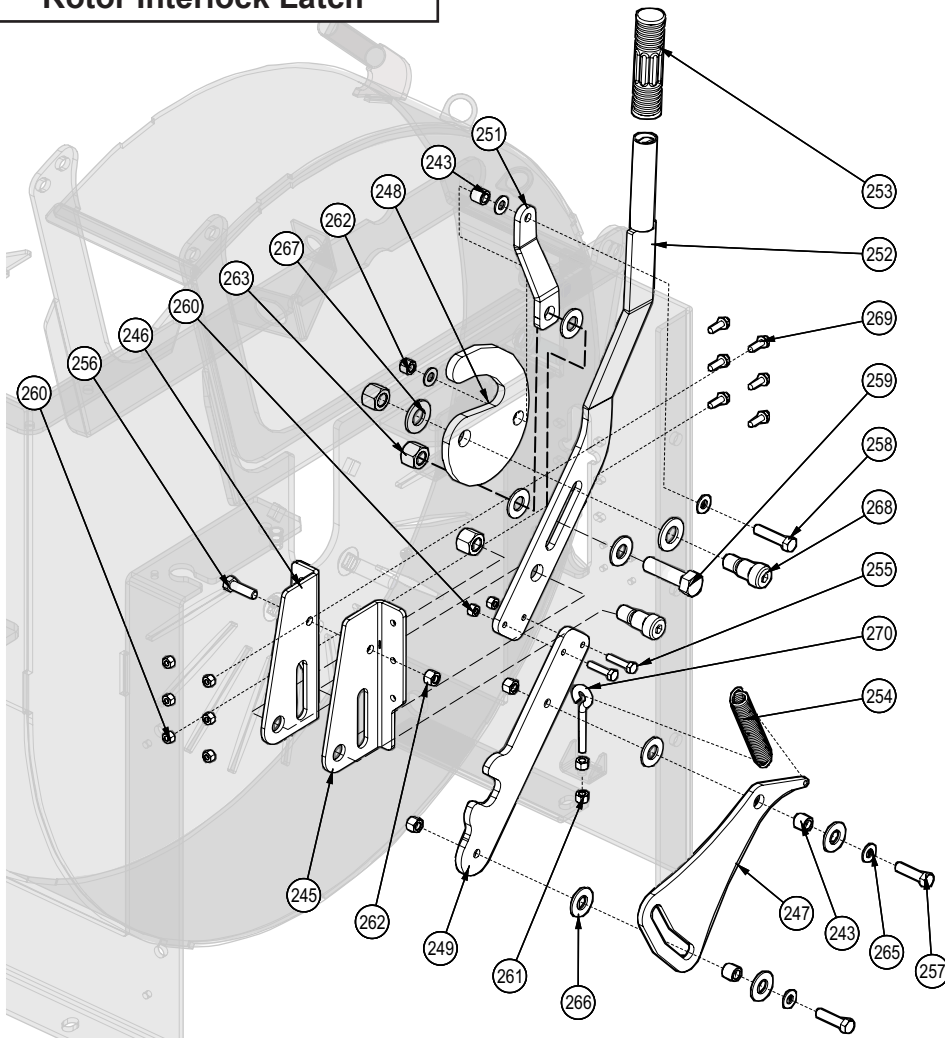
Rotor Housing Rear



BOM ID	Part No.	Description	Qty
215	1012L269	Gauge, Ledger Setting	1
216	1060L284	Hood Closure Interface	2
217	1060W103	Twig Breaker, CR100	1
218	1061L142	Rotation Stop, CR70	1
219	1061L197	Rotor Tie Plate, CR70	1
220	1061W106	Lower Housing Weldment, CR70	1
221	1061W108	CR70 Upper Housing	1
222	1061W140	Square to Round Weldment, CR70	1
223	Z19321	Grip, 1" x 5"	1
224	Z71310	Hex Bolt, 3/8NC x 1	7
225	Z71510	Hex Bolt, 1/2NC x 1	1
226	Z71512	Hex Bolt, 1/2NC x 1-1/4	4
227	Z71515	Hex Bolt, 1/2NC x 1-1/2	6
228	Z71662	Hex Bolt, 5/8NC x 10	1
229	Z72231	Hex Lock Nut, 3/8NC	7
230	Z72251	Hex Lock Nut, 1/2NC	11
231	Z72261	Hex Lock Nut, 5/8NC	1
232	Z72271	Hex Lock Nut, 3/4NC	1
233	Z73151	Flat Washer, 1/2	8
234	Z73161	Flat Washer, 5/8	2
235	Z73171	Flat Washer, 3/4"	2
241	1012M204	Knife, BX62 Ledger	1
244	Z71579G8	Hex Bolt, 1/2NF x 1-3/4 Gr8	2
245	Z72251	Hex Lock Nut, 1/2NC	4
246	Z73151	Flat Washer, 1/2	3

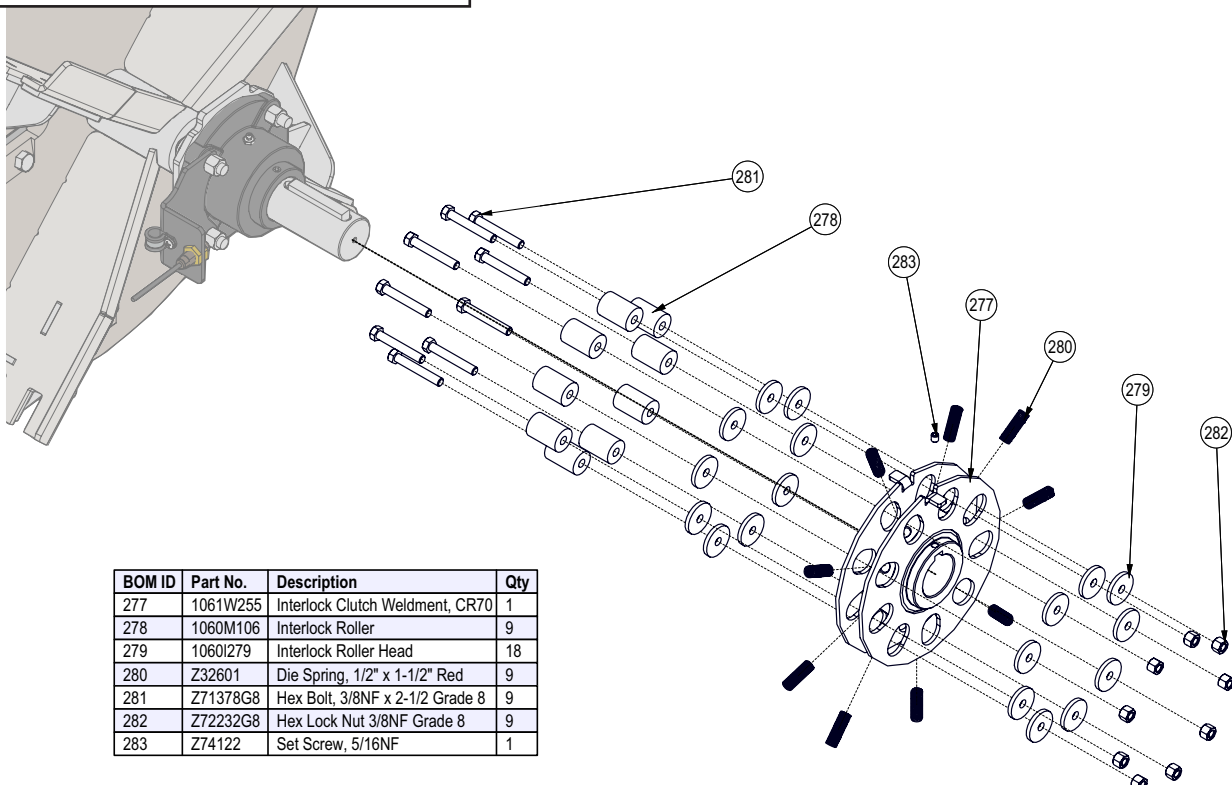


Rotor Interlock Latch



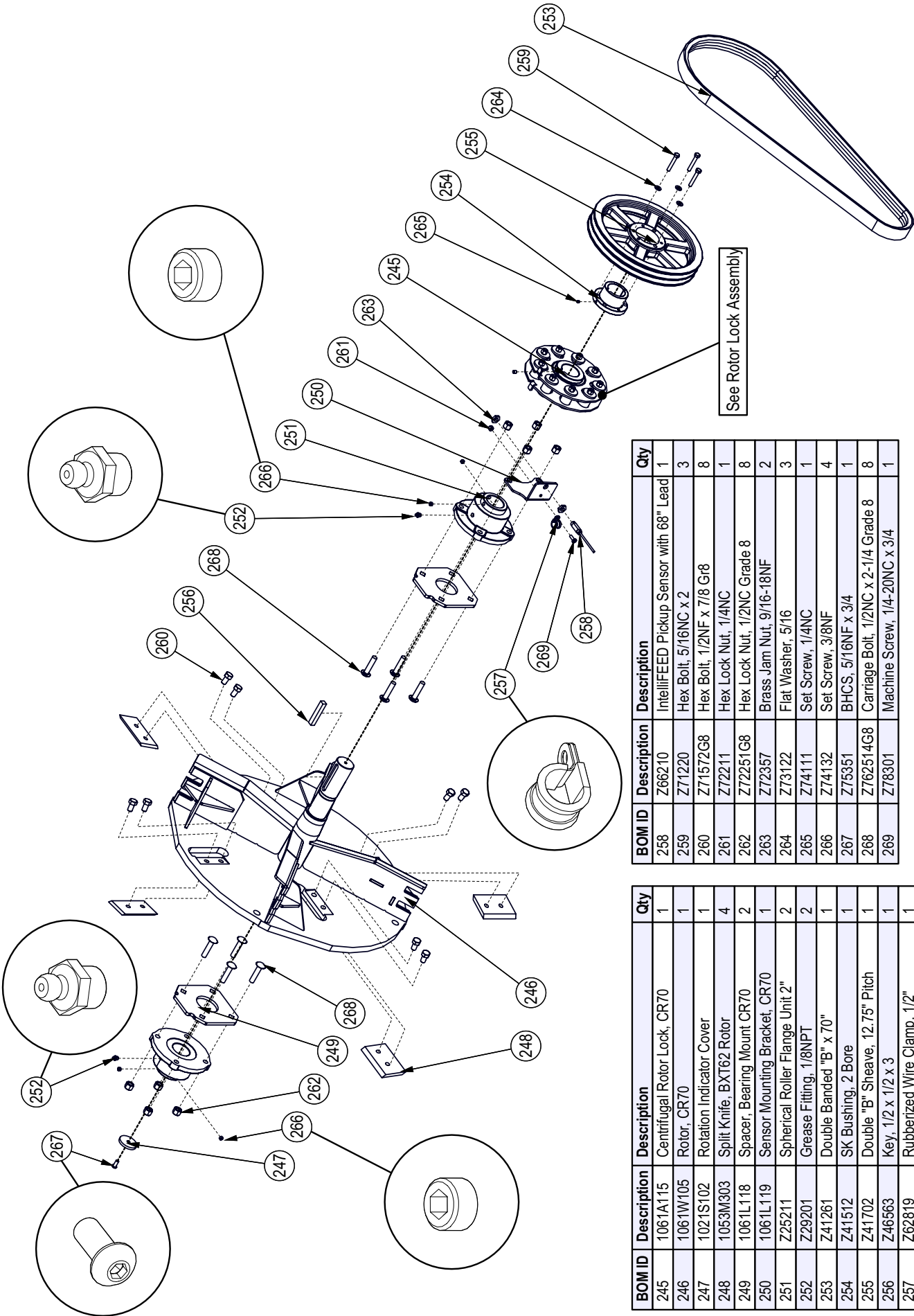
BOM ID	Part #	Description	Qty
243	1056M115	Spacer, Shredder .580	3
245	1060L281	Interlock Handle Base LH	1
246	1060L281H	1060L281 Mirror	1
247	1060L282	Interlock Early Warning	1
248	1060L287	Rotor Hood Safety Latch	1
249	1060L328	Interlock Tip	1
251	1060L330	Linkage	1
252	1060W256	Interlock Engage Handle	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 No.	Description	Qty
277	1061W255	Interlock Clutch Weldment, CR70	1
278	1060M106	Interlock Roller	9
279	1060I279	Interlock Roller Head	18
280	Z32601	Die Spring, 1/2" x 1-1/2" Red	9
281	Z71378G8	Hex Bolt, 3/8NF x 2-1/2 Grade 8	9
282	Z72232G8	Hex Lock Nut 3/8NF Grade 8	9
283	Z74122	Set Screw, 5/16NF	1

