



FERTILIZER APPLICATION EQUIPMENT

L1230 Lime/Fertilizer Spreader

Parts Book (Originating w/Serial Number 91-111)



Model Number: _____
Serial Number: _____
Date of Purchase: _____

LOFTNESS ™

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Ordering Code

L1230 Spreader (Example)

The ordering code will consist of a letter with four numbers (*Model*), one number or letter (*Spread Width*), one letter or number (*Tire Size*), one letter (*Apron Drive*), one letter (*Spinner Drive*), one number or letter (*Strut, Steering, Scale Options*), and one or more letters or numbers (*Machine Options*). An example of a lime/fertilizer spreader ordering code is shown below.

Example: **L123084TC9.TIML**

A
B
C
D
E
F
G

A MODEL

L1230 = 12 Ton Lime/Fertilizer Spreader

B SPREAD WIDTH

4 = 40 ft. Driving Interval
 5 = 50 ft. Driving Interval
 6 = 60 ft. Driving Interval
 8 = 80 ft. Driving Interval
 A = 88 ft. Driving Interval
 9 = 90 ft. Driving Interval

C TIRE SIZE

K = 14L-16.1 Flotation Tire	
L = 19L-16.1 Flotation Tire	Walking Tandem
M = VF385/65R22.5 Radial Implement	61"-105" Wheel Center
T = No Tires - 8 ON 8.00 BC	
<hr/>	
D = 320/90R50 Lugged Tire (Singles Only)	Row Crop
B = 380/90R46 Lugged Tire (Singles Only)	11.25BC Hub
C = 480/80R42 Lugged Tire (Singles Only)	80"-150" Wheel Center
N = No Tires - 10 on 11.25 BC (Singles Only)	
<hr/>	
4 = 320/90R50 Lugged Tire (Dual Ready)	Row Crop
2 = 380/90R46 Lugged Tire (Dual Ready)	13.189BC Hub
R = 480/80R42 Lugged Tire (Singles Only)	60"-144" Wheel Center
F = 710/70R38 Lugged Tire (Singles Only)	
H = No Tires - 10 on 13.189 BC (Singles Only)	

D APRON DRIVE

X = Hydraulic Drive Raven 37 Pin - Variable Rate Ready w/ Spinner Sensor
 Z = Hydraulic Drive Raven 47 Pin - Variable Rate Ready w/ Spinner Sensor (JD Rate Controller 2000 Ready)
 T = Hydraulic Drive ISO Ready - Variable Rate Ready w/ Spinner Sensor
 K = Hydraulic Drive Ag Leader - Variable Rate Ready w/ Spinner Sensor

E SPINNER DRIVE

C = Controlled Spinner Drive (CSD) - Compensated Speed - Requires VRR

F WHEEL STRUTS/STEERING/SCALE OPTIONS (NO BRAKES)

8 = Non-Steerable - No Scale - No Brakes (Dual Ready)
 9 = Non-Steerable - 4pt Scale - No Brakes (Dual Ready)
 D = Steerable - 4pt Scale - No Brakes (Dual Ready)

G OPTIONS

3 = 380/90R46 (14.9R46) Lugged Tire - 20" Spacing (Requires Tire Size Code "2")	
2 = 380/90R46 (14.9R46) Lugged Tire - 22"/30" Spacing (Requires Tire Size Code "2")	Row Crop
5 = 320/90R50 (12.4R50) Lugged Tire - 20" Spacing (Requires Tire Size Code "4")	Dual Tires
4 = 320/90R50 (12.4R50) Lugged Tire - 22"/30" Spacing (Requires Tire Size Code "4")	
<hr/>	
E = Extensions, (Installation not Included)	
T = Tarp (Installation not Included)	
I = Raven ISO CAN Node (Requires Apron Drive Code "T")	
J = John Deere GS2 Ready (Requires Apron Drive Code "T")	
M = Scale Monitor (Requires "9" or "D")	
L = Ladder	



Owner Information

NOTE: This parts book provides detailed parts lists and drawings for the Loftness L1230 Lime/Fertilizer Spreader. Use this parts book when ordering replacement parts and as a reference for machine architecture, and assembly.

For information on safety, setup, operation, and maintenance instructions for your spreader, refer to the Owner's Manual that is also shipped with your machine.

Make sure that all personnel have read the owner's manual for this machine and thoroughly understand safe and correct operating, installation, and maintenance procedures.

Continuous improvement and advancement of Loftness products may result in changes to your equipment that may not be reflected in this publication. Loftness reserves the right to make product improvements to the machine at any time. Although great care has been taken to ensure the accuracy of this publication, Loftness does not assume any liability for errors or omissions.

Serial Number Location



The machine serial number is shown in the tag (1) located at the front of the hopper, left side; and is also stamped into the hopper frame (2) near the tag.

IMPORTANT: Always use your model and serial number when requesting information or when ordering parts.

Owner's Manual and Parts Book Access



To access a digital parts book and/or owner's manual, use a smart phone to scan the QR Code (1) located just above the serial number tag on the front of the hopper. This code will provide a link to machine documentation on the Loftness website.





PARTS IDENTIFICATION

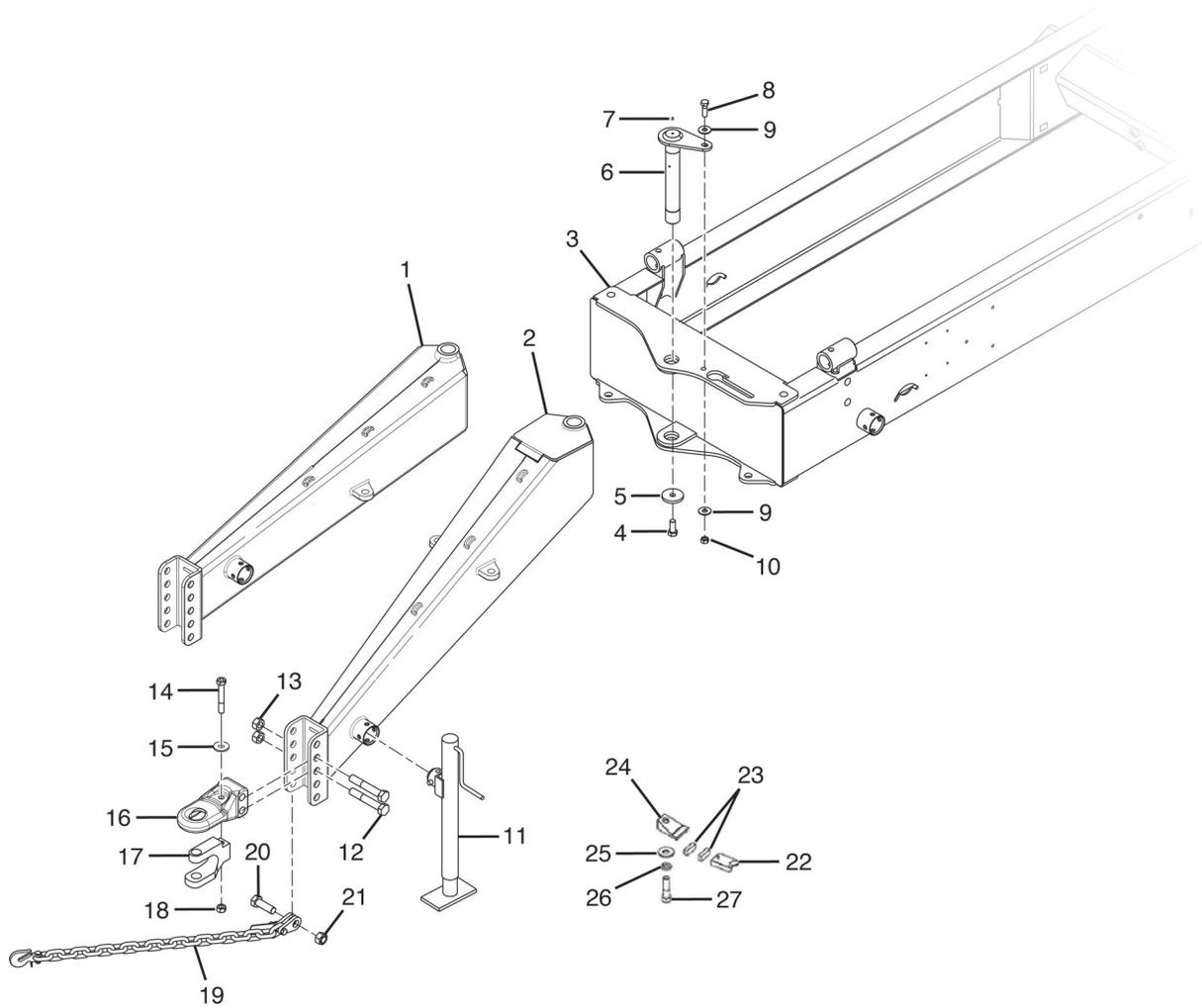
NOTE: To assist with identifying a correct part or assembly for your spreader, the far right column on the parts lists in this book will include a product code from any specific product group where applicable. In some parts lists, a column labeled “S/N” (serial number) may also be added to indicate the serial number range of a part or assembly when design changes have occurred. See example of both below.

Any code field that is blank will indicate that a particular part or assembly is common or standard to all L1230 Spreader models.

#	QTY.	PART #	DESCRIPTION	S/N	CODE
1	1	203811	BRACKET	up to 105-156	APRON
2	6	N41428	BOLT, CARRIAGE 5/16" X 1", SS		W, X, Z, T
3	1	204242	SHAFT, SPREADER CONVEYOR DRUM		
4	2	N33830	BEARING, 1" DODGE 3-BOLT FLG		
5	1	203810	BRACKET	up to 105-156	

Parts Identification

Chassis; Hitch Options



Parts Identification

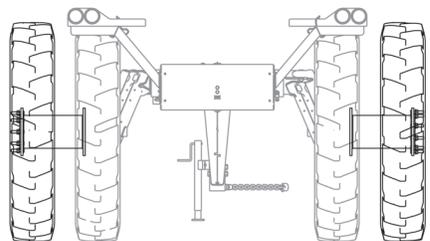
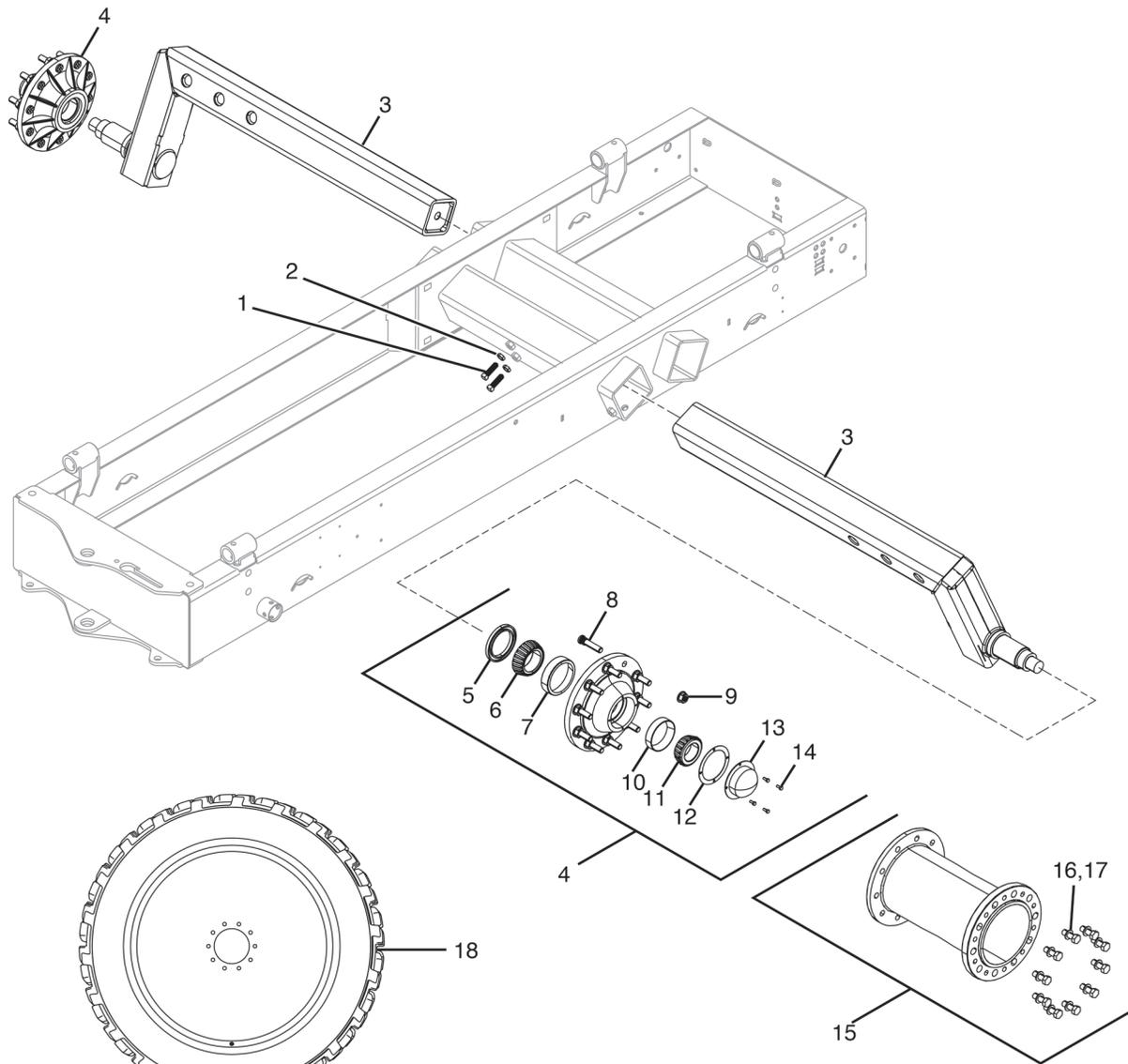
Chassis; Hitch Options

#	QTY.	PART #	DESCRIPTION	CODE
				TIRE
1	1	203903	HITCH WELDMENT-LOW DROP	K, L, M, T
2	1	203905	HITCH WELDMENT-HIGH DROP	D, B, C, N, 4, 2, R, F, H
3	1	210259	FRAME, 12 TON	
4	1	N16753	BOLT, 3/4" X 1-3/4" FN THD GR 8	
5	1	204191	WASHER, 3" OD X .75" ID X .375" THK	
6	1	203901	PIN-FLAG,2"X14.125"	
7	1	4105	GREASE-ZERK, 1/4" SCREW-IN	
8	1	4042	BOLT, 5/8" X 2" FINE THRD. GR. 8	
9	2	4069	WASHER, FLAT 5/8"	
10	1	4057	NUT, 5/8" FINE THREAD TOP LOCK	
11	1	N84670	JACK, BULLDOG SWL 5K	
12	2	N28583	BOLT, 1 X 6" FN TH GR 8	
13	3	N16700	NUT, 1"-14GR. 8 FINE THREAD TOP LOCK	
14	1	4577	BOLT, 3/4" X 5" FN TH GR 8	
15	1	N35327	WASHER, FLAT 3/4" SAE	
16	1	206230	BASE, CAT-3 HITCH	
	1	N37474	BASE, CAT-2 HITCH	
	1	206220	BASE, CAT-4 HITCH	
17	1	N37463	CLEVIS, CAT 2 BOLT-ON HITCH	
18	1	N16352	NUT, LOCK 3/4" GRADE 8 FINE	
19	1	206244	CHAIN, SAFETY 1/2" X 50" 41,000 LB	
20	1	N16499	BOLT, 1" X 3" FINE THREAD GRADE 8	
21	3	N16700	NUT, 1"-14GR. 8 FINE THREAD TOP LOCK	
22	1	N37475	BLOCK, CAT 2 BOLT - ON REC V	
23	2	N37477	CUSHION, CAT 2 BOLT - ON REC	
24	1	N37476	PLATE, CAT 2 BOLT - ON REC TOP	
25	1	4071	WASHER, 3/4" FLAT	
26	1	4287	WASHER 3/4" LOCK	
27	1	4352	BOLT, 3/4" X 3" GR 5	

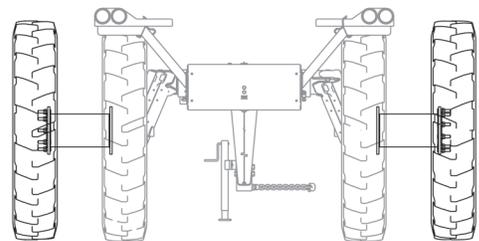
Parts Identification

Axles, Row Crop - 60" to 132"; 10 on 13.189" Bolt Center

(Tire Codes - 2, 4, R, F, H)



For Duals on 20 and 22 in. Center
 Duals dished the same as inner wheels.
 Duals paired as left/left and right/right.



