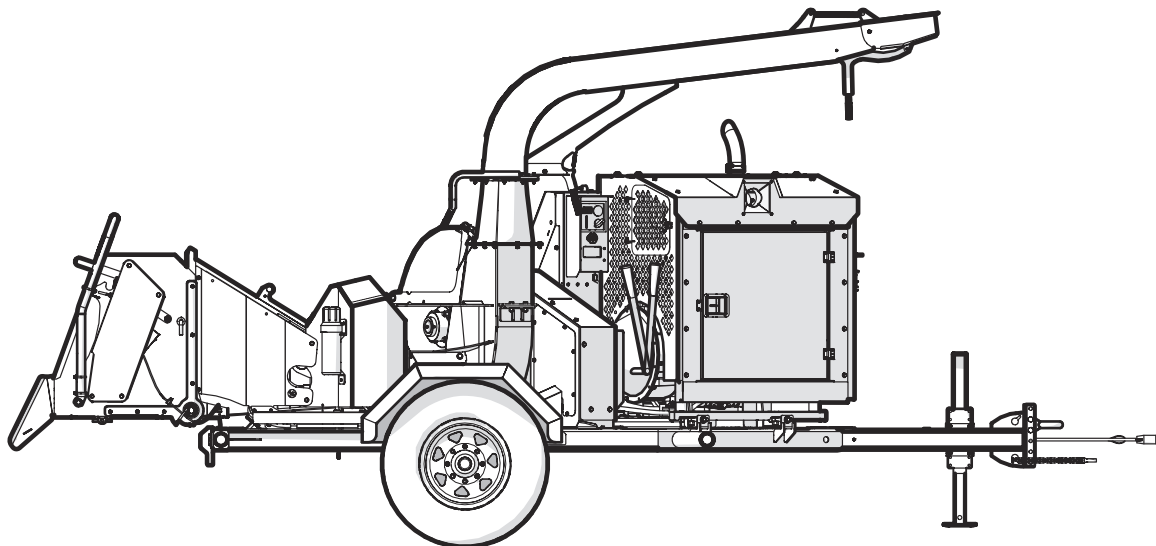


PARTS MANUAL

Serial Number 2E9US1110FS010030 & up

CR100, CR100H, CR100HW TRAILER WOOD CHIPPER



Foreword

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

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

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

If your dealer is no longer available, please go to our website: <http://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. Wallenstein reserves the right to change product specifications at any time without notice.

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

Reproduction of information in this parts manual is prohibited without prior written permission from Wallenstein Equipment Inc.

Wallenstein Equipment Inc. • © 2018

WARNING!

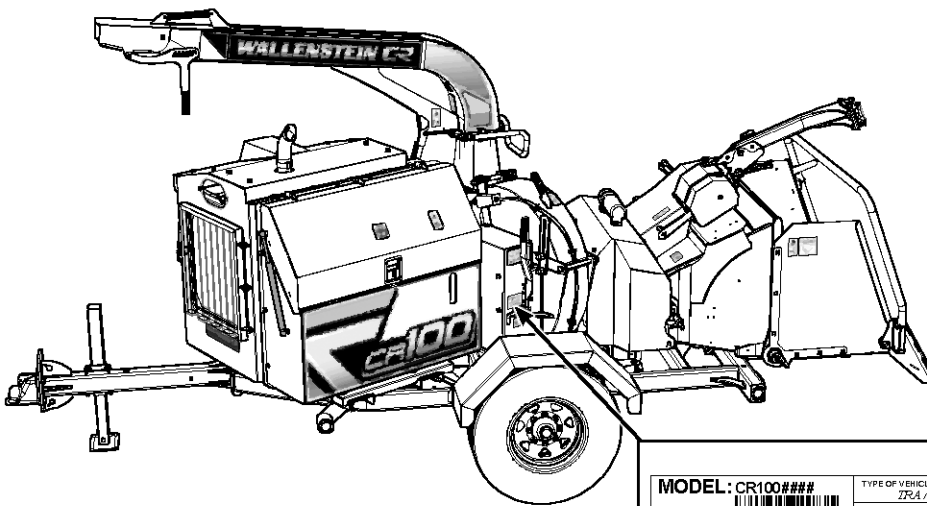
Refer to the operators manual for safe operation and maintenance.




Maintenance should be performed by trained personnel only.

Serial Number Location

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

Record product information for future reference.



MODEL: CR100###		TYPE OF VEHICLE/TYPE DE VEHICULE: <i>TRA / RM</i>	
		GA/R/P/NBE (KO): ###	GV/R/P/NEM (KO): ###
DIMENSION: R/MIGANTE: ###		TIRE/PNEU: ###	
COLD INFL. PRESS. (PSI) / PRESS. CH. CONFLA. A FROID (PSI) / PC: ###		THIS VEHICLE CONFORMS TO ALL APPLICABLE STANDARDS PRESS. AIRS. SMO EN THE CONFORMA TO THE BATTERY REGULATIONS IN USE BY THE MANUFACTURER OF THE BATTERY. CO. NO. PARA TO STER. LBS. NO. PARA TO STER. APPLICABLE IN VENTA DE EQUIPAMIENTO LA SIGUIENTE SERVICIOS AUTO-MOBILES DE CARADA. EN VIDEUR A LA DATED ESA FABRICATION	
		VIN/ NLV: #####	
			

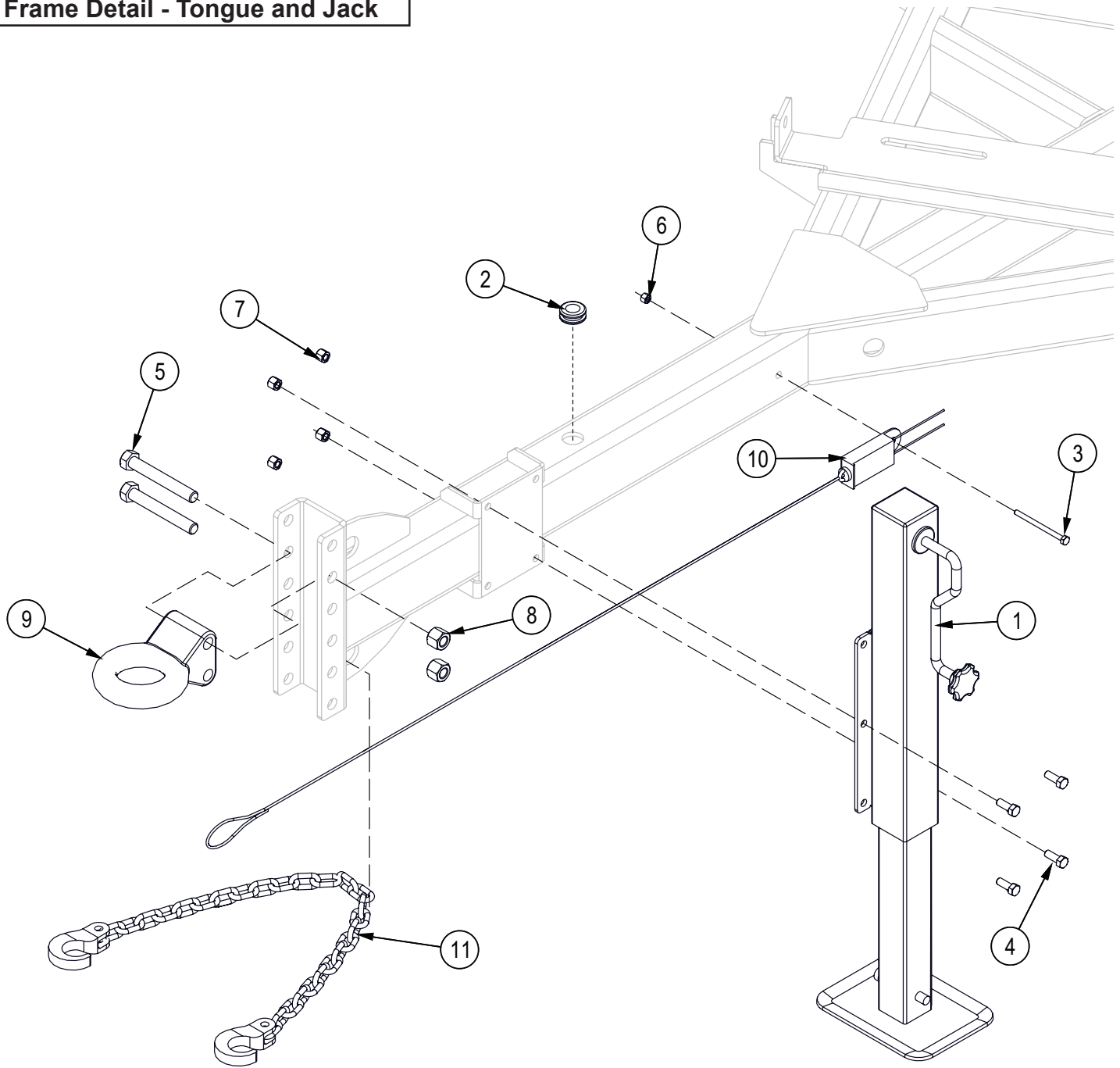
www.wallensteinequipment.com

Contents

Frame Detail - Tongue and Jack	5
Frame Detail - Front	6
Frame Detail - Rear	7
Frame and Fender Assembly	8
Hub Assembly Detail	9
Brake Assembly	9
Engine Carriage	10
Engine	11
Engine Parts	11
Engine Compartment Shroud	12
Engine Compartment Door	13
Radiator Shroud and Screen Door	14
Tank Compartment Shroud	15
Tank Compartment Tool Tray Detail	16
Control Panel.....	16
Battery, Fuel and Hydraulic Tanks.....	17
Tank Compartment Lid	18
Discharge Chute	19
Rotor Housing - Rear.....	20
Rotor Housing - Front.....	21
Rotor Interlock Latch.....	22
Rotor Interlock Clutch	22
Rotor Housing Assembly	23
Pulley Shroud.....	24
Hopper Top / Back View	25
Hopper Front / Bottom View.....	26
Upper Roller	27
Lower Roller	28
Hopper Roller Shrouding	29
Feed Table	30
Feed Roller Control Detail.....	31

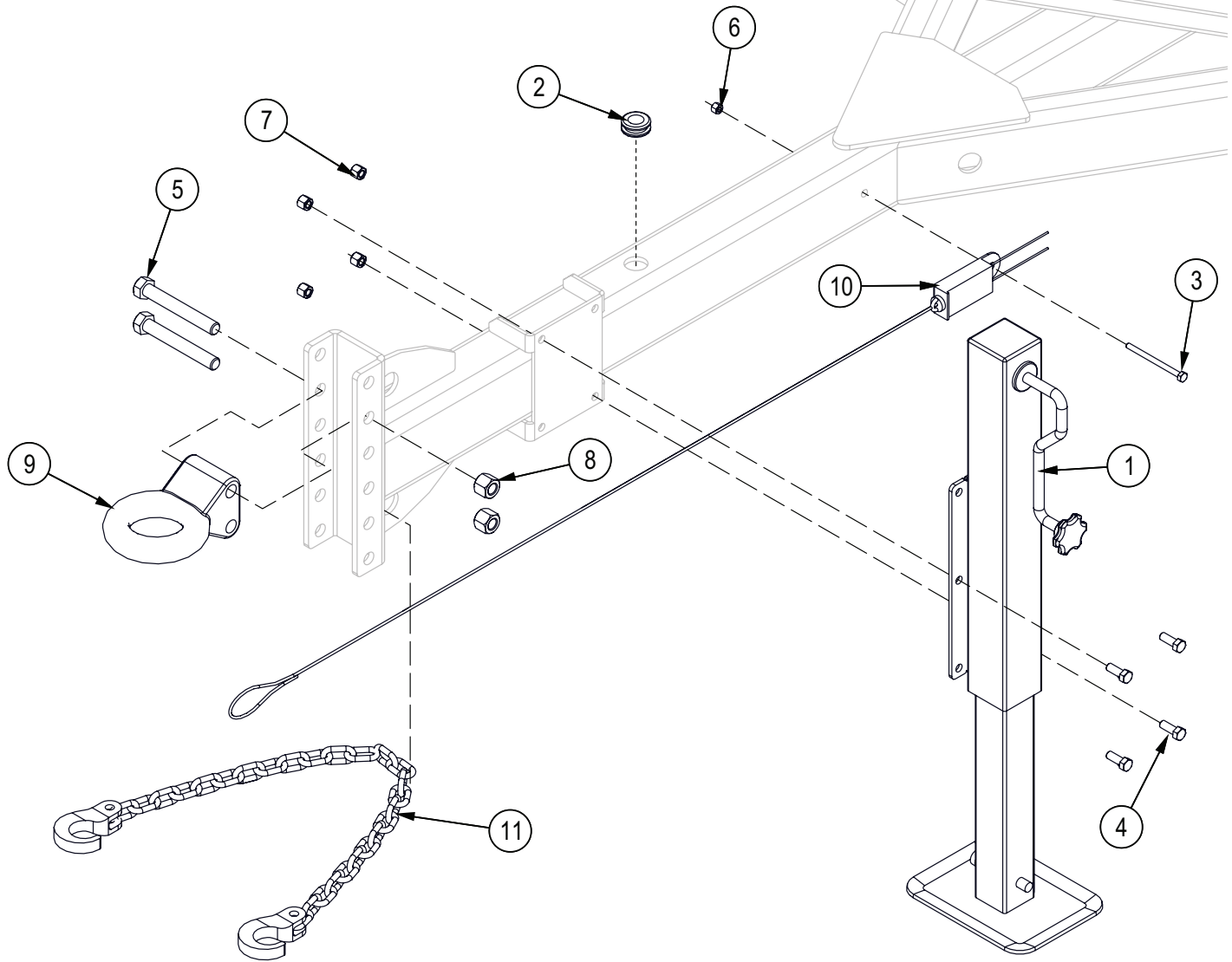
Winch	32
Winch Drum - Detail	33
Winch Arm Assembly	33
Fairlead Assembly Detail.....	34
Roller Lift Hydraulic Cylinder	34
Roller Lift Hydraulic Cylinder - Detail	35
Intellifeed Module Assembly	35
Roller Lift Hydraulic Controls	36
Intellifeed Wiring Harness & Lights and Brakes Wiring Harness.....	37
Intellifeed Wiring Diagram #Z62108	38
Hydraulic Hose List	39
Hydraulic Plumbing Diagram CR100.....	40
Hydraulic Plumbing Diagram CR100H	41
Hydraulic Plumbing Diagram CR100HW.....	41
Decal Layout.....	42
Accessories	44
Common Bolt Torque Values	45
Hydraulic Fitting Torque Values	46
Wheel Lug Torque Values.....	46

Frame Detail - Tongue and Jack



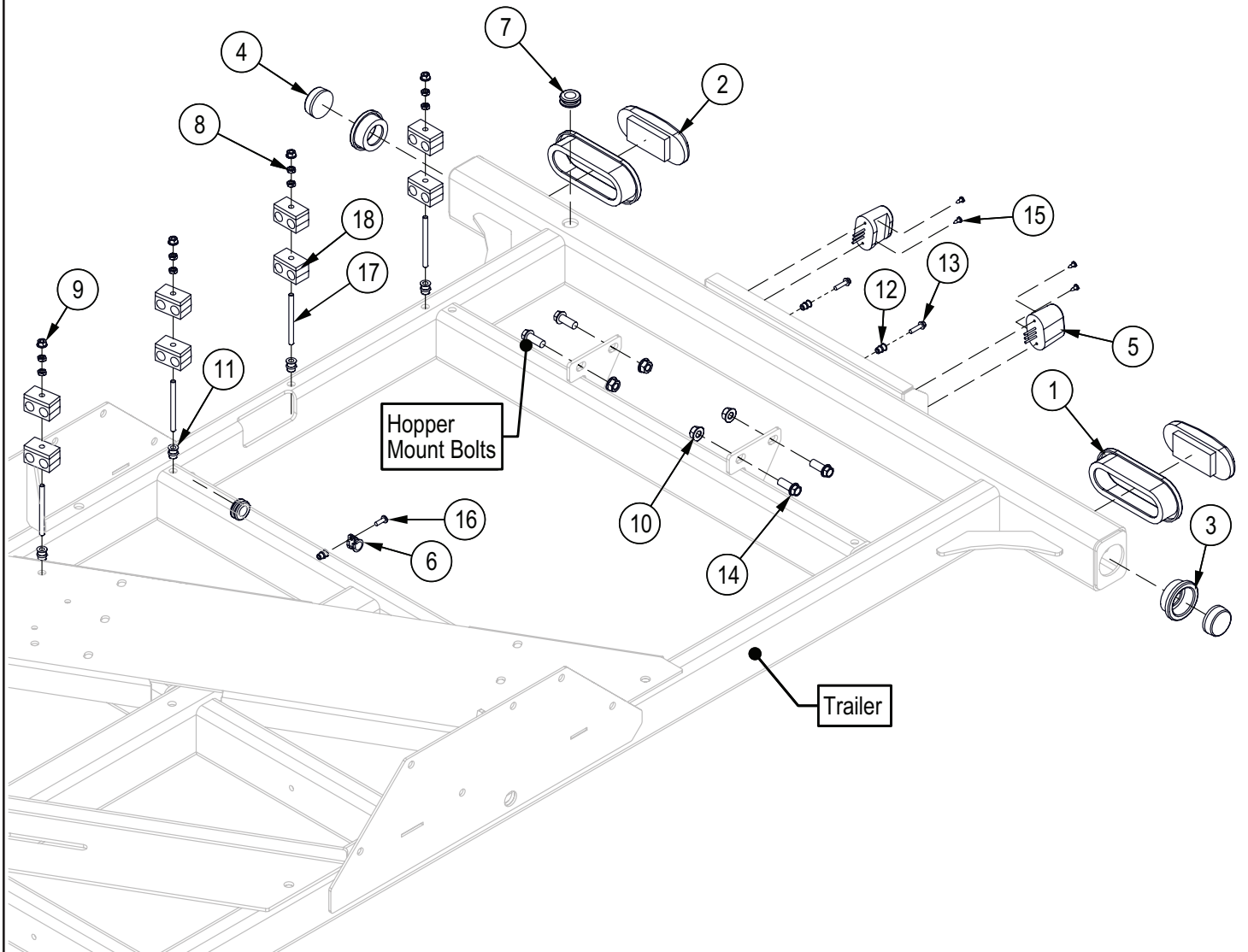
Item No.	Part No.	Description	Qty
1	1082W503	Jack for 1082A502	1
2	Z62822	Rubber Grommet, 3/4" x 1/4"	1
3	Z71135	Hex Bolt, 1/4NC x 3-1/2"	1
4	Z71310	Hex Bolt, 3/8NC x 1"	4
5	Z71645	Hex Bolt, 5/8NC x 4-1/2"	2
6	Z72211	Hex Lock Nut, 1/4NC	1
7	Z72231	Hex Lock Nut, 3/8NC	4
8	Z72261	Hex Lock Nut, 5/8NC	2
9	Z91622	Pintle, 2-1/2" Eye x Ladder x 12000lbs	1
10	Z91713	Breakaway Safety Switch	1
11	Z92309	Safety Chain, 1/4" x 5ft Heavy Duty with Two Grab Hooks	1

Frame Detail - Front



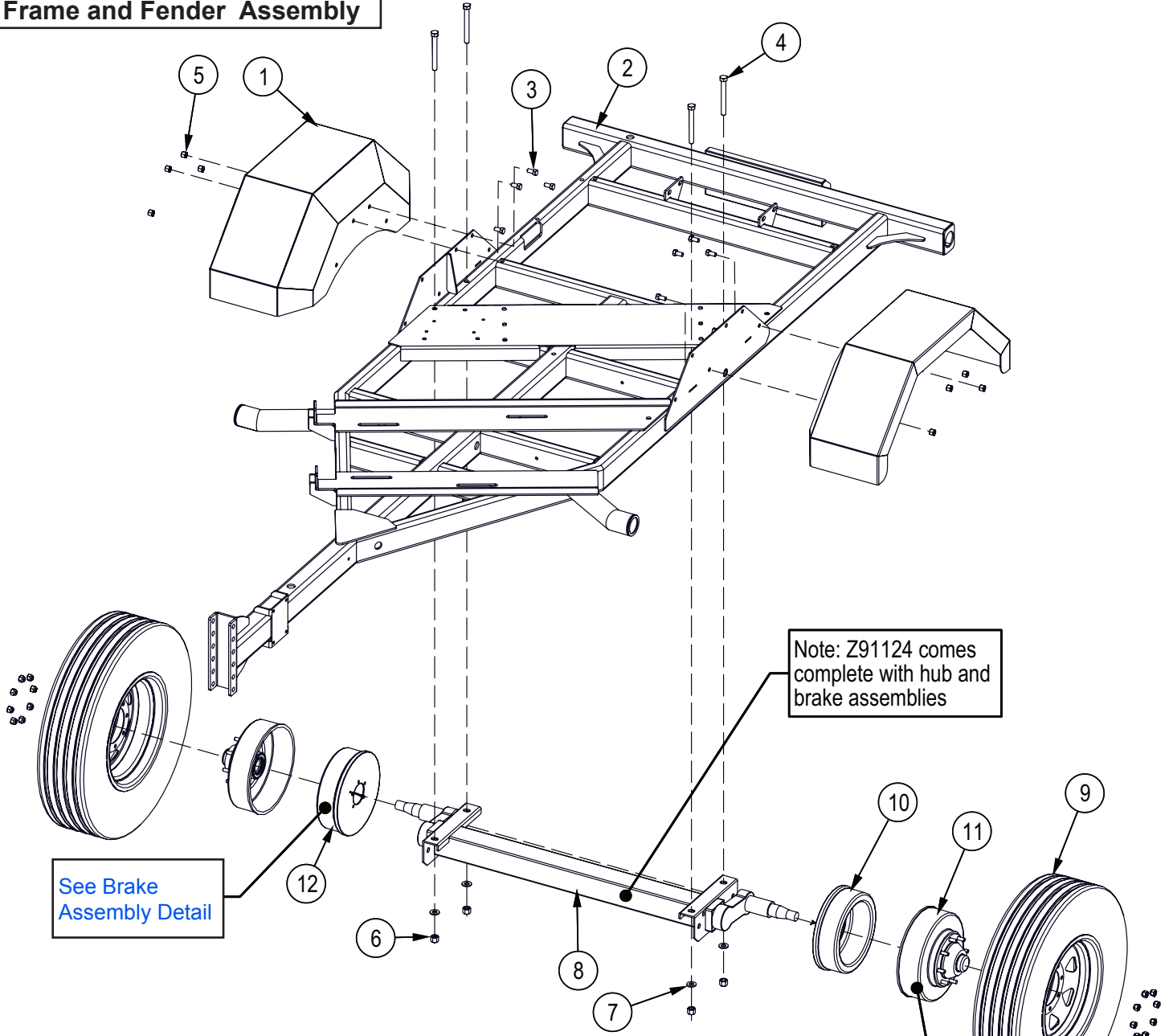
Item No.	Part No.	Description	Qty
1	1082W503	Jack for 1082A502	1
2	Z62822	Rubber Grommet, 3/4" x 1/4"	1
3	Z71135	Hex Bolt, 1/4NC x 3-1/2"	1
4	Z71310	Hex Bolt, 3/8NC x 1"	4
5	Z71645	Hex Bolt, 5/8NC x 4-1/2"	2
6	Z72211	Hex Lock Nut, 1/4NC	1
7	Z72231	Hex Lock Nut, 3/8NC	4
8	Z72261	Hex Lock Nut, 5/8NC	2
9	Z91622	Pintle, 2-1/2" Eye x Ladder x 12000lbs	1
10	Z91713	Breakaway Safety Switch	1
11	Z92309	Safety Chain, 1/4" x 5ft Heavy Duty with Two Grab Hooks	1

