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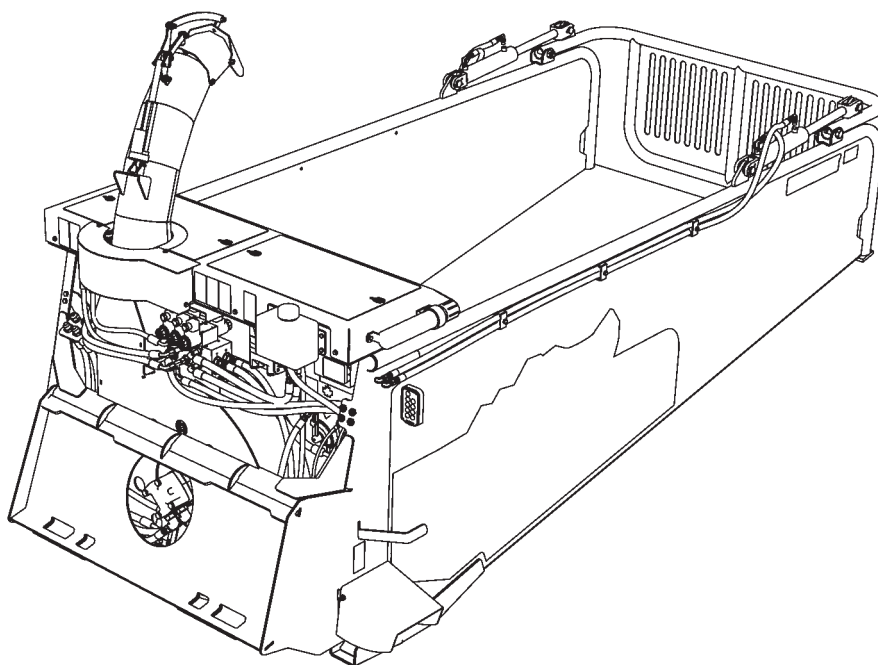
Parts Manual

Keep this manual with the machine at all times.



Bale Gator

346



Parts Manual

Thank you for choosing the Tubeline Bale Gator bale processor. We know that it will give you many years of productive service. This machine is designed to process bales and spread them over a desired area.

Parts Manual Usage

This parts manual is used to order replacement parts by means of part breakdowns and their corresponding part lists. Each page contains a different range of integrated parts. Each illustration visually represents machine components. The part lists contain information needed to order replacement parts. Part lists include the following columns:

ITEM - Number matching parts breakdown balloons.

QTY - Quantity of components included in this breakdown, not entire machine.

REV - Revision number, represents a change to a part, if applicable, add it to replacement part order.

PART NUMBER - The number to be used when placing an order.

DESCRIPTION - Term used to confirm its matching part number.

NOTE - Column may be added to part lists when a serial break or additional information is required.

Remember to always have your machine model and serial number on hand when ordering parts.

Part Orders

Part orders are taken by your local Tubeline dealer and fulfilled through a regional distributor. For quick service please record your dealer name and contact information in the [Serial Number](#) section.

Manuals

Parts manuals are printed and shipped with machines as they leave the manufacturer. Your machine may include parts or features not yet included in the initially shipped manual. The latest manual version can be found at www.tubeline.ca/support.php. Tubeline reserves the right to update and change manuals as seen fit. Dealers are informed of any pressing changes/ modifications. They can help you with any questions regarding replacement parts.

Serial Plate Location

The implement serial number is located underneath the flail drum motor, *see below*. This number helps us to track changes and improvements and must be mentioned when ordering parts or requesting service. For your convenience, a space has been provided inside the front cover of this manual to record the serial number, model number, purchase date, and dealer name.

Model No: _____ 346 _____

Serial No: _____

Date Purchased: _____

Dealer Name: _____

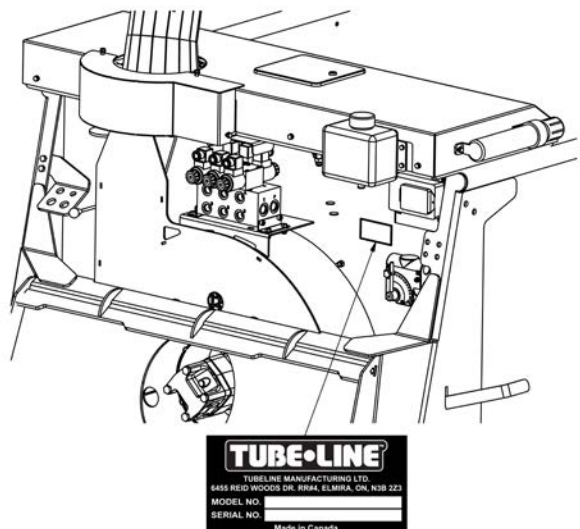
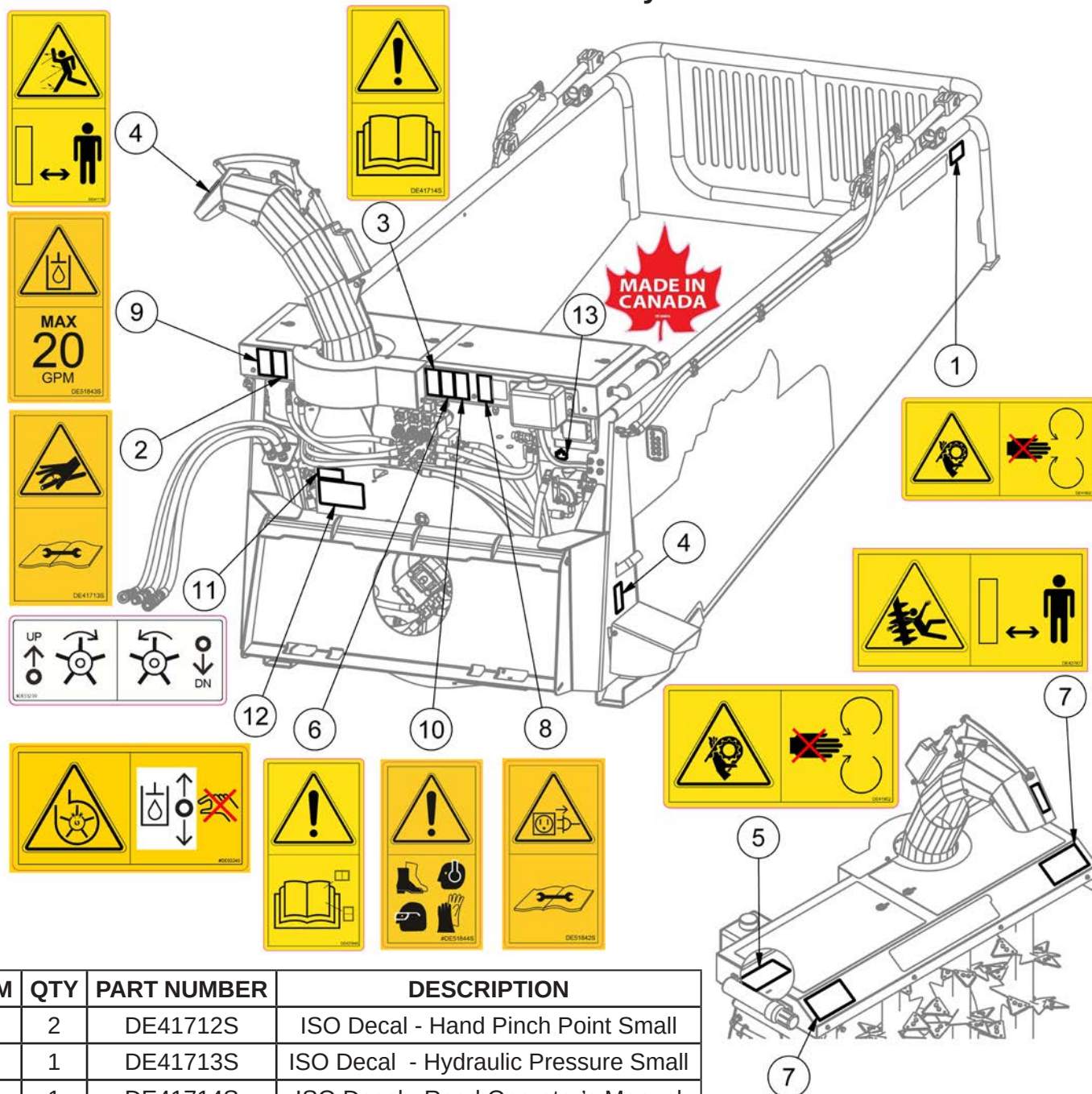


Table of Contents

Parts Manual	I
Parts Manual Usage	I
Part Orders	I
Manuals	I
Serial Plate Location	I
Section 1 - Decals	1-1
DE53216 - Bale Gator Safety Decal Kit	1-1
DE53227 - BG346 Model Decal Kit	1-2
Section 2 - Replacement Parts	2-1
Bale Gate	2-2
Augers - Up to SN 26BG201	2-4
Augers - SN 26BG201 to Current	2-6
Augers Chain Drive - Up to SN 26G201	2-8
Augers Chain Drive - SN 26BG201 to Current	2-10
Blower Fan	2-12
Discharge Chute	2-14
Flow Control	2-16
Case Drain	2-18
Manifold & Remote Control	2-19
Chain Drive Oiler - Up to SN 26BG201	2-20
Chain Drive Oiler - SN 26BG405 - Current	2-22
Imperial Torque Values	IV
Metric Torque Values	V