For Duals on 30 in. Center
 Duals dished the opposite of inner wheels.
 Duals paired as right/left and right/left.

Parts Identification

Axles, Row Crop - 60" to 132"; 10 on 13.189" Bolt Center

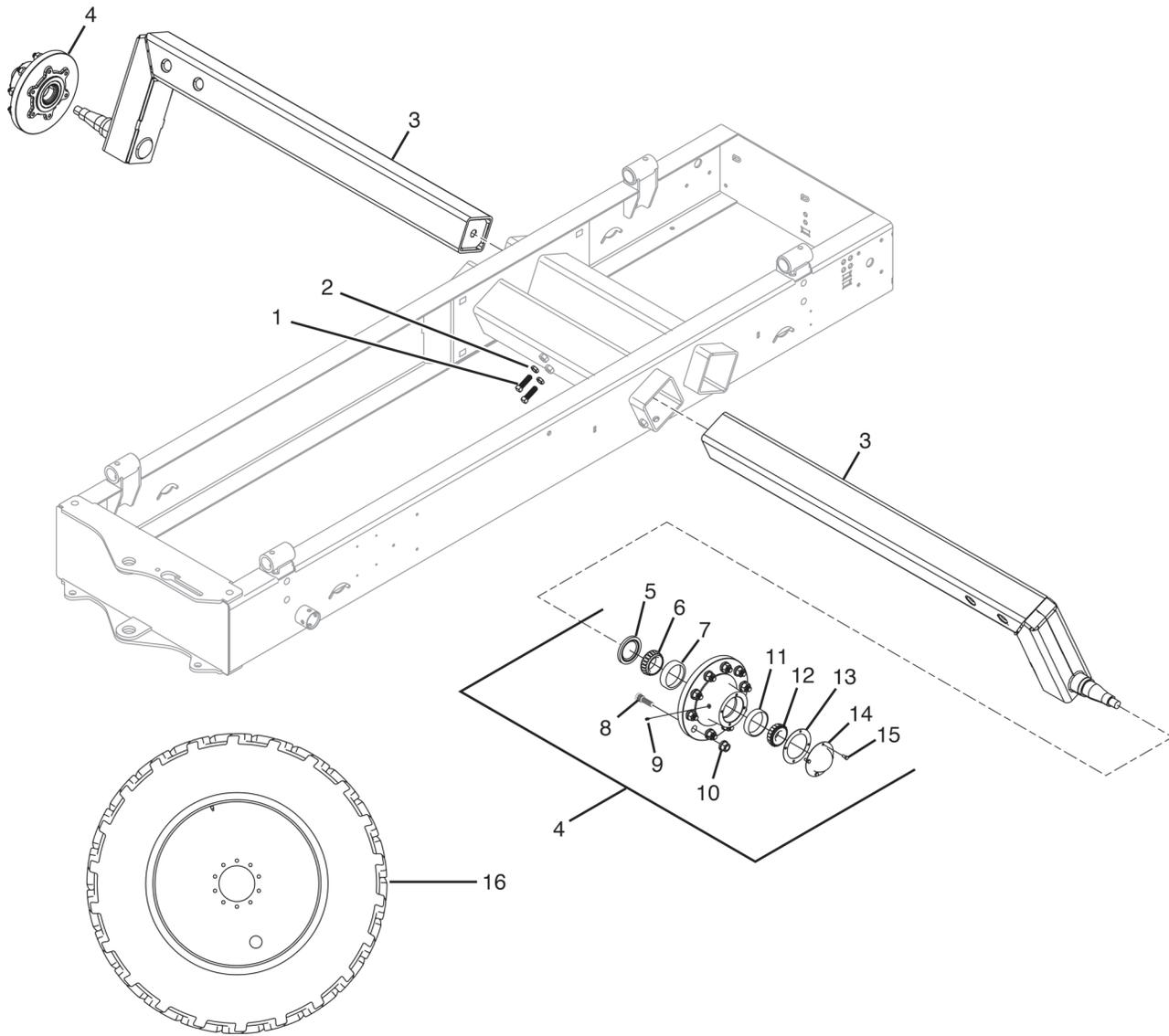
(Tire Codes - 2, 4, R, F, H)

#	QTY.	PART #	DESCRIPTION	CODE
				TIRE
1	12	N155856	SCREW, SQ HD SET 3/4IN X 2-1/2IN	4, 2, R, F, H
2	12	4954	NUT, 3/4" JAM	
3	2	210026	AXLE WLDMT, 60IN TO 132IN	
4	2	204393	HUB, 10 BOLT 13.19"BC 25,000LB	
5	1	204392	SEAL, 4.375 ID	
6	1	203698	CONE, INNER BEARING X33118XT-T2	
7	1	203700	CUP, INNER Y33118-T2	
8	10	204538	STUD, M22X1.5X101.6	
9	10	204539	NUT, M22X1.5 FLANGE	
10	1	203701	CUP, OUTER Y33215-T2	
11	1	203699	CONE, OUTER BEARING X33215XT-T2	
12	1	203705	GASKET, 881 HUB	
13	1	203706	CAP, 881 HUB	
14	4	4412	BOLT, 5/16" X 3/4" GRADE 5	
15	2	204677	EXTENSION ASM-20" HUB (Includes attaching hardware)	
	2	204676	EXTENSION ASM-22"/30" HUB (Includes attaching hardware)	
16	10	204678	WASHER, FLAT M22 10.9	
17	10	204679	BOLT, M22X2.5X60MM 10.9	
18	1	204590	WHEEL, 320/90R50 LEFT	4
	1	204591	WHEEL, 320/90R50 RIGHT	
	1	204350	WHEEL, 380/90R46 LEFT	2
	1	204351	WHEEL, 380/90R46 RIGHT	
	1	204741	WHEEL, 480/80R42 LEFT	R
	1	204740	WHEEL, 480/80R42 RIGHT	
	1	204611	WHEEL, 710/70R38 LEFT	F
	1	204612	WHEEL, 710/70R38 RIGHT	

Parts Identification

Axles, Row Crop - 80" to 150"; 10 on 11.25" Bolt Center

(Tire Codes - D, B, C, N)



Parts Identification

Axles, Row Crop - 80" to 150"; 10 on 11.25" Bolt Center

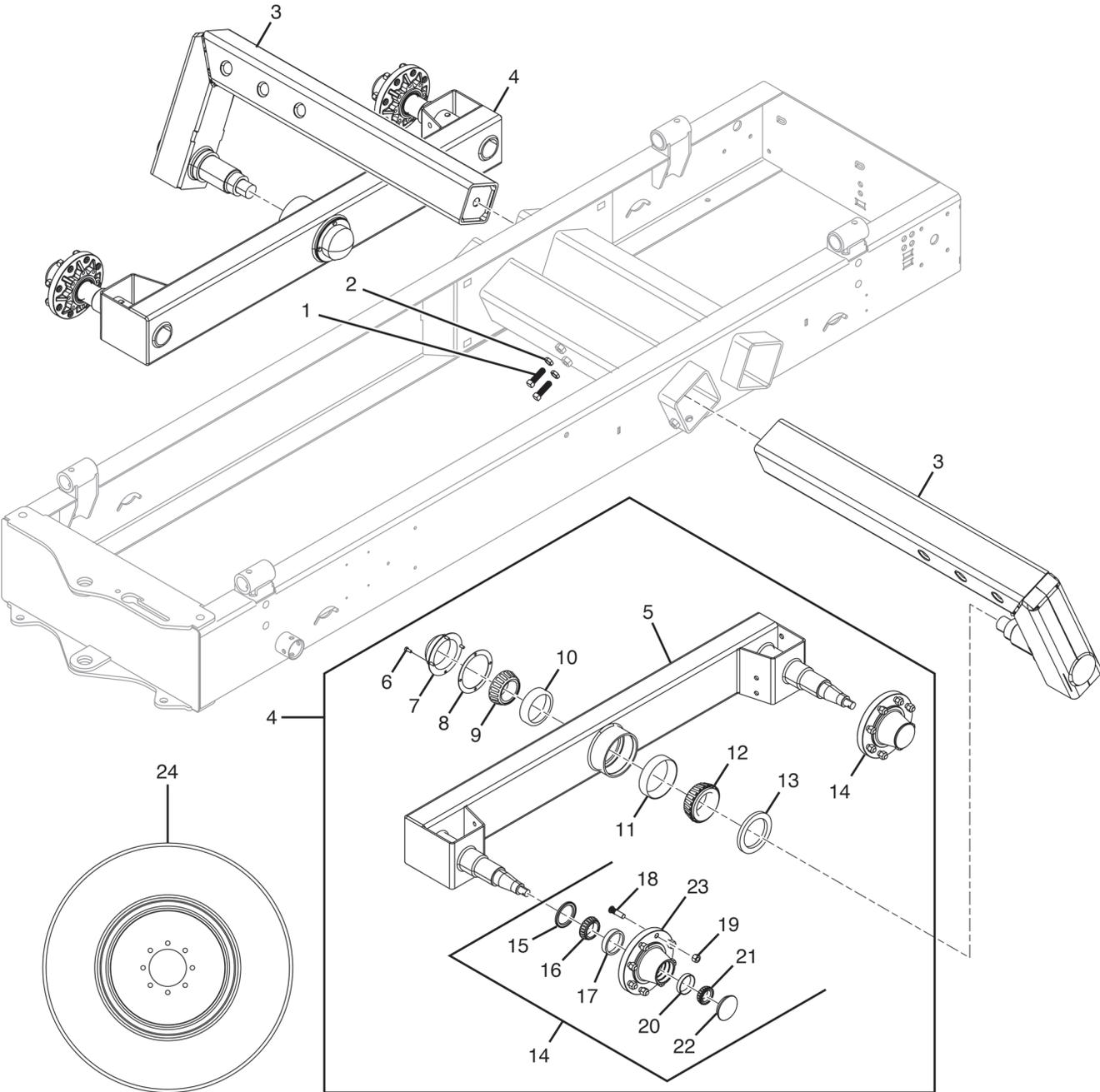
(Tire Codes - D, B, C, N)

#	QTY.	PART #	DESCRIPTION	CODE
				TIRE
1	12	N155856	SCREW, SQ HD SET 3/4IN X 2-1/2IN	D, B, C, N
2	12	4954	NUT, 3/4" JAM	
3	2	204936	AXLE WLDMT, 80IN TO 150IN	
4	2	N84268	HUB ASM,10 ON 11.25,8.66 PILOT	
5	1	N87661	SEAL, GREASE	
6	1	N87457	BEARING, CONE	
7	1	N87658	CUP, BEARING OUTER	
8	10	N87454	STUD, WHEEL 3/4-16X3.00IN	
9	1	N25470	GREASE-ZERK, 1/4" SCREW-IN LONG	
10	10	N87456	NUT, WHEEL FLANGE 3/4-16	
11	1	N87660	CUP, BEARING INNER	
12	1	N87455	BEARING, CONE	
13	1	N87662	GASKET, 871 HUB CAP	
14	1	N87644	CAP, 871 HUB	
15	4	4412	BOLT, 5/16" X 3/4" GRADE 5	
16	1	N104728	WHEEL ASM, 320/90R50 161 LEFT	D
	1	N104727	WHEEL ASM, 320/90R50 161 RIGHT	
	1	N87289	WHEEL ASM, 380/90R46 LEFT	B
	1	N87291	WHEEL ASM, 380/90R46 RIGHT	
	1	N152372	WHEEL ASM, 480/80R42 LEFT	C
	1	N152371	WHEEL ASM, 480/80R42 RIGHT	

Parts Identification

Axles, Walking Tandem - 8 on 8" Bolt Center

(Tire Codes - K, L, M)