Rotor Assembly

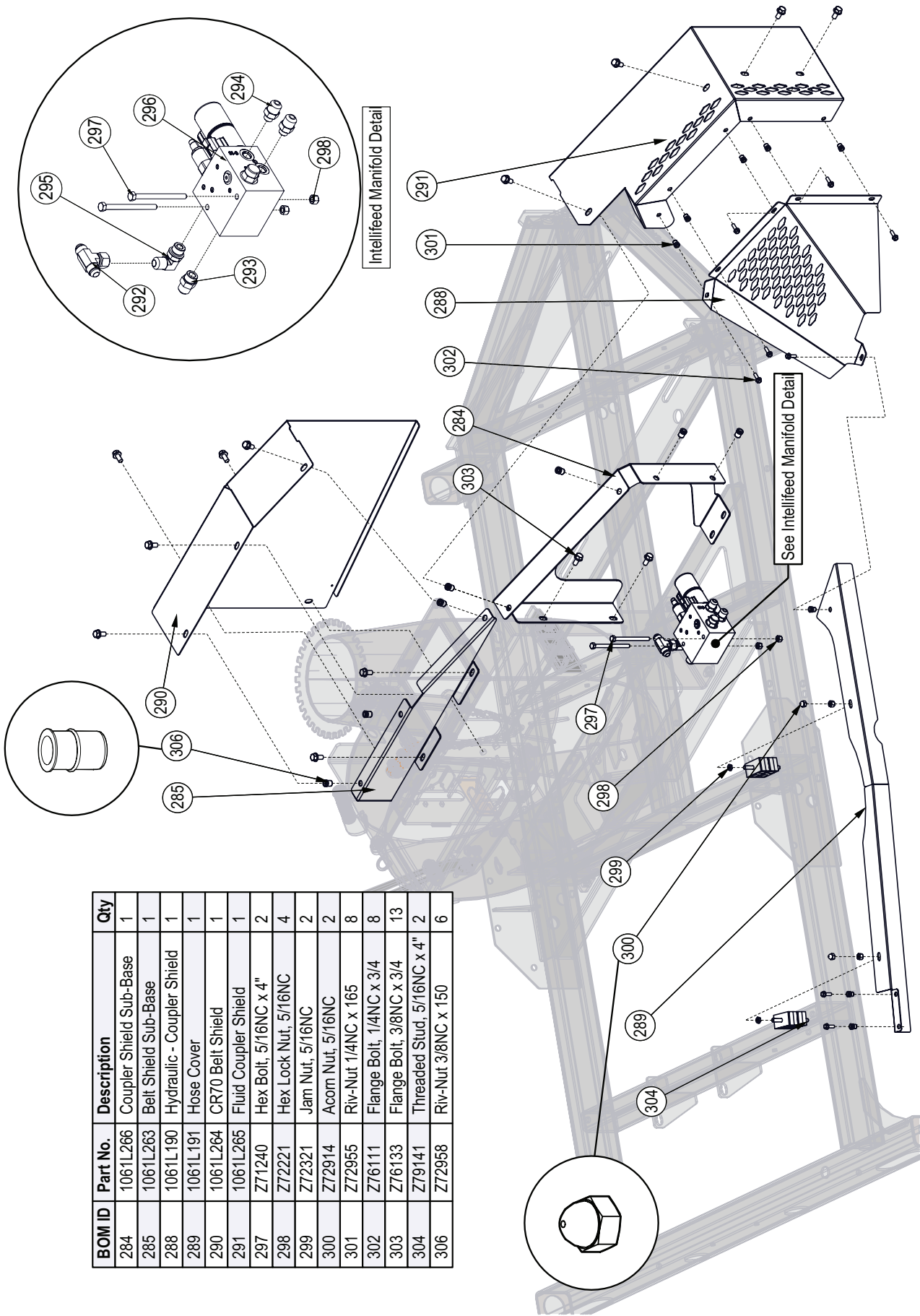


BOM ID	Description	Description	Qty
258	Z66210	IntelliFEED Pickup Sensor with 68" Lead	1
259	Z71220	Hex Bolt, 5/16NC x 2	3
260	Z71572G8	Hex Bolt, 1/2NF x 7/8 Gr8	8
261	Z72211	Hex Lock Nut, 1/4NC	1
262	Z72251G8	Hex Lock Nut, 1/2NC Grade 8	8
263	Z72357	Brass Jam Nut, 9/16-18NF	2
264	Z73122	Flat Washer, 5/16	3
265	Z74111	Set Screw, 1/4NC	1
266	Z74132	Set Screw, 3/8NF	4
267	Z76351	BHCS, 5/16NF x 3/4	1
268	Z762514G8	Carriage Bolt, 1/2NC x 2-1/4 Grade 8	8
269	Z78301	Machine Screw, 1/4-20NC x 3/4	1

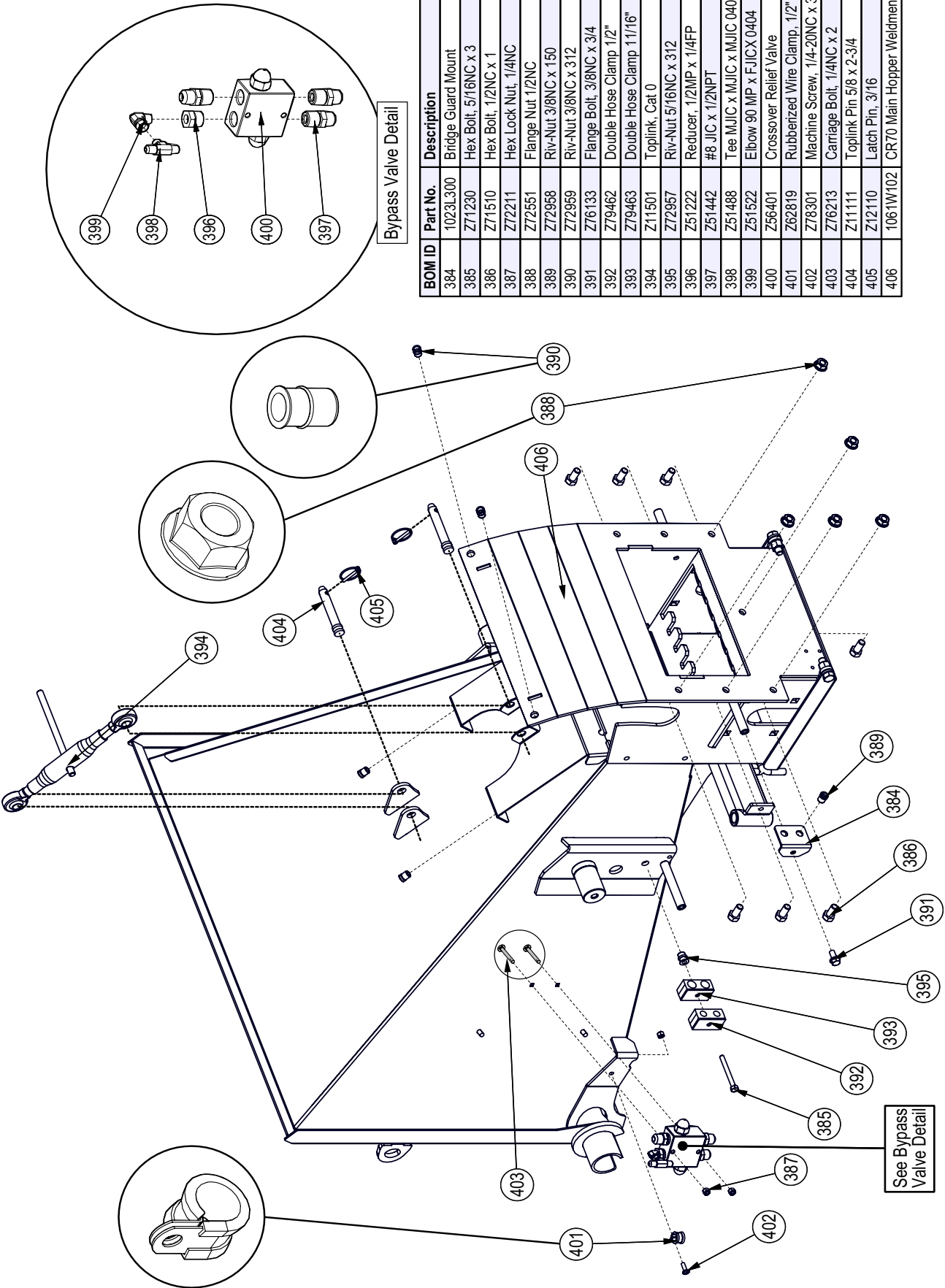
BOM ID	Description	Description	Qty
245	1061A115	Centrifugal Rotor Lock, CR70	1
246	1061W105	Rotor, CR70	1
247	1021S102	Rotation Indicator Cover	1
248	1053M303	Split Knife, BXT62 Rotor	4
249	1061L118	Spacer, Bearing Mount CR70	2
250	1061L119	Sensor Mounting Bracket, CR70	1
251	Z25211	Spherical Roller Flange Unit 2"	2
252	Z29201	Grease Fitting, 1/8NPT	2
253	Z41261	Double Banded "B" x 70"	1
254	Z41512	SK Bushing, 2 Bore	1
255	Z41702	Double "B" Sheave, 12.75" Pitch	1
256	Z46563	Key, 1/2 x 1/2 x 3	1
257	Z62819	Rubberized Wire Clamp, 1/2"	1