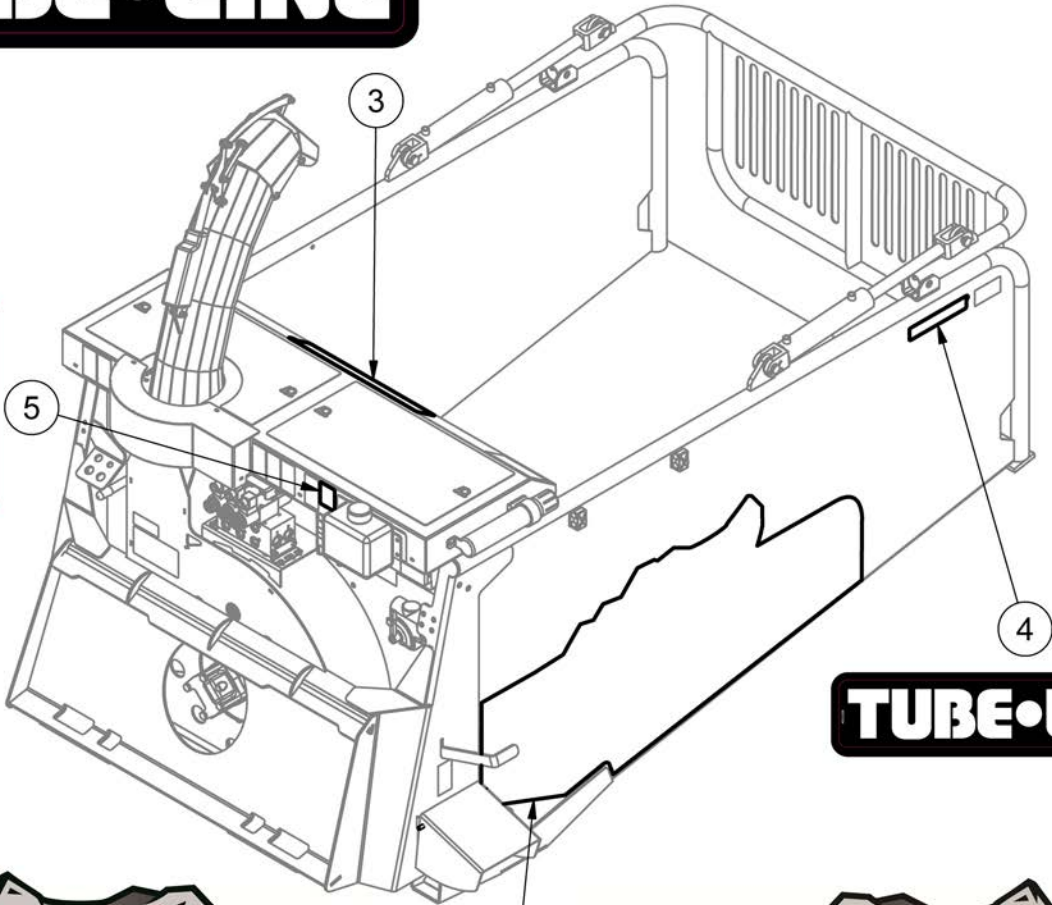
Section 1 - Decals

DE53216 - Bale Gator Safety Decal Kit



ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	DE41712S	ISO Decal - Hand Pinch Point Small
2	1	DE41713S	ISO Decal - Hydraulic Pressure Small
3	1	DE41714S	ISO Decal - Read Operator's Manual
4	2	DE41718S	ISO Decal - Hydraulic Pressure Small
5	1	DE41902	ISO Decal - Chain Entanglement
6	1	DE42784S	ISO Decal - Read OM Decal Section
7	2	DE42787	ISO Decal - Nitro Beater Entanglement
8	1	DE51842S	ISO Decal - Disconnect Power Small
9	1	DE51843S	ISO Decal - Max 20GPM Small
10	1	DE51844S	ISO Decal - ISO Use PPE Small
11	1	DE53239	Blower Fan Direction Decal
12	1	DE53240	ISO Decal - Vertical Lock
13	1	DECANADA	Decal Made In Canada

DE53227 - BG346 Model Decal Kit



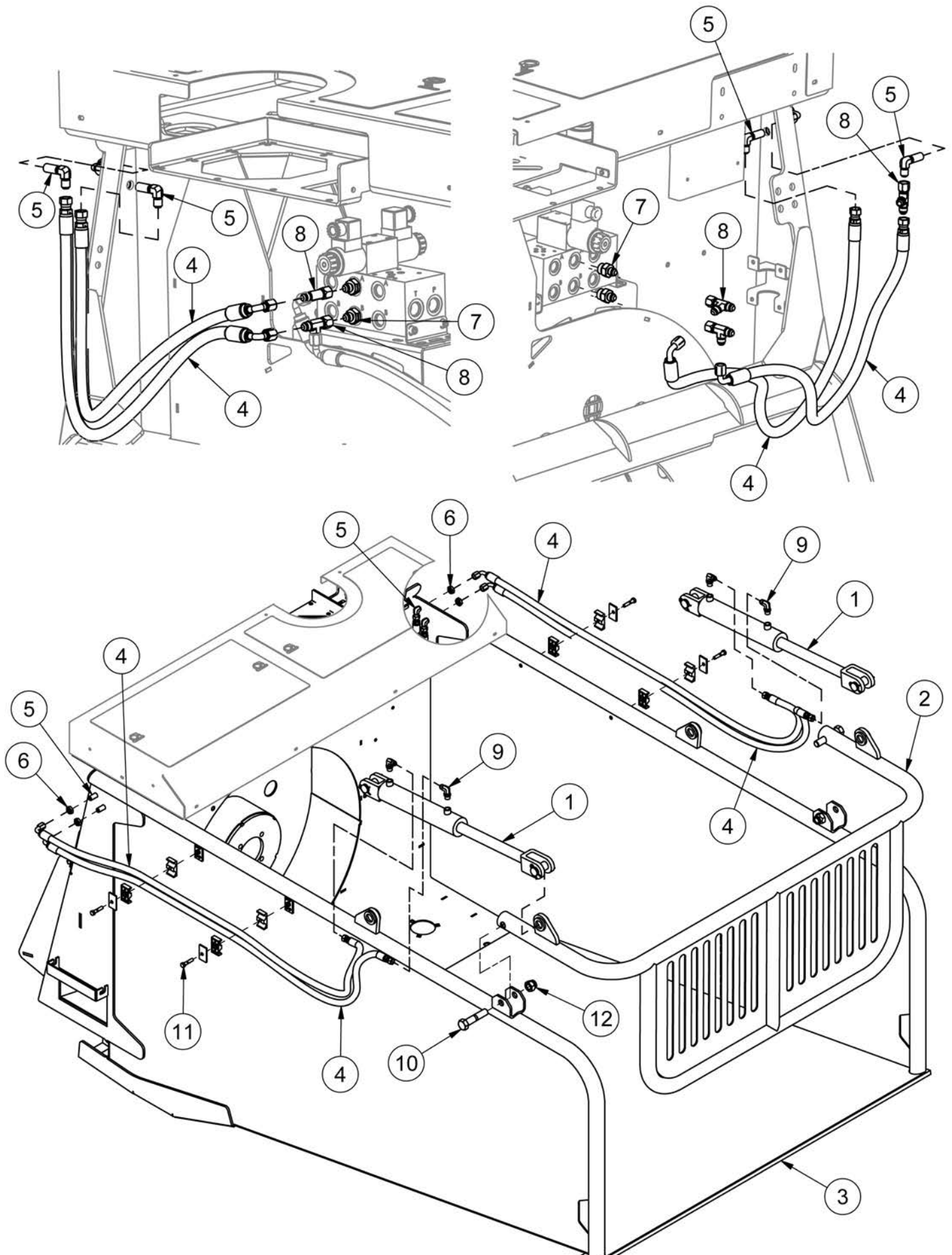
1
2



ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	DE51948L	Bale Gator 346 Model Decal
2	1	DE51948R	Bale Gator 346 Model Decal
3	1	DE52200	Black Tubeline Decal 3.4x19in
4	2	DE52201	Black Tubeline Decal 2x8.3
5	1	DE53421	Bale Gator 346 QR Code Decal

Section 2 - Replacement Parts

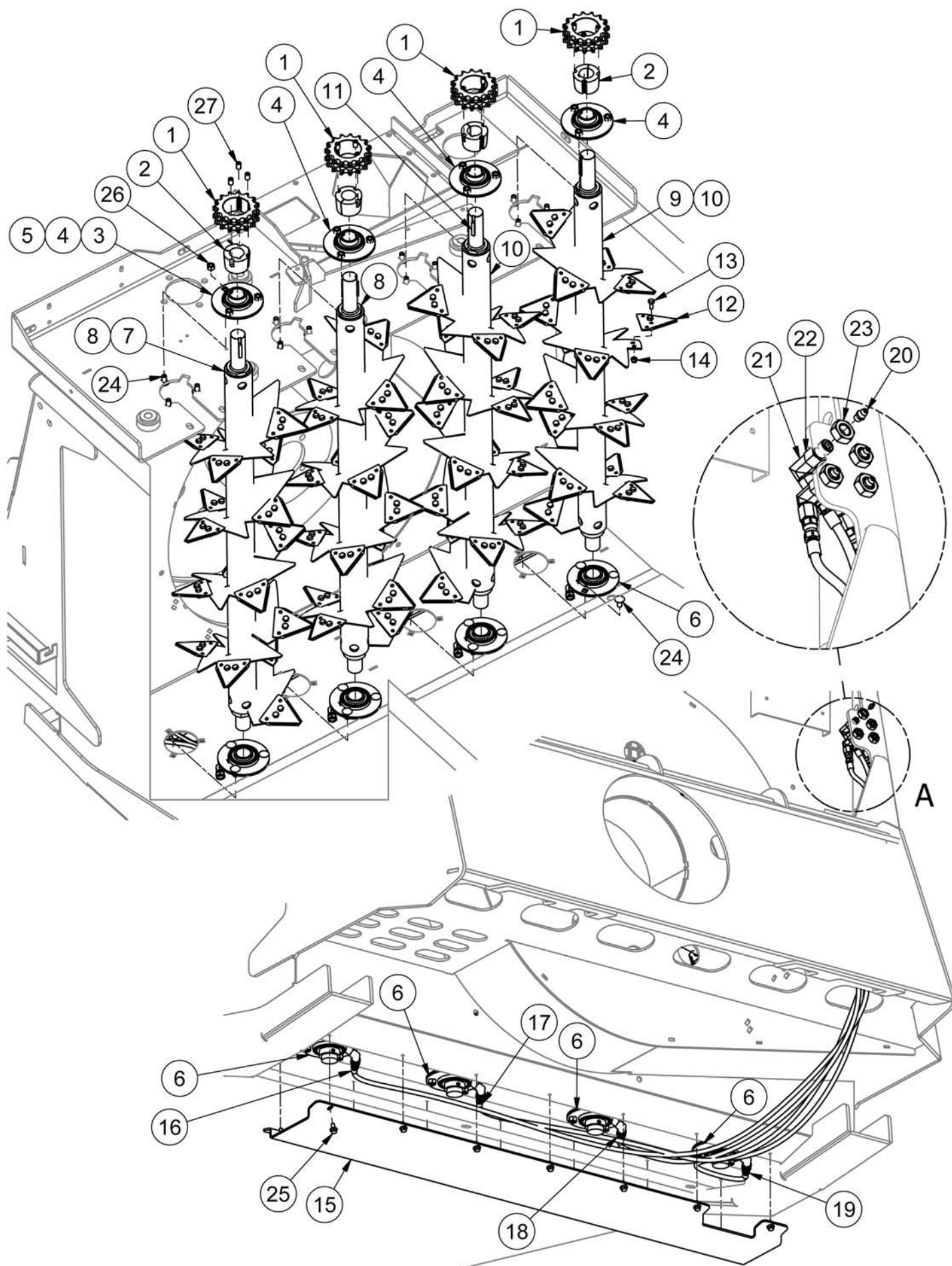
Bale Gate



Bale Gate

ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	53000	2" Bore x 8" Stroke Double Acting Eagle Hydraulic Cylinder
2	1	53031	Gate Weldment
3	1	53235	346 Main Frame
4	8	52093	Hose - HH60 - 4AT2(6FJX-6FJX90) HCL 60"
5	4	HF 2701-06-06	Bulkhead Elbow Fitting - 3/8
6	4	HF 306-6	Hyd Fitting - 3/8 Adjustable Lock Nut
7	2	HF 6400-6-8	Hyd Fitting -Male JIC - Male ORB
8	3	HF 6602-6-6-6	Hyd. Fitting Run Tee M-JIC/F-JIC-M-JIC
9	4	HF 6801-6-6	Hydraulic Fitting - 90 Degree JIC to O-Ring
10	2	HB3/4-10X3.5Z5	Hex Bolt 3/4-10x3 1/2 Grade 5 Zinc Plated Hex Cap Screw
11	4	LA-HOSE CLAMP	Hose Clamps for 3/8 Hose
12	2	LN3/4-10NCZ5	LN 3/4-10 Zinc Plated Nylon Insert Lock Nut