Parts Identification

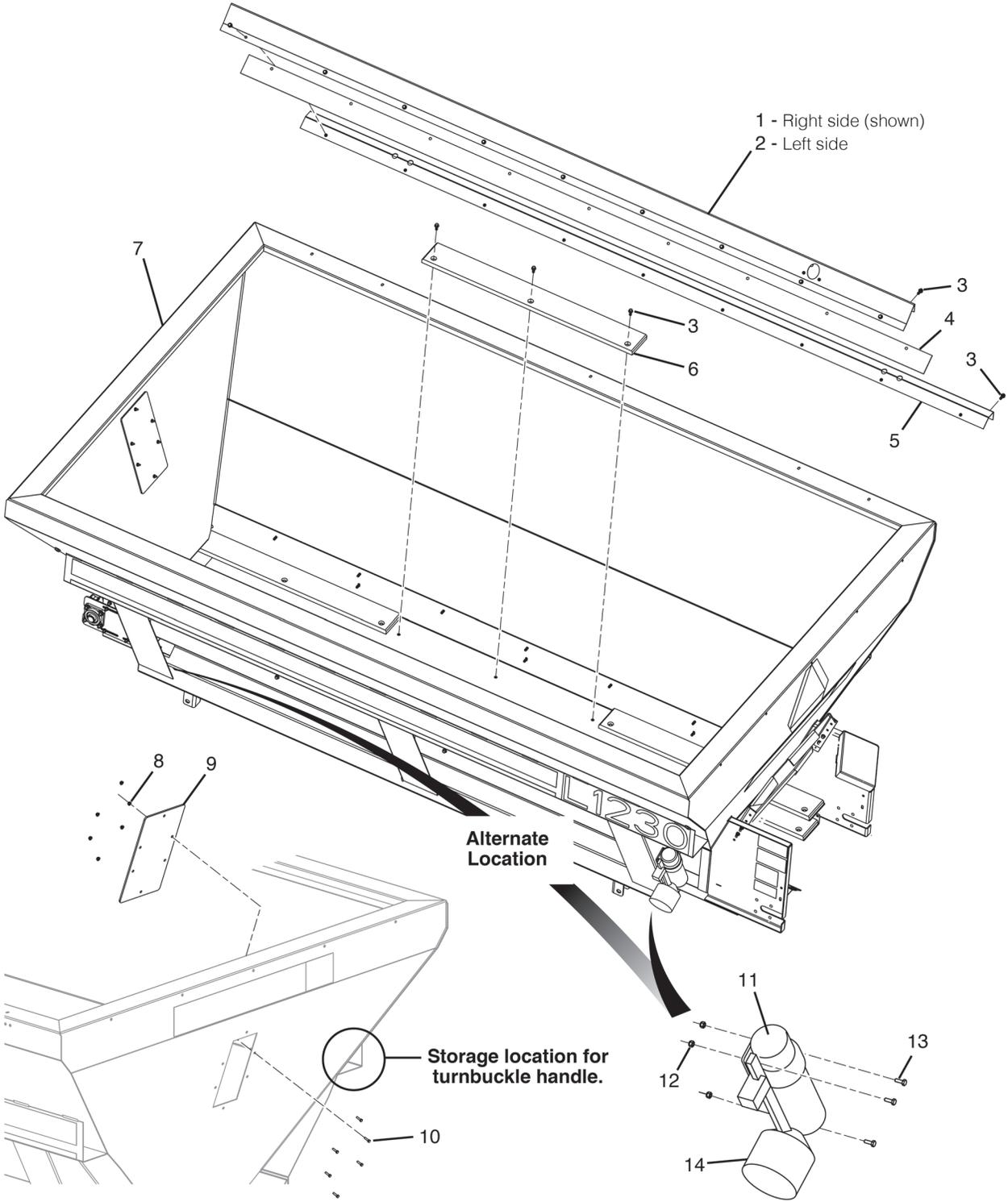
Axles, Walking Tandem - 8 on 8" Bolt Center

(Tire Codes - K, L, M)

#	QTY.	PART #	DESCRIPTION	CODE
				TIRE
1	12	N155856	SCREW, SQ HD SET 3/4IN X 2-1/2IN	K, L, M, T
2	12	4954	NUT, 3/4" JAM	
3	2	203714	AXLE, WLDMT WALKING TANDEM	
4	2	203712	BEAM, WALKING TANDEM	
5	1	203721	WLDMT, WALKING TANDEM BEAM	
6	4	4412	BOLT, 5/16" X 3/4" GRADE 5	
7	1	203706	CAP, 881 HUB	
8	1	203705	GASKET, 881 HUB	
9	1	203699	CONE, OUTER BEARING X33215XT-T2	
10	1	203701	CUP, OUTER Y33215-T2	
11	1	203700	CUP, INNER Y33118-T2	
12	1	203698	CONE, INNER BEARING X33118XT-T2	
13	1	203708	SEAL, 881 HUB	
14	2	N41447	HUB, 8 BOLT 4.0" BOLT CIRCLE	
15	1	N39118	SEAL, GREASE	
16	1	N39120	BEARING, CONE	
17	1	203718	CUP, BEARING JLM506810	
18	8	N39122	STUD,5/8-18X2.25	
19	8	N39123	NUT,5/8-18 60DEG	
20	1	203717	CUP, BEARING LM501310	
21	1	N39119	BEARING, CONE	
22	1	N39117	CAP, HUB	
23	1	N39121	HUB, 8 BOLT	
24	4	204714	WHEEL, 14L-16.1SL 1.50" OFFSET	K
	4	N33812	WHEEL,19L16.1 - 10PLY	L
	4	210017	WHEEL, VF385/65R22.5 1.5IN OFFSET	M

Parts Identification

Hopper; Apron Hood; Windows

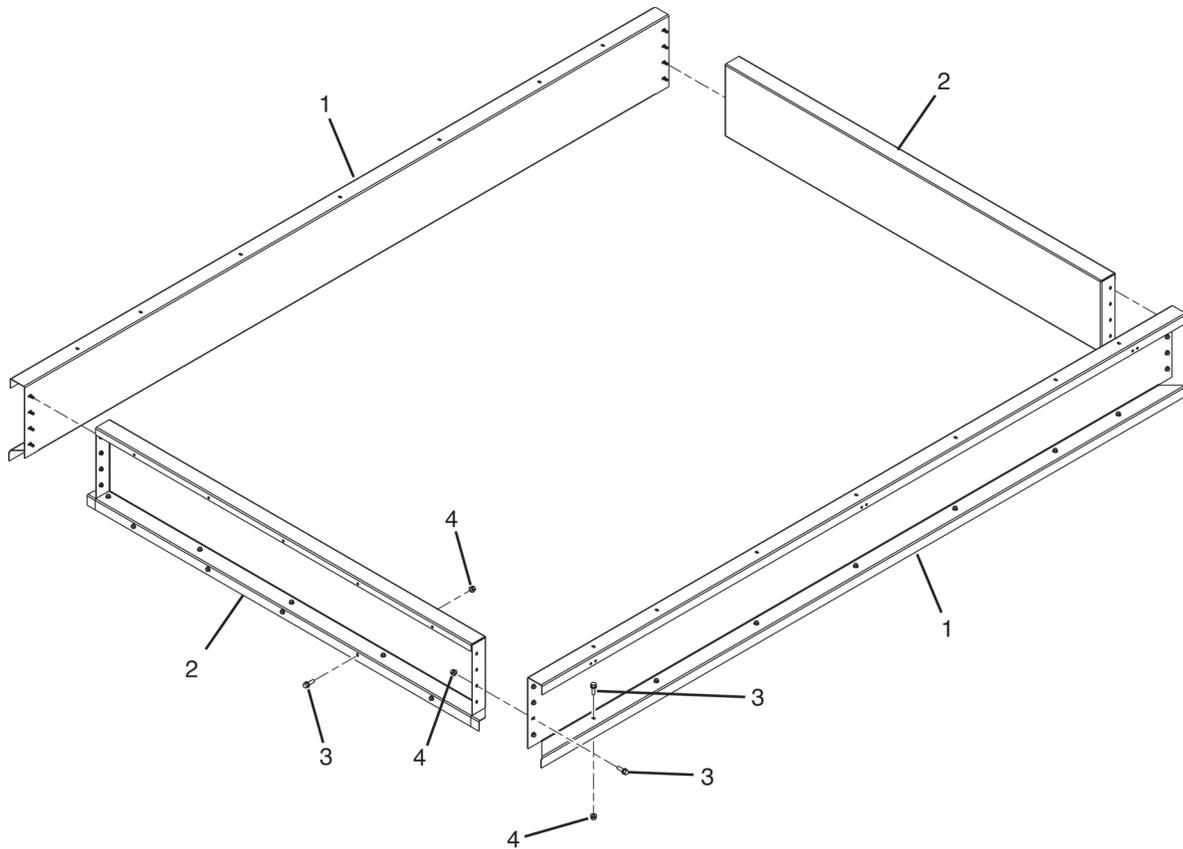


Hopper; Apron Hood; Windows

#	QTY.	PART #	DESCRIPTION
1	1	204696	SUPPORT WLDMT, RH SEAL
2	1	204695	SUPPORT WLDMT, LH SEAL
3	86	N50815	BOLT, 3/8" X 1" SS SER FL GR 5
4	2	204310	SEAL, 4IN X 155IN
5	2	204561	SUPPORT WLDMT, SEAL
6	12	204303	STRIP, WEAR
7	1	204830	BIN WLDMT, 12 TON LIME
8	6	N68480	NUT, LOCK 1/4" SER FLG SS
9	1	N37022	WINDOW, SPREADER FRONT
10	6	N68478	BOLT, 1/4" X 1" SS
11	1	N19600	HOLDER, 01-315A STND.MANUAL
12	3	4996	NUT, LOCK 1/4" NYLOCK
13	3	4340	BOLT, 1/4" X 3/4" GRADE 5
14	1	N105370	DENSITY SCALE, FERTILIZER

Parts Identification

Bin Extensions (210405)

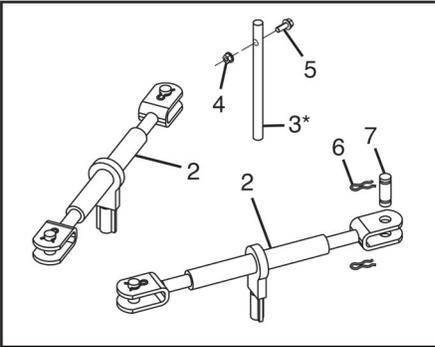


#	QTY.	PART #	DESCRIPTION	CODE
				OPTIONS
1	2	210404	EXTENSION, SIDE	E
2	2	210403	EXTENSION, END	
3	50	N50815	BOLT, 3/8" X 1" SS SER FL GR 5	
4	50	N73940	NUT, LOCK 3/8" SER FLG SS	

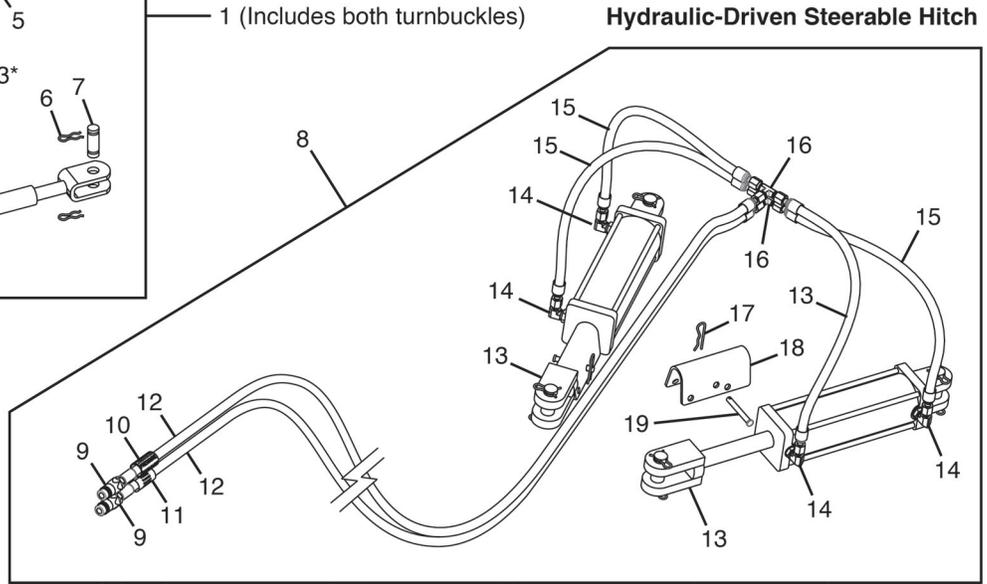
Parts Identification

Hitch Positioning - Turnbuckle, Non-Steerable Hitch (206275); Steerable Hitch (206273)

Turnbuckles for Non-steerable Hitch



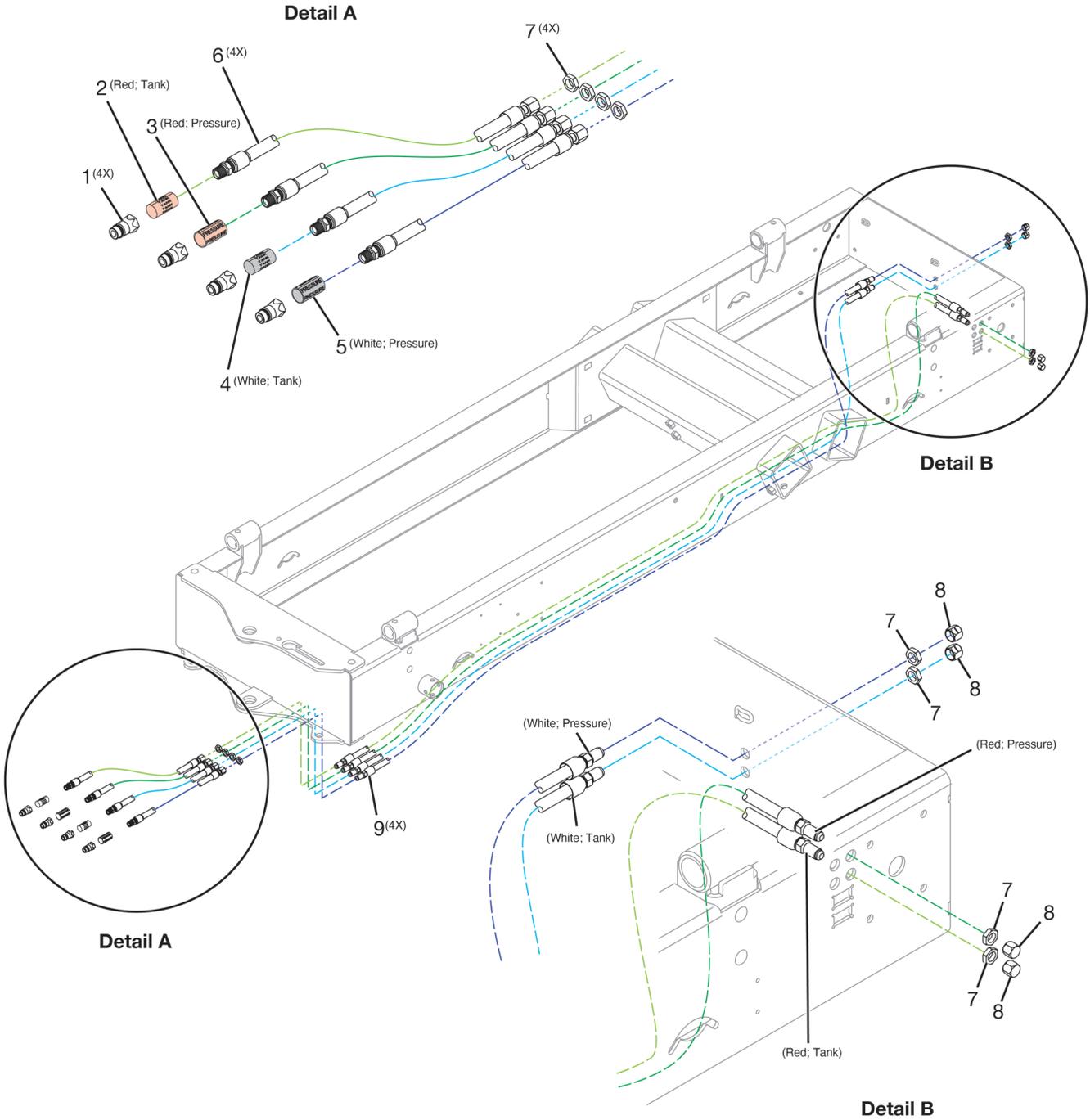
* Handle for the hitch turnbuckles is located in the frame. See page 14.