Frame Detail - Rear



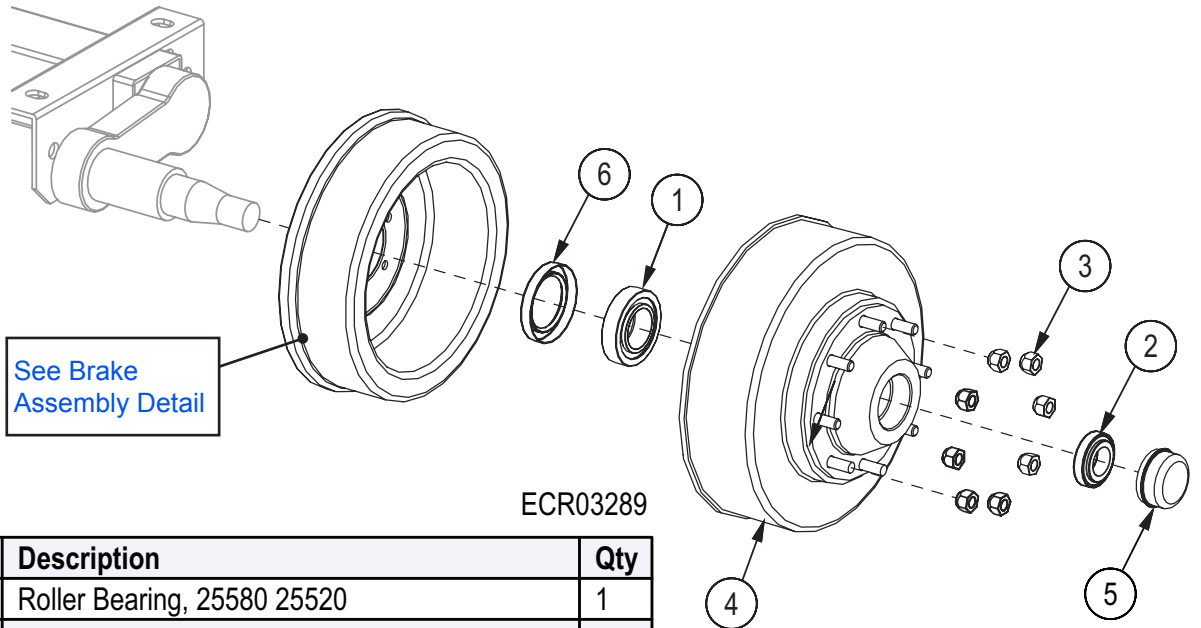
Item No.	Part No.	Description	Qty
1	Z61103	Grommet, Oval x Open Back	2
2	Z61114	STT LED, Oval x Red	2
3	Z61202	Grommet, Round x Open Back	2
4	Z61210	Marker LED, Round x Red	2
5	Z61301	License Lamp, White	2
6	Z62819	Rubberized Wire Clamp, 1/2"	1
7	Z62822	Rubber Grommet, 3/4" x 1/4"	2
8	Z72321	Jam Nut, 5/16NC	8
9	Z72521	Serrated Flange Locknut, 5/16NC	4
10	Z72551	Serrated Flange Locknut, 1/2NC	4
11	Z72957	Rivet Nut, 5/16NC x 312	4
12	Z72962	Rivet Nut, 1/4NC x 260	3
13	Z76114	Flange Bolt, 1/4NC x 1"	2
14	Z76152	Flange Bolt, 1/2NC x 1-1/4"	4
15	Z76711	Self-tapping Screw, #10 x 1/2"	4
16	Z78301	Machine Screw, 1/4NC x 3/4"	1
17	Z79141	Threaded Stud, 5/16NC x 4"	4
18	Z79463	Double Hose Clamp, 1 1/16" OD	8

Frame and Fender Assembly



Item No.	Part No.	Description	Qty
1	1060W105	Fender Well	2
2	1060W316	CR100 Trailer	1
3	Z71510	Hex Bolt, 1/2NC x 1"	8
4	Z71655	Hex Bolt, 5/8NC x 5-1/2"	4
5	Z72251	Hex Lock Nut, 1/2NC	8
6	Z72261	Hex Lock Nut, 5/8NC	4
7	Z73161	SAE Washer, 5/8"	4
8	Z91124	#12 Full Flex Axle, 7000lbs x 60" HF With Electric Brakes	1
9	Z91327	ST235/80R16 LRE Radial Trail 8on6-1/2"	2
10	Z91702	Electric Brake, 12" x 2" x 3500lbs LH	1
11	Z91710	Brake Drum, 12" x 3500lbs 8on6-1/2" Drum Only	2
12	Z91712	Electric Brake, 12" x 2" x 3500lbs RH	1

Hub Assembly Detail

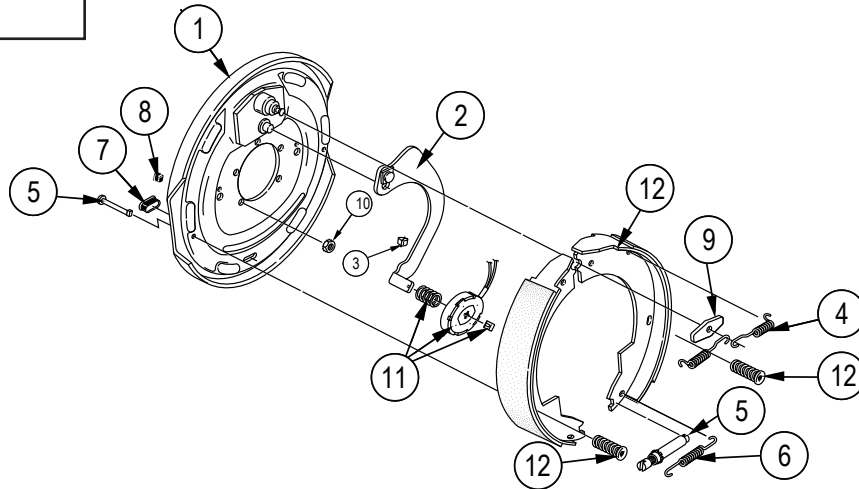


ECR03289

Item No.	Part No.	Description	Qty
1	Z23206	Roller Bearing, 25580 25520	1
2	Z23210	Roller Bearing, 14125A 14276	1
3	Z72931	Lug Nut, 1/2NF	8
4	Z91710	Brake Drum, 12" x 3500lbs 8on6-1/2" Drum Only	1
5	Z91808	Dust Cap, 2.70 Bore	1
6	Z28203	Single Lip Seal, 2-1/4"	1

Brake Assembly

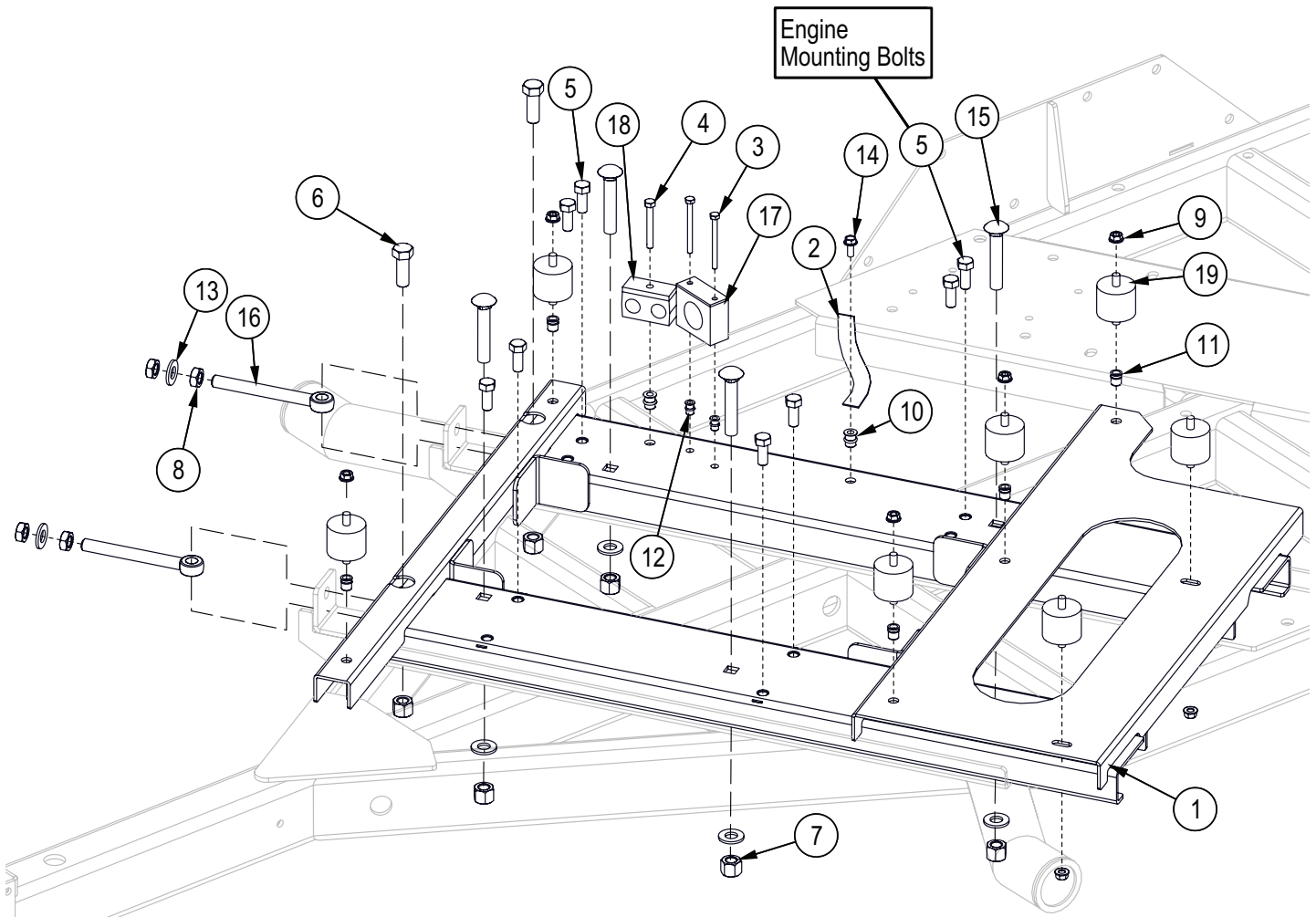
Please note: brake parts are not available from EMB Mfg. Brake part numbers here reference Dexter Axle brake assemblies and are available from your local auto parts dealer. All brake repair and maintenance should be done by a qualified mechanic.



Item No.	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

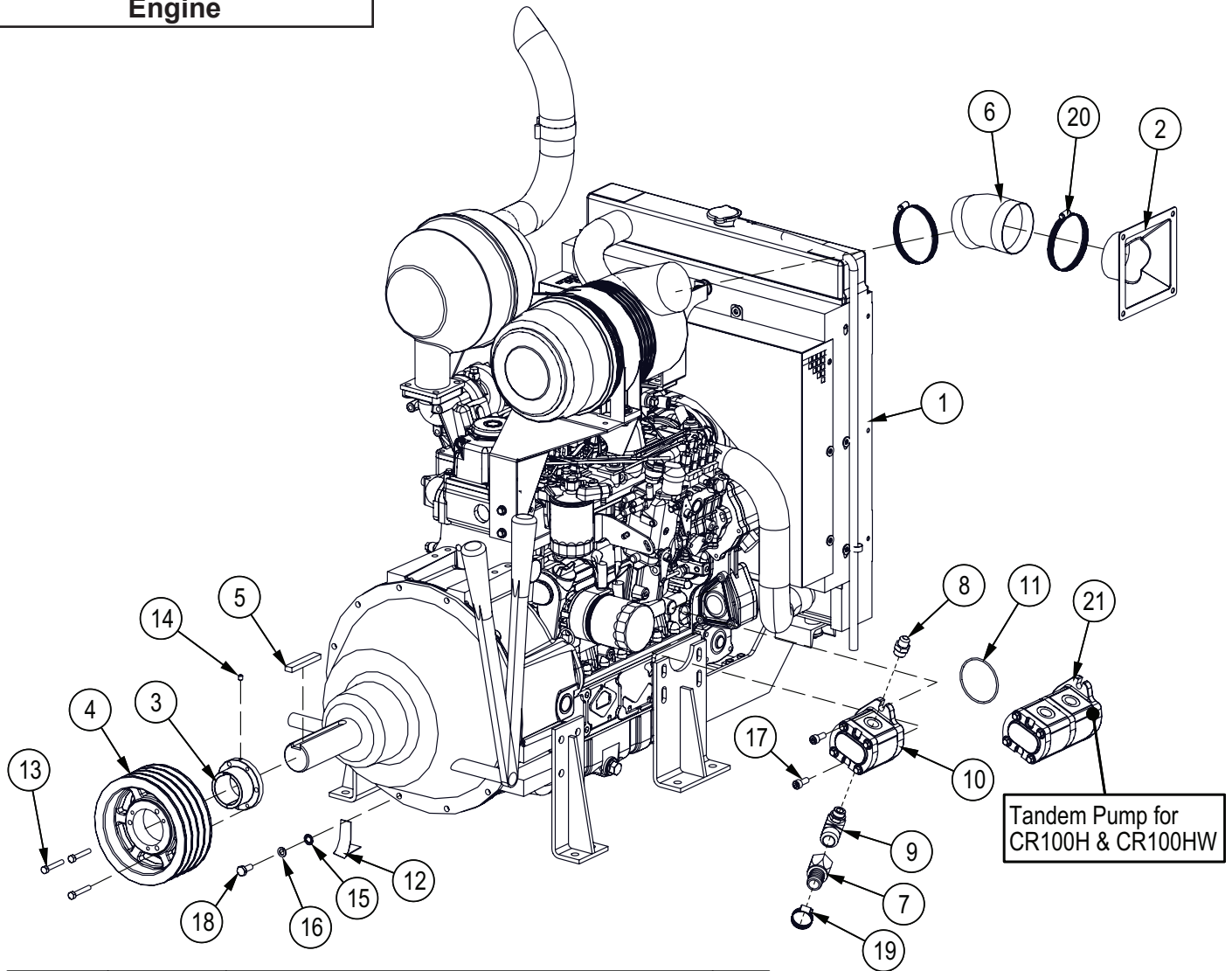
Item No.	Part No.	Description	Qty
9	005-067-00	Anchor Post Washer	1
10	006-193-00	Nut Washer Assembly	5
11	K71-105-00	Magnet Kit Contains:	1
		Magnet (white wire)	1
		Magnet Clip	1
		Magnet Spring	1
12	K71-048-00	Shoe & Lining Kit Contains:	1
		Primary Shoe & Lining	1
		Secondary Shoe & Lining	1
		Shoe Hold Down Pin #2	2
		Shoe Hold Down Spring & Cup	2

Engine Carriage



Item No.	Part No.	Description	Qty
1	1060W106	Engine Pack Subframe	1
2	Z62713	Copper Ground Strap, 9"	1
3	Z71130	Hex Bolt, 1/4NC x 3"	2
4	Z71225	Hex Bolt, 5/16NC x 2-1/2"	1
5	Z71512	Hex Bolt, 1/2NC x 1-1/4"	8
6	Z71617	Hex Bolt, 5/8NC x 1-3/4"	2
7	Z72261	Hex Lock Nut, 5/8NC	6
8	Z72361	Jam Nut, 5/8NC	4
9	Z72531	Serrated Flange Locknut, 3/8NC	7
10	Z72957	Rivet Nut, 5/16NC x 312	2
11	Z72958	Rivet Nut, 3/8NC x 150	5
12	Z72962	Rivet Nut, 1/4NC x 260	2
13	Z73161	SAE Washer, 5/8"	6
14	Z76121	Flange Bolt, 5/16NC x 3/4"	1
15	Z76265	Carriage Bolt, 5/8NC x 3-1/2"	4
16	Z76561	Rod End, 5/8NC x 6" Full Threads	2
17	Z79457	Single Hose Clamp, 1-1/2" OD	1
18	Z79464	Double Hose Clamp, 13/16" OD	1
19	Z79932	Isolator, 2" Dia x 1-5/8" x 3/8NC	7

Engine

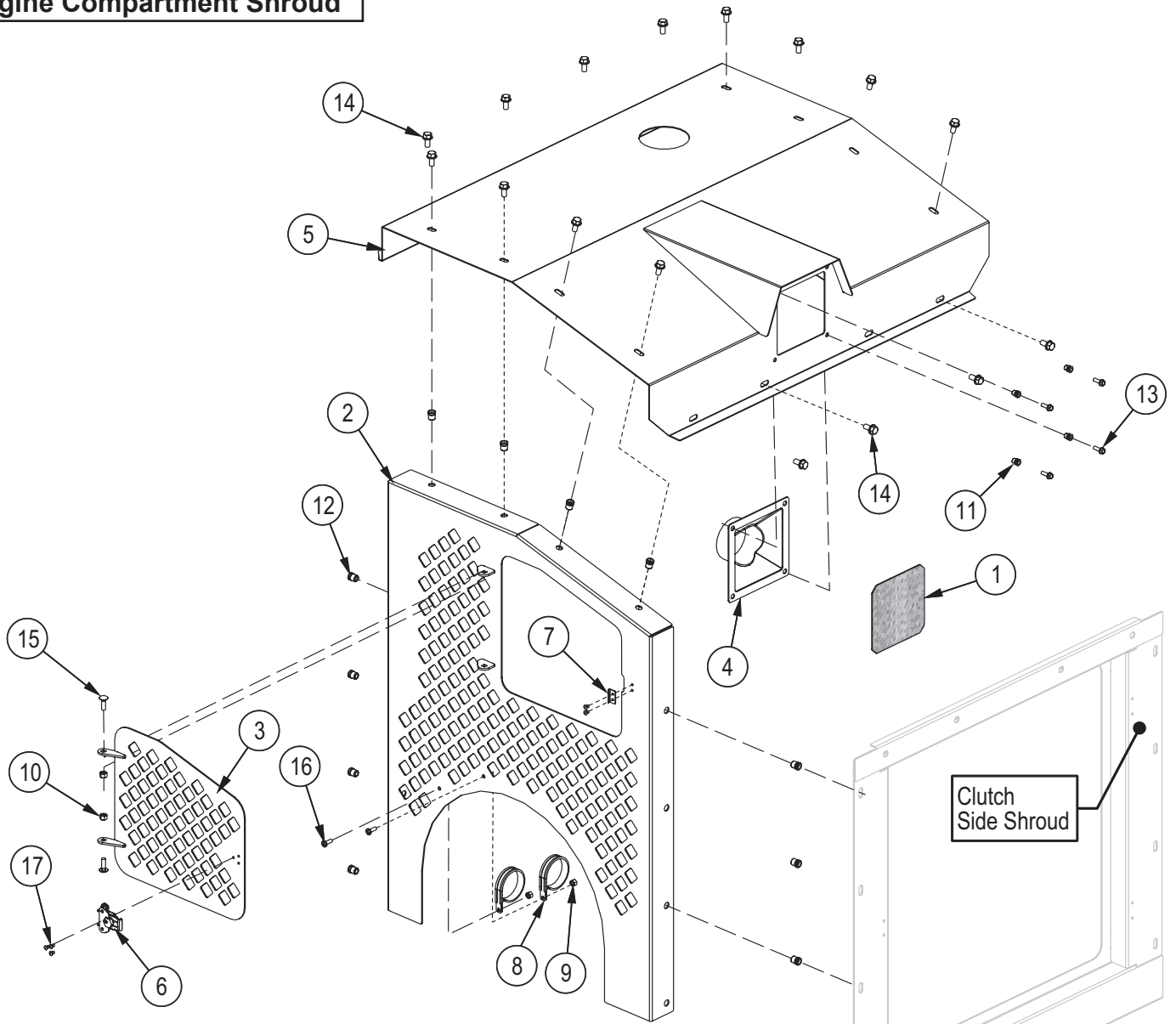


Item No.	Part No.	Description	Qty
1	Z47608	Kubota V3600T c/w Clutch and Kits	1
2	1060W132	Air Intake Clamp	1
3	Z41520	Hub, SK x 2-1/4" x 5/8" Keyway	1
4	Z41771	Sheave, 4B80 x SK	1
5	Z46598	Key, 3/8" x 5/8" x 3-1/2"	1
6	Z47908	Air Duct, 3-3/4" x 6"	1
7	Z51594	Straight, MHB x FJICX 1616	1
8	Z51647	Straight, MJIC x MORB 0810	1
9	Z51659	Elbow 90, MJIC x MORB 1610	1
10	Z53115	Gear Pump, Series 20 x 0.69CIR	1
11	Z55801	O-Ring, Buna-N x #236	1
12	Z62713	Copper Ground Strap, 9"	1
13	Z71220	Hex Bolt, 5/16NC x 2"	3
14	Z74121	Set Screw, 5/16NC x 3/8"	1
15	Z77362	Int - Ext Tooth Washer, M10	1
16	Z77363	Split Lock Washer, M10	1
17	Z77562	SHCS, M10x1.25 x 25mm	2
18	Z77663	Hex Bolt, M10x1.25 x 25mm	1
19	Z79401	Hose Clamp, SAE #16 (1-1/2")	1
20	Z79406	Hose Clamp, SAE #60 (4-1/4")	2
21	Z53116	Tandem Gear Pump, Series 20 x 0.30CIR + 0.50CIR	1

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

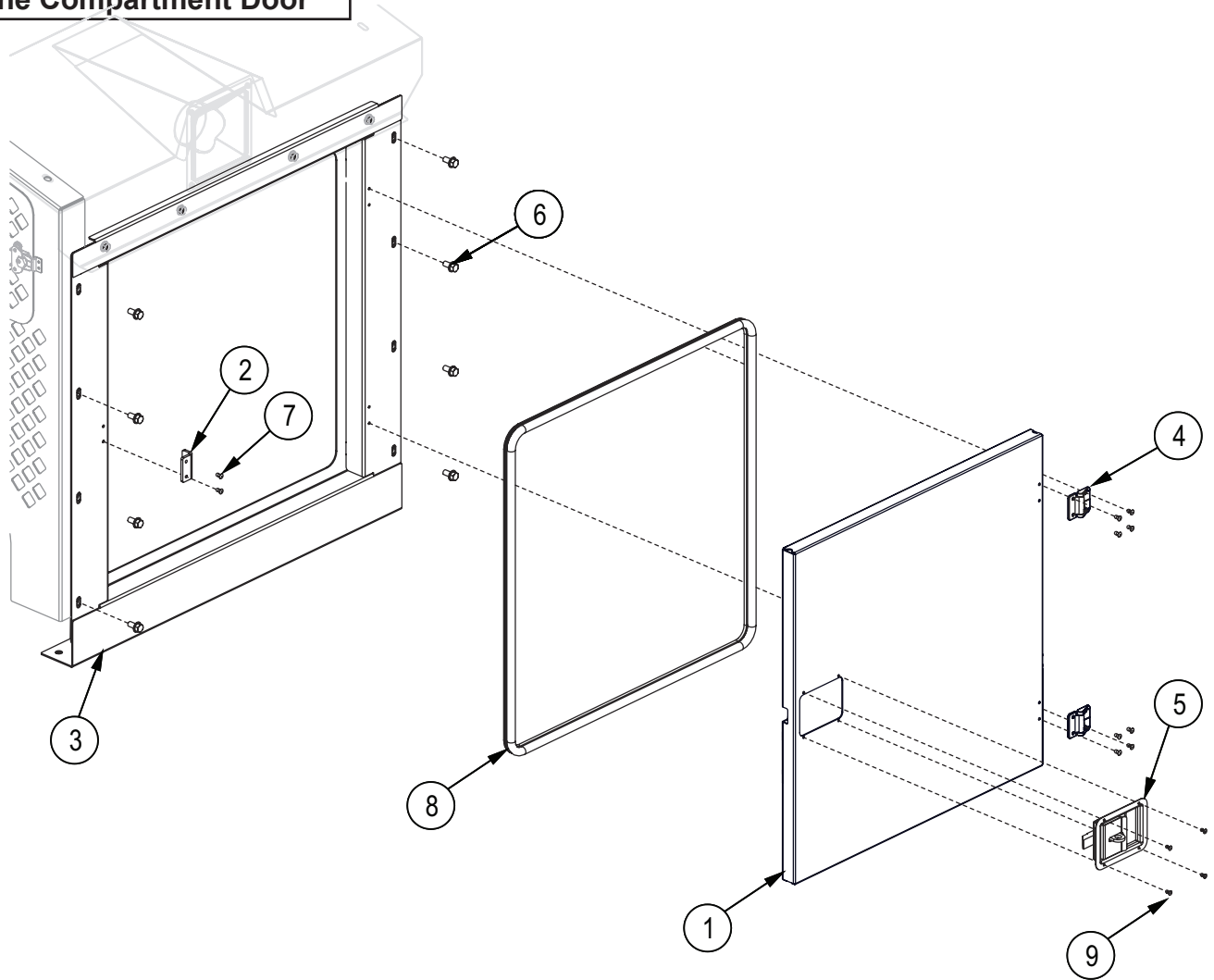
Engine Parts	
Part #	Description
107010001559 (P828889)	Primary Air Filter Element Donaldson Primary Filter
107010001560 (P829333)	Safety Element Donaldson Safety Element
106200000515 (G082526)	Air Filter Case (Includes Filters)
106200000062	Coolant Overflow Bottle
106010002269	Rad Cap
Part #	Description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