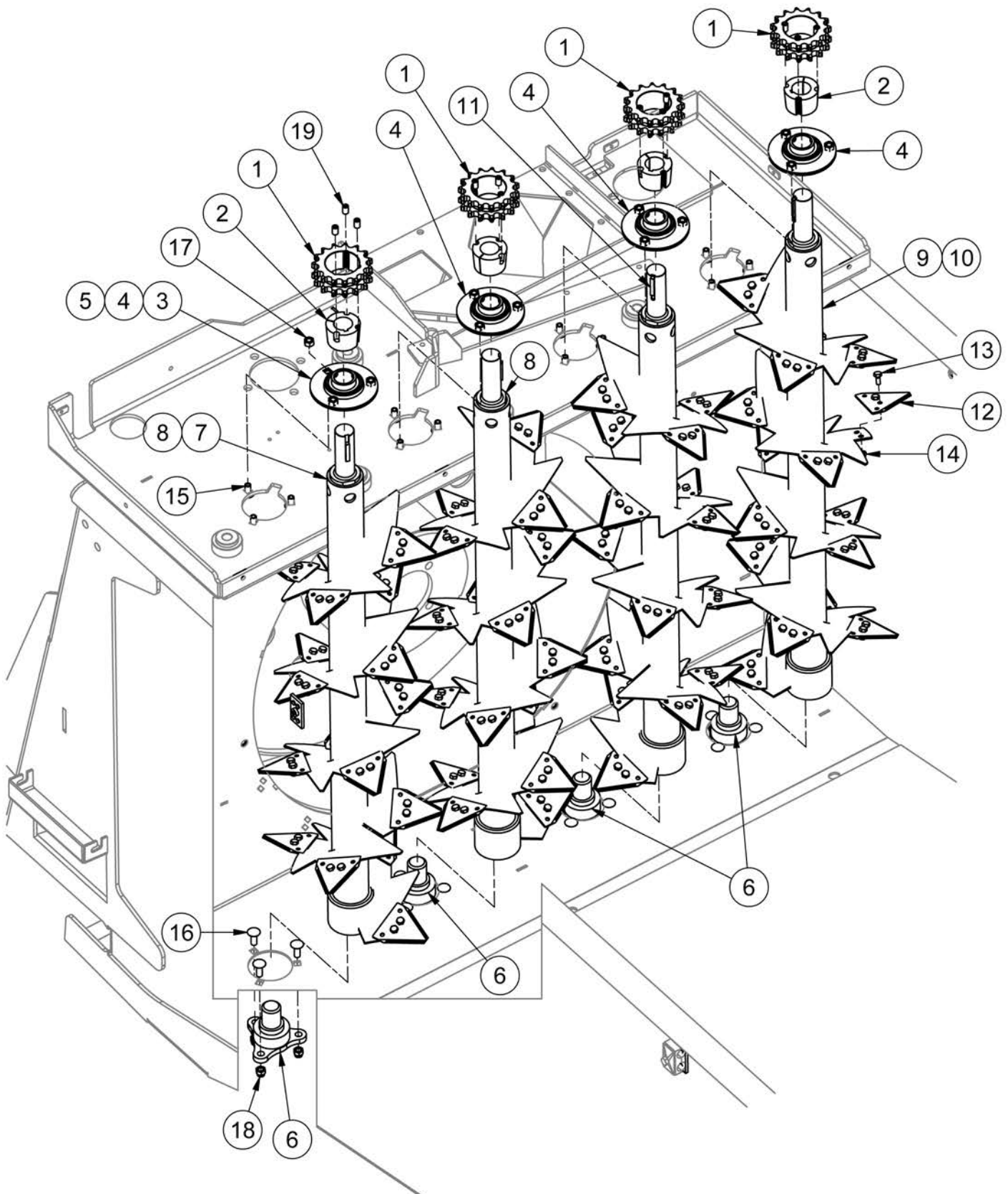
Augers - Up to SN 26BG201



Augers - Up to SN 26BG201

ITEM	QTY	REV	PART NUMBER	DESCRIPTION	NOTE
1	4		52041	15 Tooth Double Sprocket	
2	4		52044	1615-1.25 Taper Bushing	
3	4		53002	Bearing Assembly	Items 4,5
4	1		53100	PF206 - 3 Bolt Steel Flange Plated (1 Set)	
5	1		53200	UC206-104D1 - 1.25" Bore c/w Set Screws NTN	
6	4		53003	Bearing Assembly w/ Grease Fitting	
7	2	0	53013	Right Auger Assembly	Items 8, 11-15
8	1	0	53016	Right Auger Weldment	
9	2	0	53015	Left Auger Assembly	
10	1	0	53017	Left Auger Weldment	Items 11-14
11	1		53171	Sprocket Key	Qty/ Auger
12	16		53238	Bale Knife w/holes	Qty/ Auger
13	32		HB1/4-20X0.625Z5	Hex Bolt 1/4-20x5/8 Gr 5 Zinc Hex Cap Screw	Qty/ Auger
14	32		LN1/4-20NCZ5	LN 1/4-20 Zinc Plated Nylon Insert Lock Nut	Qty/ Auger
15	1		53122	Bearing Guard	
16	1		52143	Hose - HH83 - 2R7(2MPX,2MPX) HCL 83"	
17	1		52144	Hose - HH73 - 2R7(2MPX,2MPX) HCL 73"	
18	1		52145	Hose - HH63 - 2R7(2MPX,2MPX) HCL 63"	
19	1		52146	Hose - HH54 - 2R7(2MPX,2MPX) HCL 54"	
20	4		GR 1/4 X 28	Grease Fitting 1/4-28 Straight Standard Zerk	
21	4		HF 1501-2-2	Hyd. Adapter Male to Female 90 Degree	
22	4		HF52036	Grease Bulkhead Adaptor	
23	4		HNJ1/2-13	Hex Nut - 1/2-13 Zinc Plated Hex Jam Nut	
24	24		CB3/8-16X0.75CZ5	Carriage Bolt - 3/8-16 x 3/4" Grade 5 Zinc	
25	14		HBC1/4X0.5	Hex Bolt Cerrated 1/4-20 x 1/2 Zinc Flange Bolt	
26	24		LN3/8-16CCZA	Center Lock Nut 3/8"-16 Grade A Zinc Plated	
27	12		SS3/8-16CX0.625CP	Allan Head Set Screw, 3/8-16 x 5/8	