Pulley Shroud

BOM ID	Part No.	Description	Qty
284	1061L266	Coupler Shield Sub-Base	1
285	1061L263	Belt Shield Sub-Base	1
288	1061L190	Hydraulic - Coupler Shield	1
289	1061L191	Hose Cover	1
290	1061L264	CR70 Belt Shield	1
291	1061L265	Fluid Coupler Shield	1
297	Z71240	Hex Bolt, 5/16NC x 4"	2
298	Z72221	Hex Lock Nut, 5/16NC	4
299	Z72321	Jam Nut, 5/16NC	2
300	Z72914	Acorn Nut, 5/16NC	2
301	Z72955	Riv-Nut 1/4NC x 165	8
302	Z76111	Flange Bolt, 1/4NC x 3/4	8
303	Z76133	Flange Bolt, 3/8NC x 3/4	13
304	Z79141	Threaded Stud, 5/16NC x 4"	2
306	Z72958	Riv-Nut 3/8NC x 150	6

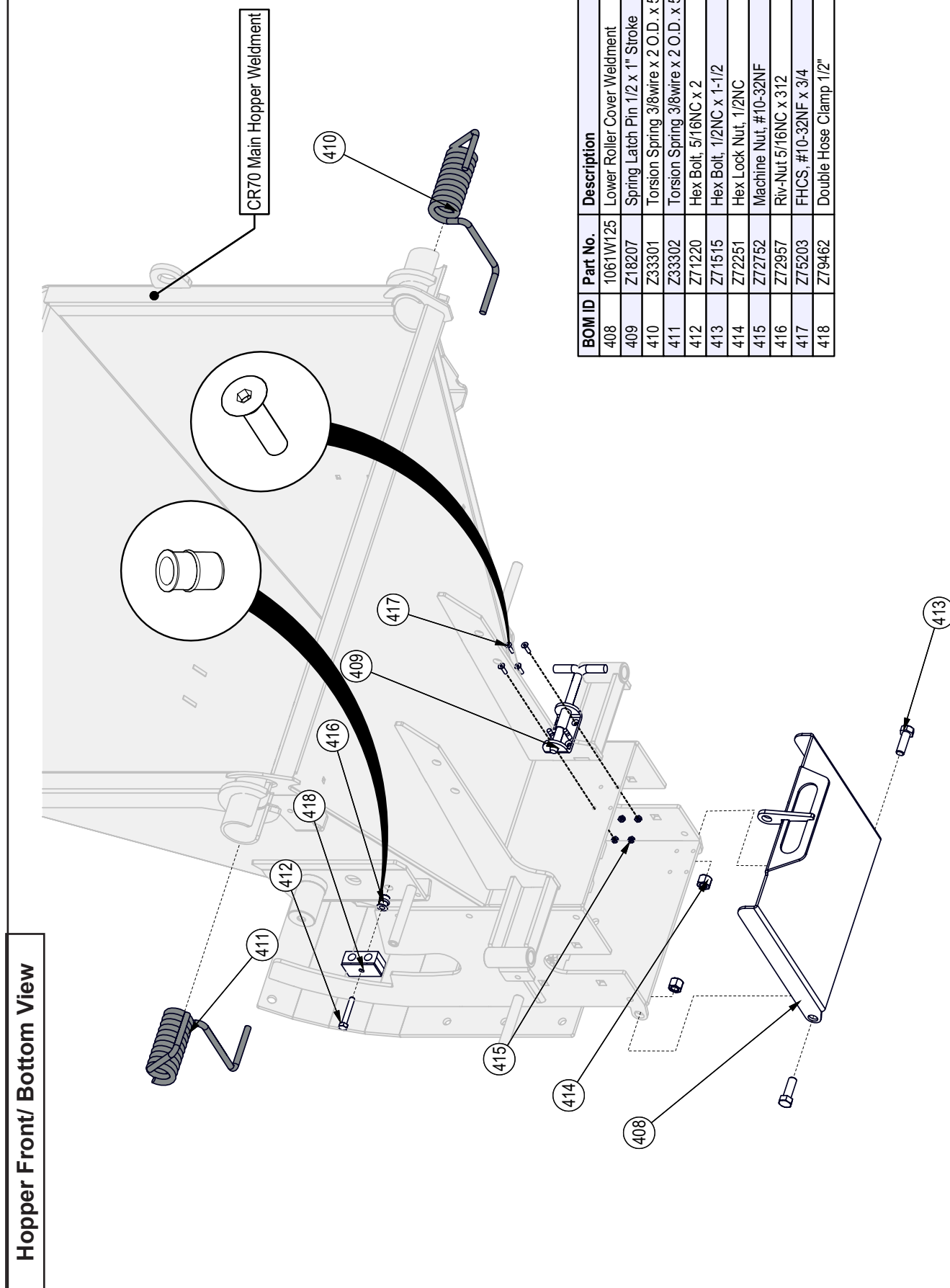


Hopper Top / Back View



BOM ID	Part No.	Description	Qty
384	1023L300	Bridge Guard Mount	1
385	Z71230	Hex Bolt, 5/16NC x 3	1
386	Z71510	Hex Bolt, 1/2NC x 1	7
387	Z72211	Hex Lock Nut, 1/4NC	3
388	Z72551	Flange Nut 1/2NC	5
389	Z72988	Riv-Nut 3/8NC x 150	3
390	Z72959	Riv-Nut 3/8NC x 312	2
391	Z76133	Flange Bolt, 3/8NC x 3/4	1
392	Z79462	Double Hose Clamp 1/2"	1
393	Z79463	Double Hose Clamp 1 1/16"	1
394	Z11501	Toplink, Cat 0	1
395	Z72957	Riv-Nut 5/16NC x 312	1
396	Z51222	Reducer, 1/2MP x 1/4FP	1
397	Z51442	#8 JIC x 1/2NPT	2
398	Z51488	Tee MJIC x MJIC x MJIC 040404	1
399	Z51522	Elbow 90 MP x FJICX 0404	1
400	Z56401	Crossover Relief Valve	1
401	Z62819	Rubberized Wire Clamp, 1/2"	1
402	Z78301	Machine Screw, 1/4-20NC x 3/4	1
403	Z76213	Carriage Bolt, 1/4NC x 2	2
404	Z11111	Toplink Pin 5/8 x 2-3/4	2
405	Z12110	Latch Pin, 3/16	2
406	1061W102	CR70 Main Hopper Weldment	1

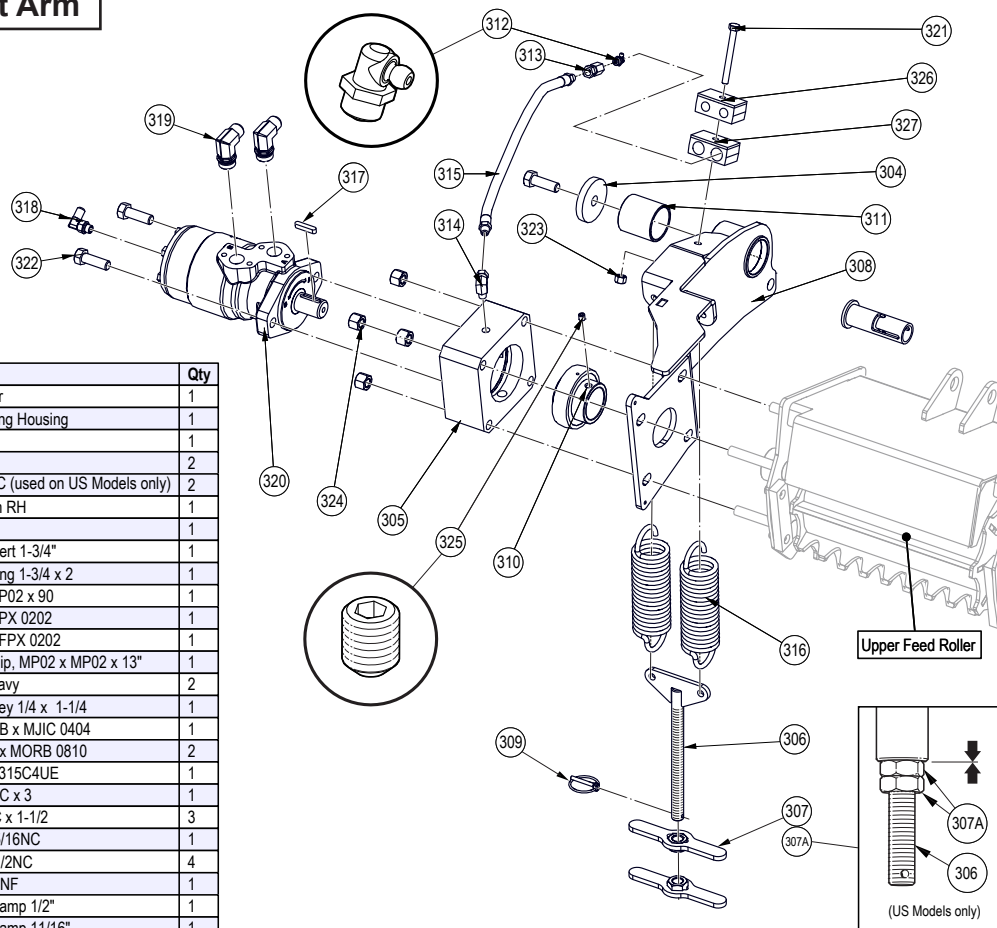
BOM ID	Part No.	Description	Qty
408	1061W125	Lower Roller Cover Weldment	1
409	Z18207	Spring Latch Pin 1/2 x 1" Stroke	1
410	Z33301	Torsion Spring 3/8wire x 2 O.D. x 5" RH	1
411	Z33302	Torsion Spring 3/8wire x 2 O.D. x 5" LH	1
412	Z71220	Hex Bolt, 5/16NC x 2	1
413	Z71515	Hex Bolt, 1/2NC x 1-1/2	2
414	Z72251	Hex Lock Nut, 1/2NC	2
415	Z72752	Machine Nut, #10-32NF	4
416	Z72957	Riv-Nut 5/16NC x 312	1
417	Z75203	FHCS, #10-32NF x 3/4	4
418	Z79462	Double Hose Clamp 1/2"	1