Engine Compartment Shroud



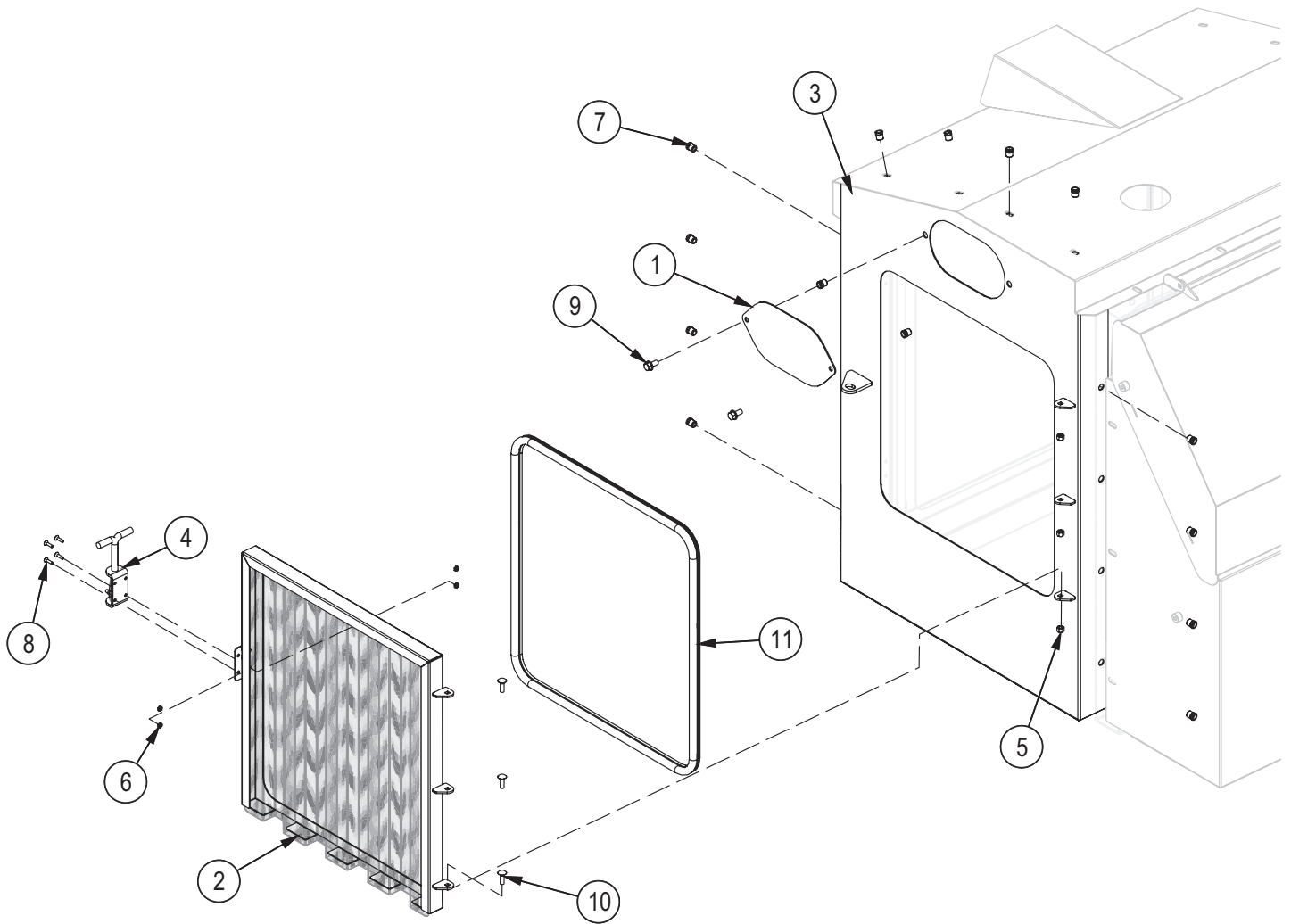
Item No.	Part No.	Description	Qty
1	1060S108	Air Intake Screen	1
2	1060W267	Engine Vent Screen	1
3	1060W268	Air Cleaner Access Door	1
4	1060W132	Air Intake Clamp	1
5	1060W136	Enclosure Hood	1
6	Z18215	Twist Action Draw Latch, 2-3/4"	1
7	Z18216	Catch for Z18215	1
8	Z62826	Rubberized Wire Clamp, 2-1/2"	2
9	Z72211	Hex Lock Nut, 1/4NC	2
10	Z72221	Hex Lock Nut, 5/16NC	2
11	Z72955	Rivet Nut, 1/4NC x 165	4
12	Z72958	Rivet Nut, 3/8NC x 150	12
13	Z76111	Flange Bolt, 1/4NC x 3/4"	4
14	Z76133	Flange Bolt, 3/8NC x 3/4"	16
15	Z76225	Carriage Bolt, 5/16NC x 1"	2
16	Z78301	Machine Screw, 1/4NC x 3/4"	2
17	Z79305	Dome Head Rivet, 5/32" x 188	5

Engine Compartment Door



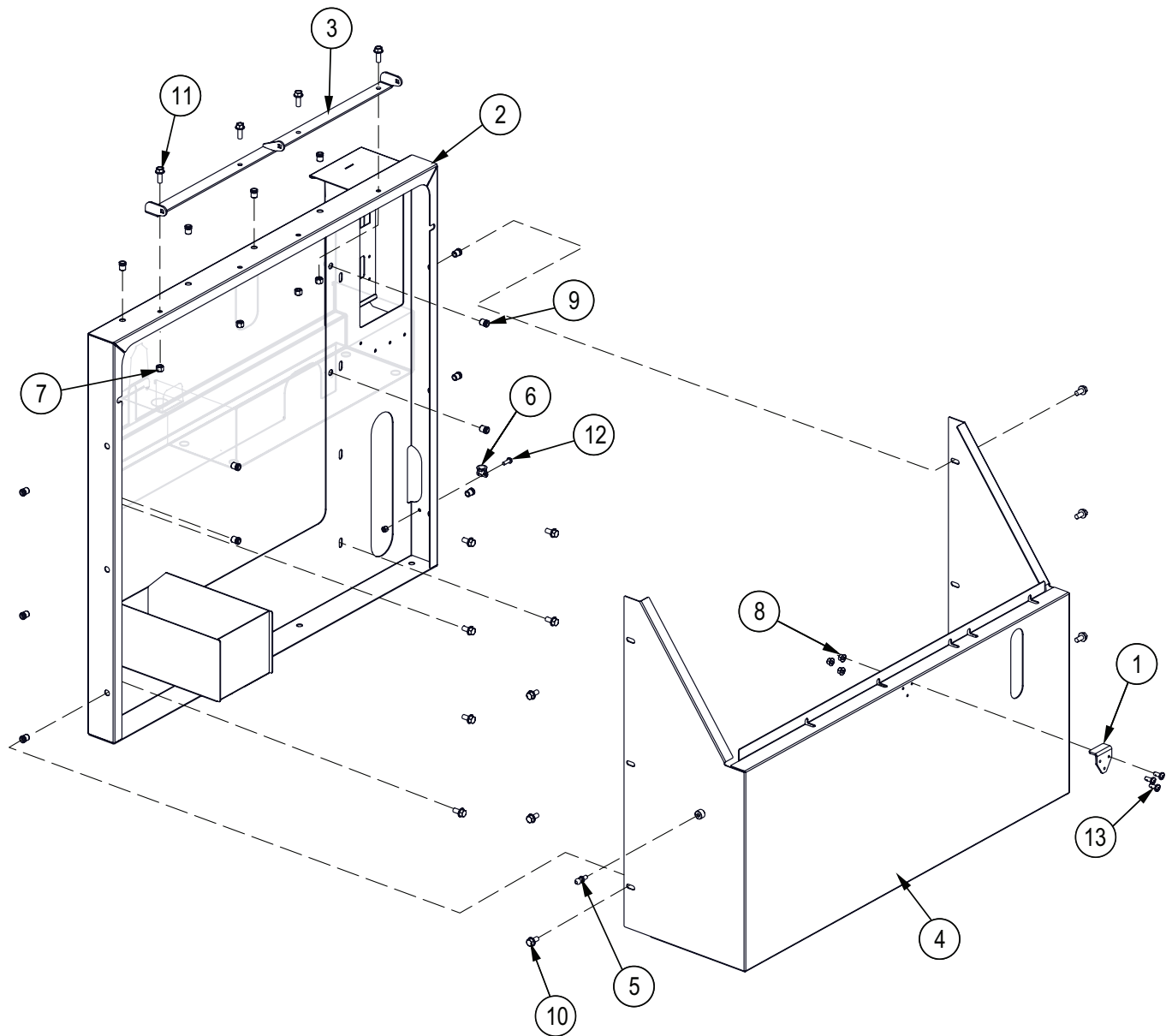
Item No.	Part No.	Description	Qty
1	1060L172	Maintenance Access Door	1
2	1060L235	Latch Strike Plate	1
3	1060W108	Clutch Side Shroud	1
4	Z18103	Friction Hinge, 1/4" x 2-1/4"	2
5	Z18208	Stainless Paddle Latch, Padlockable	1
6	Z76133	Flange Bolt, 3/8NC x 3/4"	8
7	Z79303	Dome Head Rivet, 3/16" x 250	10
8	Z92501	5/8 Seal with Vinyl Grip x 101"	1
9	Z79306	Dome Head Rivet, 5/32" x 250	4

Radiator Shroud and Screen Door



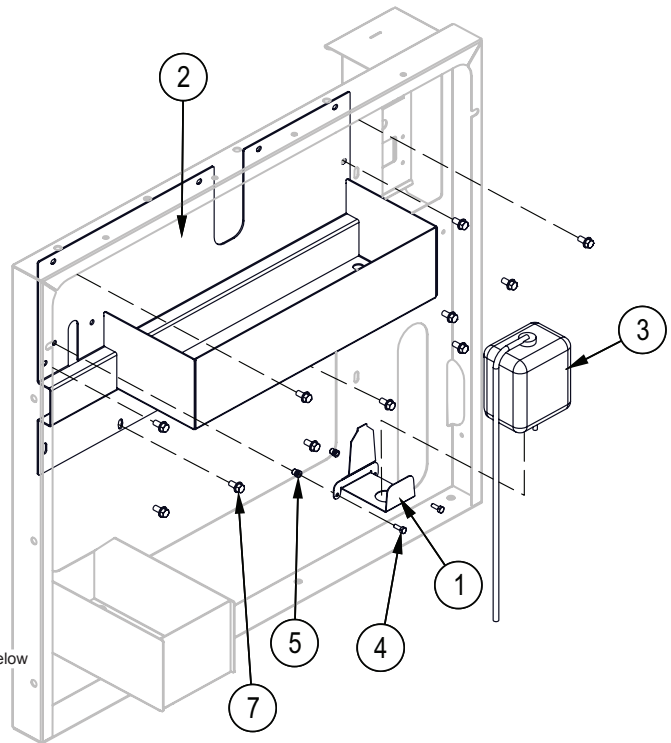
Item No.	Part No.	Description	Qty
1	1060L210	Coolant Fill Plate	1
2	1060W124	Radiator Screen	1
3	1060W138	Radiator Screen Panel	1
4	Z18207	Spring Latch Pin, 1/2" x 1" Stroke	1
5	Z72221	Hex Lock Nut, 5/16NC	3
6	Z72752	Machine Nut, #10NF	4
7	Z72958	Rivet Nut, 3/8NC x 150	14
8	Z75203	FHCS, #10NF x 3/4"	4
9	Z76133	Flange Bolt, 3/8NC x 3/4"	2
10	Z76225	Carriage Bolt, 5/16NC x 1"	3
11	Z92501	5/8 Seal with Vinyl Grip x 83"	1

Tank Compartment Shroud



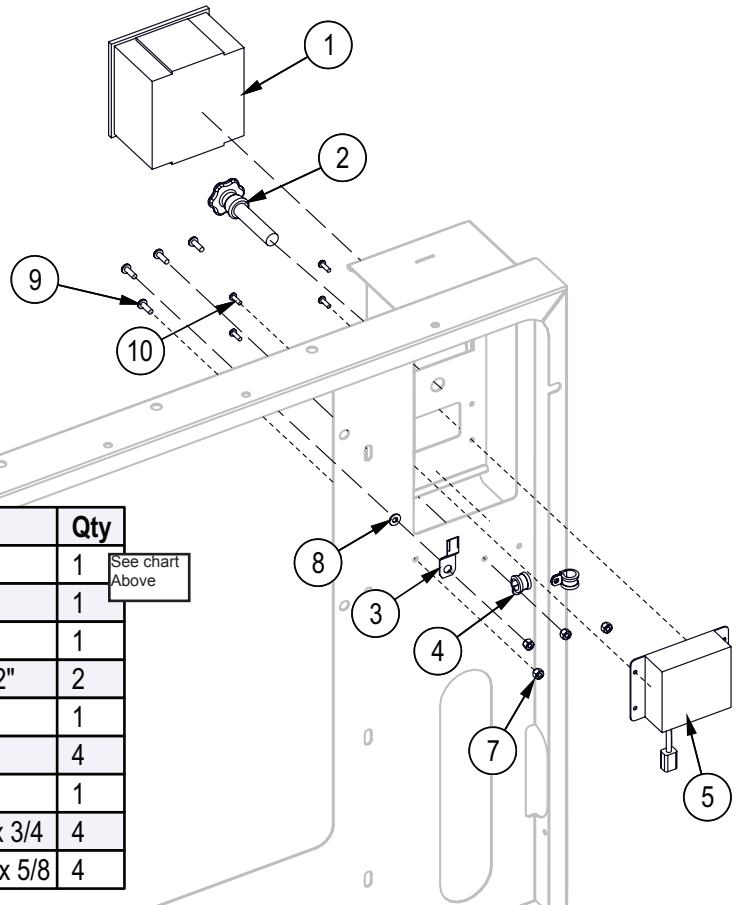
Item No.	Part No.	Description	Qty
1	1060L346	Tank Compartment Strike Plate	1
2	1060W119	Shroud, Tank Side	1
3	1060W253	Tank Door Hinge Rail	1
4	1060W270	Tank Shroud	1
5	Z34204	Ball Stud 13mm x 5/16	1
6	Z62819	Rubberized Wire Clamp, 1/2"	1
7	Z72231	Hex Lock Nut, 3/8NC	4
8	Z72521	Serrated Flange Locknut, 5/16NC	3
9	Z72958	Riv-Nut 3/8NC x 150	18
10	Z76133	Flange Bolt, 3/8NC x 3/4	12
11	Z76134	Flange Bolt, 3/8NC x 1	4
12	Z78301	Machine Screw, 1/4-20NC x 3/4	1
13	Z78319	Machine Screw, 5/16NC x 3/4" Locking	3

Tank Compartment Tool Tray Detail



Item No.	Part No.	Description	Qty
1	1060L183	Coolant Overflow Bracket	1
2	1060W133	Toolbox Rail	1
3	Z47608-3	Coolant Overflow Bottle Kit	1 <small>see below</small>
4	Z71107	Hex Bolt, 1/4NC x 3/4	2
5	Z72955	Riv-Nut 1/4NC x 165	2
7	Z76133	Flange Bolt, 3/8NC x 3/4	11

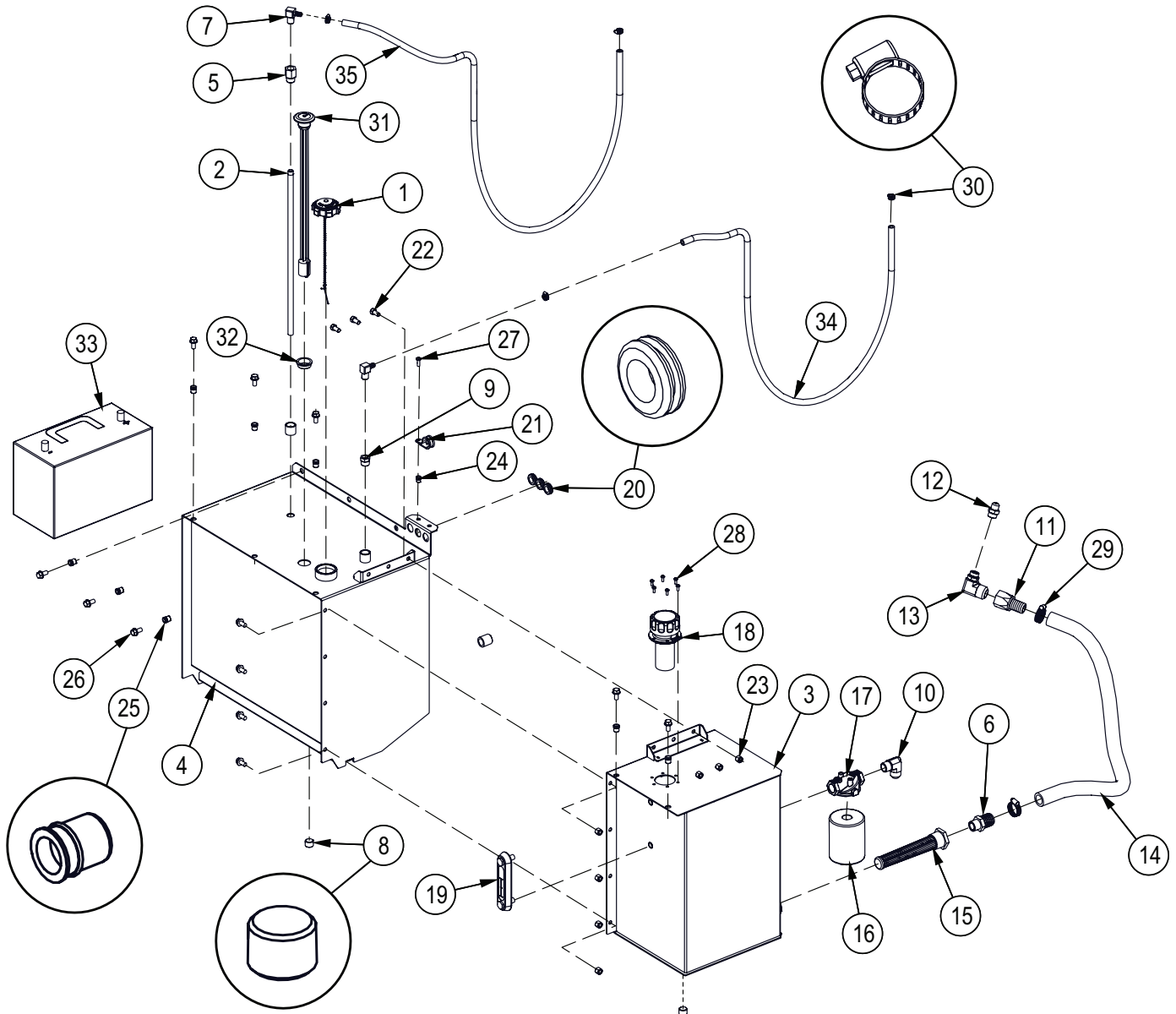
Control Panel



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

Item No.	Part No.	Description	Qty
1	Z47608-1	Engine Control Box	1 <small>See chart Above</small>
2	Z47608-2	Kubota Throttle Assembly	1
3	Z62816	Deutsch Mounting Clip	1
4	Z62819	Rubberized Wire Clamp, 1/2"	2
5	Z66204	Control, IntelliFEED	1
7	Z72211	Hex Lock Nut, 1/4NC	4
8	Z73111	Flat Washer, 1/4	1
9	Z78301	Machine Screw, 1/4-20NC x 3/4	4
10	Z78312	Machine Screw, #10-24NC x 5/8	4

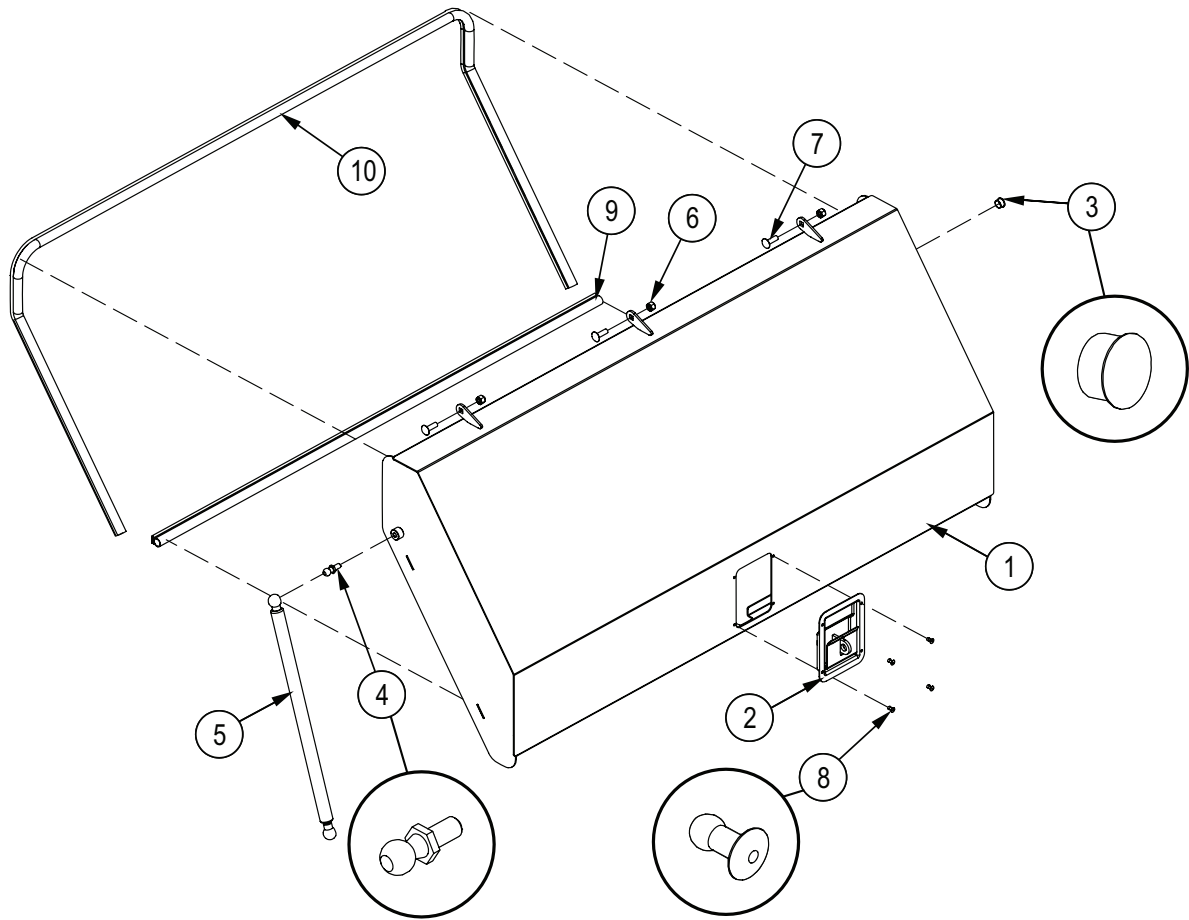
Battery, Fuel and Hydraulic Tanks



Item No.	Part No.	Description	Qty
1	1060A140	TIPS Diesel Fuel Cap, Tethered	1
2	1060S103	Fuel Pickup Tube	1
3	1060W114	Hydraulic Tank	1
4	1060W115	Fuel Tank	1
5	1060m103	Custom Adapter MP08 x FP06	1
6	Z51188	Straight, MHB x MP 1612	1
7	Z51189	Elbow 90, MHB x MP 0506	2
8	Z51192	Socket Plug, MP 08	2
9	Z51226	Straight, MP x FP 0806	1
10	Z51454	Elbow 90, MJIC X MP 1212	1
11	Z51594	Straight, MHB x FJICX 1616	1
12	Z51647	Straight, MJIC x MORB 0810	1
13	Z51659	Elbow 90, MJIC x MORB 1610	1
14	Z52422	1" Tank Truck Hose x 40"	1
15	Z55101	Suction Strainer, MP20	1
16	Z55301	Particulate Filter, FP12	1
17	Z55302	Filter Cap, MP12 x FP12	1
18	Z55403	Filler Breather Cap x 400um Locking	1