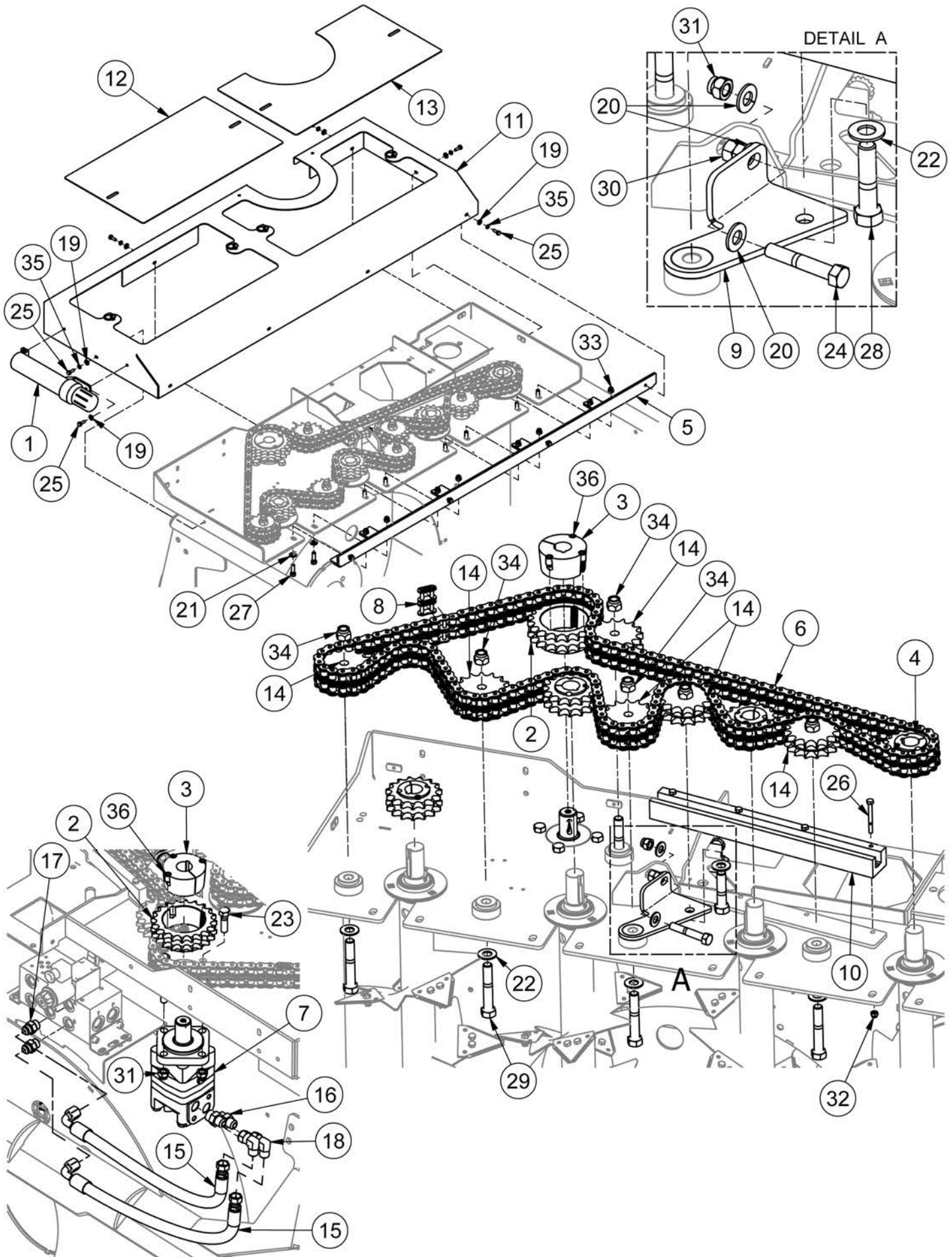
Augers - SN 26BG201 to Current



Augers - SN 26BG201 to Current

ITEM	QTY	REV	PART NUMBER	DESCRIPTION	NOTE
1	4		52041	15 Tooth Double Sprocket	
2	4		52044	1615-1.25 Taper Bushing	
3	4		53002	Bearing Assembly	Items 4,5
4	1		53100	PF206 - 3 Bolt Steel Flange Plated (1 Set)	
5	1		53200	UC206-104D1 - 1.25" Bore c/w Set Screws NTN	
6	4	0	52322	Spindle Assembly	
7	2	1	53013	Right Auger Assembly	Items 8, 11-14
8	1	0	53531	Right Auger Weldment	
9	2	1	53015	Left Auger Assembly	Items 10-14
10	1	0	52318	Left Auger Weldment	
11	1		53171	Sprocket Key	Qty/ Auger
12	16		53238	Bale Knife w/holes	Qty/ Auger
13	32		HB1/4-20X0.625Z5	Hex Bolt 1/4-20x5/8 Gr 5 Zinc Hex Cap Screw	Qty/ Auger
14	32		LN1/4-20NCZ5	LN 1/4-20 Zinc Plated Nylon Insert Lock Nut	Qty/ Auger
15	12		CB3/8-16X0.75CZ5	Carriage Bolt - 3/8-16 x 3/4" Grade 5 Zinc	
16	12		CB3/8-16X1CZ5	Carriage Bolt - 3/8-16 x 1" Grade 5 Zinc	
17	12		LN3/8-16CCZA	Center Lock Nut 3/8"-16 Grade A Zinc Plated	
18	12		LN3/8-16NCZ5	LN 3/8-16 Zinc Plated Nylon Insert Lock Nut	
19	12		SS3/8-16CX0.625CP	Allan Head Set Screw, 3/8-16 x 5/8	

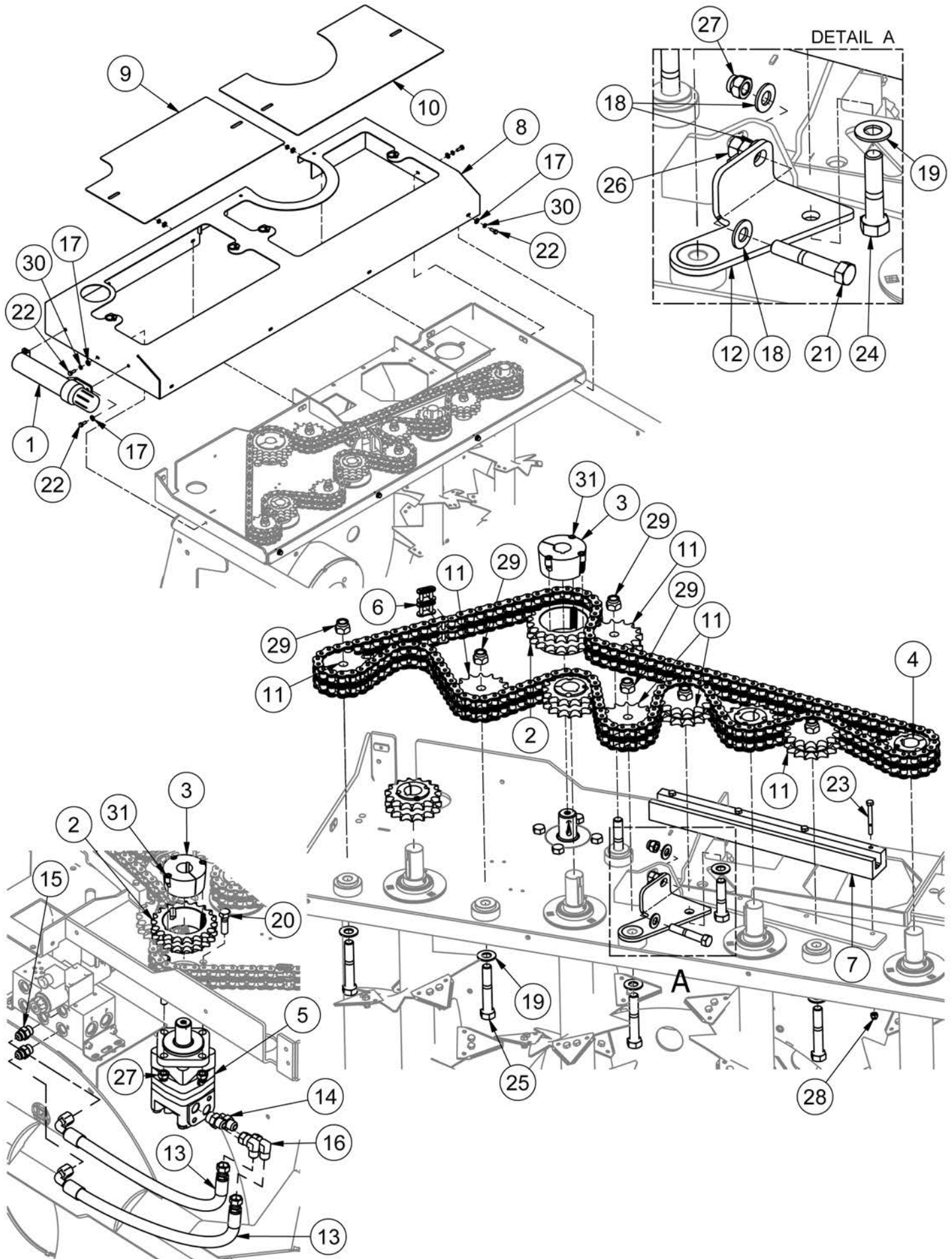
Augers Chain Drive - Up to SN 26G201



Augers Chain Drive - Up to SN 26G201

ITEM	QTY	REV	PART NUMBER	DESCRIPTION
1	1		32854	Small Operators Manual Holder
2	1		52042	20 Tooth Double Sprocket
3	1		52043	2517-1.25 Taper Bushing
4	4		52044	1615-1.25 Taper Bushing
5	1		53004	Cover Mount
6	2		53036	RS60-1 Drive Chain
7	1		53051	80 CC Motor 4 Bolt SAE Mount
8	2		53103	#60 Connecting Link
9	1		53115	Chain Tightener Arm
10	1		53125	Chain Guide
11	1	0	53296	Cover Assembly
12	1	0	53301	Cover Plate Assembly Right
13	1	0	53322	Cover Plate Assembly Left
14	6		53400	Double 15 Tooth, #60 Chain Idler 5/8" Bore
15	2		52142	Hose - HH21 - 8AT2(8FJX,8FJX90) HCL 21"
16	2		HF 6400-8-10	Hyd Fitting - Male JIC - Male ORB
17	2		HF 6400-8-8	Hydraulic Fitting - O-Ring to JIC Adapter
18	2		HF 6500-8-8	Hydraulic Elbow - 1/2 MJIC - 1/2 FJIC
19	11		FW 1/4	Flatwasher - 1/4" Zinc Plated USS
20	3		FW 1/2	Flatwasher - 1/2" Zinc Plated USS
21	8		FW 3/8	Flatwasher - 3/8" Zinc Plated USS
22	6		FW 5/8	Flatwasher - 5/8" Zinc Plated USS
23	4		HB1/2-13X1.75Z5	Hex Bolt 1/2-13x1 3/4 Gr 5 Zinc Hex Cap Screw
24	1		HB1/2-13X3Z5	Hex Bolt 1/2-13x3 Gr 5 Zinc Hex Cap Screw
25	11		HB1/4-20X0.75Z5	Hex Bolt 1/4-20x3/4 Gr 5 Zinc Hex Cap Screw
26	4		HB1/4-20X2.5Z5	Hex Bolt 1/4-20x2 1/2 Gr 5 Zinc Hex Cap Screw
27	8		HB3/8-16X1.25Z5	Hex Bolt 3/8-16x1 1/4 G 5 Zinc Hex Cap Screw
28	1		HB5/8-11X2.75Z5	Hex Bolt 5/8-11x2 3/4 Gr 5 Zinc Hex Cap Screw
29	5		HB5/8-11X3.75Z5	Hex Bolt 5/8-11x3 3/4 Gr 5 Zinc Hex Cap Screw
30	2		HN1/2-13CZ5	Hex Nut 1/2"-13 Grade 5 Zinc Plated Finished
31	5		LN1/2-13NCZ5	LN 1/2-13 Zinc Plated Nylon Insert Lock Nut
32	4		LN1/4-20NCZ5	LN 1/4-20 Zinc Plated Nylon Insert Lock Nut
33	8		LN3/8-16NCZ5	LN 3/8-16 Zinc Plated Nylon Insert Lock Nut
34	6		LN5/8-11NCZ5	LN 5/8-11 Zinc Plated Nylon Insert Lock Nut
35	9		LW 1/4	LW - 1/4" Zinc Plated Medium Split
36	3		SS1/2-13CX0.63CP	Allan Head Set Screw, 1/2-13 x 5/8