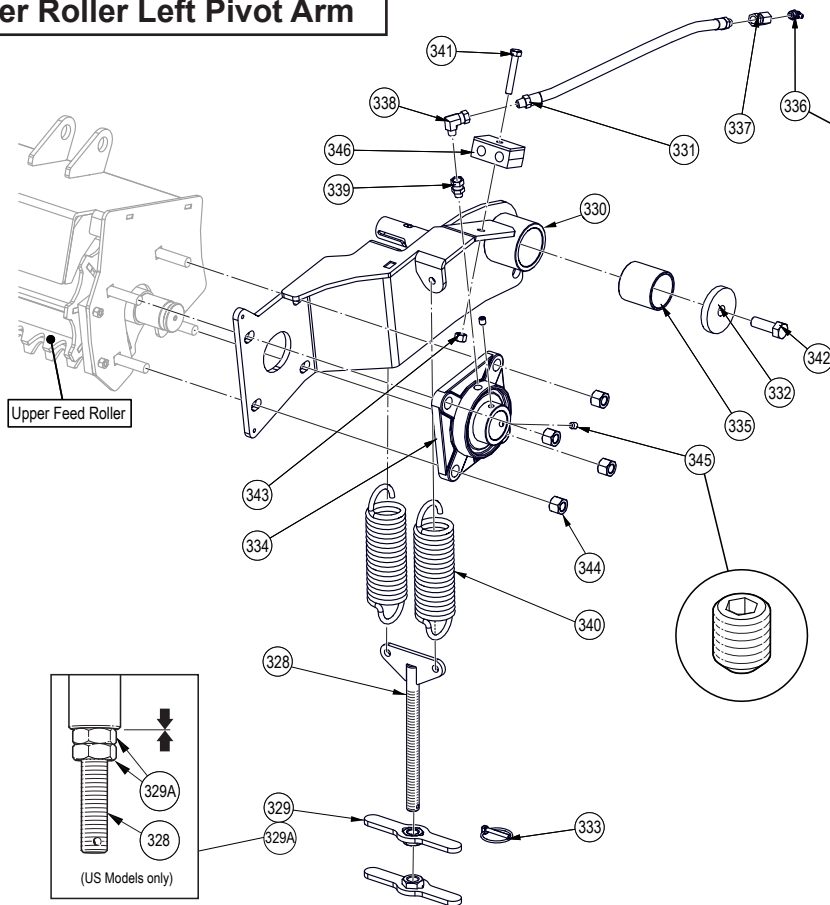
Upper Roller Right Pivot Arm

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

Item	Part No.	Description	Qty
304	1015L618	Capture Washer	1
305	1022M218	UC Motor Bearing Housing	1
306	1022W206	Spring Yoke	1
307	1022W220	Nut Handle	2
307A	Z72361	Jam Nut 5/8" NC (used on US Models only)	2
308	1061W103H	Roller Pivot Arm RH	1
309	Z12110	Latch Pin, 3/16	1
310	Z21903	Ball Bearing Insert 1-3/4"	1
311	Z27101	Fiberglide Bearing 1-3/4 x 2	1
312	Z29207	Grease Zerk, MP02 x 90	1
313	Z29302	Straight, FP x FXP 0202	1
314	Z29307	Elbow 90 MP x FXP 0202	1
315	Z29312	1/4" Grease Whip, MP02 x MP02 x 13"	1
316	Z31501	Spring 2 x 7 Heavy	2
317	Z46594	Blind Chipper Key 1/4 x 1-1/4	1
318	Z51657	Elbow 90, MORB x MJIC 0404	1
319	Z51658	Elbow 90 MJIC x MORB 0810	2
320	Z54201	Geroller Motor, 315C4UE	1
321	Z71230	Hex Bolt, 5/16NC x 3	1
322	Z71515	Hex Bolt, 1/2NC x 1-1/2	3
323	Z72221	Hex Lock Nut, 5/16NC	1
324	Z72251	Hex Lock Nut, 1/2NC	4
325	Z74122	Set Screw, 5/16NF	1
326	Z79462	Double Hose Clamp 1/2"	1
327	Z79463	Double Hose Clamp 11/16"	1

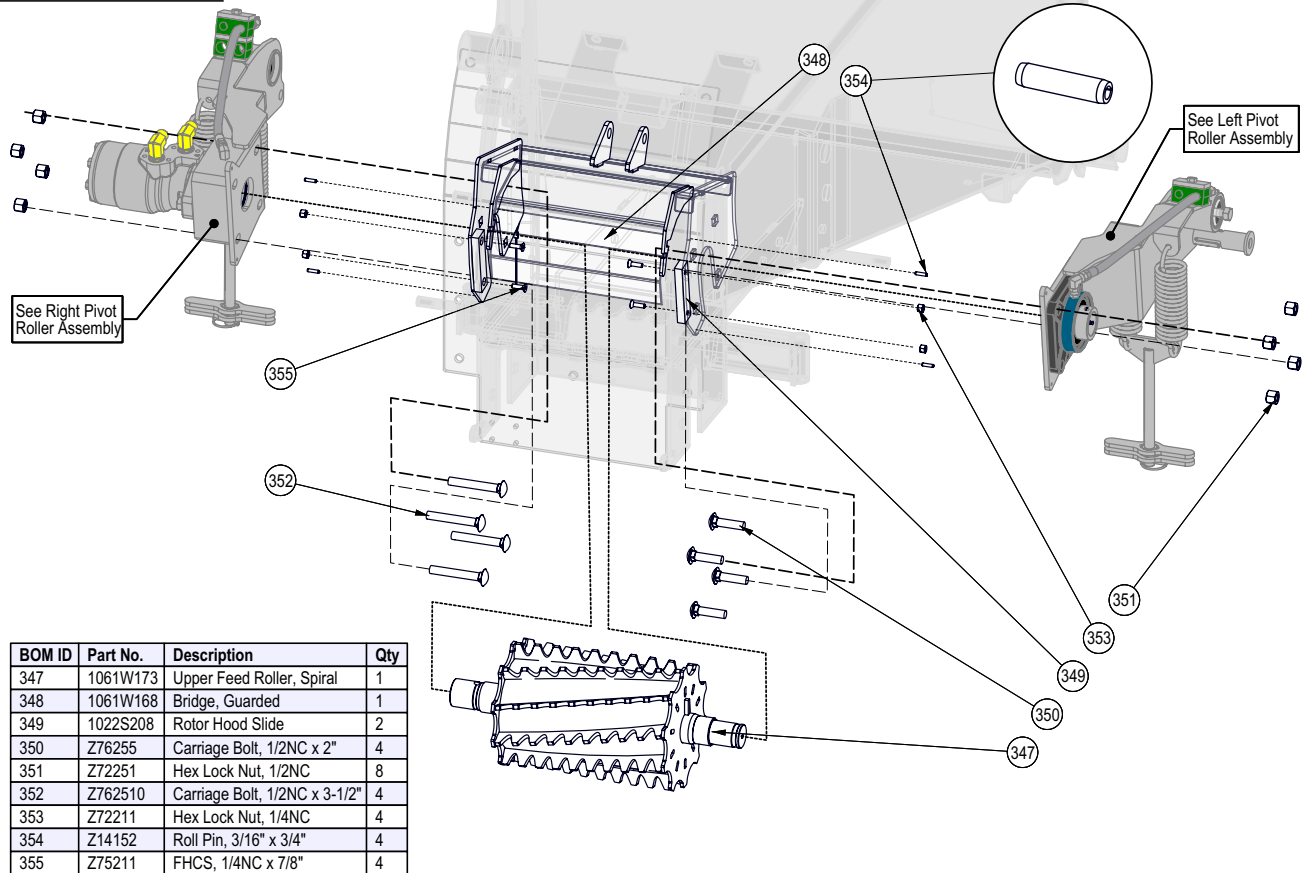


Upper Roller Left Pivot Arm

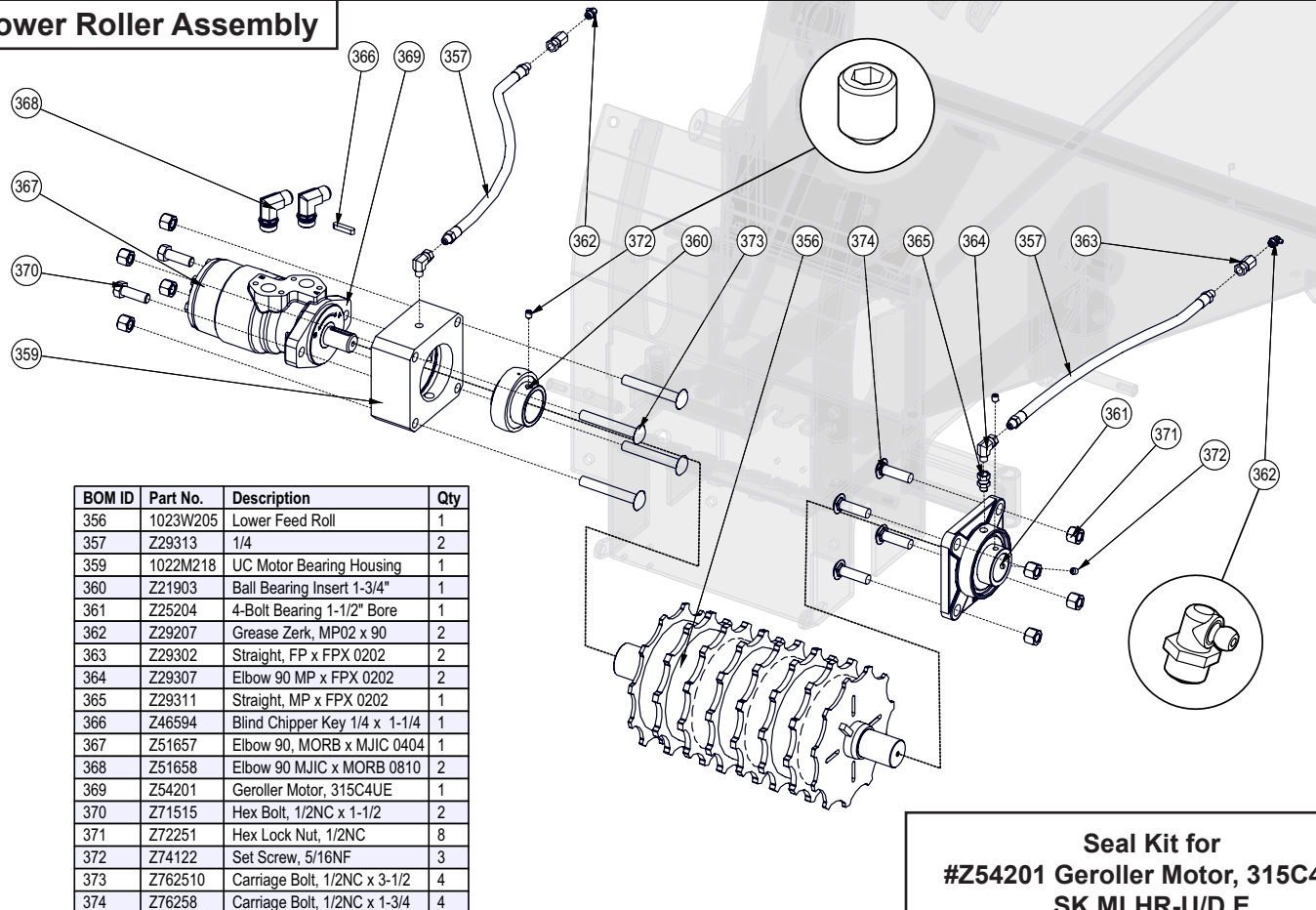


Item	Part No.	Description	Qty
328	1022W206	Spring Yoke	1
329	1022W220	Nut Handle	2
329A	Z72361	Jam Nut 5/8" NC (US Models only)	2
330	1061W103	Roller Pivot Arm LH	1
331	Z29312	1/4" Grease Whip, MP02 x MP02 x 13"	1
332	1015L618	Capture Washer	1
333	Z12110	Latch Pin, 3/16	1
334	Z25204	4-Bolt Bearing 1-1/2" Bore	1
335	Z27101	Fiberglide Bearing 1-3/4 x 2	1
336	Z29207	Grease Zerk, MP02 x 90	1
337	Z29302	Straight, FP x FXP 0202	1
338	Z29307	Elbow 90 MP x FXP 0202	1
339	Z29311	Straight, MP x FXP 0202	1
340	Z31501	Spring 2 x 7 Heavy	2
341	Z71220	Hex Bolt, 5/16NC x 2	1
342	Z71515	Hex Bolt, 1/2NC x 1-1/2	1
343	Z72221	Hex Lock Nut, 5/16NC	1
344	Z72251	Hex Lock Nut, 1/2NC	4
345	Z74122	Set Screw, 5/16NF	2
346	Z79462	Double Hose Clamp 1/2"	1