#	QTY.	PART #	DESCRIPTION	CODE
				STEERING
1	1	206275	ASSEMBLY, NON-STEERABLE HITCH	8, 9, 2, 3, 4, 5
2	2	8048	BODY, RATCHET JACK	
3	1	8048-30	HANDLE, RATCHET JACK	
4	1	4996	NUT, LOCK 1/4" NYLOCK	
5	1	4998	BOLT, 1/4 X 1-1/2 GR5	
6	8	8048-20	CLIP	
7	4	8048-10	PIN	
8	1	206273	ASSEMBLY, STEERABLE HITCH	D
9	2	N11825	COUPLER, 1/2" MALE PIONEER	
10	1	204355	DECAL, YELLOW PRESSURE	
11	1	204356	DECAL, YELLOW TANK	
12	2	204354	HOSE, 3/8" X 114" -6FJX -8MPT	
13	2	8042	CYLINDER, 3" X 8" REPHASING	
14	4	N20037	ELBOW, 90 -6MJIC-8MORB .031 OR	
15	4	204353	HOSE, 3/8" X 23" -6FJX -6FJX	
16	2	N24773	TEE, 6MJIC-6MJIC-6MJIC	
17	2	4336	CLIP, HAIRPIN 1/8" X 2-1/4"	
18	2	206274	SAFETY STOP, 6", CYLINDER	
19	2	4093	PIN, 3/8" X 3" (2.75" USEABLE)	

Parts Identification

Hydraulics, Chassis (Spinner and Apron Drive)

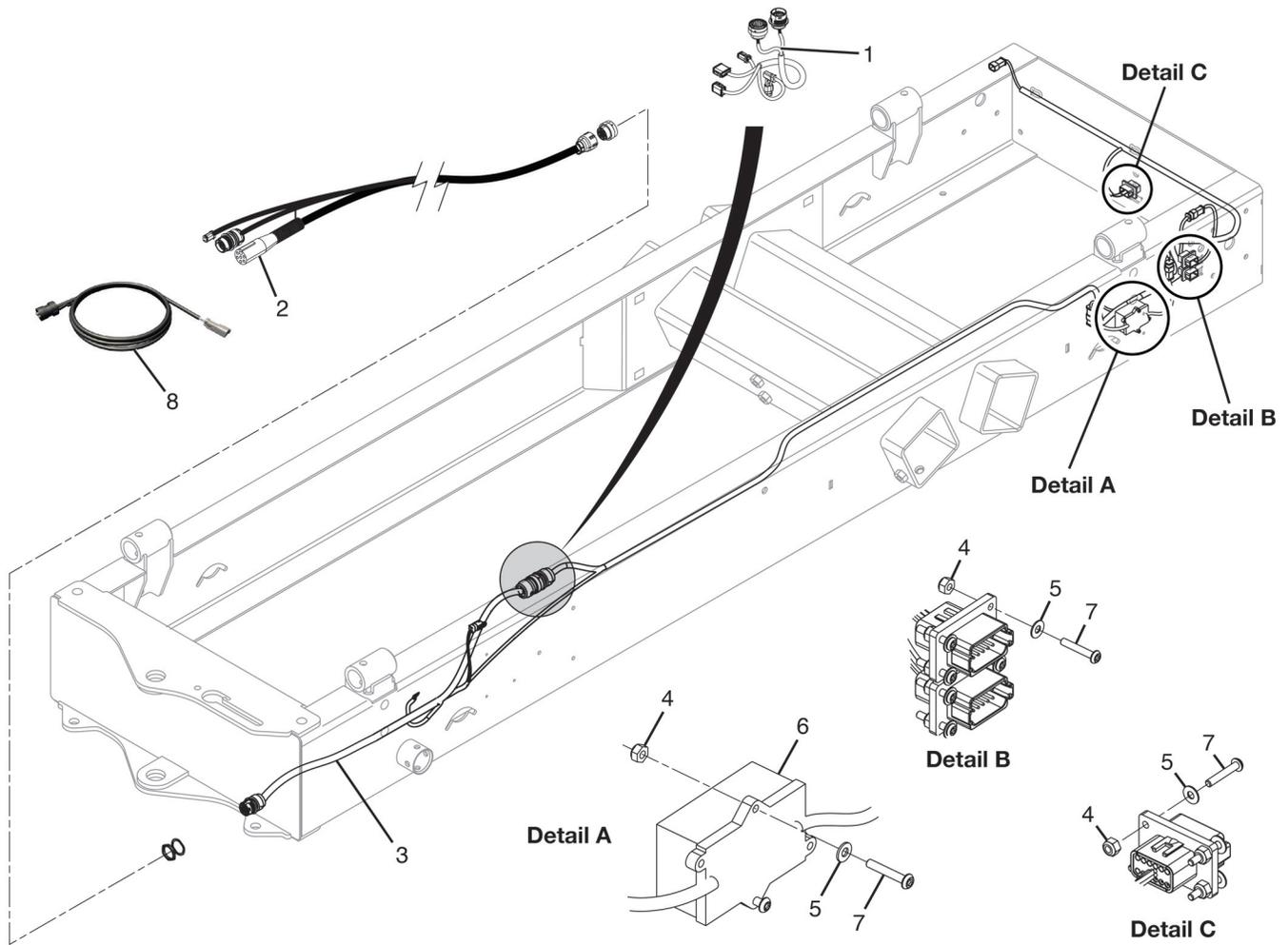


Hydraulics, Chassis (Spinner and Apron Drive)

#	QTY.	PART #	DESCRIPTION
1	4	N11825	COUPLER, 1/2" MALE PIONEER
2	2	N113698	DECAL, RED TANK
3	2	N113696	DECAL, RED PRESSURE
4	2	N24823	DECAL, TANK
5	2	N24822	DECAL, PRESSURE
6	4	206246	HOSE, 1/2" X 127" -8FJX -8MPT
7	8	N26387	NUT, JAM; -08 BULKHEAD
8	4	N21385	CAP, 8FJIC
9	4	204204	HOSE, 1/2" X 175" -8MJIC -8MJIC

Parts Identification

Wiring Harness, Chassis



Wiring Harness, Chassis

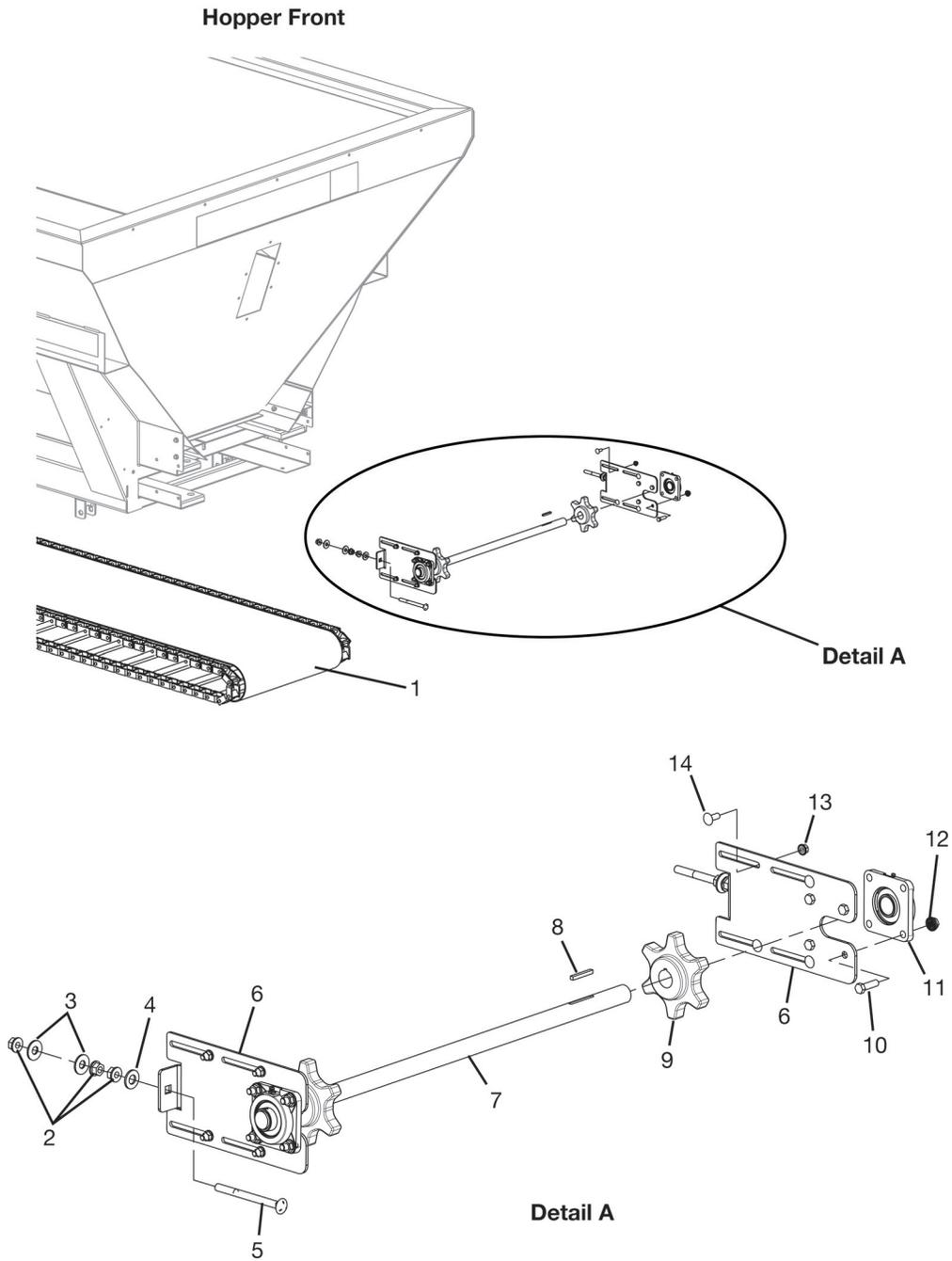
#	QTY.	PART #	DESCRIPTION	CODE	
				APRON	OPTIONS
1	1	210324	HARNESS-MODULE, AGLEADER	K	
	1	210433	HARNESS-DEERE GS2 READY	T	J
	1	204398	RAVEN ISOBUS	T	I
2	1	210323	HARNESS-HITCH, AGLEADER	K	
	1	204347	HARNESS-HITCH, RAVEN 37 PIN	X	
	1	204358	HARNESS-HITCH, ISO CONTROLLER	T	
	1	210415	HARNESS-ISO CONTROLLER	T	J
	1	204602	HARNESS-HITCH, RAVEN 47 PIN	Z	
3	1	204357	HARNESS-12TON CHASSIS		
4	14	N16133	NUT, NYLON INSERT #8		
5	14	4576	WASHER, FLAT #8		
6	1	N62625	MODULE,LIGHTING		
7	14	N16132	BOLT, BHCS #8-32 X 1		
8	1	210434	HARNESS-FOOTSWITCH, DEERE	T	J

Lights, Breakaway

#	QTY.	PART #	DESCRIPTION
1	1	204746	LIGHT ARM ASM-RH
2	1	204747	LIGHT ARM ASM-LH
3	1	N35392	DECAL, RED REFLECTOR 9" X 2"
4	1	204748	DECAL,RED-ORANGE REFLECTOR 6X2
5	1	N35393	DECAL, RED REFLECTOR 9" X 2"
6	4	N41423	LIGHT, 4" STTL AMBER
7	2	N41422	LIGHT, 4" STTL RED
8	6	N41426	GROMMET, 4" STTL
9	2	204369	HARNESS-LIGHT ARM
10	2	4357	BOLT, 1/2" X 4" GRADE 5
11	4	4074	WASHER, 2" OD X 1/2" ID X 1/4"
12	2	N19963	SPRING, COMP.; 234 LB/IN
13	2	N149702	NUT, LOCK 1/2-13 NYLOCK
14	8	N29075	NUT, LOCK 1/2" SERRATED FLANGE
15	8	N18360	BOLT,1/2-13 X 1-1/4 SER FLG
16	2	N41427	NUT, LOCK 5/16" SER FLG, SS
17	2	N41428	BOLT, CARRIAGE 5/16" X 1", SS
18	2	204205	WLDMT, MOUNT, LIGHTS