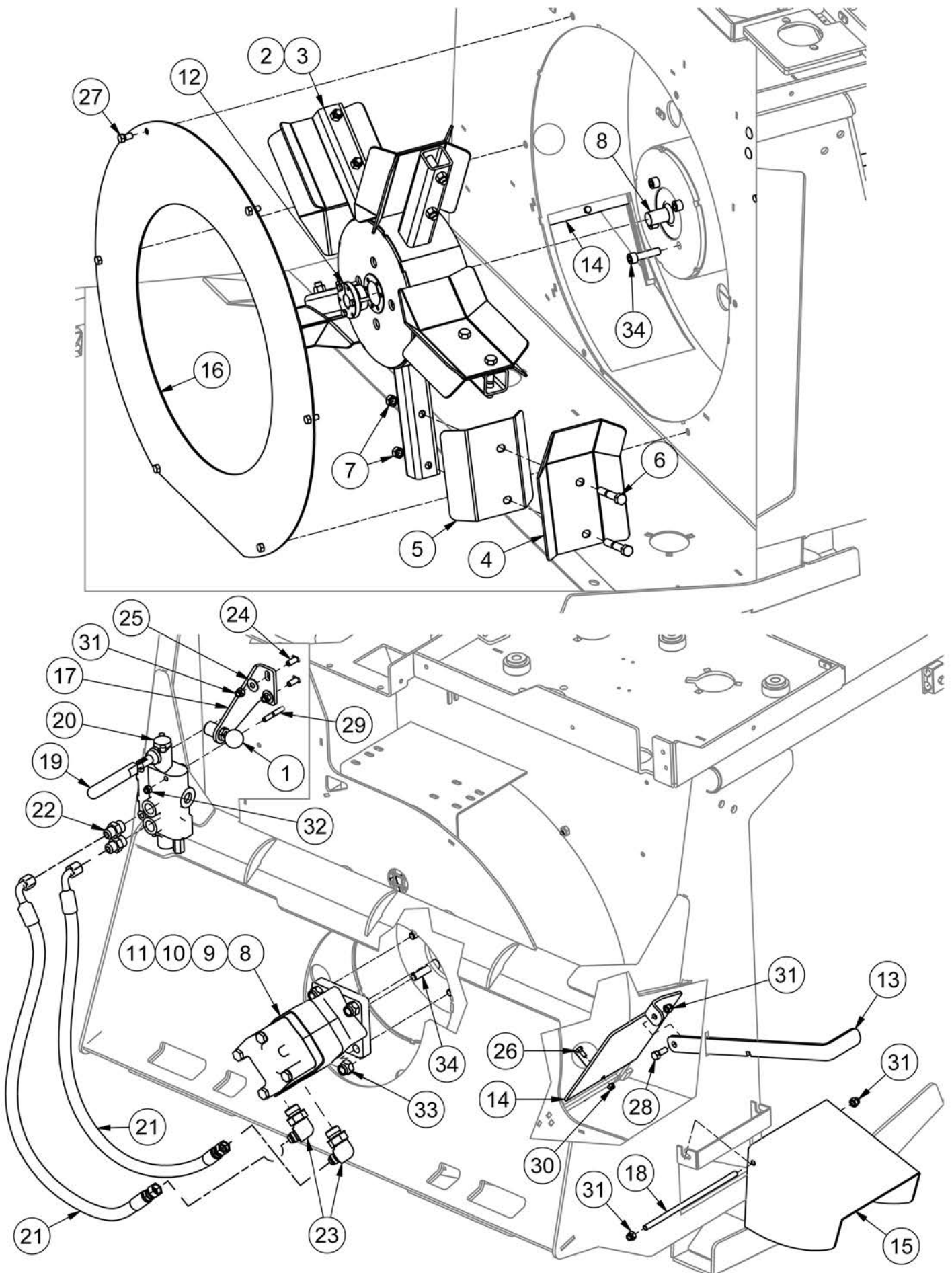
Augers Chain Drive - SN 26BG201 to Current



Augers Chain Drive - SN 26BG201 to Current

ITEM	QTY	REV	PART NUMBER	DESCRIPTION
1	1		32854	Small Operators Manual Holder
2	1		52042	20 Tooth Double Sprocket
3	1		52043	2517-1.25 Taper Bushing
4	4		52044	1615-1.25 Taper Bushing
5	1		53051	80 CC Motor 4 Bolt SAE Mount
6	2		53103	#60 Connecting Link
7	1		53125	Chain Guide
8	1	1	53296	Cover Assembly
9	1	1	53301	Cover Plate Assembly Right
10	1	1	53322	Cover Plate Assembly Left
11	6		53400	Double 15 Tooth, #60 Chain Idler 5/8" Bore
12	1		53529	Chain Tightener Arm
13	2		52142	Hose - HH21 - 8AT2(8FJX,8FJX90) HCL 21"
14	2		HF 6400-8-10	Hyd Fitting - Male JIC - Male ORB
15	2		HF 6400-8-8	Hydraulic Fitting - O-Ring to JIC Adapter
16	2		HF 6500-8-8	Hydraulic Elbow - 1/2 MJIC - 1/2 FJIC
17	11		FW 1/4	Flatwasher - 1/4" Zinc Plated USS
18	3		FW 1/2	Flatwasher - 1/2" Zinc Plated USS
19	6		FW 5/8	Flatwasher - 5/8" Zinc Plated USS
20	4		HB1/2-13X1.75Z5	Hex Bolt 1/2-13x1 3/4 Gr 5 Zinc Hex Cap Screw
21	1		HB1/2-13X3Z5	Hex Bolt 1/2-13x3 Gr 5 Zinc Hex Cap Screw
22	11		HB1/4-20X0.75Z5	Hex Bolt 1/4-20x3/4 Gr 5 Zinc Hex Cap Screw
23	4		HB1/4-20X2.5Z5	Hex Bolt 1/4-20x2 1/2 Gr 5 Zinc Hex Cap Screw
24	1		HB5/8-11X2.75Z5	Hex Bolt 5/8-11x2 3/4 Gr 5 Zinc Hex Cap Screw
25	5		HB5/8-11X3.75Z5	Hex Bolt 5/8-11x3 3/4 Gr 5 Zinc Hex Cap Screw
26	2		HN1/2-13CZ5	Hex Nut 1/2"-13 Grade 5 Zinc Plated Finished
27	5		LN1/2-13NCZ5	LN 1/2-13 Zinc Plated Nylon Insert Lock Nut
28	4		LN1/4-20NCZ5	LN 1/4-20 Zinc Plated Nylon Insert Lock Nut
29	6		LN5/8-11NCZ5	LN 5/8-11 Zinc Plated Nylon Insert Lock Nut
30	9		LW 1/4	LW -1/4" Zinc Plated Medium Split
31	3		SS1/2-13CX0.63CP	Allan Head Set Screw, 1/2-13 x 5/8