Upper Roller Assembly

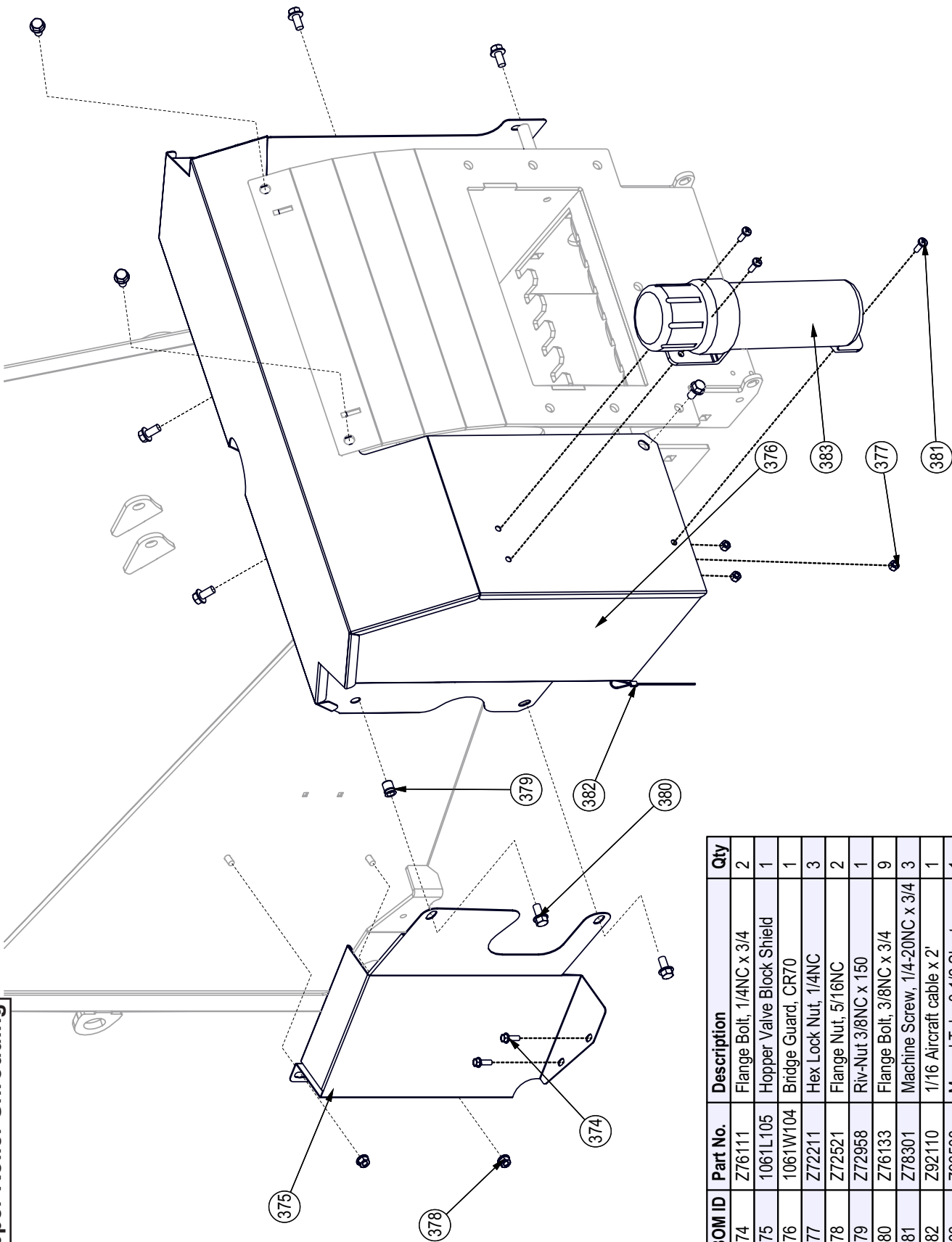


Lower Roller Assembly



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

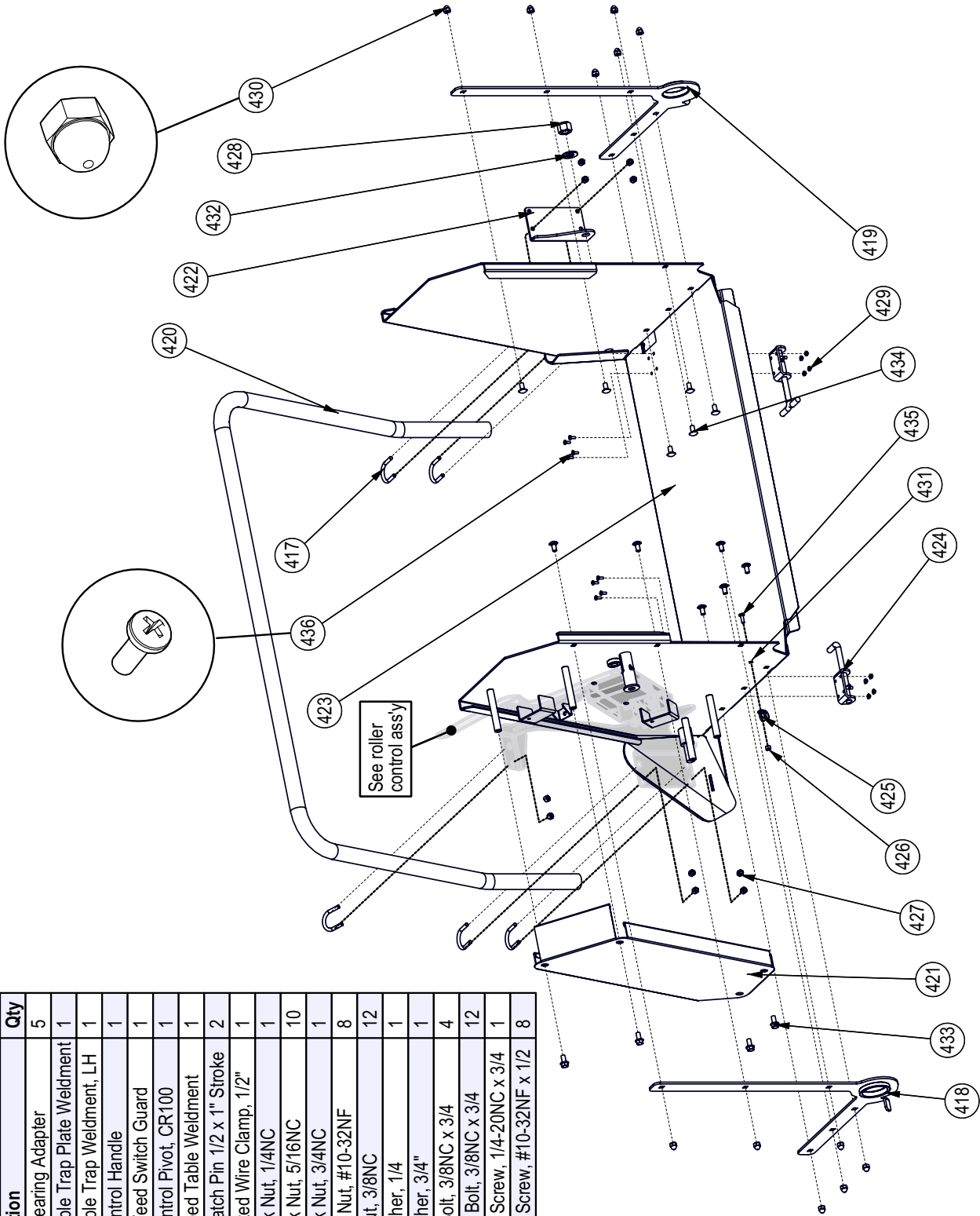
Hopper Roller Shrouding



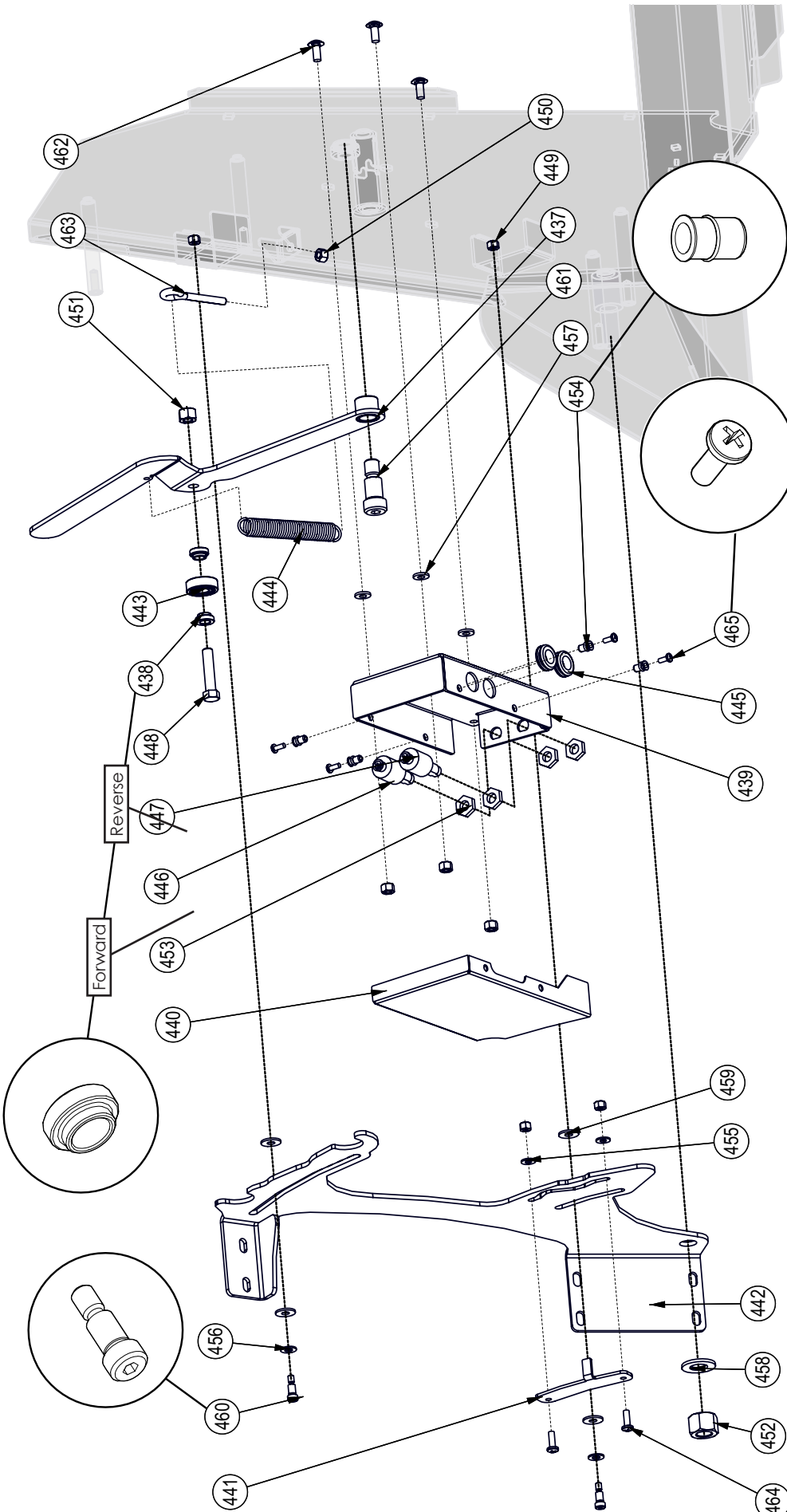
BOM ID	Part No.	Description	Qty
374	Z76111	Flange Bolt, 1/4NC x 3/4	2
375	1061L105	Hopper Valve Block Shield	1
376	1061W104	Bridge Guard, CR70	1
377	Z72211	Hex Lock Nut, 1/4NC	3
378	Z72521	Flange Nut, 5/16NC	2
379	Z72958	Riv-Nut 3/8NC x 150	1
380	Z76133	Flange Bolt, 3/8NC x 3/4	9
381	Z78301	Machine Screw, 1/4-20NC x 3/4	3
382	Z92110	1/16 Aircraft cable x 2'	1
383	Z96503	Manual Tube 3-1/2 Short	1