Parts Identification

Apron Roller, Front

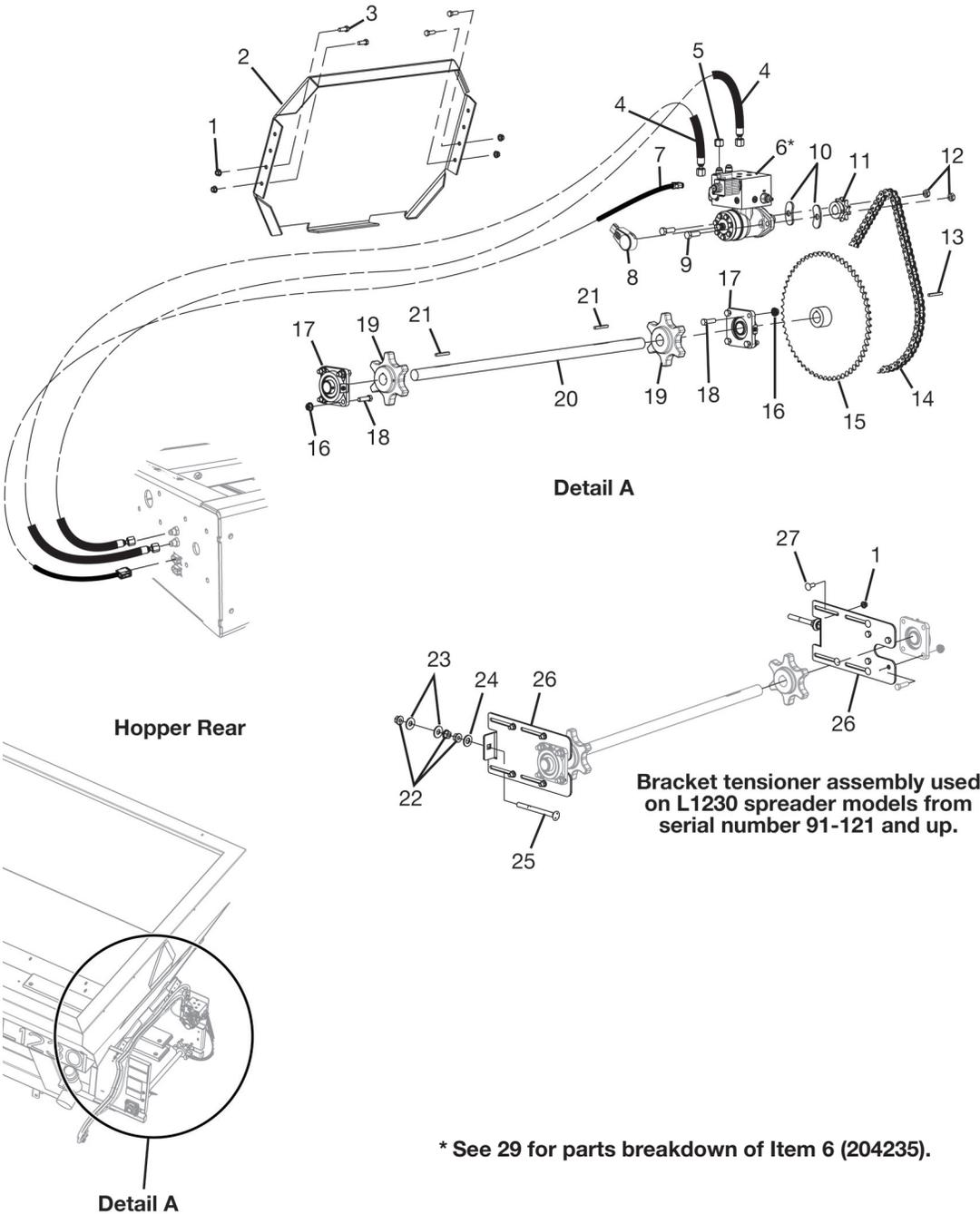


Apron Roller, Front

#	QTY.	PART #	DESCRIPTION
1	1	204300	BELT-24"X319.185"
2	6	N29075	NUT, LOCK 1/2" SERRATED FLANGE
3	4	4486	WASHER, 1/2" FLAT
4	2	4997	WASHER, FLAT 5/8" SAE
5	2	4988	BOLT, CARRIAGE 1/2" X 6" GR 5
6	2	204728	BRACKET, TENSIONER
7	1	204331	SHAFT, 1-1/4" X 36"
8	2	7187-05	KEY, 1/4" X 2"
9	2	204297	SPROCKET, 88C6 1-1/4"
10	8	N113653	BOLT, 7/16" X 1-1/2" SS
11	2	N30246	BEARING, 1-1/4" 4-BLT FL
12	8	N105234	NUT, LOCK 7/16" SER FLANGE
13	8	N73940	NUT, LOCK 3/8" SER FLG SS
14	8	4567	BOLT, CARRIAGE 3/8" X 1" SS

Parts Identification

Apron Roller, Rear; Apron Drive; Metering Gate

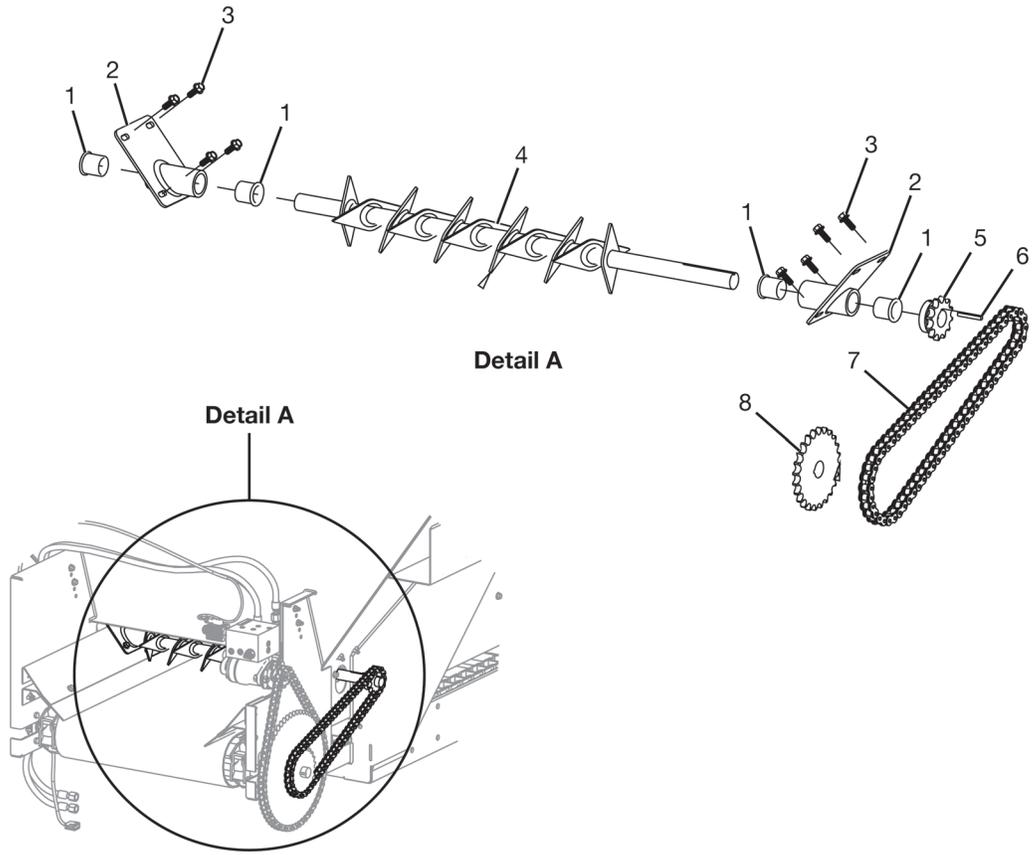


Apron Roller, Rear; Apron Drive; Metering Gate

#	QTY.	PART #	DESCRIPTION	S/N
1	4	N73940	NUT, LOCK 3/8" SER FLG SS	up to 91-120
	12			from 91-121
2	1	204315	PLATE, GATE	
3	4	N50815	BOLT, 3/8" X 1" SS SER FL GR 5	
4	2	N40097	HOSE, 3/8" X 87" -8FJX -8FJX	
5	1	N21385	CAP, 8FJIC	
6	1	204235	MOTOR/VALVE ASM	
7	1	204737	HARNESS-PRODUCT, 1 BOOM	
8	1	204582	SENSOR, APRON SPEED	
9	2	4013	BOLT, 1/2" X 1-1/2" GRADE 5	
10	2	204589	WASHER	
11	1	8319	SPROCKET, 60B10 KP DRIVE	
12	2	4054	NUT, LOCK 1/2" TOP	
13	1	7187-08	KEY, 1/4" X 2-3/4"	
14	1	204318	CHAIN, #60 X 54.00 SS	
15	1	204316	SPROCKET, 60B60-1.250	
16	8	N105234	NUT, LOCK 7/16" SER FLANGE	
17	2	N30246	BEARING, 1-1/4" 4-BLT FL	
18	8	N113653	BOLT, 7/16" X 1-1/2" SS	
19	2	204297	SPROCKET, 88C6 1-1/4"	
20	1	204569	SHAFT, 1-1/4" X 40"	
21	2	7187-05	KEY, 1/4" X 2"	
22	6	N29075	NUT, LOCK 1/2" SERRATED FLANGE	from 91-121
23	4	4486	WASHER, 1/2" FLAT	
24	2	4997	WASHER, FLAT 5/8" SAE	
25	2	4988	BOLT, CARRIAGE 1/2" X 6" GR 5	
26	2	204728	BRACKET, TENSIONER	
27	8	4567	BOLT, CARRIAGE 3/8" X 1" SS	

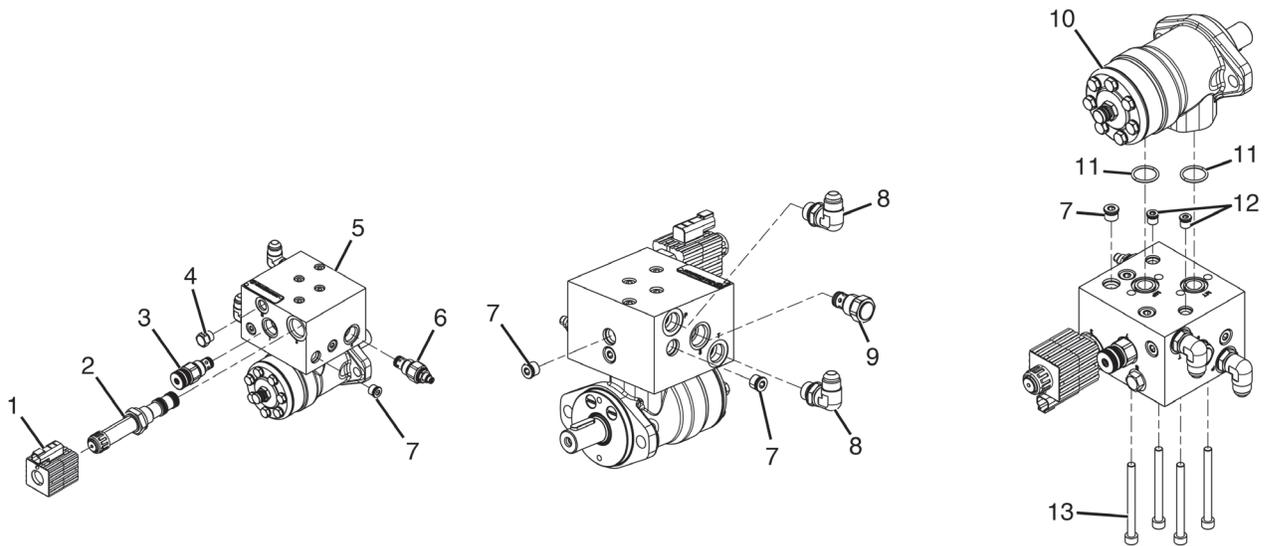
Parts Identification

Lime Agitator



#	QTY.	PART #	DESCRIPTION
1	4	N49870	BEARING, FLANGED SLEEVE PLASTIC
2	2	204572	BRACKET, AGITATOR
3	8	N50815	BOLT, 3/8" X 1" SS SER FL GR 5
4	1	204691	AGITATOR, LIME
5	1	204698	SPROCKET, 60B12-1.250 1/4KW SS
6	1	7187-05	KEY, 1/4" X 2"
7	1	204727	CHAIN, #60 X 51.00 SS
8	1	204699	SPROCKET, 60B24-1.250 1/4KW SS

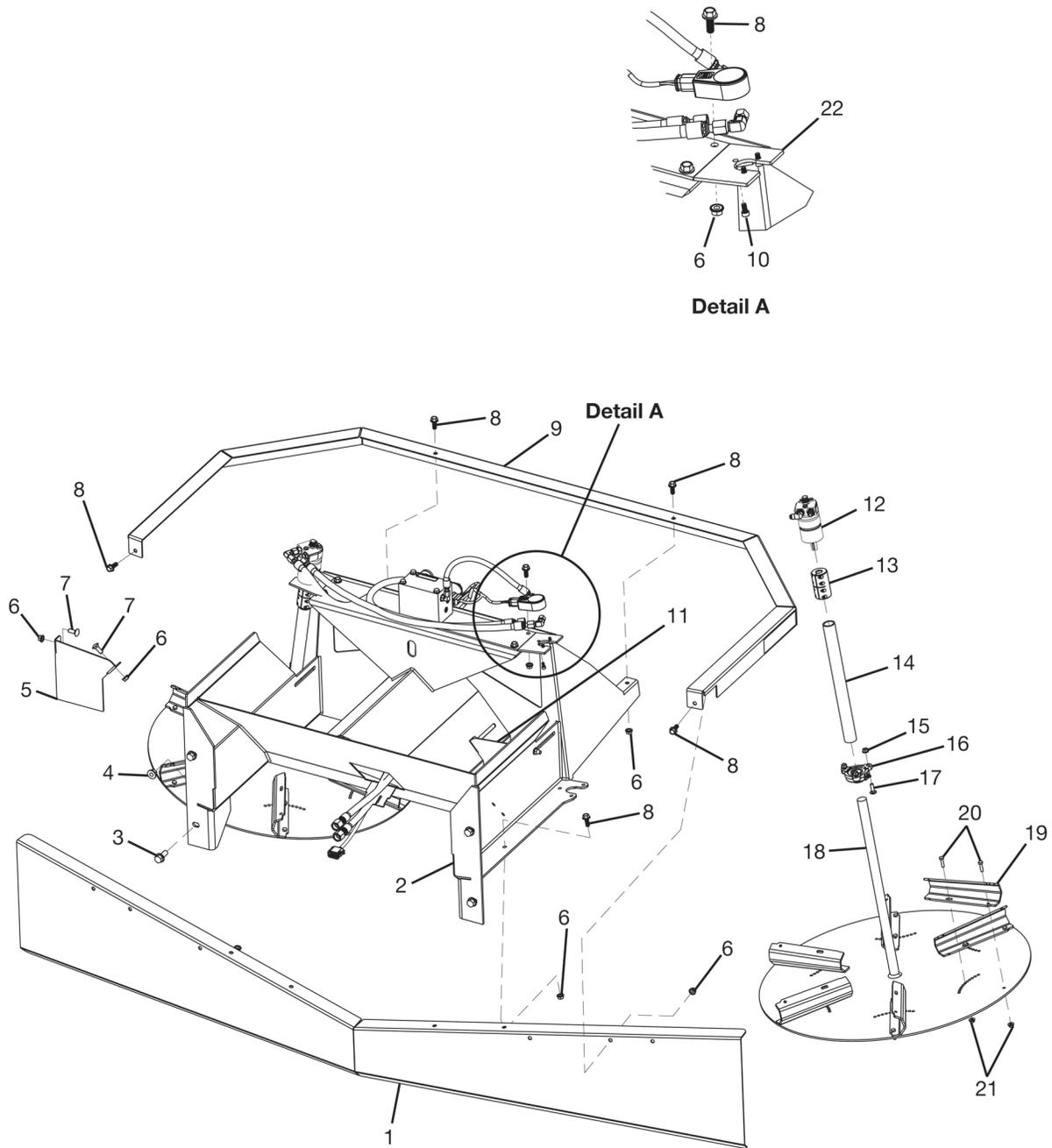
Apron Drive Motor and Valve Assembly (204235)



#	QTY.	PART #	DESCRIPTION
1	1	N142518	COIL, 12VDC 3AMP DEUTSCH
2	1	N142516	CARTRIDGE, PROPORTIONAL PCFC
3	1	204086	CARTRIDGE, #10 NEEDLE VALVE
4	1	N28286	PLUG, 6MOR HEX
5	1	204236	MANIFOLD, APRON MOTOR
6	1	N142510	CARTRIDGE, RELIEF VALVE ADJ
7	9	N142494	PLUG, SAE -06
8	2	N11952	ELBOW, 90 DEG - 08MJIC - 08MOR
9	1	N142508	CARTRIDGE, CHECK VALVE 5PSI
10	1	206257	MOTOR, 9.53 CI DANFOSS
11	2	N142496	O-RING, SAE 568-119
12	2	N139982	PLUG, SAE -04
13	4	N142520	BOLT, SHCS M8X1.25X90