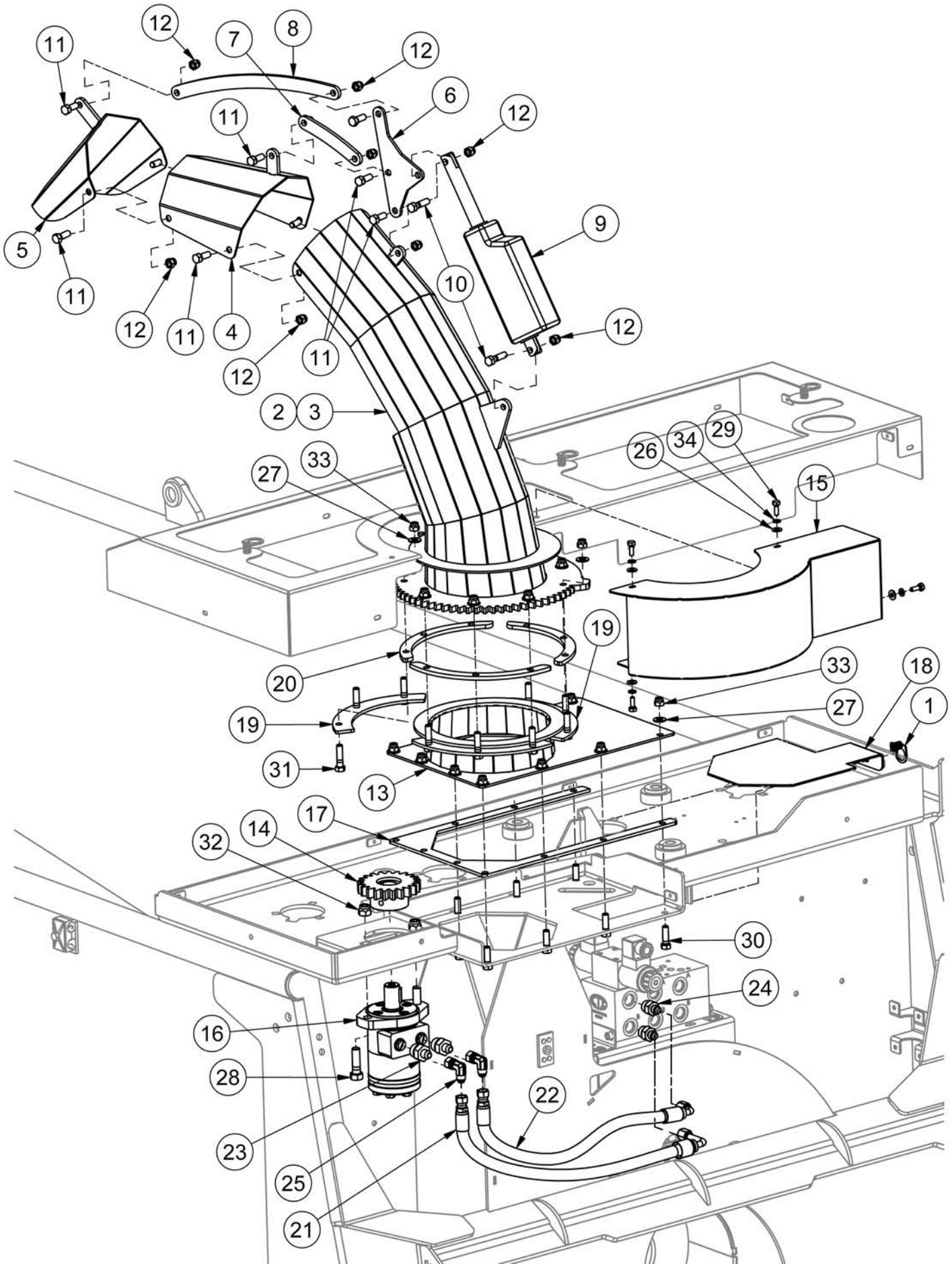
Blower Fan



Blower Fan

ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	1	41917	Quick Release Pull Pin	
2	1	53009	Blower Fan Assembly	Items 3-7
3	1	53012	Bale Gator Fan	
4	5	53166	Fan Blade	
5	5	53167	Reversing Fan Blade	
6	10	HB1/2-13X3Z5	Hex Bolt 1/2-13x3 Gr 5 Zinc Hex Cap Screw	
7	10	LN1/2-13TCZ5	LN1/2-13 Gr.C Zinc Top Lock Nut	
8	1	53092	M20 Hydrualic Motor	Up to SN 26BG405
9	1	SK53092	Seal Kit For 53092 / 53333 Fan Motor	Up to SN 26BG405
10	1	52406	Fan Motor	SN 26BG406 - Current
11	1	SK52406	Seal Kit For 52406 & 42499 Hyd Motors	SN 26BG406 - Current
12	1	53109	SH Quick-Disconnect Bushing 1" Bore	
13	1	53117	Side Discharge Handle	
14	1	53118	Side Discharge Gate	
15	1	53119	Side Discharge Chute	
16	1	53121	Fan Cover	
17	1	53405	F and R Stop	
18	1	53407	Threaded Deflector Pivot	
19	1	53411	F-R Stopper	
20	1	53055	Single Spool Z80 - 2 Position Detent	
21	2	52141	Hose - HH40 - 8AT2(8FJX,8FJX90S) HCL 40"	
22	2	HF 6400-8-10	Hyd Fitting - Male JIC - Male ORB	
23	2	HF 6801-8-12	Hyd. Fitting - 1/2" JIC - 3/4" 90 Degree Elbow	
24	2	CB3/8-16X1CZ5	Carriage Bolt - 3/8-16 x 1" Grade 5 Zinc	
25	2	FW 3/8	Flatwasher - 3/8" Zinc Plated USS	
26	1	HB1/4-20X0.625Z5	Hex Bolt 1/4-20x5/8 Gr 5 Zinc Hex Cap Screw	
27	6	HB3/8-16X0.75Z5	Hex Bolt 3/8-16x3/4 Gr.5 Zinc Hex Cap Screw	
28	1	HB3/8-16X1Z5	Hex Bolt 3/8-16x1 Gr 5 Zinc Hex Cap Screw	
29	2	HB5/16-18X2.25Z5	Hex Bolt 5/16-18x2 1/4 Gr 5 Zinc Hex Cap Screw	
30	1	LN1/4-20NCZ5	LN 1/4-20 Zinc Plated Nylon Insert Lock Nut	
31	5	LN3/8-16NCZ5	LN 3/8-16 Zinc Plated Nylon Insert Lock Nut	
32	2	LN5/16-18NCZ5	LN 5/16-18 Zinc Plated Nylon Insert Lock Nut	
33	4	LN5/8-11NCZ5	LN 5/8-11 Zinc Plated Nylon Insert Lock Nut	
34	4	SHCS1/2-13X2	Hex Bolt - 1/2-13 x 2 Socket Head Cap Screw	

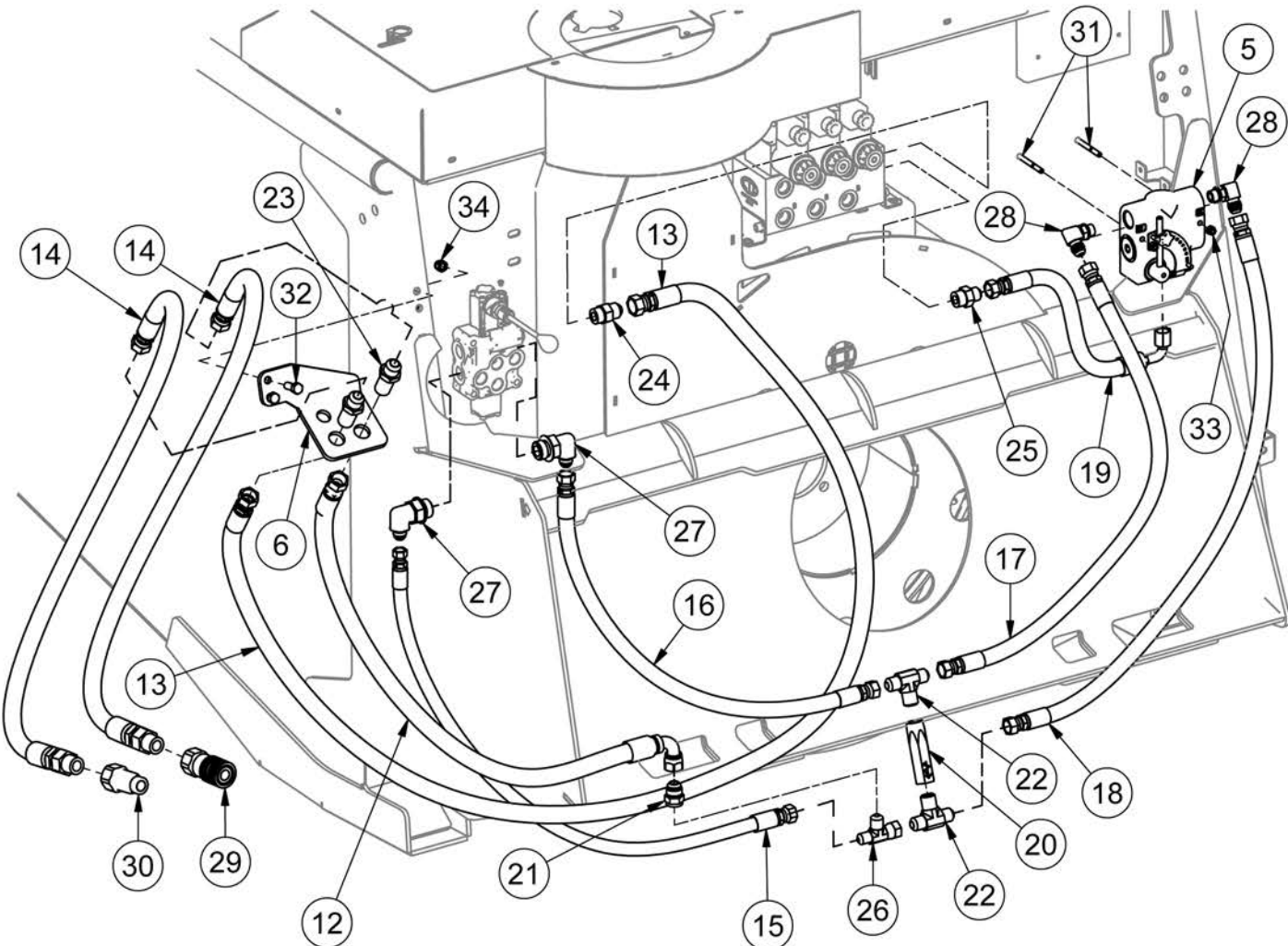
Discharge Chute



Discharge Chute

ITEM	QTY	PART NUMBER	DESCRIPTION	NOTE
1	1	36268	Cam Lock	
2	1	53018	Chute Assembly	Items 3-12
3	1	53025	Discharge Chute Weldment	
4	1	53026	Discharge Chute Weldment	
5	1	53027	Discharge Chute Weldment	
6	1	53183	Chute Acuator Bracket	
7	1	53184	Chute Acuator Arm	
8	1	53185	Chute Actuator Arm	
9	1	53401	Actuator LA12	
10	2	HB3/8-16X1.5Z5	Hex Bolt 3/8-16x1 1/2 Gr 5 Zinc Hex Cap Screw	
11	9	HB3/8-16X1Z5	Hex Bolt 3/8-16x1 Gr 5 Zinc Hex Cap Screw	
12	11	LN3/8-16NCZ5	LN 3/8-16 Zinc Plated Nylon Insert Lock Nut	
13	1	53024	Chute Mounting Weldment	
14	1	53028	Chute Rotate Gear	
15	1	53034	Chute Rotate Gear Guard	
16	1	53050	50CC Hydraulic Motor 2 Bolt	
17	1	53179	Chute Spacer Plate	
18	1	53180	Chute Gate	
19	3	53181	Chute Mounting Ring	
20	3	53182	Chute Spacing Ring	
21	1	52091	Hose - HH21 - 4AT2(6FJX-6FJX90) HCL 21"	
22	1	52092	Hose - HH20 - 4AT2(6FJX-6FJX90) HCL 20"	
23	2	HF 6400-6-10	Hydraulic Fitting - Male JIC - Male ORB	
24	2	HF 6400-6-8	Hyd Fitting -Male JIC - Male ORB	
25	2	HF 6500-6-6	Elbow 6MJIC to 6FJIC	
26	4	FW 1/4	Flatwasher - 1/4" Zinc Plated USS	
27	19	FW 3/8	Flatwasher - 3/8" Zinc Plated USS	
28	2	HB1/2-13X1.75Z5	Hex Bolt 1/2-13x1 3/4 Gr 5 Zinc Hex Cap Screw	
29	4	HB1/4-20X0.75Z5	Hex Bolt 1/4-20x3/4 Gr 5 Zinc Hex Cap Screw	
30	9	HB3/8-16X1.25Z5	Hex Bolt 3/8-16x1 1/4 Gr 5 Zinc Hex Cap Screw	
31	9	HB3/8-16X1.5Z5	Hex Bolt 3/8-16x1 1/2 Gr 5 Zinc Hex Cap Screw	
32	2	LN1/2-13NCZ5	LN 1/2-13 Zinc Plated Nylon Insert Lock Nut	
33	19	LN3/8-16NCZ5	LN 3/8-16 Zinc Plated Nylon Insert Lock Nut	
34	4	LW 1/4	LW - 1/4" Zinc Plated Medium Split	