Feed Table

BOM ID	Part No.	Description	Qty
417	1015S538	U-bolt, Bearing Adapter	5
418	1022W230	Feed Table Trap Plate Weldment	1
419	1022W230H	Feed Table Trap Weldment, LH	1
420	1023S203	Feed Control Handle	1
421	1060L302	CR100 Feed Switch Guard	1
422	1060L306	Feed Control Pivot, CR100	1
423	1061W101	CR70 Feed Table Weldment	1
424	Z18207	Spring Latch Pin 1/2 x 1" Stroke	2
425	Z62819	Rubberized Wire Clamp, 1/2"	1
426	Z72211	Hex Lock Nut, 1/4NC	1
427	Z72221	Hex Lock Nut, 5/16NC	10
428	Z72271	Hex Lock Nut, 3/4NC	1
429	Z72752	Machine Nut, #10-32NF	8
430	Z72911	Acorn Nut, 3/8NC	12
431	Z73111	Flat Washer, 1/4	1
432	Z73171	Flat Washer, 3/4"	1
433	Z76133	Flange Bolt, 3/8NC x 3/4	4
434	Z76233	Carriage Bolt, 3/8NC x 3/4	12
435	Z78301	Machine Screw, 1/4-20NC x 3/4	1
436	Z78303	Machine Screw, #10-32NF x 1/2	8



Feed Roller Control Detail

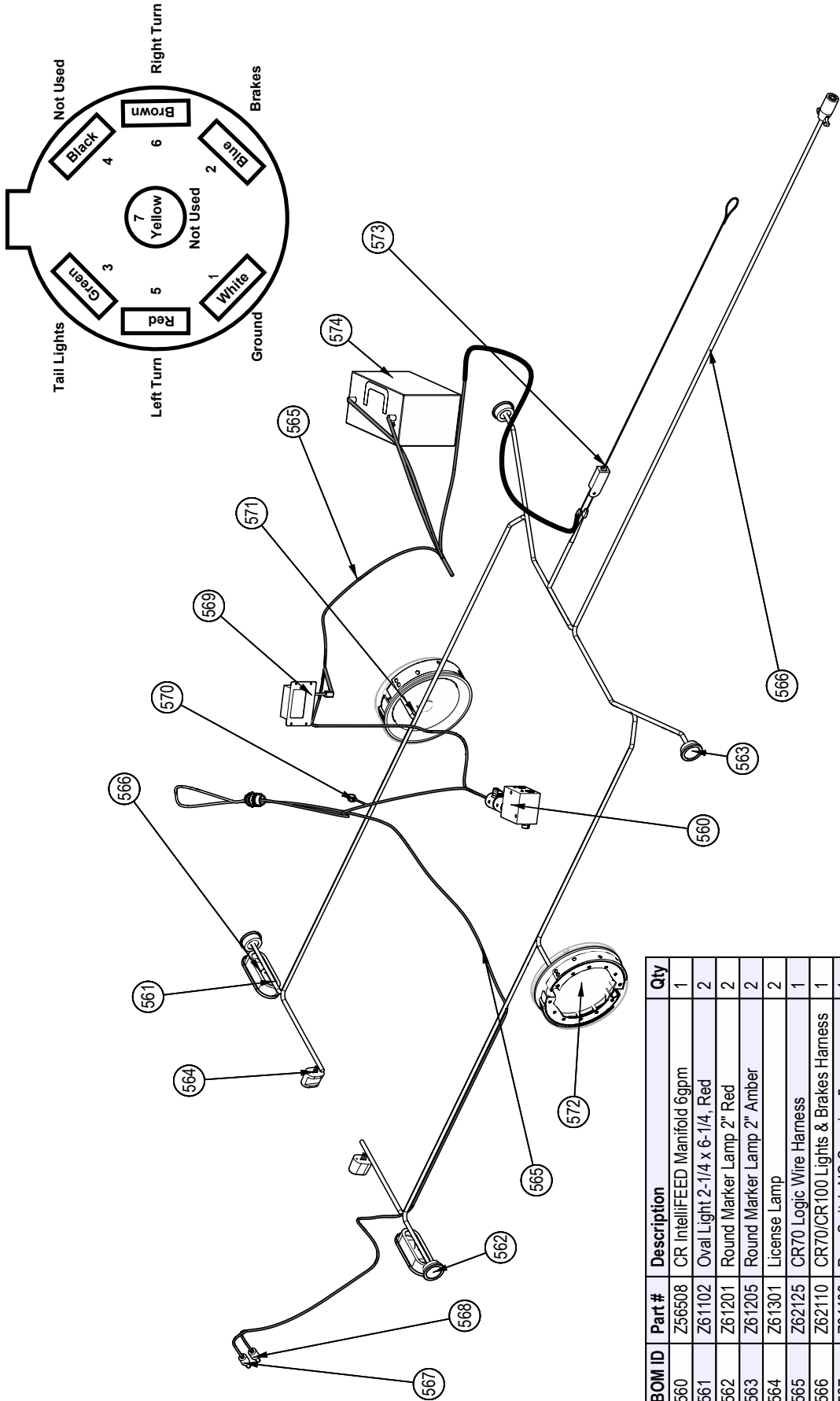


BOM ID	Part No.	Description	Qty
457	Z73123	Rubber Flat Washer, 5/16 x 0.093"	3
458	Z73171	Flat Washer, 3/4"	1
459	Z73222	PTFE Flat Washer, 5/16 x 0.080"	4
460	Z75522	Shoulder Bolt, 5/16 x 1/2"	2
461	Z75574	Shoulder Bolt, 3/4 x 1	1
462	Z76221	Carriage Bolt, 5/16NC x 3/4	3
463	Z76522	Eye Bolt 5/16NC x 2	1
464	Z78301	Machine Screw, 1/4-20NC x 3/4	2
465	Z78303	Machine Screw, #10-32NF x 1/2	4

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

BOM ID	Part No.	Description	Qty
437	1060W302	Detent Reset Weldment, CR100	1
438	1015M537	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	Z21203	Ball Bearing 6202 2RS	1
444	Z31401	Spring 3/4 x 4" Heavy	1
445	Z62823	Rubber Grommet 3/4 x 1/8	2
446	Z64403	Prox Switch NO Sourcing 5amp	1

Intellifeed Wiring Harness & Lights and Brakes Wiring Harness

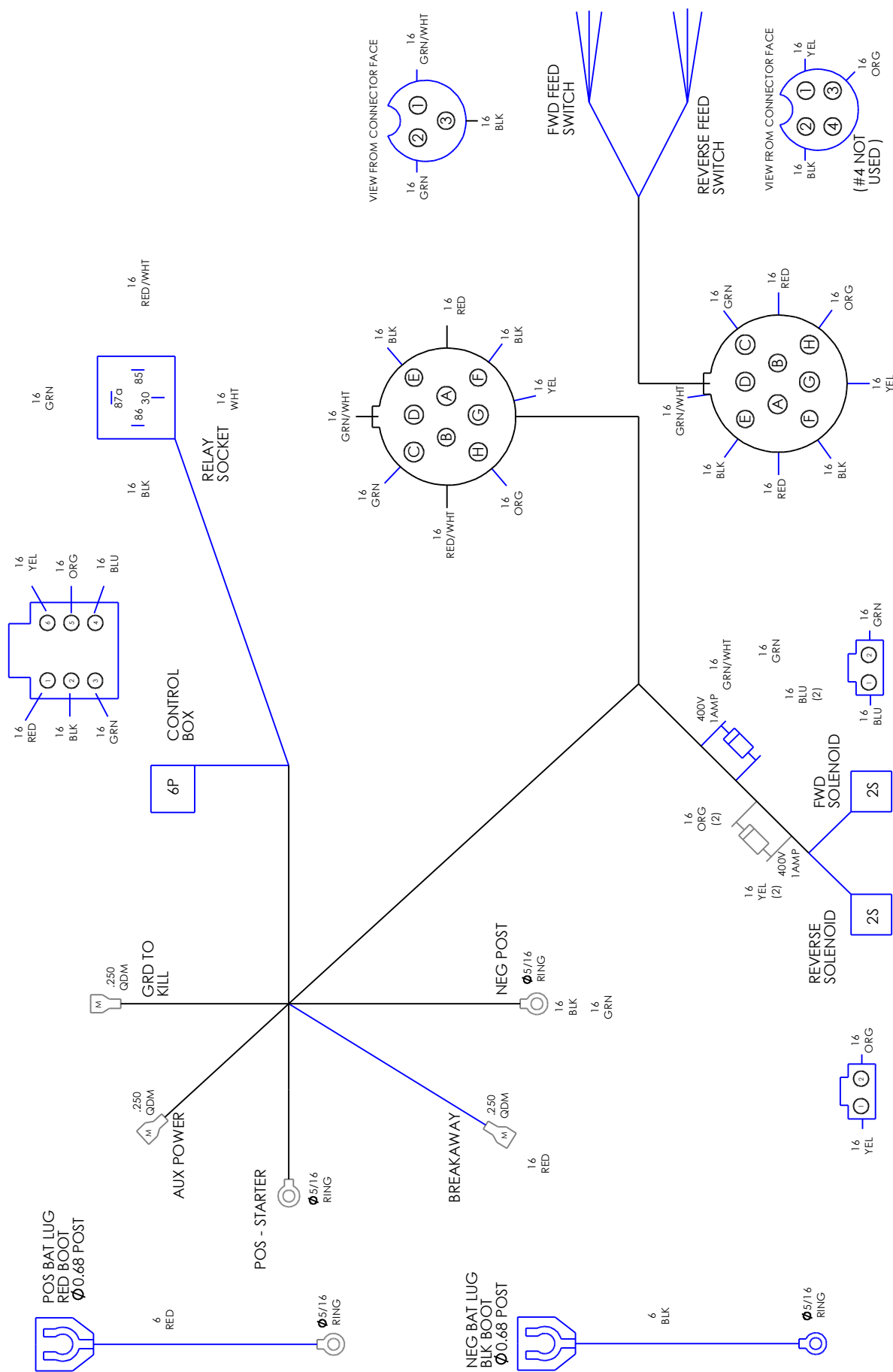


Light Bulb Replacement		
Part #	Description	replacement
Z61201	Round Marker Lamp 2" Red	replace unit
Z61205	Round Marker Lamp 2" Amber	replace unit
Z61102	Oval Light 2 1/4 x 6 1/4, Red	replace unit
Z61301	License Lamp	replacement bulb #67