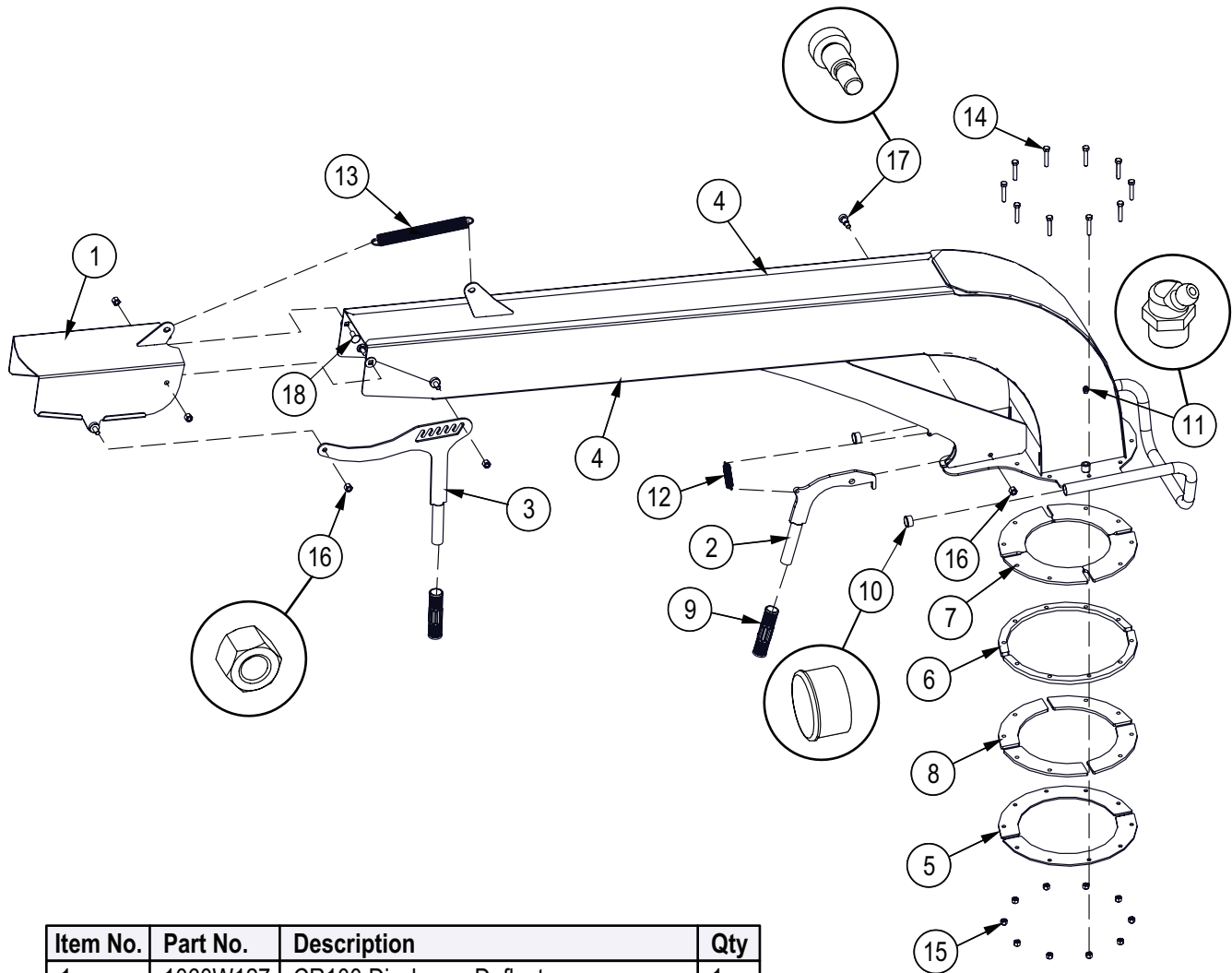
Item No.	Part No.	Description	Qty
19	Z55908	Level Thermometer, 1/2NC x 5"	1
20	Z62823	Rubber Grommet, 5/8" x 1/8"	3
21	Z62824	Rubberized Wire Clamp, 1"	1
22	Z71307	Hex Bolt, 3/8NC x 3/4"	3
23	Z72231	Hex Lock Nut, 3/8NC	7
24	Z72955	Rivet Nut, 1/4NC x 165	1
25	Z72958	Rivet Nut, 3/8NC x 150	8
26	Z76133	Flange Bolt, 3/8NC x 3/4"	12
27	Z78301	Machine Screw, 1/4NC x 3/4"	1
28	Z78303	Machine Screw, #10NF x 1/2"	6
29	Z79401	Hose Clamp, SAE #16 (1-1/2")	2
30	Z79405	Hose Clamp, SAE #4 (5/8")	4
31	Z93112	Fuel Gauge, Grommet Mount x 18"	1
32	Z93115	Fuel Gauge Grommet for Z93113	1
33	Z93217	Battery, 31A-950	1
34	Z93311a	Fuel Line, 5/16 x 58"	1
35	Z93311b	Fuel Line, 5/16 x 66"	1

Tank Compartment Lid



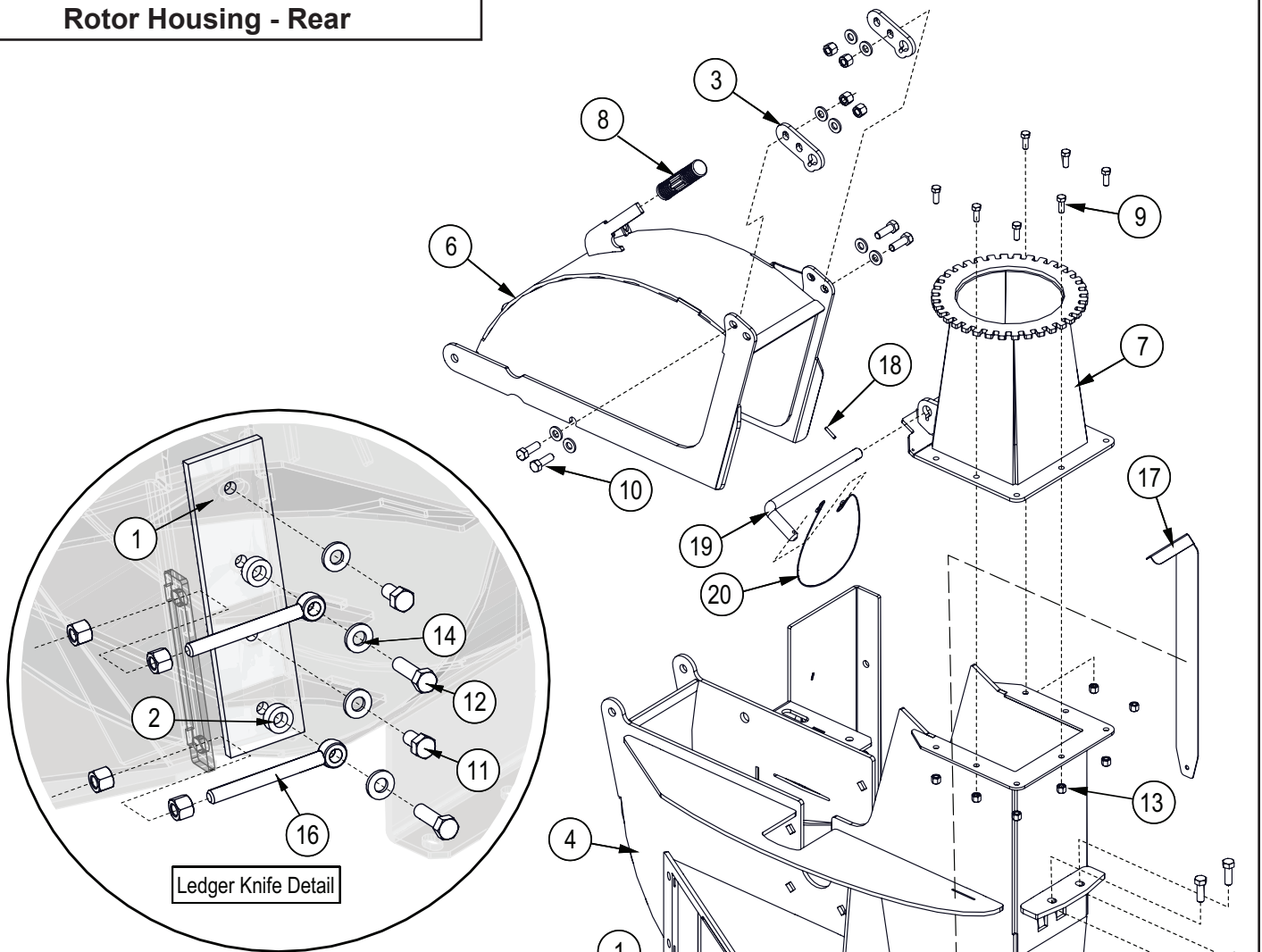
Item No.	Part No.	Description	Qty
1	1060W135	Tank Door	1
2	Z18208	Padlockable Paddle Latch	1
3	Z19915	Plastic Hole Plug 9/16"	1
4	Z34204	Ball Stud 13mm x 5/16	1
5	Z34206	Gas Spring, 10mm x 11" Stroke 50lbs	1
6	Z72221	Hex Lock Nut, 5/16NC	3
7	Z76225	Carriage Bolt, 5/16NC x 1	3
8	Z79306	Dome Rivet, 5/32" x 1/4"	4
9	Z92501a	5/8 Seal with Vinyl Grip x 42"	1
10	Z92501b	5/8 Seal with Vinyl Grip x 99"	1

Discharge Chute



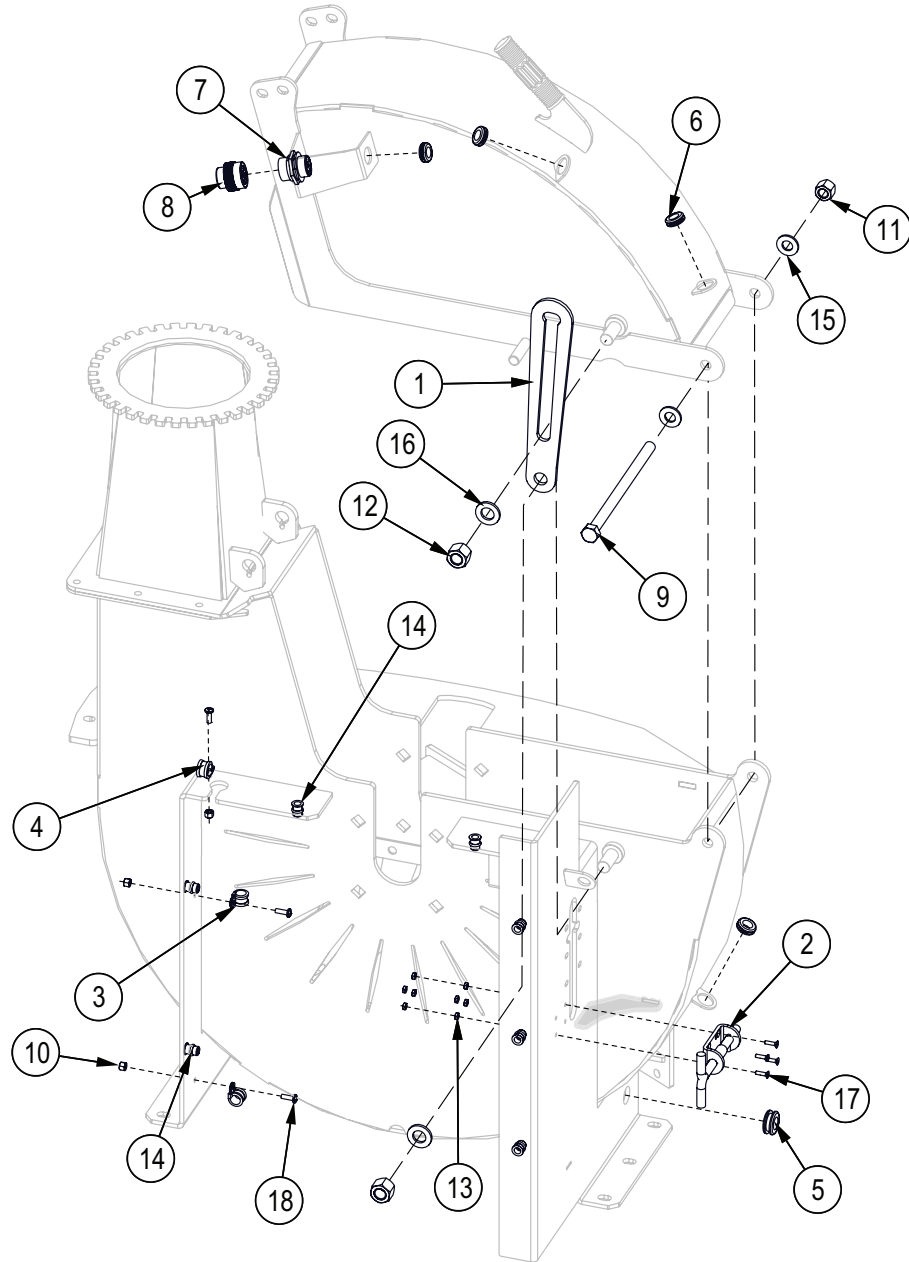
Item No.	Part No.	Description	Qty
1	1060W127	CR100 Discharge Deflector	1
2	1060W129	Latch Release	1
3	1060W145	Deflector Handle	1
4	1060W470	Discharge Chute, CR100	1
5	1060L198	CR100 Hood Capture Ring	2
6	1060L340	CR100 Spacer Ring	2
7	1060S111	Discharge Thrust Bearing, Wide	4
8	1060S112	Discharge Thrust Bearing, Narrow	4
9	Z19321	Handle Grip, 1"	2
10	Z19914	Plastic Pipe Plug, 1" OD	2
11	Z29204	Elbow 45 Grease Fitting, MP02	1
12	Z31305	Ext Spring, 5/8" OD x 3" x 0.08"	1
13	Z31403	Ext Spring, 27mm OD x 178mm x 0.105"	1
14	Z71217	Hex Bolt, 5/16NC x 1-3/4"	10
15	Z72221	Hex Lock Nut, 5/16NC	10
16	Z72231	Hex Lock Nut, 3/8NC	5
17	Z75552	Shoulder Bolt, 1/2" x 5/8"	1
18	Z76231	Carriage Bolt, 3/8NC x 1"	2

Rotor Housing - Rear



Item No.	Part No.	Description	Qty
1	1019M904	Knife, BX92 Ledger	1
2	1021L150	Ledger Washer	2
3	1060L284	Hood Closure Interface	2
4	1060W102	Lower Housing, Trailer	1
5	1060W103	Twig Breaker, CR100	1
6	1060W126	CR100 Upper Housing	1
7	1060W150	Square to Round	1
8	Z19321	Handle Grip, 1"	1
9	Z71310	Hex Bolt, 3/8NC x 1"	7
10	Z71515	Hex Bolt, 1/2NC x 1-1/2"	6
11	Z71572G8	Hex Bolt 1/2NF x 7/8 Gr8	2
12	Z71579G8	Hex Bolt, 1/2NF x 1-3/4" G8	2
13	Z72231	Hex Lock Nut, 3/8NC	7
14	Z73151	SAE Washer, 1/2"	12
15	Z72251	Hex Lock Nut, 1/2NC	10
16	Z76552	Rod End, 1/2NC x 5" Full Threads	2
17	1012L269	Gauge, Ledger Setting	1
18	Z14153	Roll Pin, 3/16" x 1"	1
19	1060S113	Hood Lock Pin	1
20	1060F001	Safety Cable, 1/16" x 18"	1

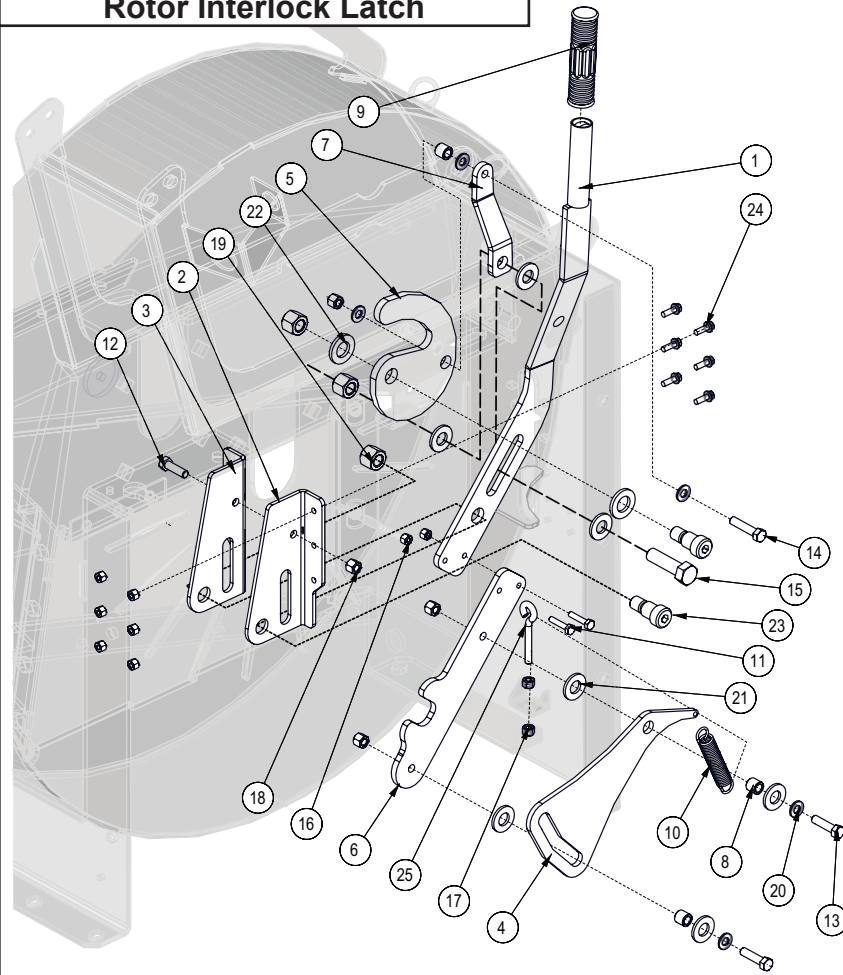
Rotor Housing - Front



Item No.	Part No.	Description	Qty
1	1021L155	Rotation Stop	1
2	Z18210	Spring Latch Pin, 1/2" x 1" Stroke No Pegs	1
3	Z62819	Rubberized Wire Clamp, 1/2"	2
4	Z62821	Rubberized Wire Clamp, 5/8"	1
5	Z62822	Rubber Grommet, 3/4" x 1/4"	1
6	Z62823	Rubber Grommet, 5/8" x 1/8"	4
7	Z63607	Deutsch Bulkhead Receptacle, 8-Pin w/ Aluminum Body	1
8	Z63608	Deutsch Plug, 8-Pin w/ Aluminum Body	1
9	Z71662	Hex Bolt, 5/8NC x 10"	1
10	Z72211	Hex Lock Nut, 1/4NC	3

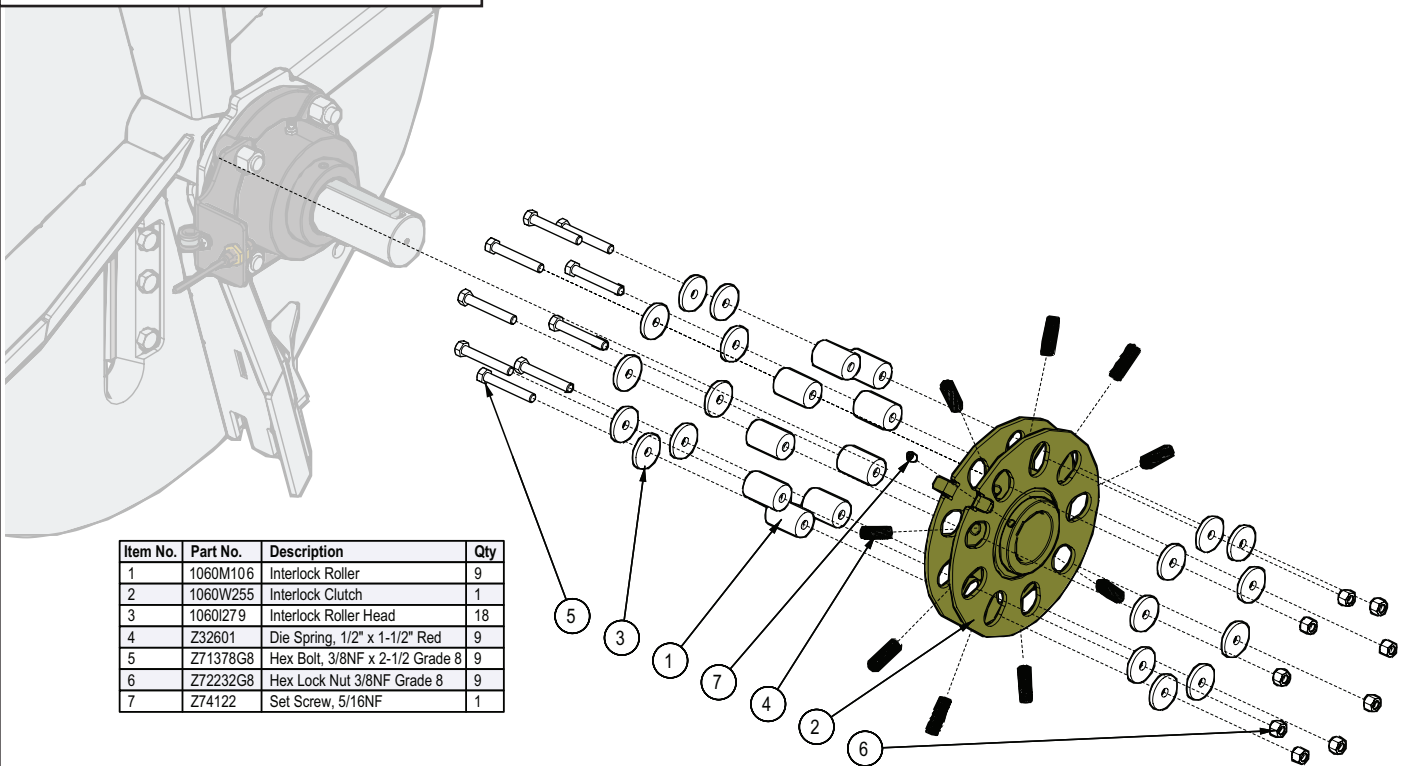
Item No.	Part No.	Description	Qty
11	Z72261	Hex Lock Nut, 5/8NC	1
12	Z72271	Hex Lock Nut, 3/4NC	2
13	Z72752	Machine Nut, #10NF	8
14	Z72959	Rivet Nut, 3/8NC x 312	7
15	Z73161	SAE Washer, 5/8"	2
16	Z73171	SAE Washer, 3/4"	2
17	Z75203	FHCS, #10NF x 3/4"	4
18	Z78301	Machine Screw, 1/4NC x 3/4"	3

Rotor Interlock Latch



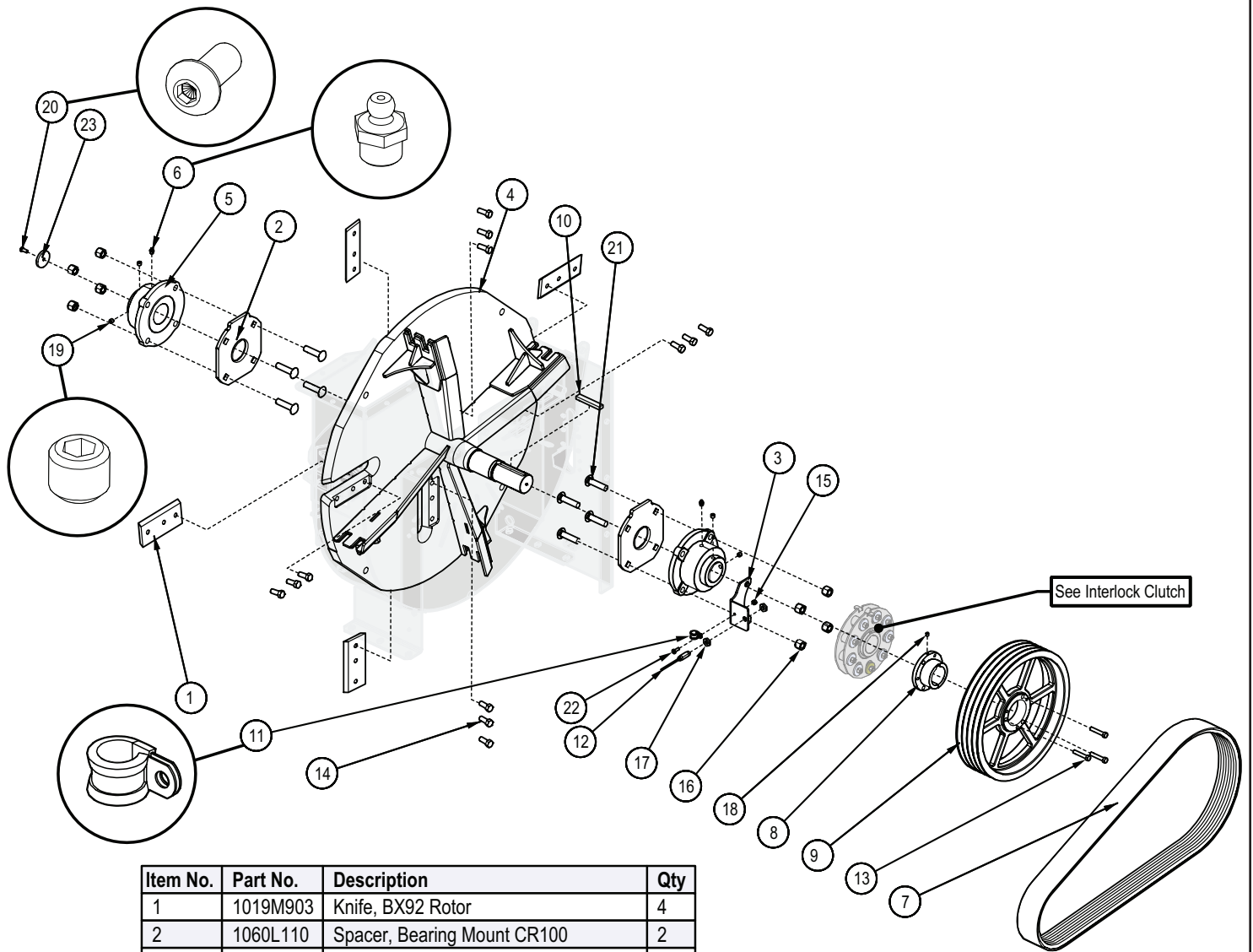
Item No.	Part No.	Description	Qty
1	1060W256	Interlock Engage Handle	1
2	1060L281	Interlock Handle Base LH	1
3	1060L281H	1060L281 Mirror	1
4	1060L282	Interlock Early Warning	1
5	1060L287	Rotor Hood Safety Latch	1
6	1060L328	Interlock Tip	1
7	1060L330	Linkage	1
8	1056M115	Spacer, Shredder .580	3
9	Z19321	Handle Grip, 1"	1
10	Z31401	Ext Spring, 3/4" OD x 4" x 0.105"	1
11	Z71112	Hex Bolt, 1/4NC x 1-1/4"	2
12	Z71312	Hex Bolt, 3/8NC x 1-1/4"	1
13	Z71315	Hex Bolt, 3/8NC x 1-1/2"	2
14	Z71317	Hex Bolt, 3/8NC x 1-3/4"	1
15	Z71622	Hex Bolt, 5/8NC x 2-1/4"	1
16	Z72211	Hex Lock Nut, 1/4NC	8
17	Z72221	Hex Lock Nut, 5/16NC	2
18	Z72231	Hex Lock Nut, 3/8NC	4
19	Z72261	Hex Lock Nut, 5/8NC	3
20	Z73131	SAE Washer, 3/8"	5
21	Z73161	SAE Washer, 5/8"	7
22	Z73171	SAE Washer, 3/4"	2
23	Z75572	Shoulder Bolt, 3/4" x 3/4"	2
24	Z76111	Flange Bolt, 1/4NC x 3/4"	6
25	Z76522	Eye Bolt, 5/16NC x 2"	1