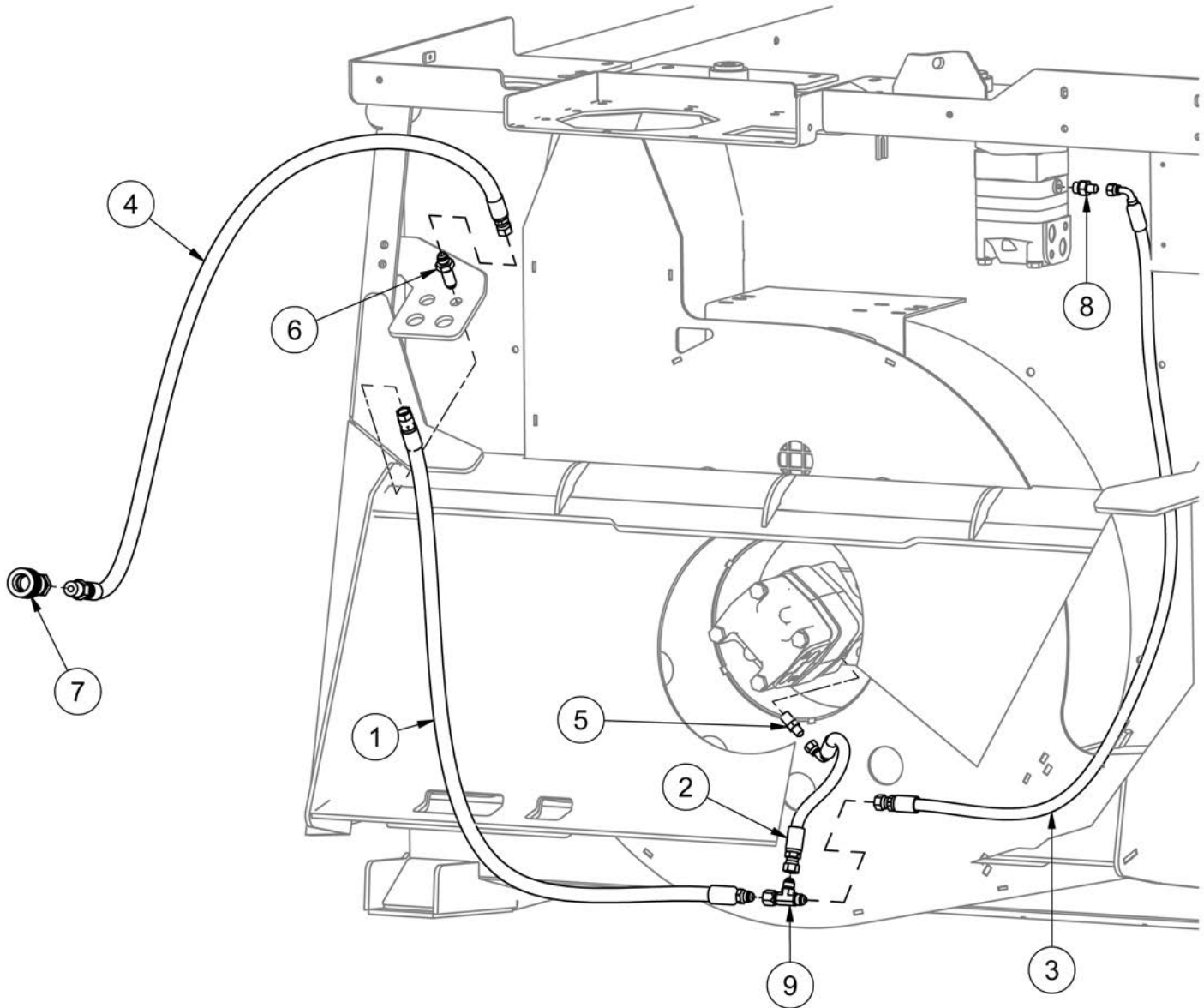
Flow Control



Flow Control

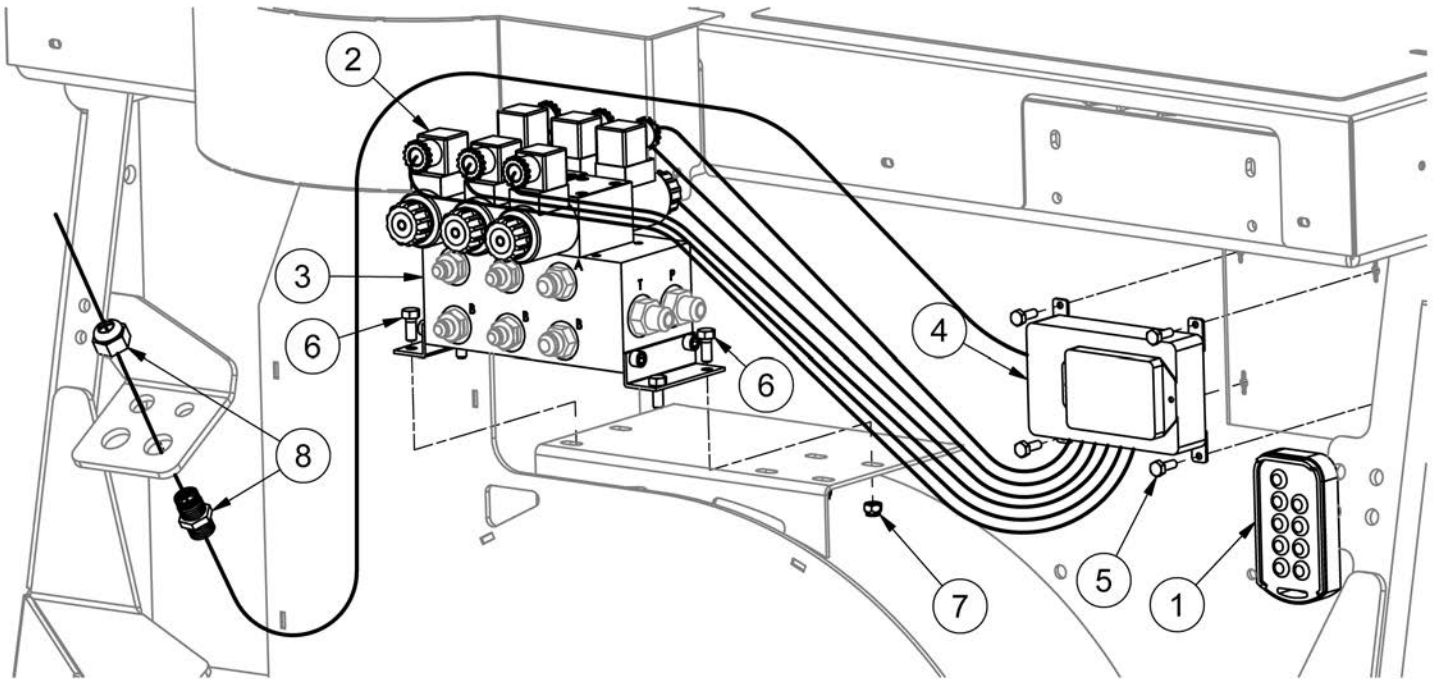
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	53008	348 Body ASM
2	1	53034	Chute Rotate Gear Guard
3	3	53053	Bi Directional NO C12-2 Cartridge Valve
4	1	53054	Manifold D03 1D05 Dump and Relief Valve
5	1	53099	16 GPM Pressure Compensated Flow Control
6	1	53120	Hydraulic Hose Bracket
7	1	53222	Control valve with indent setting
8	1	53296	Cover Assembly
9	1	53301	Cover Plate Assembly Left
10	1	53322	Cover Plate Assembly Left
11	2	53518	Manifold Bracket
12	1	52098	Hose - HH36 - 10AT2(10FJX,10FJX90) HCL 36"
13	1	52099	Hose - HH94 - 10AT2(10FJX,8FJX) HCL 94"
14	2	52135	Hose - HH60 - 10AT2(10FJX,12MP) HCL 60"
15	1	52137	Hose - HH32 - 8AT2(8FJX,8FJX) HCL 32"
16	1	52138	Hose - HH30 - 8AT2(8FJX,8FJX) HCL 30"
17	1	52139	Hose - HH36 - 8AT2(8FJX,8FJX) HCL 36"
18	1	52140	Hose - HH40 - 8AT2(8FJX,8FJX) HCL 40"
19	1	52142	Hose - HH21 - 8AT2(8FJX,8FJX90) HCL 21"
20	1	53331	1/2 NPT Check Valve
21	1	HF 2406-8-10	FJ-MJ Straight Reducer
22	2	HF 2601-8-8-8	JIC to Pipe Branch Tee
23	2	HF 2700LN-10-10	Hyd. Fitting MJIC to MJIC
24	1	HF 6400-10-10	Hydraulic Fitting - Male JIC - Male ORB
25	1	HF 6400-8-10	Hyd Fitting - Male JIC - Male ORB
26	1	HF 6602-8-8	Hydraulic T Fitting 18mm
27	2	HF 6801-8-12	Hyd. Fitting - 1/2" JIC - 3/4" 90 Degree Elbow
28	2	HF 6801-8-8	Hyd. Fitting- 1/2" JIC- 1/2" SAE 90 Deg Elbow
29	1	HF QCFF-1	Quickcoupler 3/4" Flat Face Pipe - Female
30	1	HF QCFF-2	Quickcoupler 3/4" Flat Face Pipe - Male
31	2	HB1/4-20X2.5Z5	Hex Bolt 1/4-20x2 1/2 Gr 5 Zinc Hex Cap Screw
32	2	HB3/8-16X1Z5	Hex Bolt 3/8-16x1 Gr 5 Zinc Hex Cap Screw
33	2	LN1/4-20NCZ5	LN 1/4-20 Zinc Plated Nylon Insert Lock Nut
34	2	LN3/8-16NCZ5	LN 3/8-16 Zinc Plated Nylon Insert Lock Nut

Case Drain



ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	52088	Hose - HH44 - 4AT2(6FJX-6FJX90) HCL 44"
2	1	52089	Hose - HH13 - 4AT2(6FJX-6FJX90) HCL 13"
3	1	52090	Hose - HH47 - 4AT2(6FJX-6FJX90) HCL 47"
4	1	52136	Hose - HH60 - 6AT2(6FJX,8MP) HCL 60"
5	1	HF 2404-4-4	Hyd. Fitting - Male JIC - Male Pipe
6	1	HF 2700LN-06-06	Hydraulic Bulkhead Fitting - MJIC to MJIC 3/8
7	1	HF 4050-04	Quickcoupler 1/2" Female
8	1	HF 6400-4-6	Hydraulic Fitting - Male JIC - Male ORB
9	1	HF 6602-6-6-6	Hyd. Fitting Run Tee M-JIC/F-JIC-M-JIC