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	Z62125	CR70 Logic Wire Harness	1
566	Z62110	CR70/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	Z91708	Electric Brake, 2 1/4 x10 LH	1
572	Z91719	Electric Brake, 2 1/4 x10 RH	1
573	Z91713	Breakaway Safety Switch	1
574	Z93205	Car Battery	1

Intellifeed Wiring Diagram #Z62125

NOTE: HARNESS IS BRAIDED

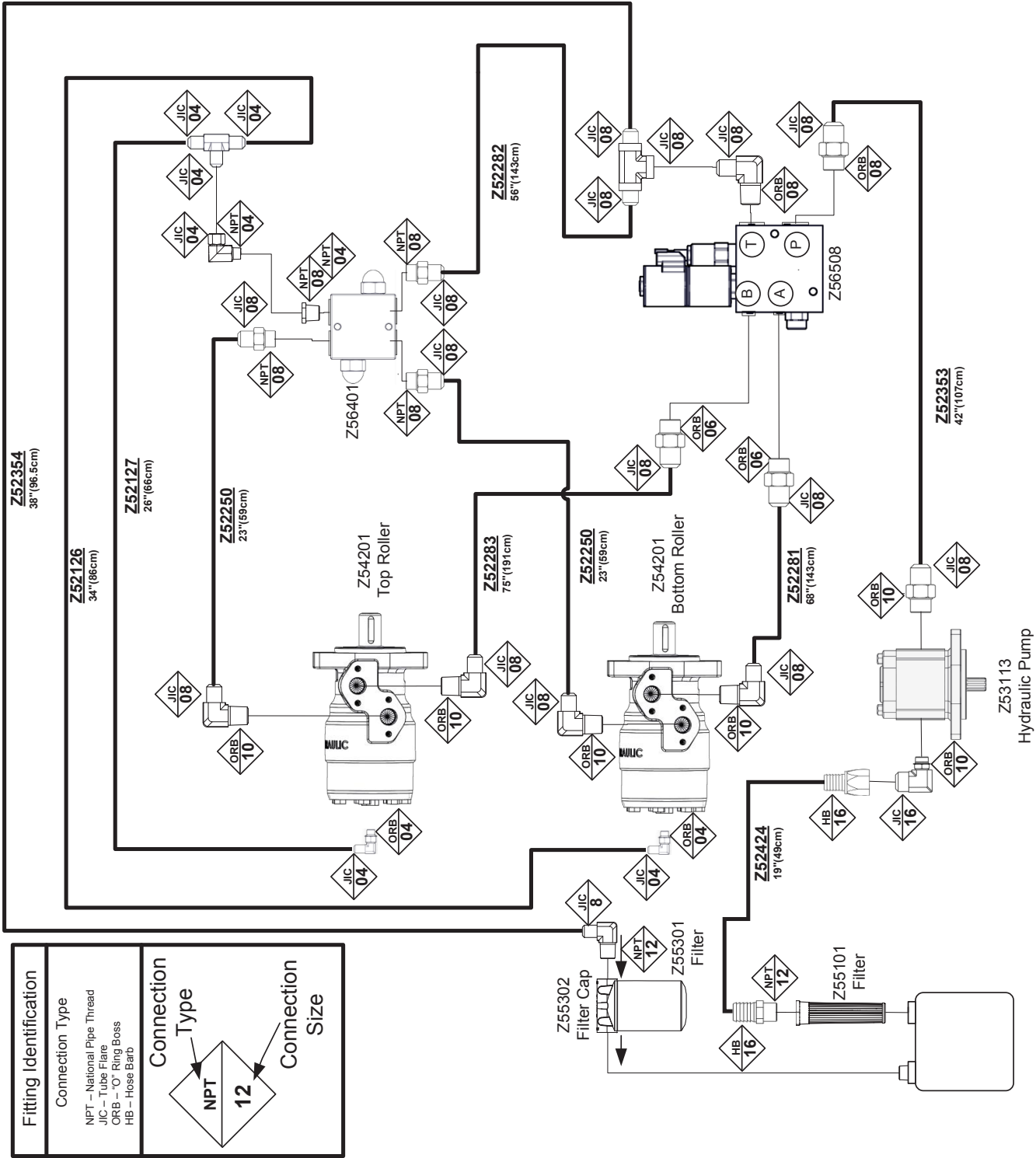


Hydraulic Hose Parts List

The Chart below is a complete list of hydraulic hoses for the CR70. For information on your model and its hose connections please review the hydraulic schematics on the following pages.

Part Number	Description	Qty
Z52126	1/4" Hose, FJIC04 x 90FJIC04 x 34"	1
Z52127	1/4" Hose, FJIC04 x 90FJIC04 x 26"	1
Z52250	3/8" Hose, FJIC08 x 90FJIC08 x 23"	2
Z52281	3/8" Hose, FJIC08 x 90FJIC08 x 68"	1
Z52282	3/8" Hose, FJIC08 x 90FJIC08 x 56"	1
Z52283	3/8" Hose, FJIC08 x 90FJIC08 x 75"	1
Z52353	1/2" Hose, 90FJIC08 x 90FJIC08 x 42"	1
Z52354	1/2" Hose, FJIC08 x FJIC08 x 38"	1
Z52424	Suction Hose, 1" x 19"	1

Hydraulic Plumbing Diagram



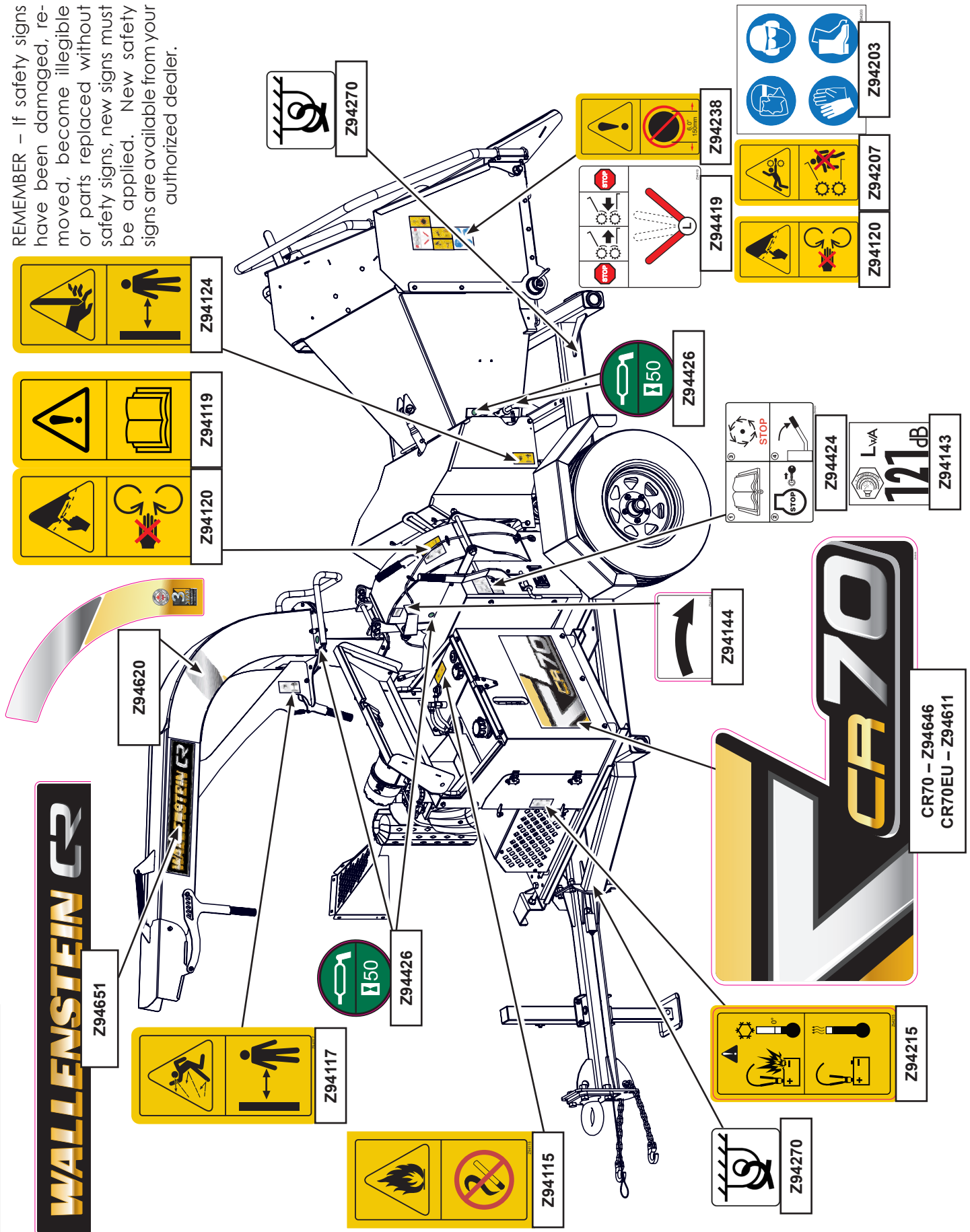
Fitting Identification
NPT – National Pipe Thread JIC – Tube Flare ORB – “O” Ring Boss HB – Hose Barb
Connection Type
NPT
Connection Size
12