Parts Identification

30" Spinners, Spinner Mount, and Deflectors



30" Spinners, Spinner Mount, and Deflectors

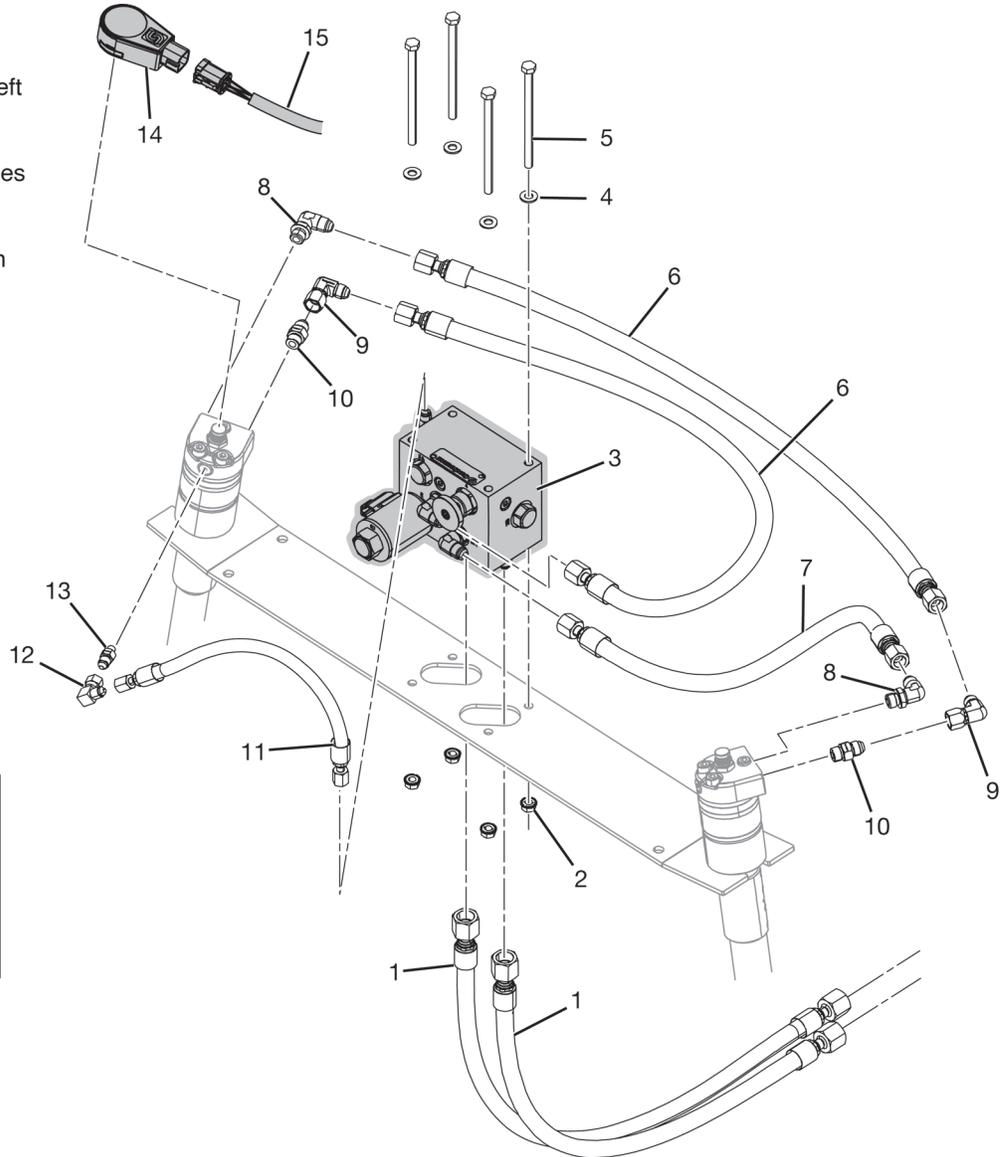
#	QTY.	PART #	DESCRIPTION
1	1	204553	DEFLECTOR, SPREADER SPINNER
2	1	204541	MOUNT, SPREADER SPINNER 30IN
3	4	N18360	BOLT, 1/2-13 X 1-1/4 SER FLG
4	4	N29075	NUT, LOCK 1/2" SERRATED FLANGE
5	1	204555	PLATE, STOP, RH
6	14	N73940	NUT, LOCK 3/8" SER FLG SS
7	4	4567	BOLT, CARRIAGE 3/8" X 1" SS
8	10	N50815	BOLT, 3/8" X 1" SS SER FL GR 5
9	1	203738	GUARD, 30IN ASM, W/DECAL
10	6	204731	BOLT, SHCS 1/4-28X0.500
11	1	204556	PLATE, STOP, LH
12	2	204551	MOTOR, SPINNER DANFOSS
13	2	N55903	COUPLING, CLAMP-TYPE 1"x5/8"
14	2	N62261	SHIELD, SPREADER SPINNER SHAFT
15	6	N41427	NUT, LOCK 5/16" SER FLG, SS
16	2	N33830	BEARING, 1" DODGE 3-BOLT FLG
17	6	N41428	BOLT, CARRIAGE 5/16" X 1", SS
18	2	204550	SPINNER, 30"
19	12	204619	SLINGER, 24" FAN
20	24	N68478	BOLT, 1/4" X 1" SS
21	24	N68480	NUT, LOCK 1/4" SER FLG SS
22	1	204141	PLATE, SPINNER MOTOR

Parts Identification

30" Spinner Drive (CSD - 204548)

Item 14 - Speed Sensor (N113354)

1. Install speed sensor on left spinner motor. Orient connector to face left on machine. Ensure wrenches will not damage sensor during maintenance.
2. Sensor clips onto stub on port end of motor.
3. Connect sensor to VRR harness connector C4.



* Item 3:

See page 34 for parts breakdown of manifold assemblies for Controlled Spinner Drive (CSD) - (N141475).

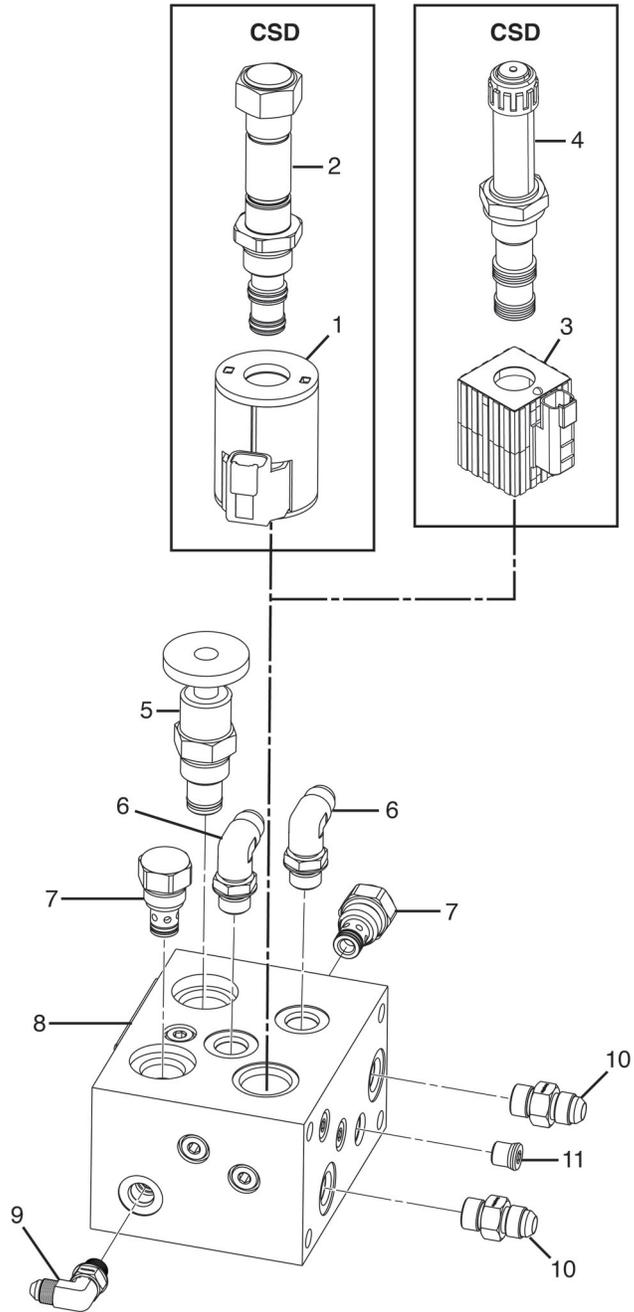
Parts Identification

30" Spinner Drive (CSD - 204548)

#	QTY.	PART #	DESCRIPTION
1	2	N28396	HOSE, 3/8" X 30" -8FJC -6FJC
2	4	N26742	NUT, LOCK 5/16" SER FLG
3		N141475	MANIFOLD ASM, SPINNER MTR CSD
4	4	N28927	WASHER, FLAT 5/16 SAE
5	4	206019	BOLT, 5/16" X 5" GR 5
6	2	N24839	HOSE, 3/8" X 34" -6FJIC -6FJIC
7	1	N26319	HOSE, 3/8" X 18" -6FJIC -6FJIC
8	2	N105368	ELBOW, 90 DEG -6MJIC -6MBSPP
9	2	N29078	ELBOW, 90 DEG - 6MJIC - 6FJIC
10	2	N28847	ADAPTER, -6MJIC -6MBSPP
11	1	204373	HOSE, 1/4" X 16"-4FJIC-4FJIC
12	1	N25125	ELBOW, 90 DEG -4FJIC -4MJIC
13	1	N110162	ADAPTER. -4MJIC -2BSPP
14	1	N113354	SENSOR, SPIN SPEED
15	1	204737	HARNESS-PRODUCT, 1 BOOM

Parts Identification

Manifold, Spinner Motor - Controlled Spinner Drive (CSD) (N141475)

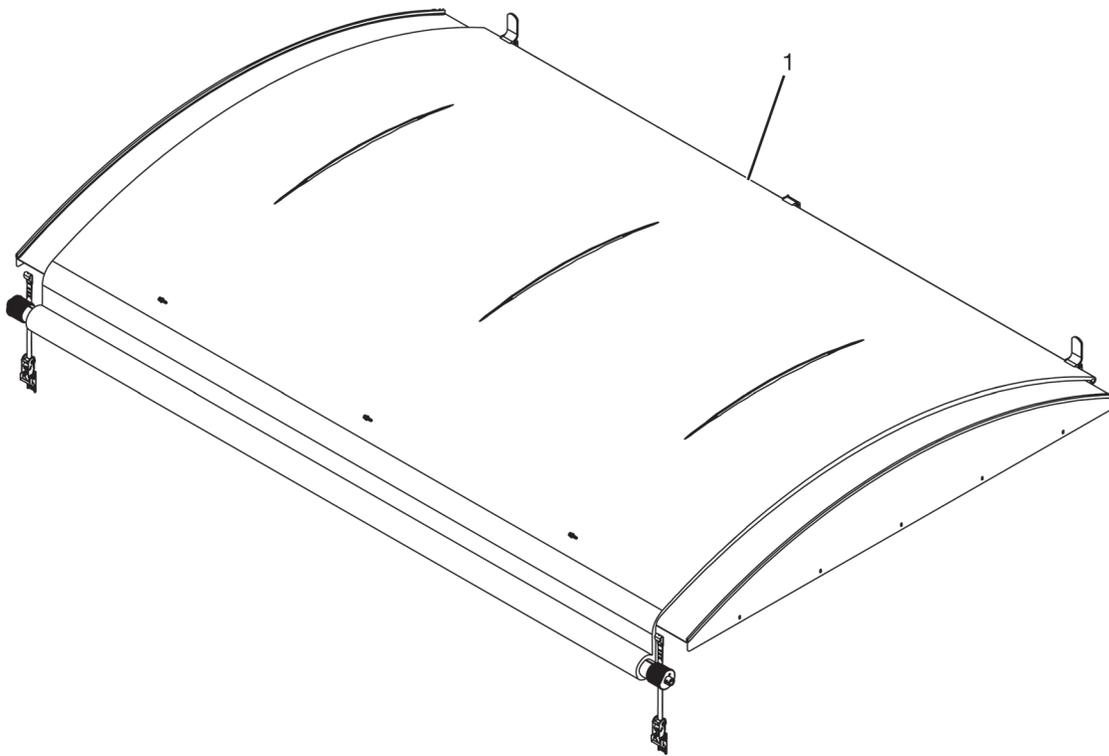


Manifold, Spinner Motor - Controlled Spinner Drive (CSD) (N141475)

#	QTY.	PART #	DESCRIPTION	CODE
				SPINNER
1	1	N139978	COIL, 12V 2 PIN DEUTSCH	C
2	1	204900	CARTRIDGE, FLOW REGULATOR	
3	1	N142518	COIL, 12VDC 3AMP DEUTSCH	
4	1	NOT SERVICEABLE	SUB N139978 and 204900	
5	1	204086	CARTRIDGE, TURN	
6	2	N26204	ELBOW, 90 DEG - 6MJIC - 6MOR	
7	7	N139982	PLUG, SAE -04	
8	1	N139970	BLOCK, MANIFOLD	
9	1	N142378	ELBOW, 90 DEG -4MJIC -4MORB	
10	2	N24821	ADAPTER, 6MOR - 6MJIC	
11	7	N139982	PLUG, SAE -04	