Rotor Interlock Clutch



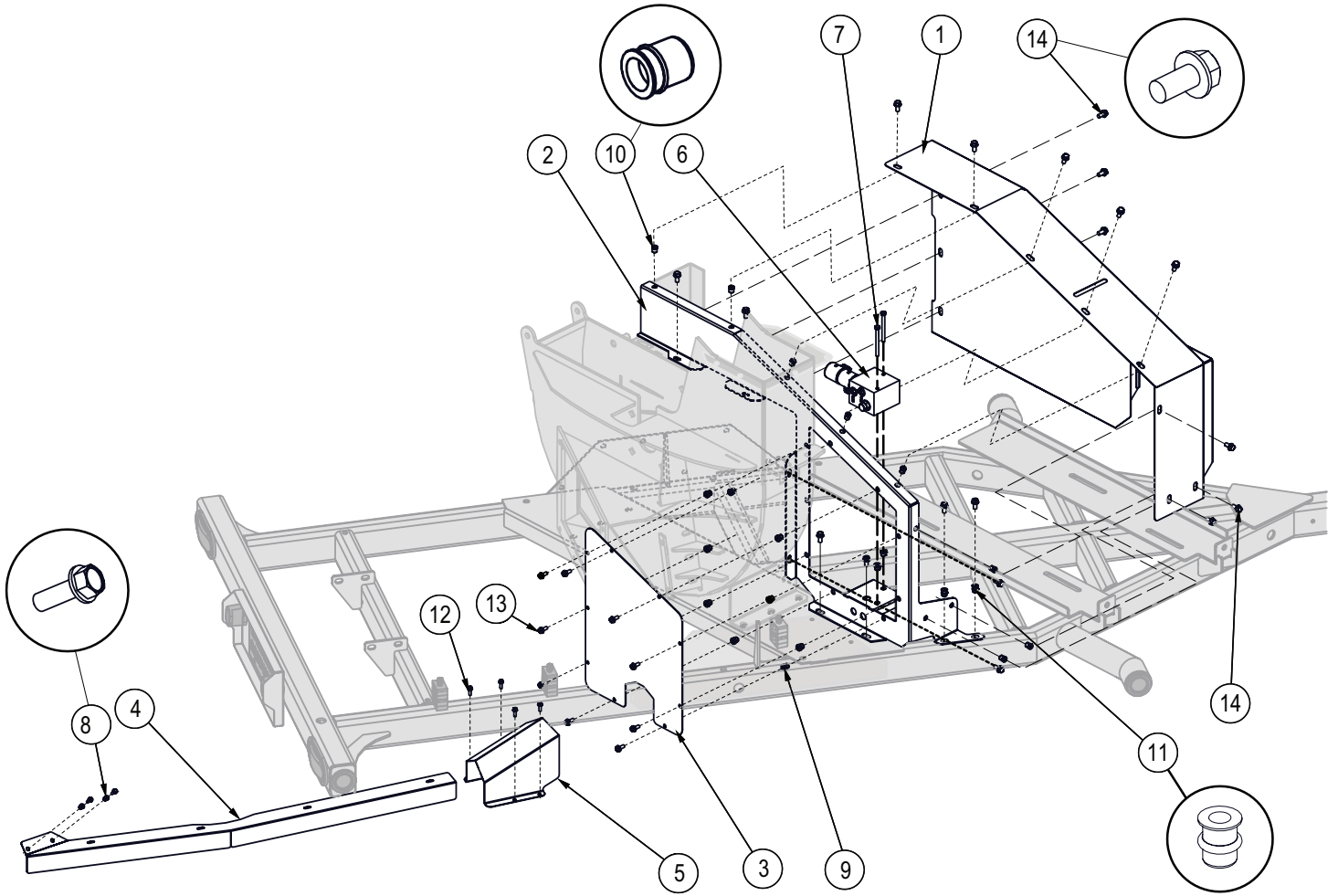
Item No.	Part No.	Description	Qty
1	1060M106	Interlock Roller	9
2	1060W255	Interlock Clutch	1
3	1060I279	Interlock Roller Head	18
4	Z32601	Die Spring, 1/2" x 1-1/2" Red	9
5	Z71378G8	Hex Bolt, 3/8NF x 2-1/2 Grade 8	9
6	Z72232G8	Hex Lock Nut 3/8NF Grade 8	9
7	Z74122	Set Screw, 5/16NF	1

Rotor Housing Assembly



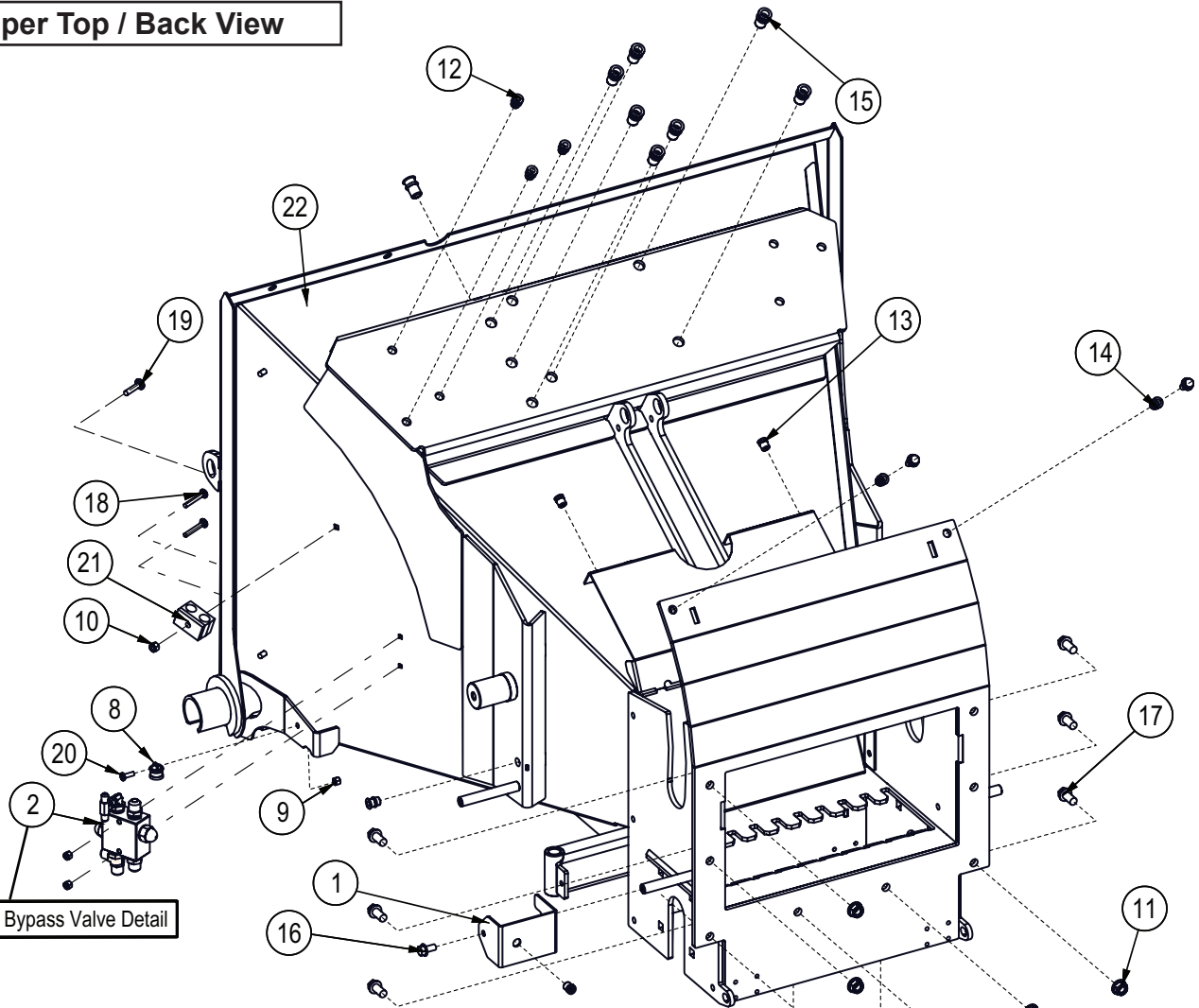
Item No.	Part No.	Description	Qty
1	1019M903	Knife, BX92 Rotor	4
2	1060L110	Spacer, Bearing Mount CR100	2
3	1060L231	Sensor Mounting Bracket, CR100	1
4	1060W101	Rotor, 10" Trailer	1
5	Z25210	Spherical Roller Flange Unit 2-7/16"	2
6	Z29201	Grease Fitting, 1/8NPT	2
7	Z41313	Quad "B" Belt x 80"	1
8	Z41519	Bushing, SF 2-1/4" KW5/8	1
9	Z41772	Sheave, 4B154	1
10	Z46598	Key, 3/8 x 5/8 x 3-1/2"	1
11	Z62819	Rubberized Wire Clamp, 1/2"	1
12	Z66210	IntelliFEED Pickup Sensor with 68" Lead	1
13	Z71320	Hex Bolt, 3/8NC x 2	3
14	Z71575G8	Hex Bolt, 1/2NF x 1-1/4 Gr8	12
15	Z72211	Hex Lock Nut, 1/4NC	1
16	Z72261G8	Hex Lock Nut, 5/8NC Grade 8	8
17	Z72357	Brass Jam Nut, 9/16-18NF	2
18	Z74121	Set Screw, 5/16NC	1
19	Z74141	Set Screw, 7/16NF x 3/8"	4
20	Z75351	BHCS, 5/16NF x 3/4	1
21	Z76264G8	Carriage Bolt, 5/8NC x 2-1/2 Grade 8	8
22	Z78301	Machine Screw, 1/4-20NC x 3/4	1
23	1021S102	Rotation Indicator Cover	1

Pulley Shroud



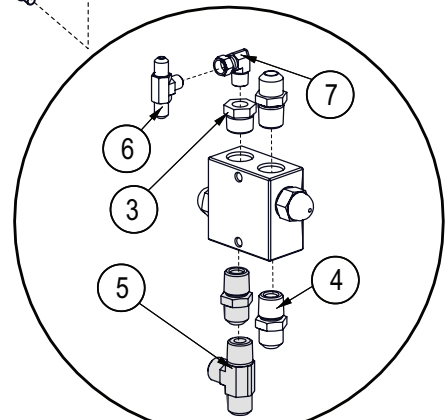
Item No.	Part No.	Description	Qty
1	1060W137	CR100 Belt Shiled	1
2	1060W128	Belt Shield SubPlate	1
3	1060L206	Pulley - Belt Access Cover	1
4	1060L316	Hose Cover	1
5	1060L317	Valve Guard	1
6	Z56508	Single Spool Valve, OC Tandem PROPSOL x 6GPM	1
7	Z71235	Hex Bolt, 5/16NC x 3-1/2"	2
8	Z72955	Rivet Nut, 1/4NC x 165	2
9	Z72956	Rivet Nut, 5/16NC x 150	11
10	Z72958	Rivet Nut, 3/8NC x 150	8
11	Z72959	Rivet Nut, 3/8NC x 312	2
12	Z76111	Flange Bolt, 1/4NC x 3/4"	6
13	Z76121	Flange Bolt, 5/16NC x 3/4"	9
14	Z76133	Flange Bolt, 3/8NC x 3/4"	19

Hopper Top / Back View



See Bypass Valve Detail

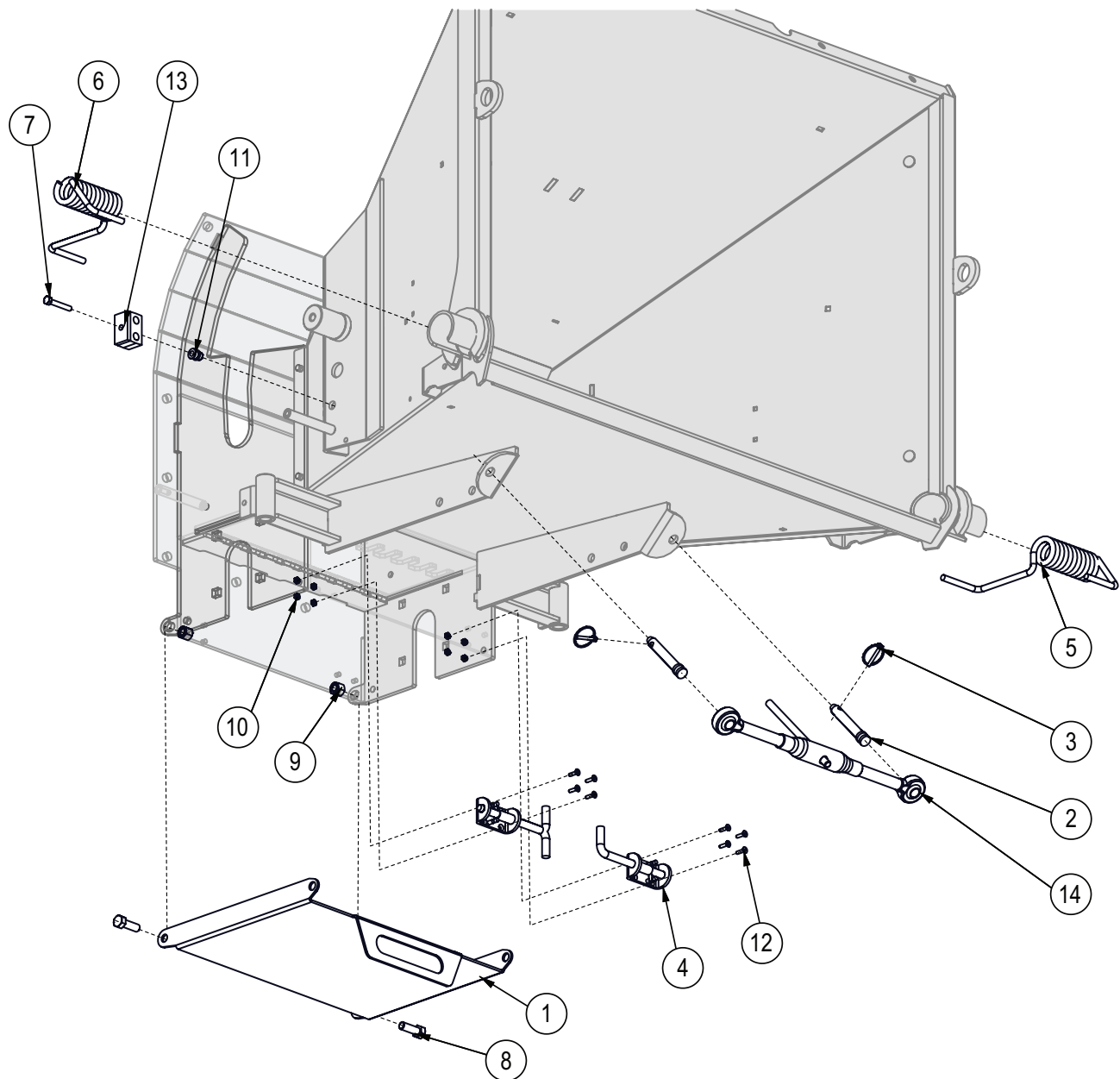
Item No.	Part No.	Description	Qty
1	1022L300	Bridge Guard Mount	1
2	Z56401	Crossover Relief Valve x 3000PSI	1
3	Z51222	Straight, MP x FP 0804	1
4	Z51442	Straight, MJIC x MP 0808	3
5	Z51487	Tee, MJIC x MP x MJIC 080808	1
6	Z51488	Tee, MJIC x MJIC x MJIC 040404	1
7	Z51522	Elbow 90, MP x FJICX 0404	1
8	Z62819	Rubberized Wire Clamp, 1/2"	1
9	Z72211	Hex Lock Nut, 1/4NC	3
10	Z72221	Hex Lock Nut, 5/16NC	1
11	Z72551	Serrated Flange Locknut, 1/2NC	6
12	Z72957	Rivet Nut, 5/16NC x 312	4
13	Z72958	Rivet Nut, 3/8NC x 150	3
14	Z72959	Rivet Nut, 3/8NC x 312	2
15	Z72961	Rivet Nut, 1/2NC x 350	8
16	Z76133	Flange Bolt, 3/8NC x 3/4"	3
17	Z76153	Flange Bolt, 1/2NC x 1"	8
18	Z76213	Carriage Bolt, 1/4NC x 2"	2
19	Z76224	Carriage Bolt, 5/16NC x 1-1/2"	1
20	Z78301	Machine Screw, 1/4NC x 3/4"	1
21	Z79463	Double Hose Clamp, 11/16" OD	1
22	See Note	CR100 Hopper with Option Platform	1



Bypass Valve Detail
 Note: Fitting ID #5 replaces ID #4 for Model CR100H & CR100HW

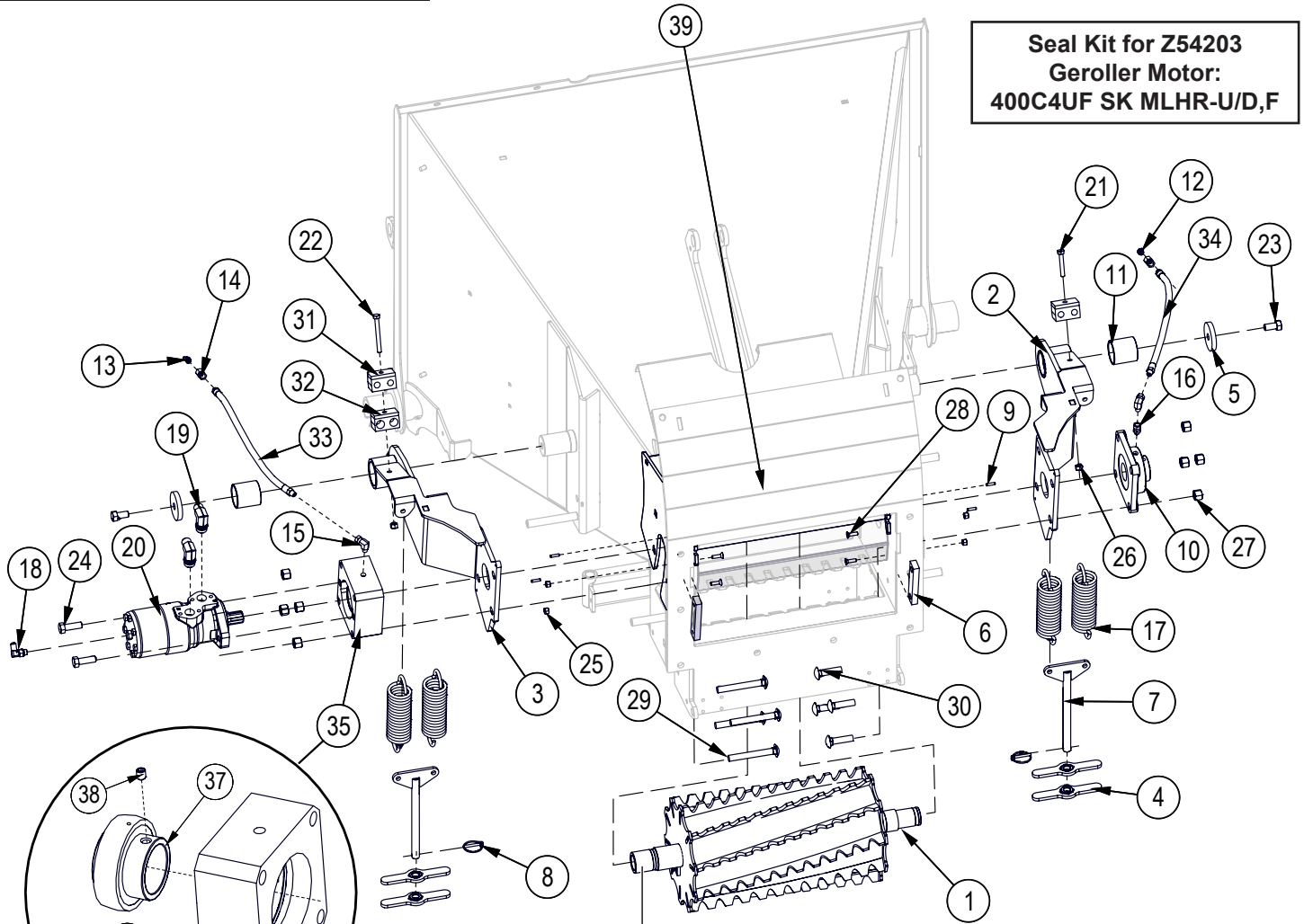
Note: Main Hopper ID #22
 CR100 requires 1060W262
 CR100H & CR100HW requires 1083W110

Hopper Front / Bottom View



Item No.	Part No.	Description	Qty
1	1060L139	Clean-out Tray, CR100	1
2	Z11111	Toplink Pin, 5/8" x 2-3/4"	2
3	Z12110	Lynch Pin, 3/16"	2
4	Z18207	Spring Latch Pin, 1/2" x 1" Stroke	2
5	Z33301	Tor Spring, 2" OD x 5" x 0.375" - RH	1
6	Z33302	Tor Spring, 2" OD x 5" x 0.375" - LH	1
7	Z71220	Hex Bolt, 5/16NC x 2"	1
8	Z71515	Hex Bolt, 1/2NC x 1-1/2"	2
9	Z72251	Hex Lock Nut, 1/2NC	2
10	Z72204	Hex Lock Nut, #10NF	8
11	Z72957	Rivet Nut, 5/16NC x 312	1
12	Z78316	Machine Screw, #10NF x 3/4"	8
13	Z79462	Double Hose Clamp, 1/2" OD	1
14	Z11501	Toplink, Cat 0 x 10-1/2" x 16"	1

Upper Roller



**Seal Kit for Z54203
Geroller Motor:
400C4UF SK MLHR-U/D,F**

Feed Bearing Assembly

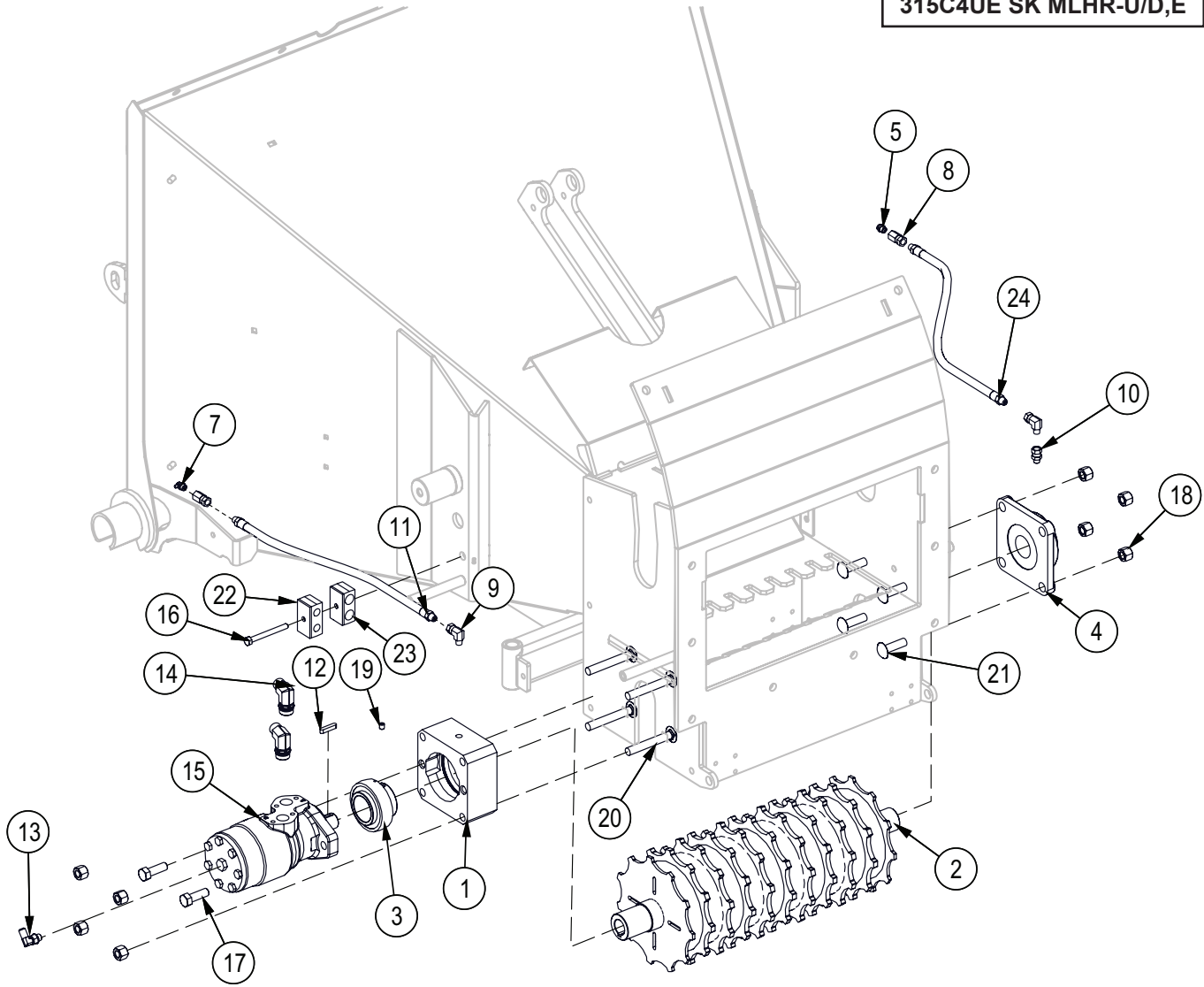
Note: Apply white lithium grease to motor shaft end on assembly.