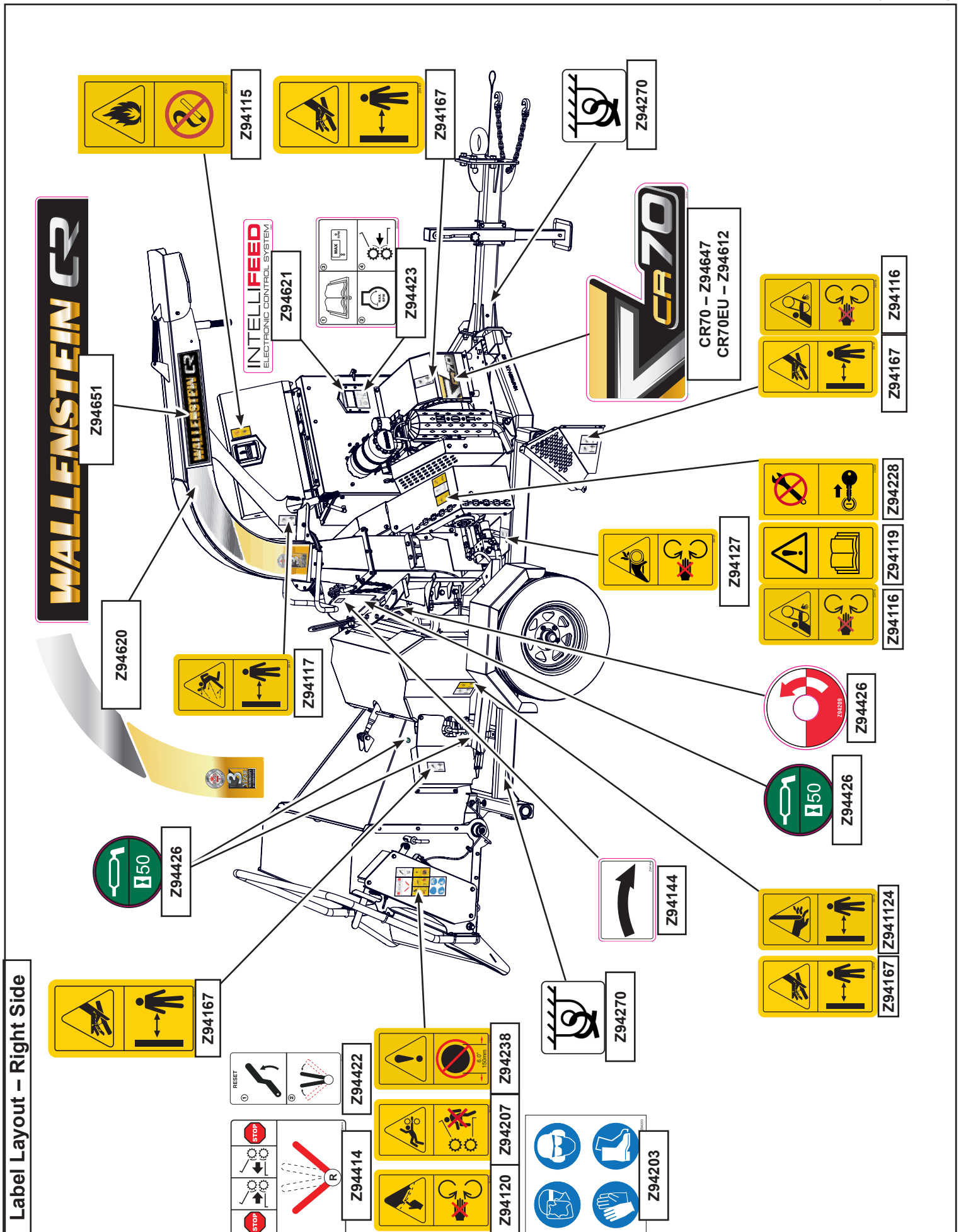
CR70: Label Part Number & Designation List

Prt No.	Description	CR70	CR70EU	CR70D	CR70DEU	CR70TD	CR70TDEU
Z94646	CR70 Model # Decal (Toolbox)	1					
Z94647	CR70 Model # Decal (Engine)	1					
Z946215	CR70 Feed Table Decal	1					
Z946111	CR70eu Model # Decal (Toolbox)		1				
Z946112	CR70eu Model # Decal (Engine)		1				
Z946201	CR70eu Feed Table Decal		1				
Z946210	CR70d Model # Decal (Toolbox)			1			
Z946209	CR70d Model # Decal (Engine)			1			
Z946211	CR70d Feed Table Decal			1			
Z946221	CR70deu Model # Decal (Toolbox)				1		
Z946220	CR70deu Model # Decal (Engine)				1		
Z946222	CR70deu Feed Table Decal				1		
Z946207	CR70td Model # Decal (Engine)					1	
Z946206	CR70td Model # Decal (Toolbox)					1	
Z946208	CR70td Feed Table Decal					1	
Z946212	CR70tdeu Model # Decal (Toolbox)						1
Z946213	CR70tdeu Model # Decal (Engine)						1
Z946214	CR70tdeu Feed Table Decal						1
Z94115	Fire Hazard - No Smoking	2	2	2	2	2	2
Z94116	Driveline - Arm Entanglement Hazard - Keep Hands Away	1	1	1	1	1	1
Z94117	Flying Object Hazard - Keep Back	4	4	4	4	4	4
Z94119	Hazard - Read Manual	2	2	2	2	2	2
Z94120	Rotating Cutter Hazard - Keep Hands Away	6	6	6	6	6	6
Z94124	Decal-Warning Hands	2	2	2	2	2	2
Z94127	Ce Warning Rotating Part	2	2	2	2	2	2
Z94127	Driveline - Hand Entanglement Hazard - Keep Hands Away	1	1	1	1	1	1
Z94143	Noise - 121db Noise	1	1	1	1	1	1
Z94144	Rh Rotation Decal	1	1	1	1	1	1
Z94145	Lh Rotation Decal	1	1	1	1	1	1
Z94167	Hydraulic Rupture Hazard - Keep Back	4	4	4	4	4	4
Z94207	Entanglement Hazard - Do Not Climb In Hopper	4	4	4	4	4	4
Z94209	Counter Clockwise Rotation - Round	1	1	1	1	1	1
Z94215	Frozen Battery Hazard	1	1	1	1	1	1
Z94228	Remove Ignition Key Caution	1	1	1	1	1	1
Z94235	150mm (6.0) Max Material Caution Decal	2	2	2	2	2	2
Z94247	CR Latch Label	1	1	1	1	1	1
Z94414	Roller Feed Chipper - Feed Control Rh	1	1	1	1	1	1
Z94416	CR100 Start Stop			1	1	1	1
Z94419	Roller Feed Chipper - Feed Control Lh	1	1	1	1	1	1
Z94422	Feed Control Lock	1	1	1	1	1	1
Z94423	CR70 Intell.Max.Rpm Instructions	1	1	1	1	1	1
Z94424	CR70 Rotor Lock	1	1	1	1	1	1
Z94426	Grease 50hrs Label	7	7	7	7	7	7
Z94435	Ulsd Label			1	1	1	1
Z94436	Antifreeze Label			1	1	1	1
Z94621	Protection Equipment	2	2	2	2	2	2
Z94621	Intellifeed	1	1	1	1	1	1
Z946217	Right Side Discharge Chute	1	1	1	1	1	1
Z946218	Left Side Discharge Chute	1	1	1	1	1	1
Z94651	CR70 L&R Chute Mid.Wallenstein	2	2	2	2	2	2

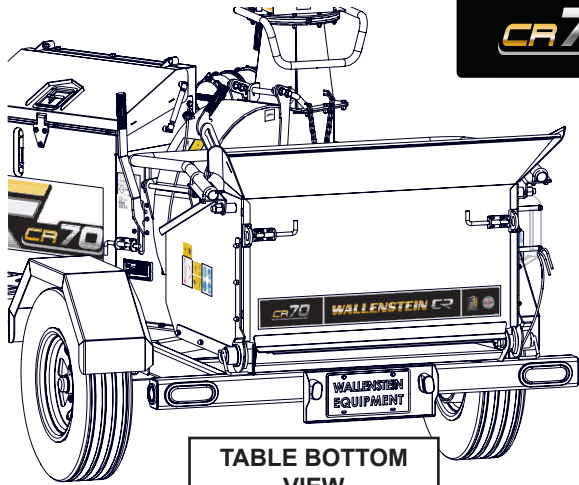
REMEMBER – If safety signs have been damaged, removed, become illegible or parts replaced without safety signs, new signs must be applied. New safety signs are available from your authorized dealer.

Label Layout – Left Side





Label Layout



CR70

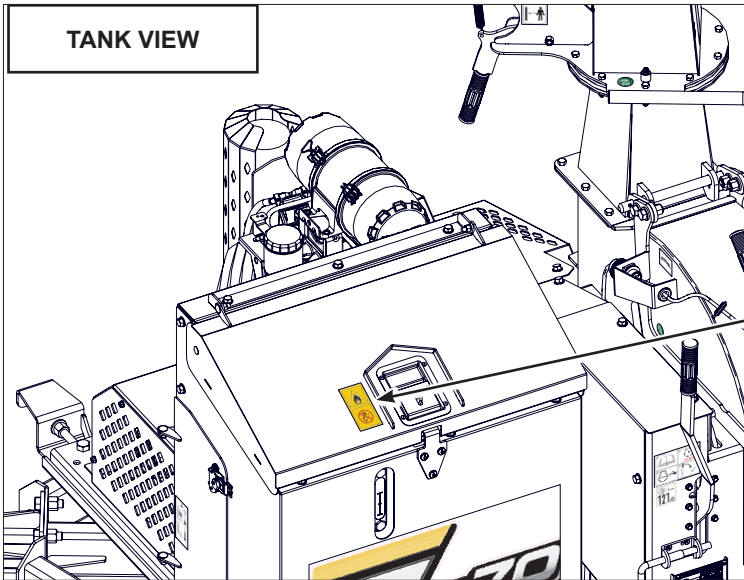
WALLENSTEIN CR



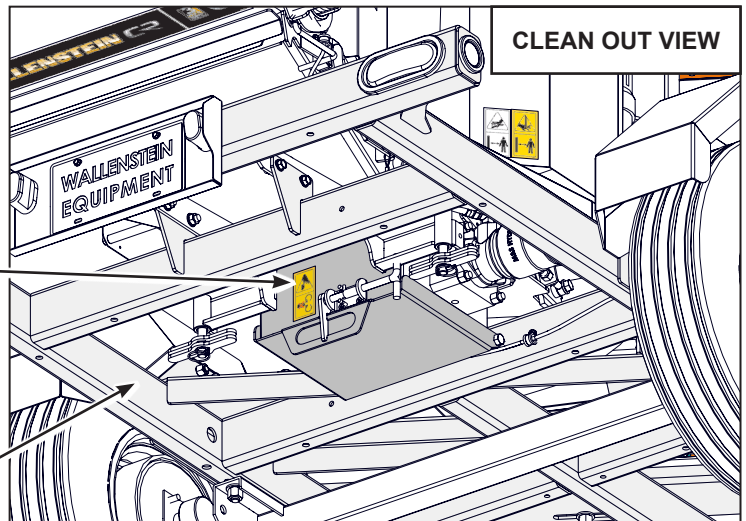
CR70 – Z946215
CR70EU – Z946201

TABLE BOTTOM
VIEW

TANK VIEW



CLEAN OUT VIEW



CLEAN OUT VIEW

Accessories**#Z97071 CR70
COMMERCIAL TRAILER WOOD CHIPPER
OPERATOR'S MANUAL**

Available as a download at
www.wallensteincr.com