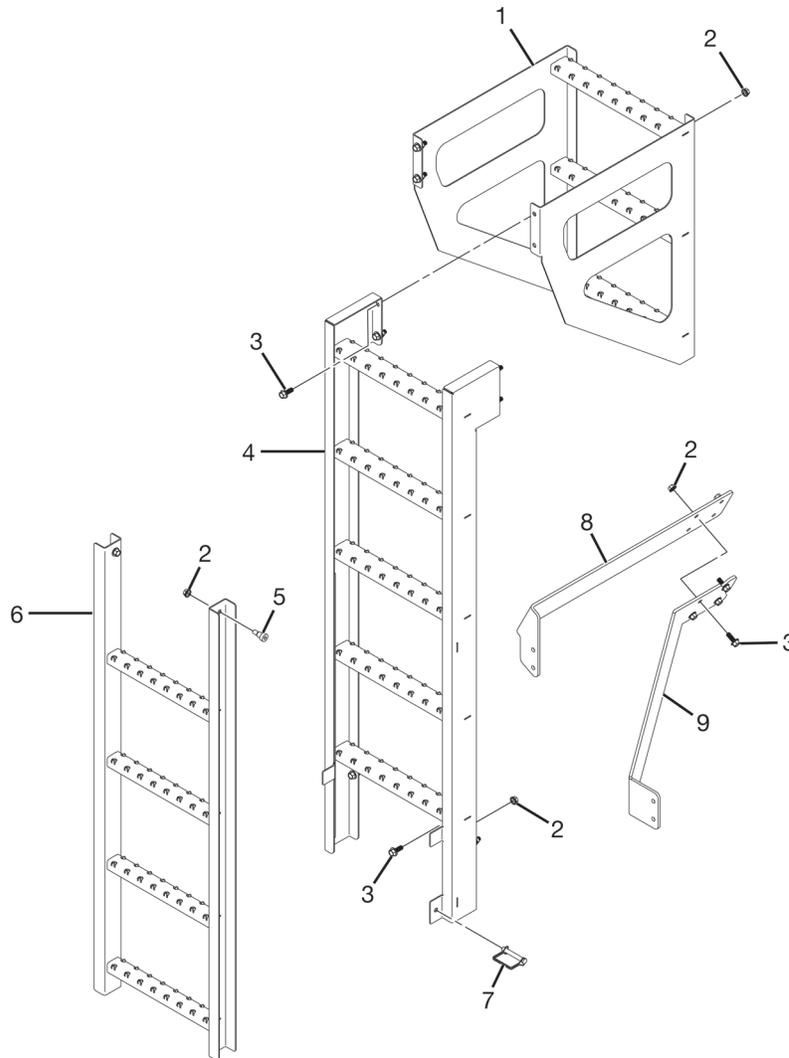
Parts Identification

Roll Tarp



#	QTY.	PART #	DESCRIPTION	CODE
				OPTIONS
1	1	204239	TARP KIT, BLUE	T

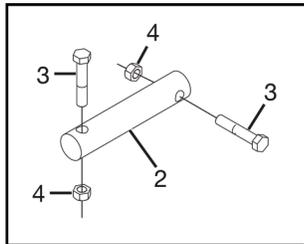
Ladder (203688)



#	QTY.	PART #	DESCRIPTION	CODE
				OPTION
1	1	203687	LADDER, L1230 HOPPER	L
2	16	N73940	NUT, LOCK 3/8" SER FLG SS	
3	16	N50815	BOLT, 3/8" X 1" SS SER FL GR 5	
4	1	203658	LADDER, WLDMT SPRD	
5	2	4037	BOLT, SHOULDER 1/2" X 1/2"	
6	1	203669	LADDER, WLDMT SPRD EXT	
7	1	N31221	PIN, 3/8" X 2-1/4" RETAINER	
8	1	203683	SUPPORT, L1230 LADDER ASM LH	
9	1	203684	SUPPORT, L1230 LADDER ASM RH	

Parts Identification

Hopper Support System

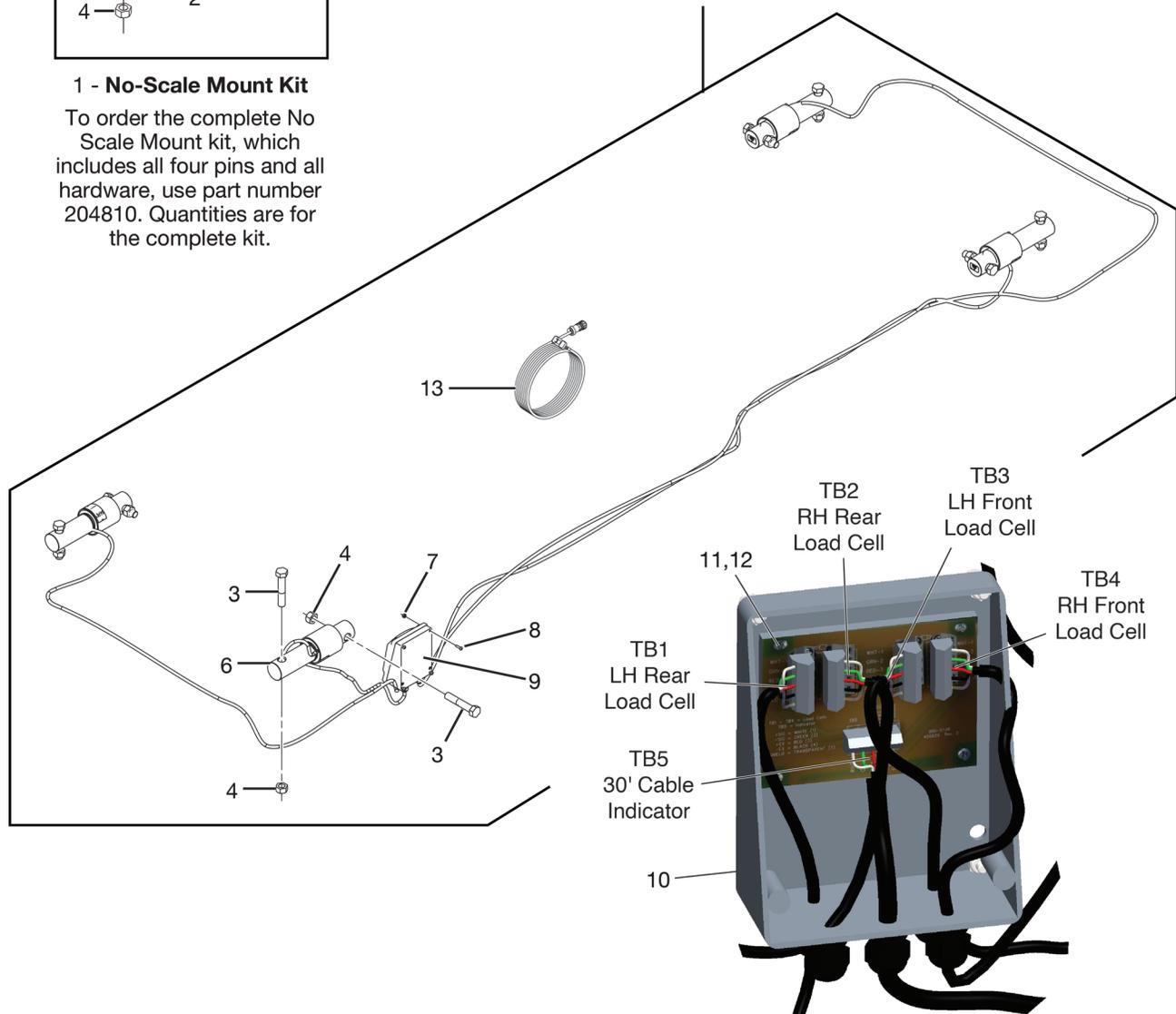


1 - No-Scale Mount Kit

To order the complete No Scale Mount kit, which includes all four pins and all hardware, use part number 204810. Quantities are for the complete kit.

5 - Scale Mount System

To order the complete No Scale Mount kit, which includes all four load cells, hardware, and J-Box kit, use part number 204809. Quantities are for the complete kit.



J-Box Connections

Load cell connection instructions

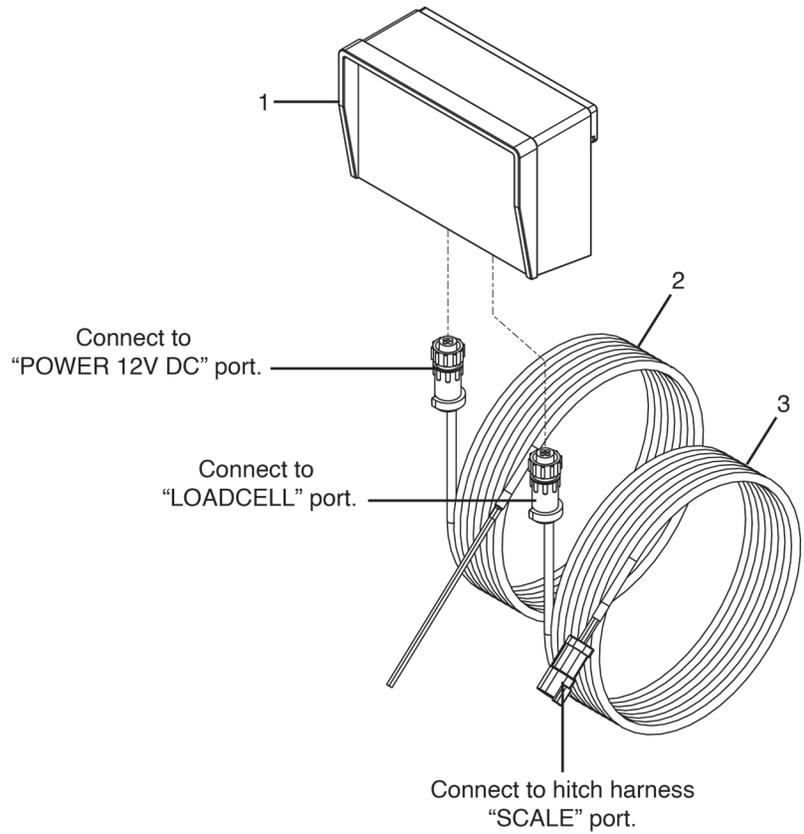
1. Connect indicator cable to J-box.
2. Connect indicator cable to scale display.
3. Connect load cells to J-box.
4. Test scale to verify that load stabilizes.
Load will increase with weight added to machine.
5. Install J-box cover.

Hopper Support System

#	QTY.	PART #	DESCRIPTION	CODE
				STEERING
1	4	204810	SCALE AR NONE	8
2	4	204799	BAR, DUMMY	
3	8	N156046	BOLT, 3/4" X 4" FN GRD 8	9, D
4	8	N16352	NUT, LOCK 3/4" GRADE 8 FINE	
5	1	204809	SCALE AR-4PT	
6	4	204193	LOAD CELL - 2.125" DB-21'	
7	4	N16334	NUT, NYLON INSERT #10	
8	4	N22358	BOLT, #10-32 X 3/4" BHCS	
9	1	204585	J-BOX 3PT/4PT	
10	1	N124852	KIT, J-BOX 3PT/4PT-30FT CBL	
11	4	N16334	NUT, NYLON INSERT #10	
12	4	N22358	BOLT, #10-32 X 3/4" BHCS	
13	1	204898	HARNESS, SCALE LEAD 15'	
	<i>As Required</i>	204899	HARNESS, SCALE LEAD 30'	

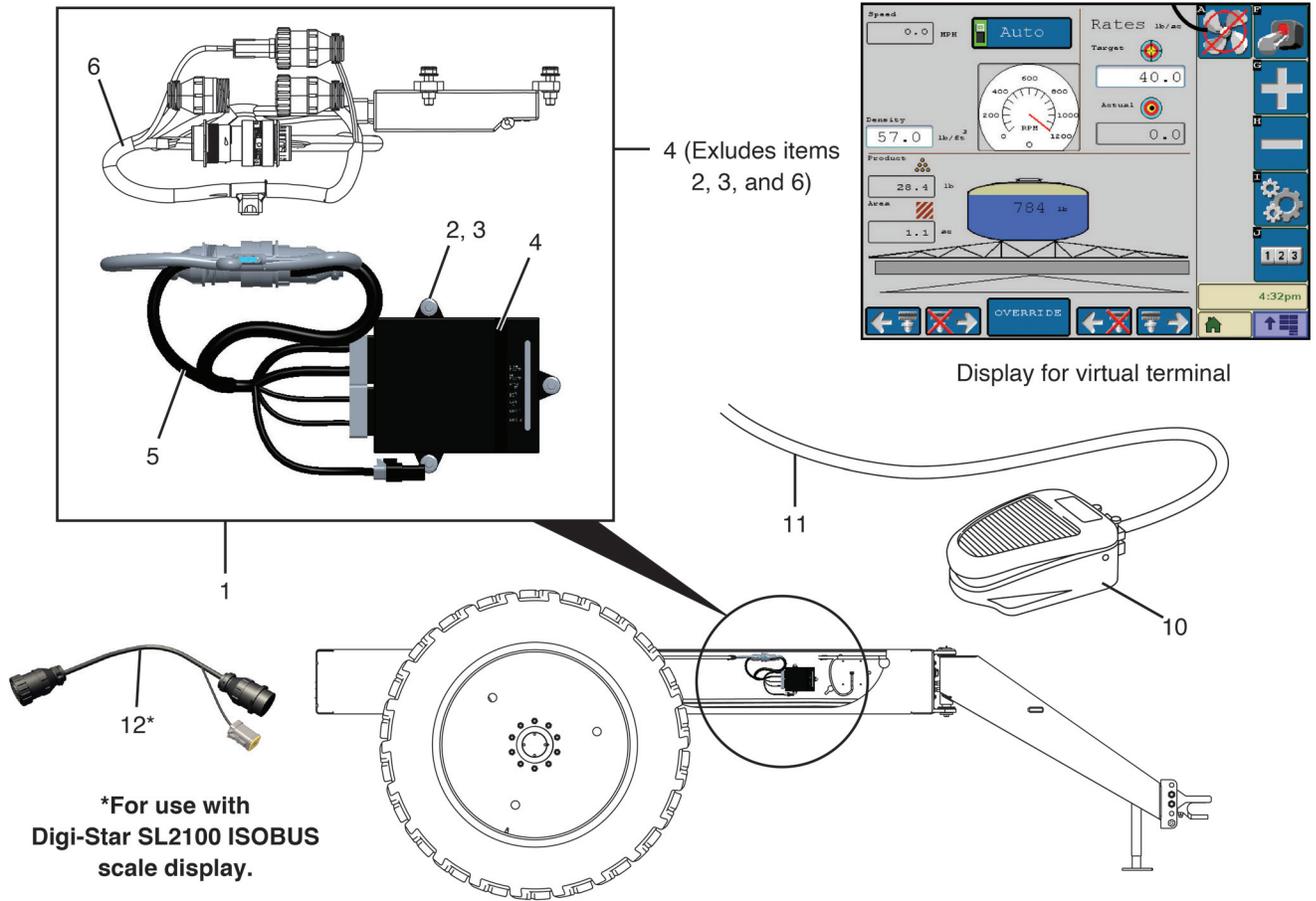
Parts Identification

Scale Electronics



#	QTY.	PART #	DESCRIPTION	CODE
				OPTIONS
1	1	N124848	GT400, SERIAL (J905) & REMOTE	M
2	1	N124850	CABLE, POWER 17' 2-WIRE	
3	1	204898	HARNESS, SCALE LEAD 15'	
	<i>As Required</i>	204899	HARNESS, SCALE LEAD 30'	

ISO Controller, AR Raven



*For use with
Digi-Star SL2100 ISOBUS
scale display.

Complete kit not shown.