Item No.	Part No.	Description	Qty
1	1060W311	Upper Feed Roller, Spiral	1
2	1060W303	Roller Pivot Arm LH	1
3	1060W303H	CR100 Roller Pivot Arm RH	1
4	1022W220	Nut Handle	4
5	1015L618	Capture Washer	2
6	1022S208	Rotor Hood Slide	2
7	1022W206	Spring Yoke	2
8	Z12110	Lynch Pin, 3/16"	2
9	Z14152	Roll Pin, 3/16" x 3/4"	4
10	Z25204	4-Bolt Flange Bearing, UCF208-24	1
11	Z27101	Fiberglide Bearing, 1-3/4" ID x 2" long x 1/8" wall	2
12	Z29204	Elbow 45 Grease Fitting, MP02	1
13	Z29207	Elbow 90 Grease Fitting, MP02	1
14	Z29302	Grease Fitting, FP x FPX 0202	2
15	Z29307	Elbow 90 Grease Fitting, MP x FPX 0202	2
16	Z29311	Grease Fitting, MP x FPX 0202	1
17	Z31501	Ext Spring, 2" OD x 7" x 0.250"	4
18	Z51657	Elbow 90, MJIC x MORB 0404	1
19	Z51658	Elbow 90, MJIC x MORB 0810	2
20	Z54203	Geroller Motor, 400CCR x 6B Spline	1

Item No.	Part No.	Description	Qty
21	Z71220	Hex Bolt, 5/16NC x 2"	1
22	Z71230	Hex Bolt, 5/16NC x 3"	1
23	Z71510	Hex Bolt, 1/2NC x 1"	2
24	Z71515	Hex Bolt, 1/2NC x 1-1/2"	2
25	Z72211	Hex Lock Nut, 1/4NC	4
26	Z72221	Hex Lock Nut, 5/16NC	2
27	Z72251	Hex Lock Nut, 1/2NC	8
28	Z75211	FHCS, 1/4NC x 7/8"	4
29	Z762511	Carriage Bolt, 1/2NC x 4"	4
30	Z76255	Carriage Bolt, 1/2NC x 2"	4
31	Z79462	Double Hose Clamp, 1/2" OD	2
32	Z79463	Double Hose Clamp, 11/16" OD	1
33	Z29312	1/4" Grease Whip, MP02 x MP02 x 13"	1
34	Z92312	1/4" Grease Whip, MP02 x MP02 x 13"	1
35	1022A205	Feed Bearing Assembly	1
36	1022M218	UC Motor Bearing Housing	1
37	Z21903	Ball Bearing, UC209-28 x Insert	1
38	Z74122	Set Screw, 5/16NF x 3/8"	1
39	1060W307	Bridge, Guard - CR100	1
	1060W308	Bridge, Guard - CR100H & CR100HW	1

Lower Roller

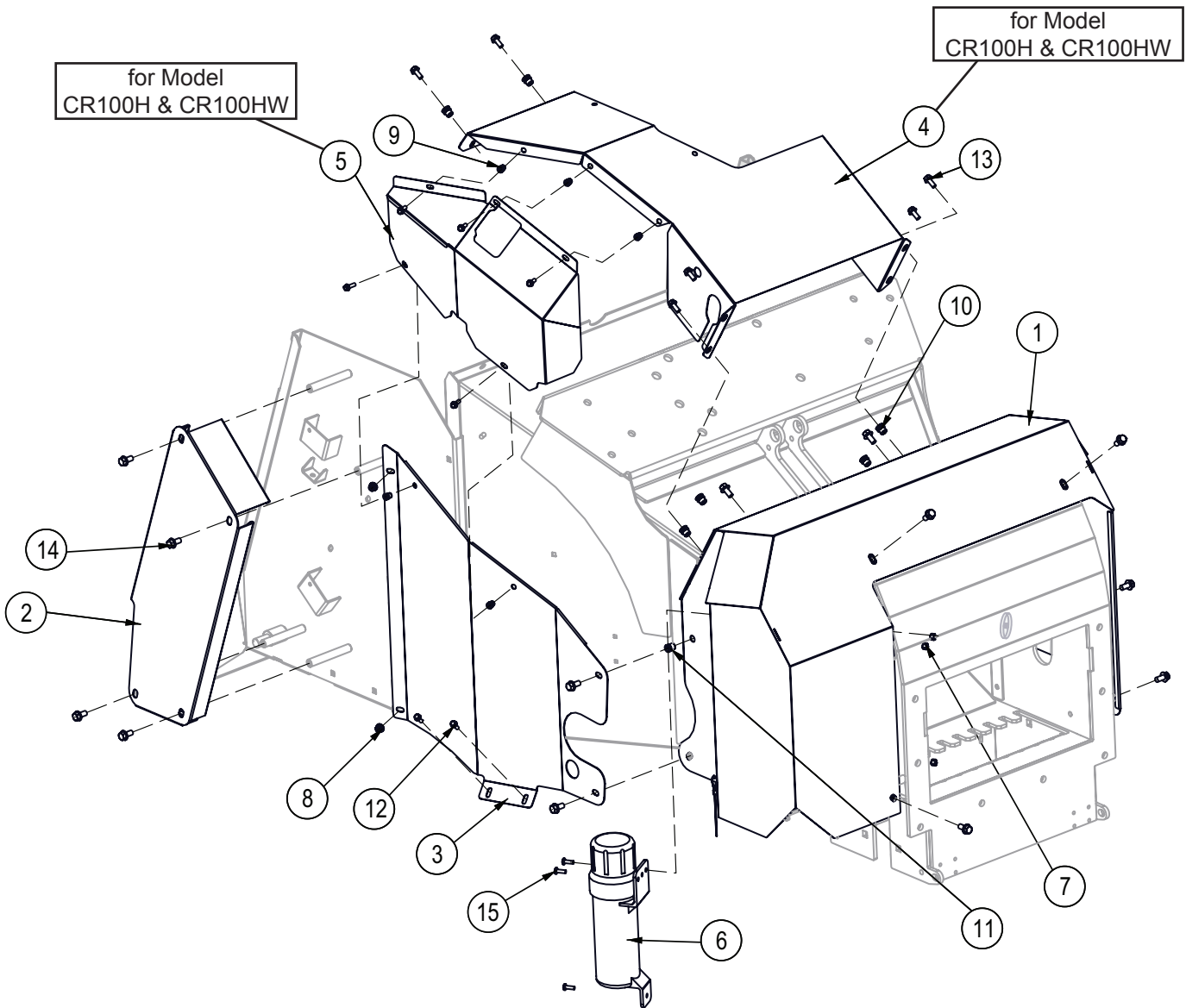
**Seal Kit for Z54201
Geroller Motor:
315C4UE SK MLHR-U/D,E**



Item No.	Part No.	Description	Qty
1	1022M218	UC Motor Bearing Housing	1
2	1022W205	Lower Feed Roll	1
3	Z21903	Ball Bearing Insert 1-3/4"	1
4	Z25204	4-Bolt Bearing 1-1/2" Bore	1
5	Z29204	Grease Fitting, 1/8NPT x 45	1
7	Z29207	Grease Zerk, MP02 x 90	1
8	Z29302	Straight, FP x FXP 0202	2
9	Z29307	Elbow 90 MP x FXP 0202	2
10	Z29311	Straight, MP x FXP 0202	1
11	Z29313b	1/4" Grease Whip, MP02 x MP02 x 16"	1
12	Z46594	Blind Chipper Key 1/4 x 1-1/4	1
13	Z51657	Elbow 90, MORB x MJIC 0404	1

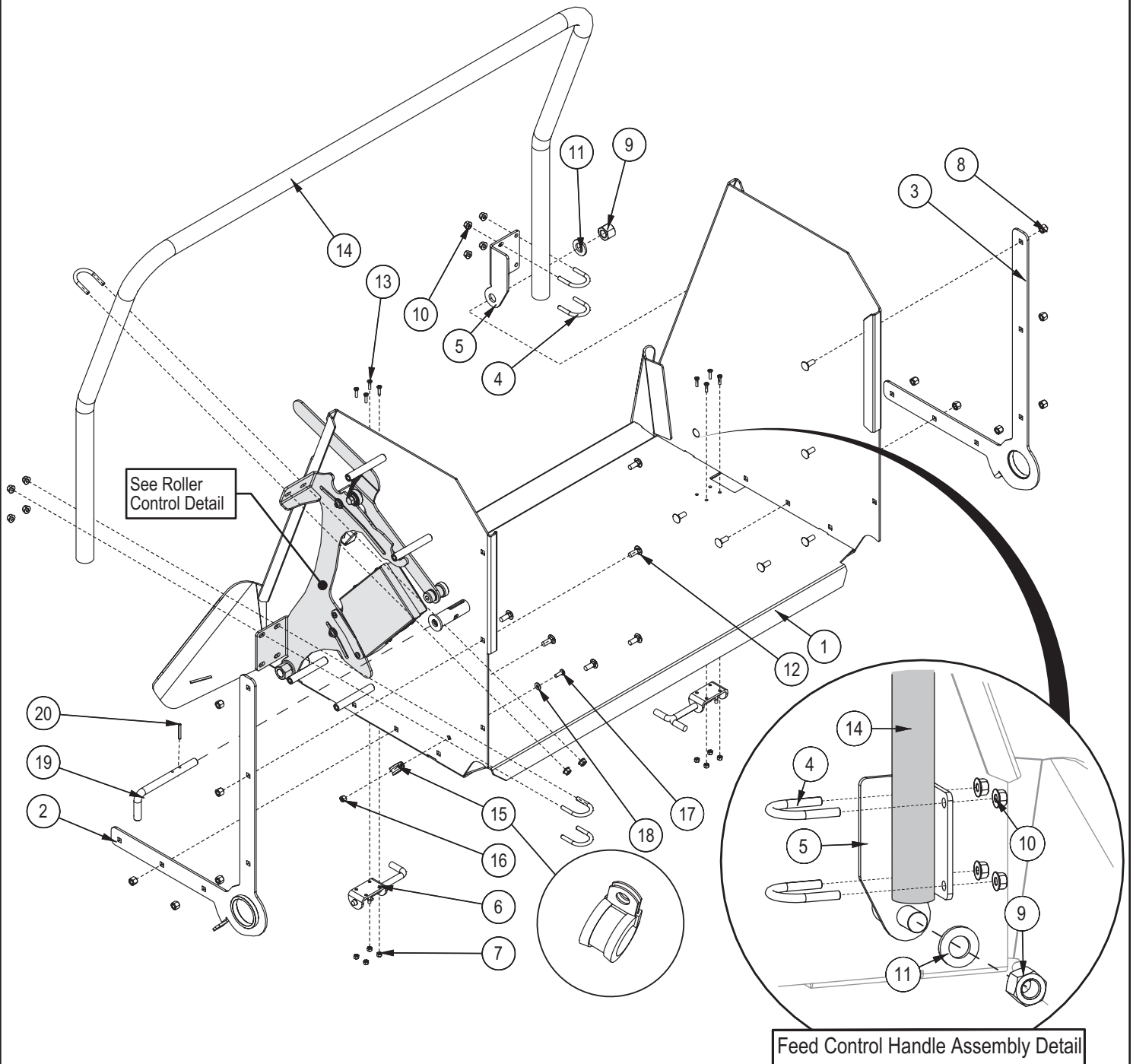
Item No.	Part No.	Description	Qty
14	Z51658	Elbow 90 MJIC x MORB 0810	2
15	Z54201	Geroller Motor, 315C4UE	1
16	Z71230	Hex Bolt, 5/16NC x 3	1
17	Z71515	Hex Bolt, 1/2NC x 1-1/2	2
18	Z72251	Hex Lock Nut, 1/2NC	8
19	Z74122	Set Screw, 5/16NF	1
20	Z762510	Carriage Bolt, 1/2NC x 3-1/2	4
21	Z76258	Carriage Bolt, 1/2NC x 1-3/4	4
22	Z79462	Double Hose Clamp 1/2"	1
23	Z79463	Double Hose Clamp 11/16"	1
24	Z92313b	1/4" Grease Whip, MP02 x MP02 x 16"	1

Hopper Roller Shrouding



Item No.	Part No.	Description	Qty
1	1060W122	CR100 Bridge Guard	1
2	1060L302	CR100 Feed Switch Guard	1
3	1060L318	Crossover Relief Guard	1
4	1083L107	CR100 Valve Guard	1
5	1083L110	Valve Cover Plate	1
6	Z96503	Manual Tube, 3-1/2" Short	1
7	Z72211	Hex Lock Nut, 1/4NC	3
8	Z72521	Serrated Flange Locknut, 5/16NC	2
9	Z72955	Rivet Nut, 1/4NC x 165	5
10	Z72956	Rivet Nut, 5/16NC x 150	6
11	Z72958	Rivet Nut, 3/8NC x 150	1
12	Z76111	Flange Bolt, 1/4NC x 3/4"	7
13	Z76121	Flange Bolt, 5/16NC x 3/4"	6
14	Z76133	Flange Bolt, 3/8NC x 3/4"	13
15	Z78301	Machine Screw, 1/4NC x 3/4"	3

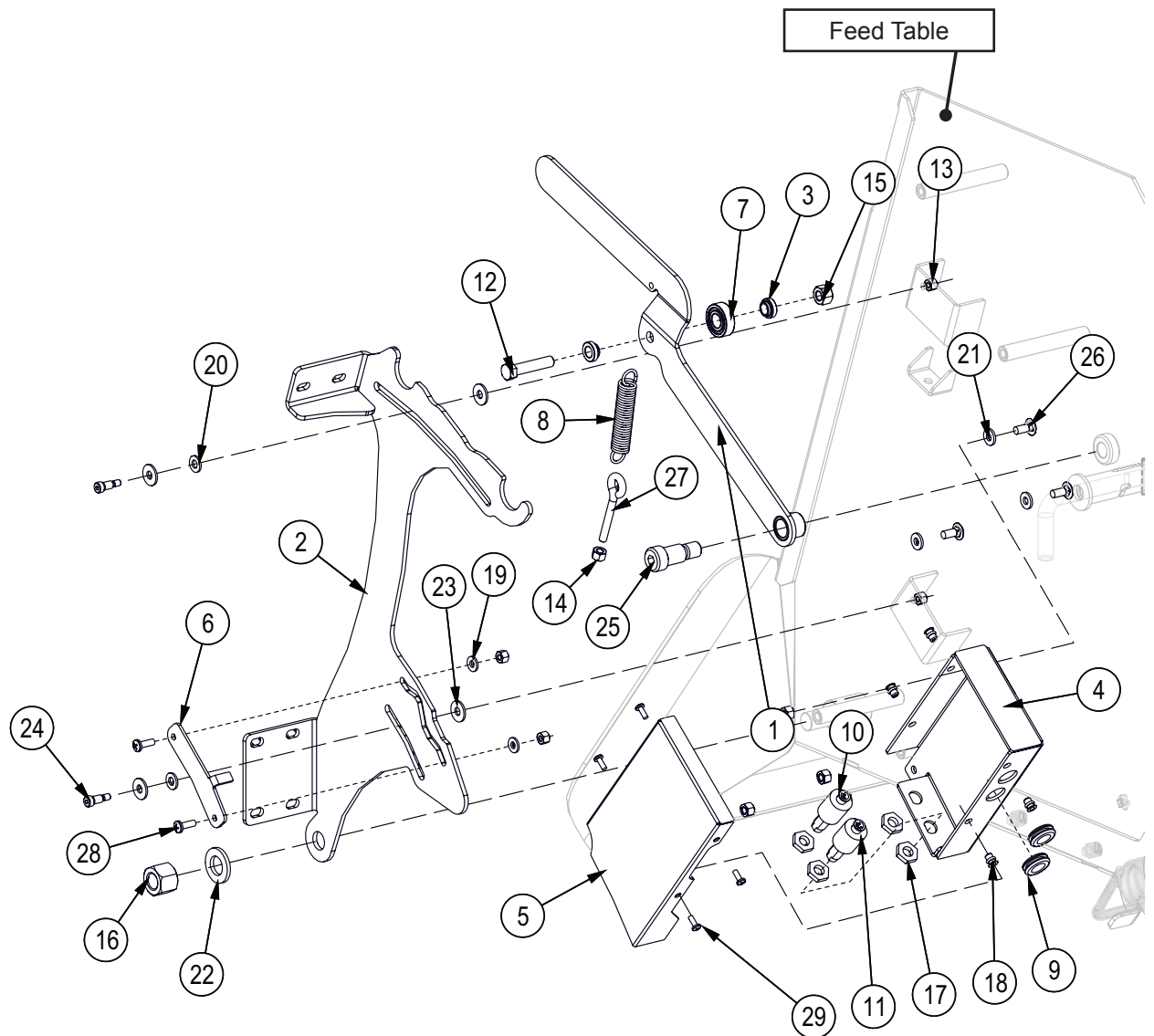
Feed Table



Item No.	Part No.	Description	Qty
1	1060W317	CR100 Feed Table	1
2	1022W230	Feed Table Trap Plate	1
3	1022W230H	Feed Table Trap, LH	1
4	1015S538	U-bolt, Bearing Adapter	5
5	1060L370	Feed Control Pivot, CR100	1
6	Z18207	Spring Latch Pin, 1/2" x 1" Stroke	2
7	Z72204	Hex Lock Nut, #10NF	8
8	Z72231	Hex Lock Nut, 3/8NC	12
9	Z72271	Hex Lock Nut, 3/4NC	1
10	Z72521	Serrated Flange Locknut, 5/16NC	10

Item No.	Part No.	Description	Qty
11	Z73171	SAE Washer, 3/4"	1
12	Z76231	Carriage Bolt, 3/8NC x 1"	12
13	Z78316	Machine Screw, #10NF x 3/4"	8
14	1022S272	Feed Control Handle	1
15	Z62819	Rubberized Wire Clamp, 1/2"	1
16	Z72211	Hex Lock Nut, 1/4NC	1
17	Z78301	Machine Screw, 1/4NC x 3/4"	1
18	Z73111	SAE Washer, 1/4"	1
19	1061M108	L Handled Plunger, Compact	1
20	Z14151	Roll Pin, 3/16" x 1-1/2"	1

Feed Roller Control Detail



Item No.	Part No.	Description	Qty
1	1060W302	Detent Reset, CR100	1
2	1060L369	CR100 Control Base Pivot Link	1
3	1015M537	Bushing, Bearing	2
4	1060L301	Switch Mount Plate, CR100	1
5	1060L303	Sensor Box Lid, CR100	1
6	1060L304	Feed Pickup Trigger, CR100	1
7	Z21203	Ball Bearing, 6202-2RS	1
8	Z31401	Ext Spring, 3/4" OD x 4" x 0.105"	1
9	Z62823	Rubber Grommet, 5/8" x 1/8"	2
10	Z64403	Proximity Switch, 5A x NO x Sourcing	1
11	Z64405	Proximity Switch, 5A x NO x Sinking	1
12	Z71420	Hex Bolt, 7/16NC x 2"	1
13	Z72211	Hex Lock Nut, 1/4NC	4
14	Z72221	Hex Lock Nut, 5/16NC	4
15	Z72241	Hex Lock Nut, 7/16NC	1

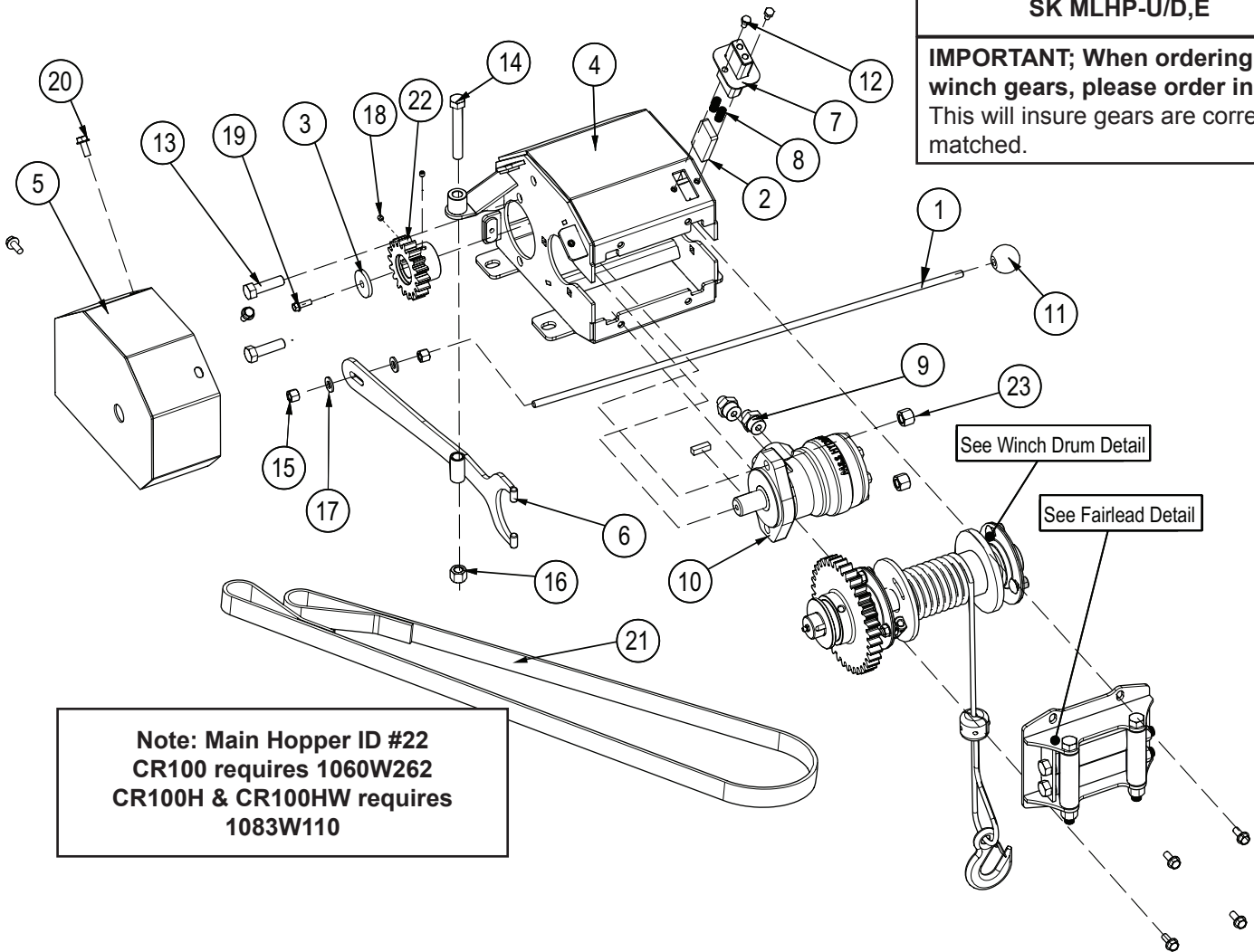
Item No.	Part No.	Description	Qty
16	Z72271	Hex Lock Nut, 3/4NC	1
17	Z72357	Brass Jam Nut, 9/16NF	4
18	Z72954	Rivet Nut, #10NC x 130	4
19	Z73111	SAE Washer, 1/4"	2
20	Z73122	SAE Washer, 5/16"	2
21	Z73123	Rubber Washer, 5/16" x 0.093"	3
22	Z73171	SAE Washer, 3/4"	1
23	Z73222	PTFE Washer, 5/16 x 0.080"	4
24	Z75522	Shoulder Bolt, 5/16" x 1/2"	2
25	Z75574	Shoulder Bolt, 3/4" x 1"	1
26	Z76221	Carriage Bolt, 5/16NC x 3/4"	3
27	Z76522	Eye Bolt, 5/16NC x 2"	1
28	Z78301	Machine Screw, 1/4NC x 3/4"	2
29	Z78303	Machine Screw, #10NF x 1/2"	4