#	QTY.	PART #	DESCRIPTION	CODE	
				AXLE	OPTIONS
1	1	204386	CONTROLLER AR-RAVEN ISO		
2	3	4979	NUT, LOCK 3/8" SER FLG		
3	3	N47855	BOLT, 3/8" X 1-1/4" SER FLG		
4	1	N89557	ECU-RAVEN ISO (Included in Item 1)		
5	1	204603	HARNESS-ISO 37 PIN PRODUCT (Included in Item 4)		
6	1	204398	HARNESS,ISO CONTROLLER (Included in Item 1)		
7	1	204346	NODE-ISO CONTROLLER (Included in Item 4)		
8	1	204597	HARNESS, RAVEN TERMINATOR (Included in Item 4)		
9	1	204599	TERMINATOR, POWELL ACTIVE (Included in Item 4)		
10	1	204646	SWITCH ASM, FOOT (Included in Item 4)		
11	1	204647	HARNESS, FOOT SWITCH (Included in Item 4)		
12	<i>As Required</i>	210705	HARNESS, ISOBUS SL2100 SCALE	9, D	

Parts Identification

Machine Decals and Signs

NOTE: All safety related decals are also shown in the Safety Instructions section of the Operator's Manual, along with their location on the machine.

Check and replace any worn, torn, hard to read or missing decals on your machine.

Part No. N35391



Part No. N35380



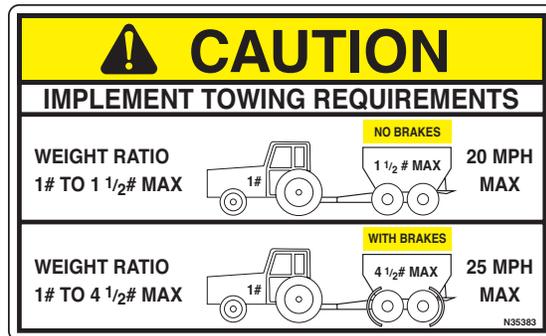
Part No. N23507



Part No. 204329



Part No. N35383



Part No. N105404



Part No. 203264



Part No. N35387



Machine Decals and Signs (Cont'd)

Part No. 4132



Part No. N13517



Part No. 4138



Part No. 204748



Part No. N13721



Part No. N35393



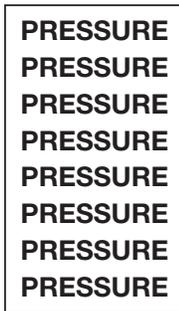
Part No. N35392



Part No. N47490



Part No.
N24822



Part No.
N113696



Part No.
204355



Part No. 204330



Part No.
N24823



Part No.
N113698



Part No.
204356



Part No. 209528





Torque Specifications

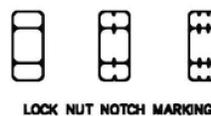
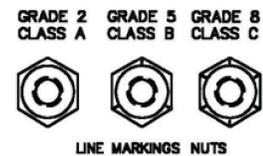
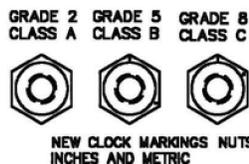
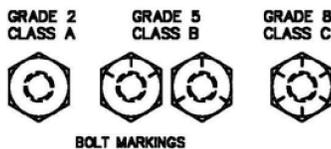
Inches Hardware and Lock Nuts

TORQUE CHARTS

Minimum Hardware Tightening Torques

Normal Assembly Applications
(Standard Hardware and Lock Nuts)

SAE Gr. 2 Nominal Size	SAE Grade 5		SAE Grade 8		LOCK NUTS			
	Unplated or Plated Silver	Plated W / ZnCr Gold	Unplated or Plated Silver	Plated W / ZnCr Gold	Unplated or Plated Silver	Plated W / ZnCr Gold	Grade W / Gr. 5 Bolt	Grade W / Gr. 8 Bolt
1/4	55 in.-lb. (6.2 N•m)	72 in.-lb. (8.1 N•m)	86 in.-lb. (9.7 N•m)	112 in.-lb. (12.6 N•m)	121 in.-lb. (13.6 N•m)	157 in.-lb. (17.7 N•m)	61 in.-lb. (6.9 N•m)	86 in.-lb. (9.8 N•m)
5/16	115 in.-lb. (13 N•m)	149 in.-lb. (17 N•m)	178 in.-lb. (20 N•m)	229 in.-lb. (26 N•m)	250 in.-lb. (28 N•m)	324 in.-lb. (37 N•m)	125 in.-lb. (14 N•m)	176 in.-lb. (20 N•m)
3/8	17 ft.-lb. (23 N•m)	22 ft.-lb. (30 N•m)	26 ft.-lb. (35 N•m)	34 ft.-lb. (46 N•m)	37 ft.-lb. (50 N•m)	48 ft.-lb. (65 N•m)	19 ft.-lb. (26 N•m)	26 ft.-lb. (35 N•m)
7/16	27 ft.-lb. (37 N•m)	35 ft.-lb. (47 N•m)	42 ft.-lb. (57 N•m)	54 ft.-lb. (73 N•m)	59 ft.-lb. (80 N•m)	77 ft.-lb. (104 N•m)	30 ft.-lb. (41 N•m)	42 ft.-lb. (57 N•m)
1/2	42 ft.-lb. (57 N•m)	54 ft.-lb. (73 N•m)	64 ft.-lb. (87 N•m)	83 ft.-lb. (113 N•m)	91 ft.-lb. (123 N•m)	117 ft.-lb. (159 N•m)	45 ft.-lb. (61 N•m)	64 ft.-lb. (88 N•m)
9/16	60 ft.-lb. (81 N•m)	77 ft.-lb. (104 N•m)	92 ft.-lb. (125 N•m)	120 ft.-lb. (163 N•m)	130 ft.-lb. (176 N•m)	169 ft.-lb. (229 N•m)	65 ft.-lb. (88 N•m)	92 ft.-lb. (125 N•m)
5/8	83 ft.-lb. (112 N•m)	107 ft.-lb. (145 N•m)	128 ft.-lb. (174 N•m)	165 ft.-lb. (224 N•m)	180 ft.-lb. (244 N•m)	233 ft.-lb. (316 N•m)	90 ft.-lb. (122 N•m)	127 ft.-lb. (172 N•m)
3/4	146 ft.-lb. (198 N•m)	189 ft.-lb. (256 N•m)	226 ft.-lb. (306 N•m)	293 ft.-lb. (397 N•m)	319 ft.-lb. (432 N•m)	413 ft.-lb. (560 N•m)	160 ft.-lb. (217 N•m)	226 ft.-lb. (306 N•m)
7/8	142 ft.-lb. (193 N•m)	183 ft.-lb. (248 N•m)	365 ft.-lb. (495 N•m)	473 ft.-lb. (641 N•m)	515 ft.-lb. (698 N•m)	667 ft.-lb. (904 N•m)	258 ft.-lb. (350 N•m)	364 ft.-lb. (494 N•m)
1	213 ft.-lb. (289 N•m)	275 ft.-lb. (373 N•m)	547 ft.-lb. (742 N•m)	708 ft.-lb. (960 N•m)	773 ft.-lb. (1048 N•m)	1000 ft.-lb. (1356 N•m)	386 ft.-lb. (523 N•m)	545 ft.-lb. (739 N•m)



Appendix

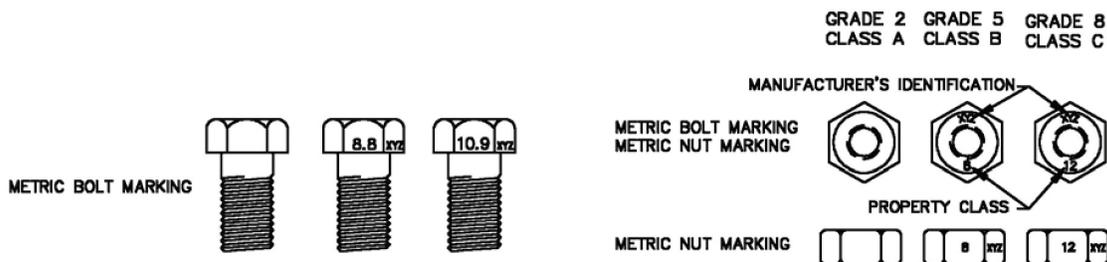
Torque Specifications (Cont'd)

Metric Hardware and Lock Nuts

TORQUE CHARTS Minimum Hardware Tightening Torques

Normal Assembly Applications
(Metric Hardware and Lock Nuts)

Nominal Size	Class 5,8		Class 8,8		Class 10,9		Lock nuts Class 8 W / CL. 8,8 Bolt
	Unplated or Plated Silver	Plated W / ZnCr Gold	Unplated or Plated Silver	Plated W / ZnCr Gold	Unplated or Plated Silver	Plated W / ZnCr Gold	
M4	1.7 N•m (15 in.-lb.)	2.2 N•m (19 in.-lb.)	2.6 N•m (23 in.-lb.)	3.4 N•m (30 in.-lb.)	3.7 N•m (33 in.-lb.)	4.8 N•m (42 in.-lb.)	1.8 N•m (16 in.-lb.)
M6	5.8 N•m (51 in.-lb.)	7.6 N•m (67 in.-lb.)	8.9 N•m (79 in.-lb.)	12 N•m (102 in.-lb.)	13 N•m (115 in.-lb.)	17 N•m (150 in.-lb.)	6.3 N•m (56 in.-lb.)
M8	14 N•m (124 in.-lb.)	18 N•m (159 in.-lb.)	22 N•m (195 in.-lb.)	28 N•m (248 in.-lb.)	31 N•m (274 in.-lb.)	40 N•m (354 in.-lb.)	15 N•m (133 in.-lb.)
M10	28 N•m (21 ft.-lb.)	36 N•m (27 ft.-lb.)	43 N•m (32 ft.-lb.)	56 N•m (41 ft.-lb.)	61 N•m (45 ft.-lb.)	79 N•m (58 ft.-lb.)	30 N•m (22 ft.-lb.)
M12	49 N•m (36 ft.-lb.)	63 N•m (46 ft.-lb.)	75 N•m (55 ft.-lb.)	97 N•m (72 ft.-lb.)	107 N•m (79 ft.-lb.)	138 N•m (102 ft.-lb.)	53 N•m (39 ft.-lb.)
M16	121 N•m (89 ft.-lb.)	158 N•m (117 ft.-lb.)	186 N•m (137 ft.-lb.)	240 N•m (177 ft.-lb.)	266 N•m (196 ft.-lb.)	344 N•m (254 ft.-lb.)	131 N•m (97 ft.-lb.)
M20	237 N•m (175 ft.-lb.)	307 N•m (226 ft.-lb.)	375 N•m (277 ft.-lb.)	485 N•m (358 ft.-lb.)	519 N•m (383 ft.-lb.)	671 N•m (495 ft.-lb.)	265 N•m (195 ft.-lb.)
M24	411 N•m (303 ft.-lb.)	531 N•m (392 ft.-lb.)	648 N•m (478 ft.-lb.)	839 N•m (619 ft.-lb.)	897 N•m (662 ft.-lb.)	1160 N•m (855 ft.-lb.)	458 N•m (338 ft.-lb.)



NOTE: CLASS 2 IN METRIC IS 5.8

LOFTNESS SPECIALIZED EQUIPMENT, INC.

LIMITED WARRANTY POLICY

The limited warranty policy begins upon delivery of the unit to the original customers.

The following Loftness products have a two (2) year limited warranty;

XLB10 Grain Bag Loader, Battle Ax L-series Skid Steer, Battle Ax S-series Skid Steer, Battle Ax H-series Skid Steer, Battle Ax Excavator 20-series, Battle Ax Excavator 30-series, Battle Ax Excavator 40-series, Battle Ax Excavator 50-series, Battle Ax Extreme, Bad Ax Skid Steer, Timber Ax Skid Steer, Stump Ax, BT20, Kwik Cut.

All other Loftness products have a one (1) year limited warranty.

If any Loftness product is used as rental or leased equipment the limited warranty period is for only 30 days from the delivery date to the original customers.

Loftness Specialized Equipment, hereinafter referred to as LOFTNESS, a manufacturer of quality machinery since 1956, warrants new LOFTNESS machinery and/or attachments at the time of delivery to the original purchaser, to be free from defects in material and workmanship when properly set up and operated in accordance with the recommendations set forth in the LOFTNESS Operator's Manual.

LOFTNESS' liability for any defect with respect to accepted goods shall be limited to repairing the goods at an authorized dealer or other LOFTNESS designated location, or replacing them as LOFTNESS shall elect. The above shall be in accordance with LOFTNESS warranty adjustment policies.

WARRANTY REQUIREMENTS

Warranty registration form must be filled out and returned to Loftness Specialized Equipment to validate all warranty claims.

To receive a warranty claim, a return authorization from LOFTNESS must be obtained. The failed part may then be returned in an untampered status. This warranty does not include freight or delivery charges incurred when returning machinery for servicing. Dealer mileage, service calls and pick-up/delivery charges are the customer's responsibility.

LIMITATIONS OF WARRANTY

LOFTNESS products are designed to provide years of dependable service when proper use and maintenance is adhered to. The potential for misuse in many applications exists; therefore, a limited warranty is provided as follows.

This warranty shall not apply to any machine or attachment which shall have been repaired or altered outside the LOFTNESS factory or authorized LOFTNESS dealership or in any way so as in LOFTNESS' judgment, to affect its stability or reliability, nor which has been subject to misuse, negligence or accident, nor to any machine or attachment which shall not have been operated in accordance with LOFTNESS' printed instructions or beyond the company recommended machine rated capacity. LOFTNESS may elect to have an area representative evaluate the condition of the machine before warranty is considered.

In addition, this limited warranty provides no coverage for general wear or maintenance items, misuse, environmental conditions and/or contamination for which they were not designed or not intended, including but not limited to the following items;

Use of machine beyond its rated capacity, Conveyors, Improper knife replacement, Auger wear, Missing knives, Saw blades, Striking foreign objects, Brakes and brake pads, Lack of lubrication, Tires, Failures caused by running in an "out-of-balance" condition, Hydraulic hoses damaged by being caught in "pinch points" or by moving parts, and Damage caused by excessive force from the power unit.

EXCLUSIONS OF WARRANTY

Except as otherwise expressly stated herein, LOFTNESS makes no representation or warranty of any kind, expressed or implied. **The implied warranty of merchantability and fitness for a particular purpose are excluded from this limited warranty.** The remedies set forth in this warranty are the only remedies available to any person under this warranty. LOFTNESS shall have no liability to any person for incidental, consequential or special damages of any description, whether arising out of express or implied warranty or any other contract, negligence, or other tort or otherwise. This exclusion of consequential, incidental and special damages is independent from and shall survive any finding that the exclusive remedy failed of its essential purpose. Upon purchase, the buyer assumes all liability, all personal injury and property damage resulting from the handling, possession or use of the goods by the buyer.

No agent, employee or representative of LOFTNESS has any authority to bind LOFTNESS to any affirmation, representation or warranty concerning its machinery and/or attachments except as specifically set forth herein. (August 2023)



www.loftness.com

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