Winch

for Model CR100HW

**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.



**Note: Main Hopper ID #22
CR100 requires 1060W262
CR100H & CR100HW requires
1083W110**

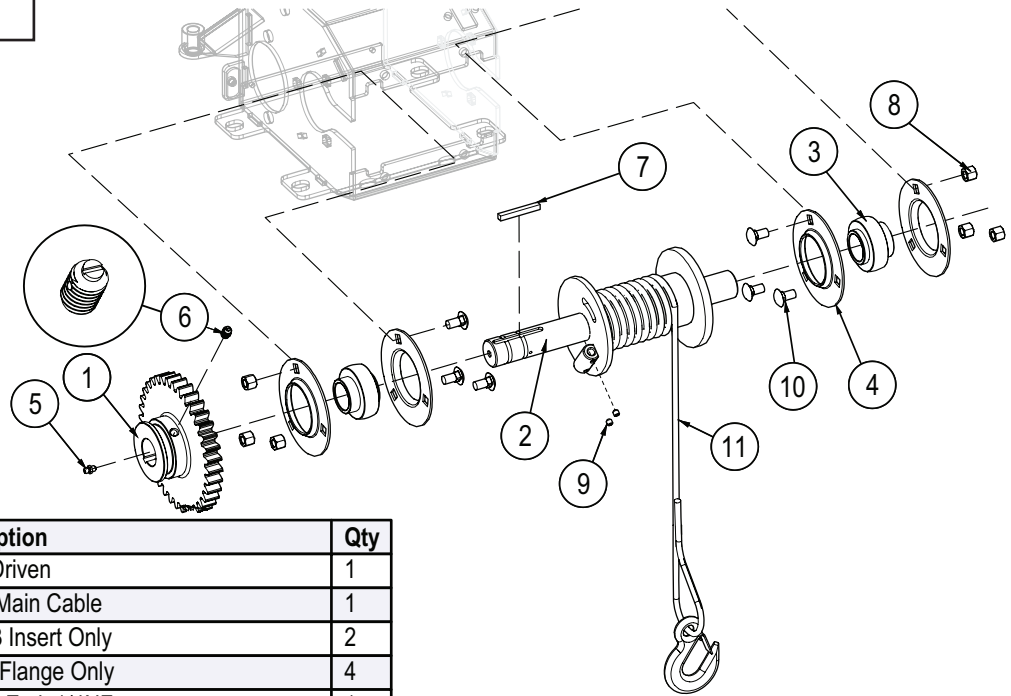
See Winch Drum Detail

See Fairlead Detail

Item No.	Part No.	Description	Qty
1	1083M203	Winch Control Rod	1
2	5012M204	Block, Drum Brake	1
3	5081L114	Washer, Motor Shaft	1
4	5081W102	Housing, Winch	1
5	5081W111	Shield	1
6	5081W112	Handle, Winch Clutch	1
7	5081W114	Holder, Brake Pad	1
8	Z32201	Comp Spring, 10mm OD x 64mm x 0.0475"	2
9	Z51645	Straight, MJIC x MORB 0610	2
10	Z54108	Hydraulic Motor, 50CCR	1
11	Z56914	Handle Kit, Knob	1
12	Z71105	Hex Bolt, 1/4NC x 1/2"	2

Item No.	Part No.	Description	Qty
13	Z71517	Hex Bolt, 1/2NC x 1-3/4"	2
14	Z71535	Hex Bolt, 1/2NC x 3-1/2"	1
15	Z72231	Hex Lock Nut, 3/8NC	2
16	Z72251	Hex Lock Nut, 1/2NC	1
17	Z73131	SAE Washer, 3/8"	2
18	Z74111	Set Screw, 1/4NC x 1/4"	2
19	Z76111	Flange Bolt, 1/4NC x 3/4"	1
20	Z76121	Flange Bolt, 5/16NC x 3/4"	7
21	Z92405	60" Winching Strap	1
22	5081M126	Drive Gear Hub	1
492	Z72551	Serrated Flange LockNut, 1/2NC	2

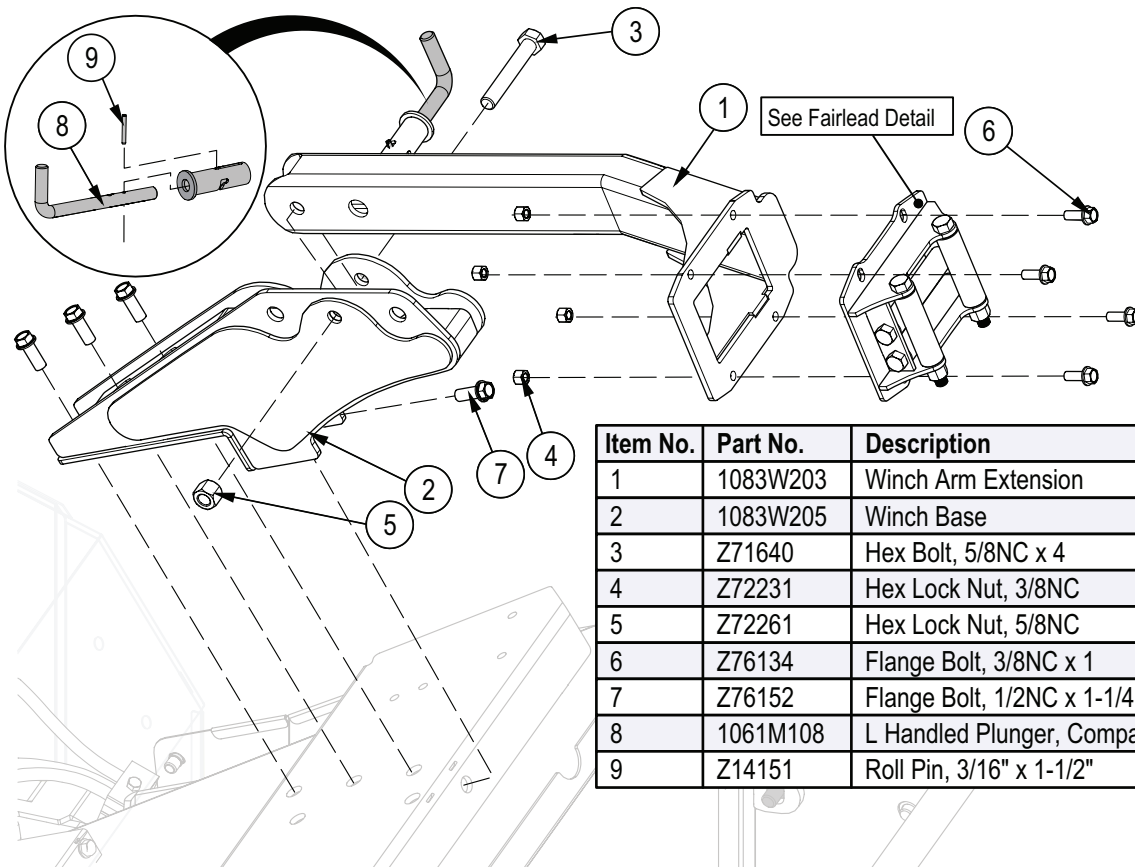
Winch Drum - Detail



Item No.	Part No.	Description	Qty
1	5081M125	Gear, Driven	1
2	5081W121	Drum, Main Cable	1
3	Z25207	Z25203 Insert Only	2
4	Z25301	PF206 Flange Only	4
5	Z29202	Grease Zerk 1/4NF	1
6	Z34302	Spring Plunger, 3/8NC x 5/8" x 21 lbs	1
7	Z46531	Key, 1/4 x 1/4 x 2	1
8	Z72231	Hex Lock Nut, 3/8NC	6
9	Z74113	Set Screw, 1/4NC x 1/2"	2
10	Z76233	Carriage Bolt, 3/8NC x 3/4"	6
11	Z92112	Synthetic Winch Rope 1/4 x 50' with Hook	1

Winch Arm Assembly

for Model CR100HW

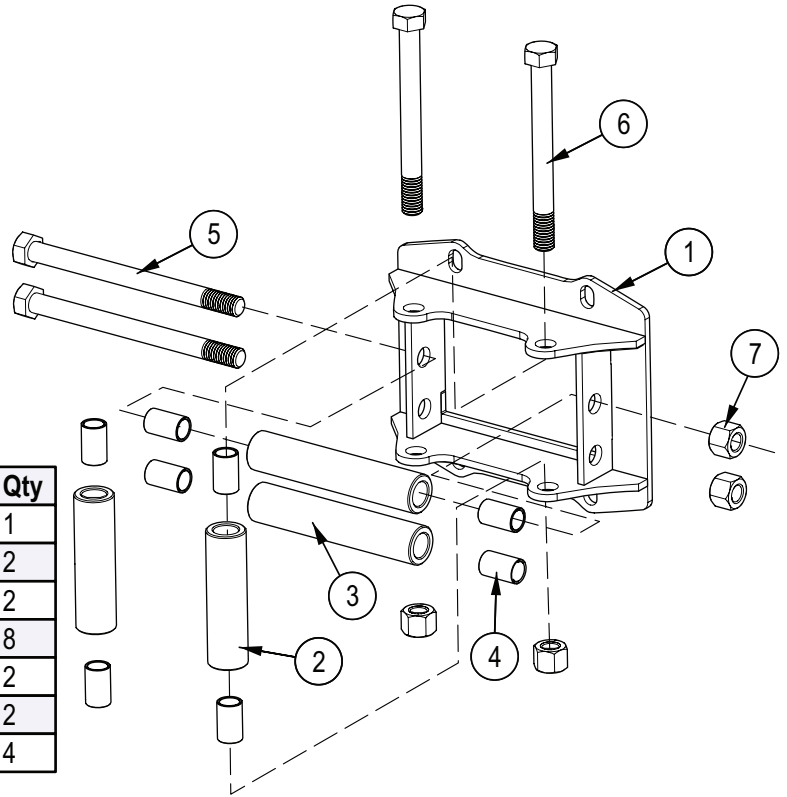


Item No.	Part No.	Description	Qty
1	1083W203	Winch Arm Extension	1
2	1083W205	Winch Base	1
3	Z71640	Hex Bolt, 5/8NC x 4	1
4	Z72231	Hex Lock Nut, 3/8NC	4
5	Z72261	Hex Lock Nut, 5/8NC	1
6	Z76134	Flange Bolt, 3/8NC x 1	4
7	Z76152	Flange Bolt, 1/2NC x 1-1/4	3
8	1061M108	L Handled Plunger, Compact	1
9	Z14151	Roll Pin, 3/16" x 1-1/2"	1

Fairlead Assembly Detail

for Model CR100HW

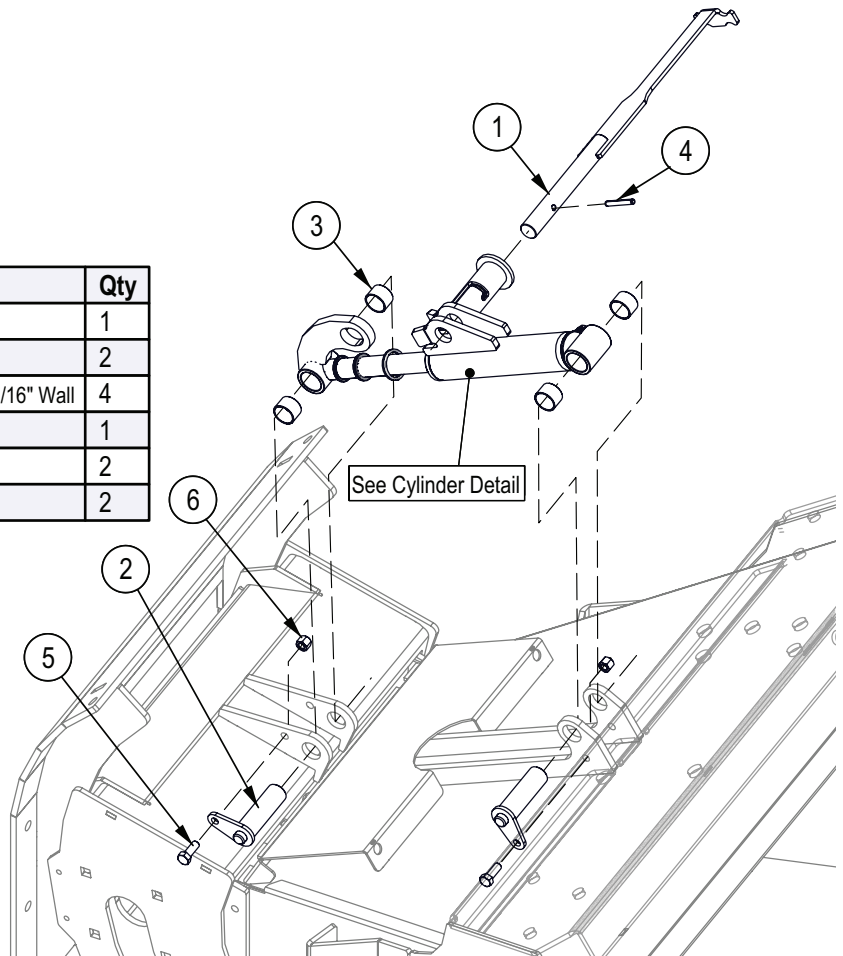
Item	Part No.	Description	Qty
1	5081W103	Bracket, Fairlead	1
2	5081M109	Bushing, Fairlead Side	2
3	5081M111	Bushing, Fairlead Top	2
4	Z27103	Fiberglide Bearing 1/2" x 1"	8
5	Z71566	Hex Bolt, 1/2NC x 6-1/4, 5-1/4 Shank	2
251	Z71567	Hex Bolt, 1/2NC x 5, 4" Shank	2
252	Z72251	Hex Lock Nut, 1/2NC	4



Roller Lift Hydraulic Cylinder

for Model CR100H & CR100HW

Item No.	Part No.	Description	Qty
1	1083W112	Locking Pin, CR100 Hood	1
2	1083W105	Cylinder Pin, CR100 Lift	2
3	Z27106	Fiberglide Bearing, 1" ID x 3/4" long x 1/16" Wall	4
4	Z14172	Roll Pin, 1/4" x 1-3/4"	1
5	Z71310	Hex Bolt, 3/8NC x 1"	2
6	Z72231	Hex Lock Nut, 3/8NC	2

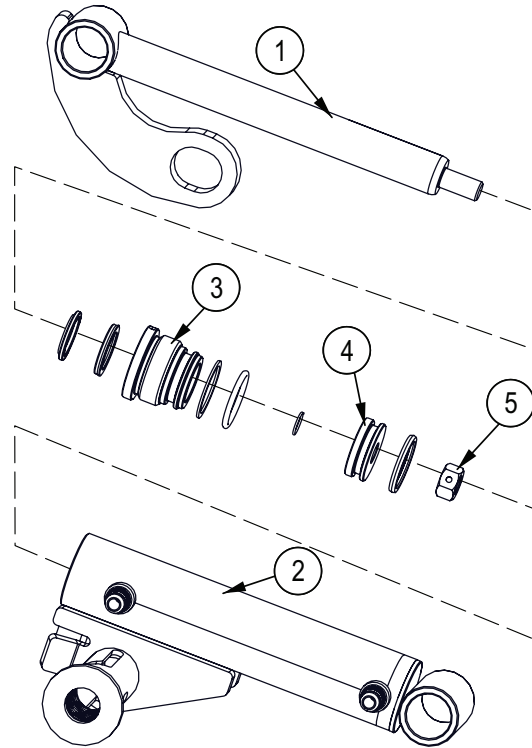


Roller Lift Hydraulic Cylinder - Detail

for Model CR100H & CR100HW

Seal Kit #SLK-1510AN

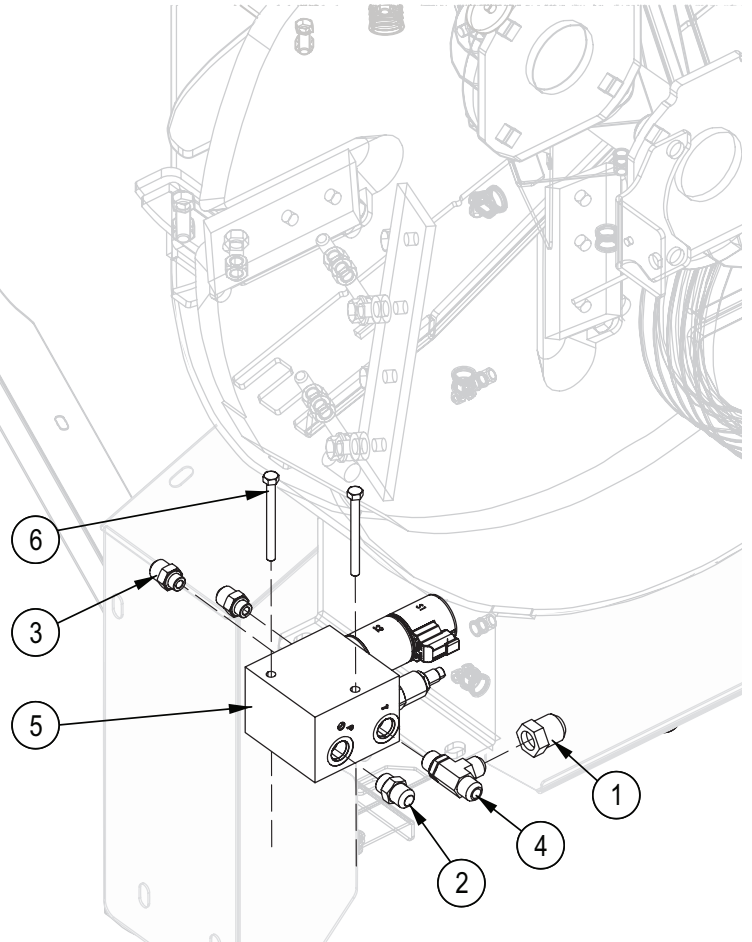
Item No.	Part No.	Description	Qty
1	1083C1063	Rod, 1x3/4	1
2	1083C1064	Barrel, 1-1/2" Bore	1
3	G150-100S	Gland, 1-1/2" x 1"	1
4	P500-150SP	Piston, 1-1/2" Bore	1
5	Z72254	Hex CTR-lock Nut, 1/2NF	1



Intellifeed Module Assembly

for Model CR100H & CR100HW

Item No.	Part No.	Description	Qty
1	Z51498	Straight, FJIC x MJIC 0812	1
2	Z51643	#8ORB x #8JIC	1
3	Z51649	Straight, MJIC x MORB 0806	2
4	Z51673	Tee, MJIC x MORB x MJIC 080808	1
5	Z56508	CR IntelliFEED Manifold 6gpm	1
6	Z71235	Hex Bolt, 5/16NC x 3-1/2	2

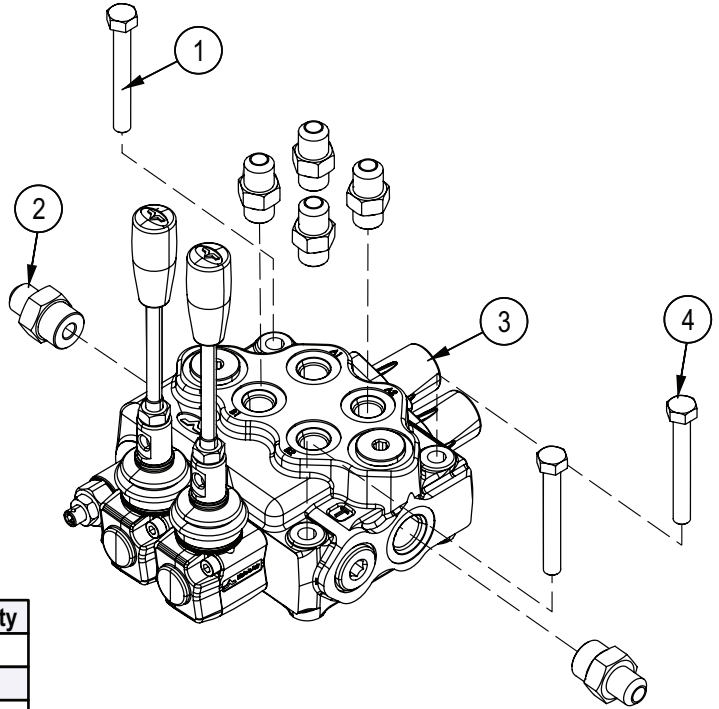


Roller Lift Hydraulic Controls

for Model CR100H & CR100HW

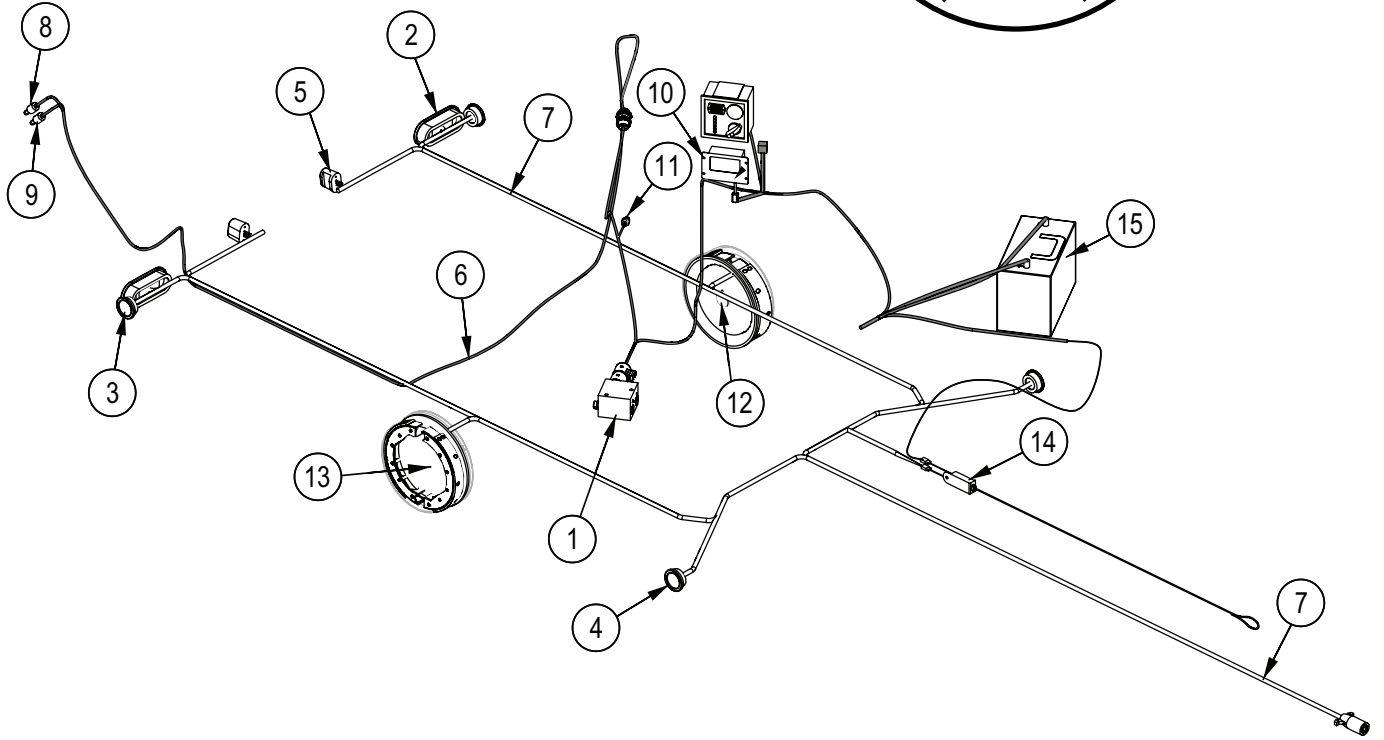
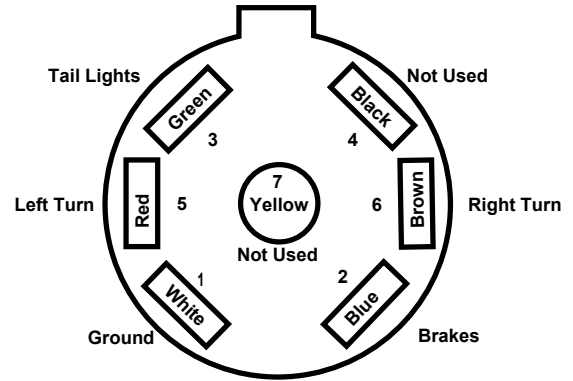
Seal and Replacement Kits

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



Item No.	Part No.	Description	Qty
1	Z51641	#6ORB x #6JIC	4
2	Z51644	Straight, MJIC x MORB 0608	2
3	Z56218	Two Spool Valve, VC x 12GPM	1
4	Z71225	Hex Bolt, 5/16NC x 2-1/2"	3

IntelliFeed Wiring Harness & Lights and Brakes Wiring Harness

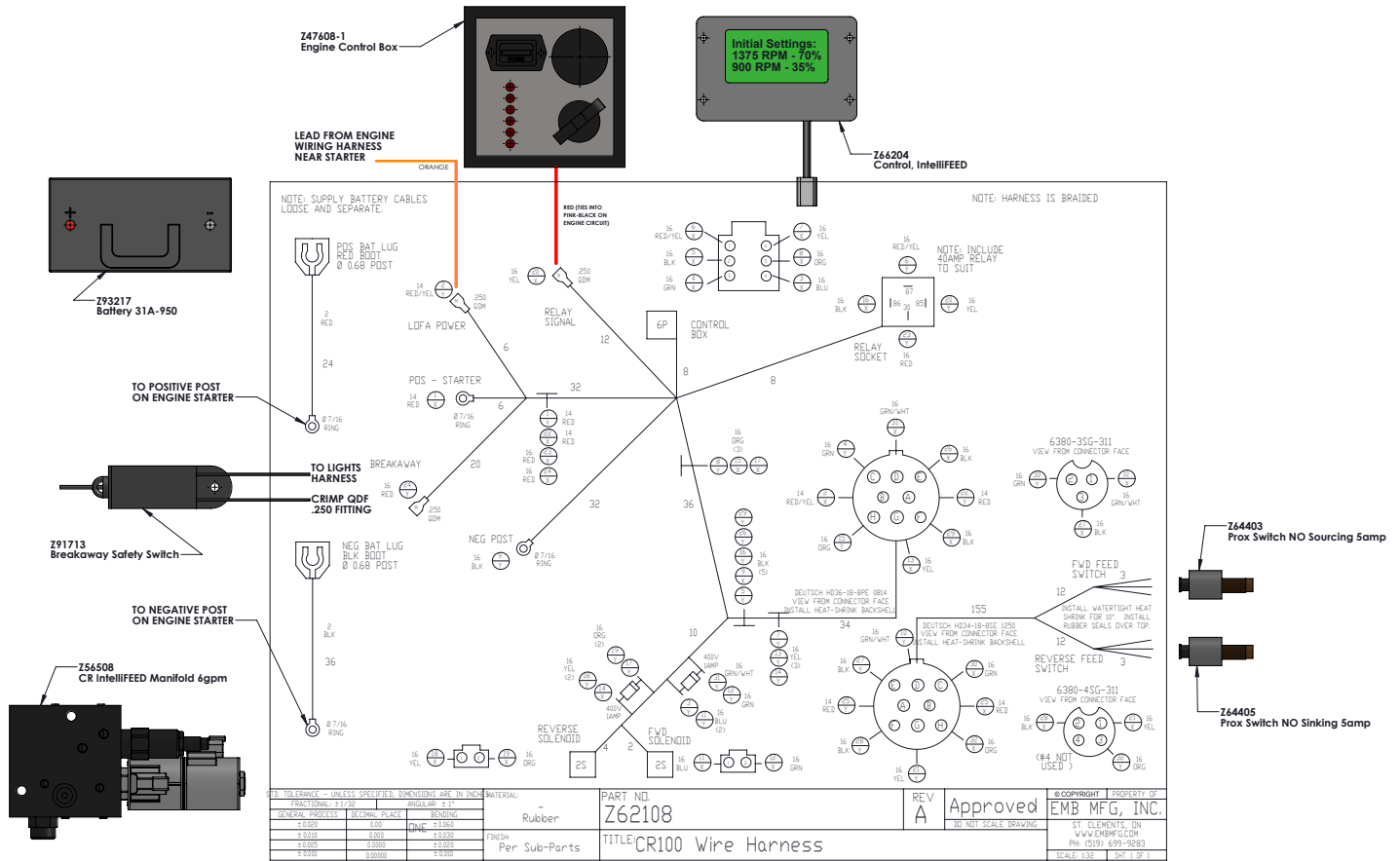


Item No.	Part No.	Description	Qty
1	Z56508	CR IntelliFEED Manifold 6gpm	1
2	Z61102	Oval Light 2-1/4 x 6-1/4, Red	2
3	Z61201	Round Marker Lamp 2" Red	2
4	Z61205	Round Marker Lamp 2" Amber	2
5	Z61301	License Lamp	2
6	Z62108	CR100 Wire Harness	1
7	Z62110	CR100 Lights & Brakes Harness	1
8	Z64403	Prox Switch NO Sourcing 5amp	1
9	Z64405	Prox Switch NO Sinking 5amp	1
10	Z66204	Control, IntelliFEED	1
11	Z66210	IntelliFEED Pickup Sensor with 68" Lead	1
12	Z91702	Electric Brake, 2x12 LH	1
13	Z91712	Electric Brake, 2x12 RH	1
14	Z91713	Breakaway Safety Switch	1
15	Z93217	Battery 31A-950	1

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

IntelliFEED Wiring Diagram #Z62108

CR100 LOGIC WIRING HARNESS INSTALLATION



Hydraulic Hose 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 Plumbing Diagrams on the following pages.

PART NUMBER	DESCRIPTION	QTY	MODEL
Z52121	1/4"Hose, FJIC06 x 90FJIC06 x 28"	2	CR100HW
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 & CR100HW
Z52136	1/4"Hose, FJIC06 x 90FJIC06 x 23"	1	CR100H & CR100HW
Z52250	3/8"Hose, FJIC08 x 90FJIC08 x 23"	1	All Models
Z52251	3/8"Hose, FJIC08 x 90FJIC08 x 21"	1	CR100H & CR100HW
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 & CR100HW
Z52278	3/8"Hose, FJIC08 x 45FJIC06 x 27"	1	CR100H & CR100HW
Z52279	3/8"Hose, FJIC08 x 90FJIC08 x 44"	1	CR100H & CR100HW
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 Plumbing Diagram CR100

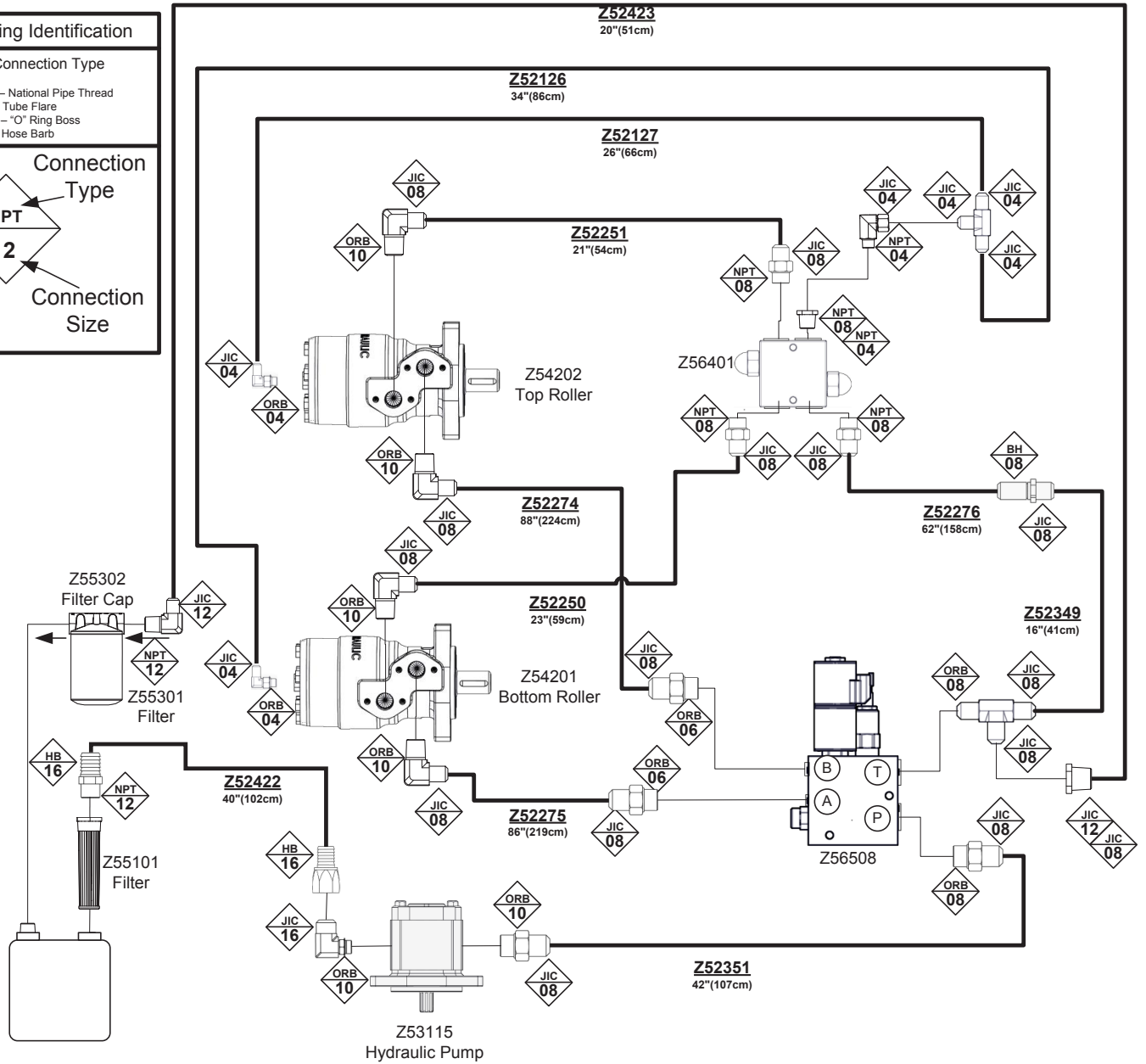
Fitting Identification

Connection Type

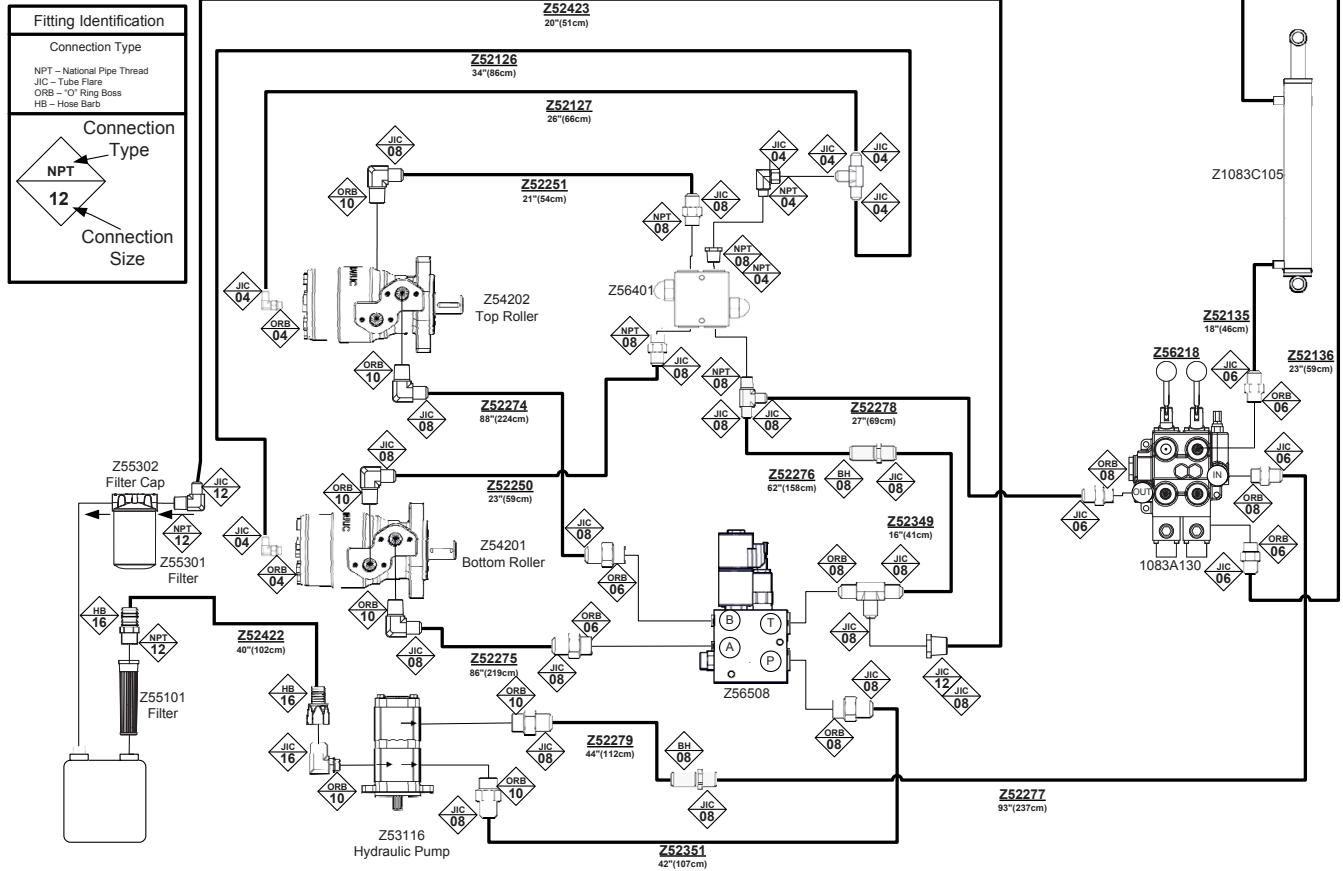
NPT – National Pipe Thread
 JIC – Tube Flare
 ORB – "O" Ring Boss
 HB – Hose Barb

Connection Type

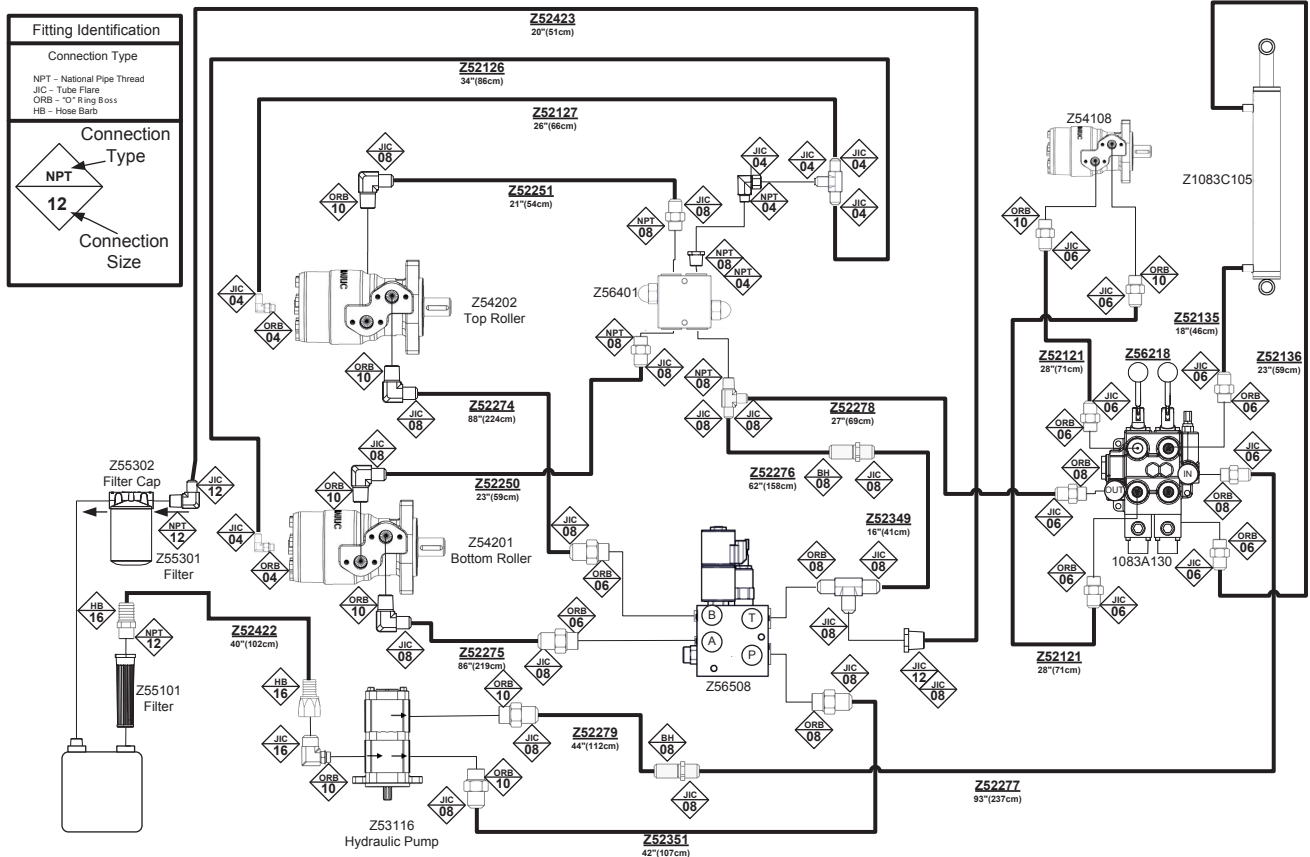
Connection Size



Hydraulic Plumbing Diagram CR100H



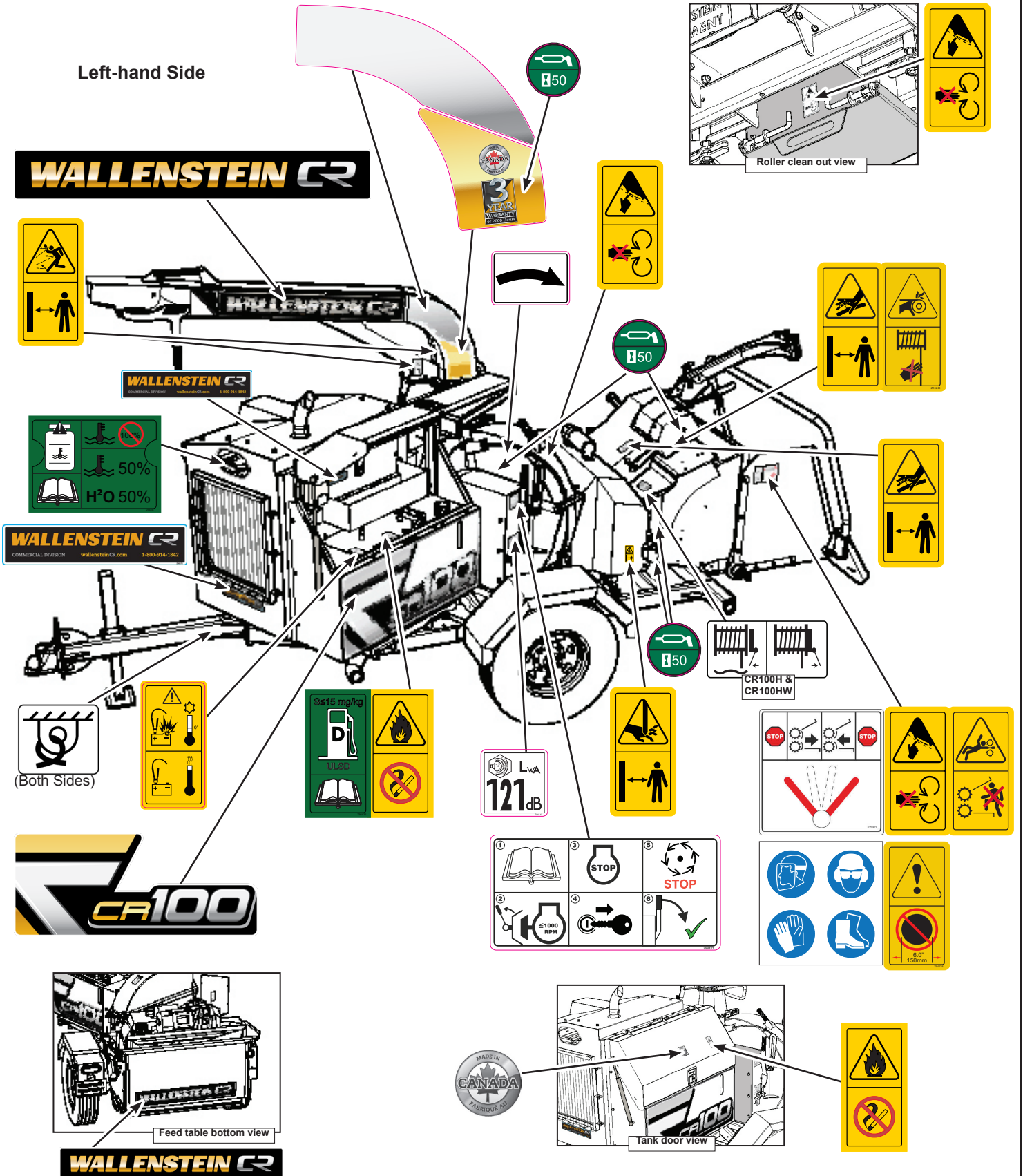
Hydraulic Plumbing Diagram CR100HW



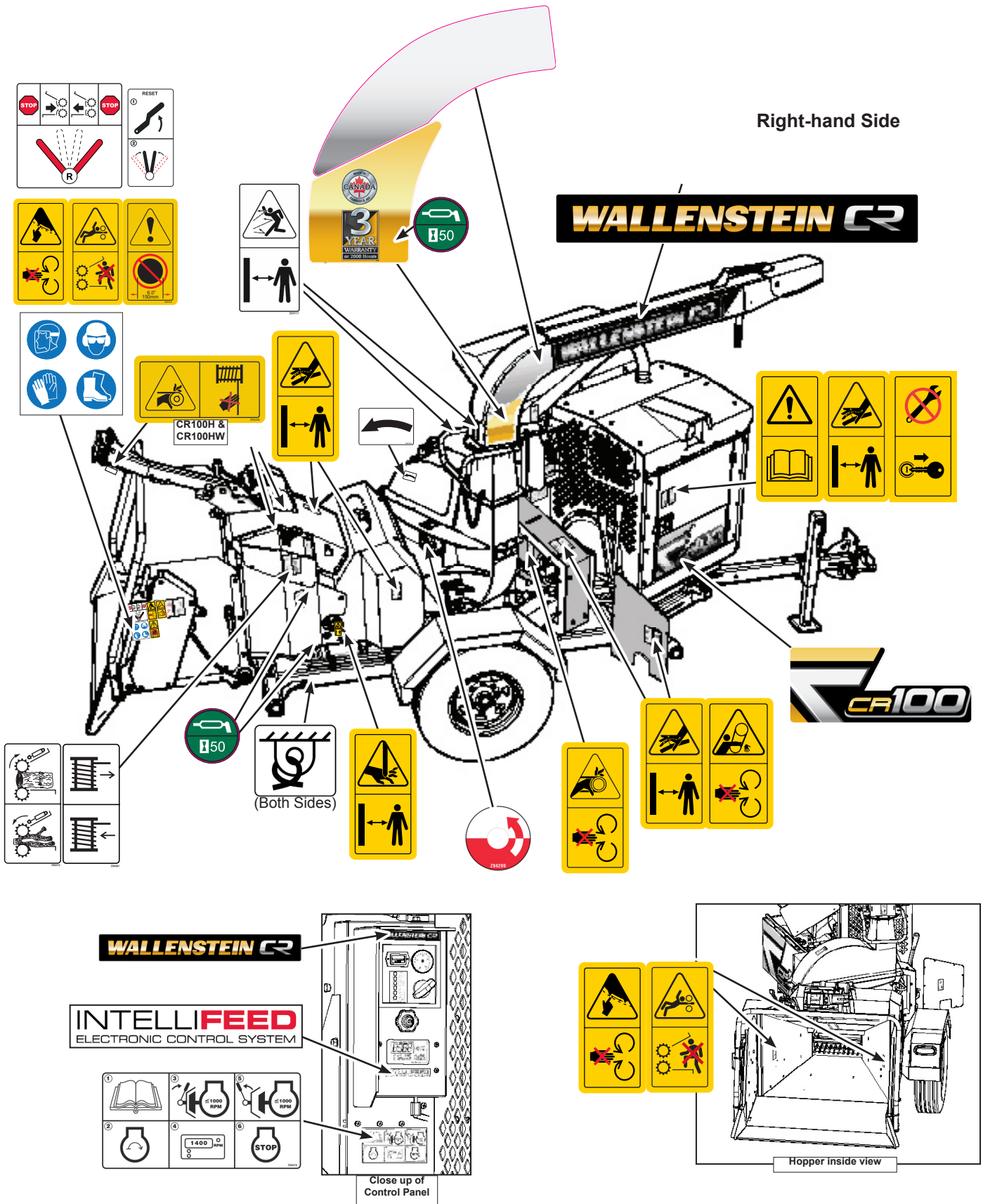
Decal Layout

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

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

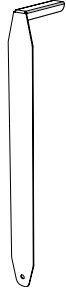


Decal Layout



Accessories

Call your dealer for pricing and availability



Ledger Clearance Setting Gauge

P/N 1012L269

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


Common Bolt Torque Values

Checking Bolt Torque

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

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

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

 **NOTE:** Bolt grades are identified by their head markings.

Imperial Bolt Torque Specifications

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



SAE Gr. 2



SAE Gr. 5



SAE Gr. 8

Metric Bolt Torque Specifications

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



8.8



10.9

Hydraulic Fitting Torque Values

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	
		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 Values

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