Manifold & Remote Control

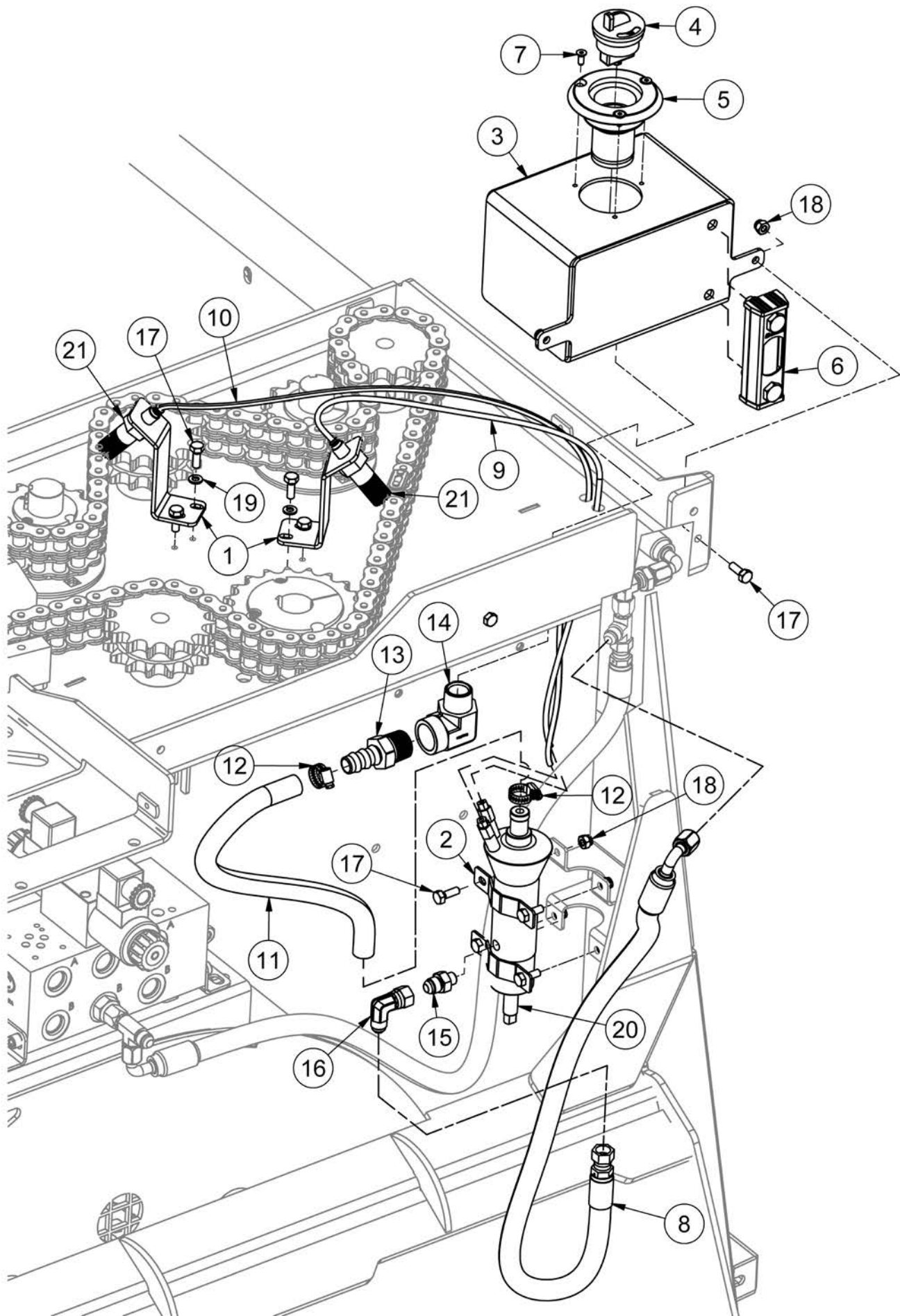


ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	53048	Kar-Tech Remote
2	3	53053	Bi Directional NO C12-2 Cartridge Valve
3	1	53054	Manifold D03 1D05 Dump and Relief Valve
4	1	53102	Wireless Control
5	4	HB1/4-20X0.75Z5	Hex Bolt 1/4-20x3/4 Grade 5 Zinc Plated Hex Cap Screw
6	4	HB5/16-18X0.75Z5	Hex Bolt 5/16-18x3/4 Grade 5 Zinc Plated Hex Cap Screw
7	4	LN5/16-18NCZ5	LN 5/16-18 Zinc Plated Nylon Insert Lock Nut
8	1	TL180-150	1/2 NPT 6-12mm Gland Connector

Chain Drive Oiler - Up to SN 26BG201

ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	53123	Chain Oiler Brush Bracket
2	2	53124	Oiler Mounting Clamp
3	1	53367	Oiler Line
4	1	53368	Oiler Line
5	1	53372	Oiler Drain Line
6	2	GC 6	Gear Clamp #6 .875 to .375"
7	1	HF 6400-6-4	Hyd. Fitting
8	1	HF 6500-6-6	Elbow 6MJIC to 6FJIC
9	1	52096	Hose - HH24 - 4AT2(6FJX-6FJX90) HCL 24"
10	8	HB1/4-20X0.75Z5	Hex Bolt 1/4-20x3/4 Gr 5 Zinc Hex Cap Screw
11	4	HB1/4-20X1Z5	Hex Bolt 1/4-20x1 Gr 5 Zinc Hex Cap Screw
12	8	LN1/4-20NCZ5	LN 1/4-20 Zinc Plated Nylon Insert Lock Nut
13	4	LW 1/4	LW - 1/4" Zinc Plated Medium Split
14	1	PP00072	Oil Reservoir - 2 Quart
15	1	PP00087	Lube Minder - 2 Port Pump
16	2	PP00088	Oiler Brush

Chain Drive Oiler - SN 26BG405 - Current



Chain Drive Oiler - SN 26BG405 - Current

ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	53123	Chain Oiler Brush Bracket
2	2	53124	Oiler Mounting Clamp
3	1	53536	BG Oil Reservoir
4	1	30868	Hydraulic Oil Fill Cap
5	1	30869	Hydraulic Oil Fill Body
6	1	53539	Oil Level Indicator HL915-10
7	3	FHSCS#10-24X0.5	Hex Bolt - 3/16"-24 x 1/2" Flat Socket Cap Screw
8	1	52096	Hose - HH24 - 4AT2(6FJX-6FJX90) HCL 24"
9	1	53367	Oiler Line
10	1	53368	Oiler Line
11	1	53372	Oiler Drain Line
12	2	GC 6	Gear Clamp #6 .875 to .375"
13	1	HF 4244-10-12	Hose Barb to Pipe Adapter, 5/8" x 3/4"
14	1	HF 5502-12-12	Hyd. Fitting - 90 Deg. Elbow 12-12
15	1	HF 6400-6-4	Hyd. Fitting
16	1	HF 6500-6-6	Elbow 6MJIC to 6FJIC
17	10	HB1/4-20X0.75Z5	Hex Bolt 1/4-20x3/4 Gr 5 Zinc Hex Cap Screw
18	6	LN1/4-20NCZ5	LN 1/4-20 Zinc Plated Nylon Insert Lock Nut
19	4	LW 1/4	LW -1/4" Zinc Plated Medium Split
20	1	PP00087	Lube Minder - 2 Port Pump
21	2	PP00088	Oiler Brush

Imperial Torque Values

SAE Grade and Head Markings	NO MARK	1 or 2 ^b 	5 	5.1 	5.2 	8 	8.2 
SAE Grade and Nut Markings	NO MARK	2 	5 			8 	

Size	Grade 1				Grade 2 ^b				Grade 5, 5.1, or 5.2				Grade 8 or 8.2			
	Lubricated ^a		Dry ^a		Lubricated ^a		Dry ^a		Lubricated ^a		Dry ^a		Lubricated ^a		Dry ^a	
	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft
1/4	3.7	2.8	4.7	3.5	6	4.5	7.5	5.5	9.5	7	12	9	13.5	10	17	12.5
5/16	7.7	5.5	10	7	12	9	15	11	20	15	25	18	28	21	35	26
3/8	14	10	17	13	22	16	27	20	35	26	44	33	50	36	63	46
7/16	22	16	28	20	35	26	44	32	55	41	70	52	80	58	100	75
1/2	33	25	42	31	53	39	67	50	85	63	110	80	120	90	150	115
9/16	48	36	60	45	75	56	95	70	125	90	155	115	175	130	225	160
5/8	67	50	85	62	105	78	135	100	170	125	215	160	240	175	300	225
3/4	120	87	150	110	190	140	240	175	300	225	375	280	425	310	550	400
7/8	190	140	240	175	190	140	240	175	490	360	625	450	700	500	875	650
1	290	210	360	270	290	210	360	270	725	540	925	675	1050	750	1300	975
1-1/8	400	300	510	375	400	300	510	375	900	675	1150	850	1450	1075	1850	1350
1-1/4	570	425	725	530	570	425	725	530	1300	950	1650	1200	2050	1500	2600	1950
1-3/8	750	550	950	700	750	550	950	700	1700	1250	2150	1550	2700	2000	3400	2550
1-1/2	1000	725	1250	925	990	725	1250	930	2250	1650	2850	2100	3600	2650	4550	3350

DO NOT use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only. Check tightness of fasteners periodically.

Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical grade.

Fasteners should be replaced with the same or higher grade. If higher grade fasteners are used, these should only be tightened to the strength of the original.

Make sure fasteners threads are clean and that you properly start thread engagement. This will prevent

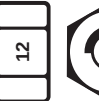
them from failing when tightening.

Tighten plastic insert or crimped steel-type lock nuts to approximately 50 percent of the dry torque shown in the chart, applied to the nut, not to the bolt head. Tighten toothed or serrated-type lock nuts to the full torque value.

^a "Lubricated" means coated with a lubricant such as engine oil, or fasteners with phosphate and oil coatings. "Dry" means plain or zinc plated without any lubrication.

^b Grade 2 applies for hex cap screws (not hex bolts) up to 152 mm (6-in.) long. Grade 1 applies for hex cap screws over 152 mm (6-in.) long, and for all other types of bolts and screws of any length.

Metric Torque Values

Property Class and Head Markings	4.8		8.8		9.8		10.9		12.9	
										
Property Class and Nut Markings	5		10		10		10		12	
										

Size	Class 4.8				Class 8.8 or 9.8				Class 10.9				Class 12.9			
	Lubricated ^a		Dry ^a		Lubricated ^a		Dry ^a		Lubricated ^a		Dry ^a		Lubricated ^a		Dry ^a	
	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft
M6	4.8	3.5	6	4.5	9	6.5	11	8.5	13	9.5	17	12	15	11.5	19	14.5
M8	12	8.5	15	11	22	16	28	20	32	24	40	30	37	28	47	35
M10	23	17	29	21	43	32	55	40	63	47	80	60	75	55	95	70
M12	40	29	50	37	75	55	95	70	110	80	140	105	130	95	165	120
M14	63	47	80	60	120	88	150	110	175	130	225	165	205	150	260	190
M16	100	73	125	92	190	140	240	175	275	200	350	255	320	240	400	300
M18	135	100	175	125	260	195	330	250	375	275	475	350	440	325	560	410
M20	190	140	240	180	375	275	475	350	530	400	675	500	625	460	800	580
M22	260	190	330	250	510	375	650	475	725	540	925	675	850	625	1075	800
M24	330	250	425	310	650	475	825	600	925	675	1150	850	1075	800	1350	1000
M27	490	360	625	450	950	700	1200	875	1350	1000	1700	1250	1600	1150	2000	1500
M30	675	490	850	625	1300	950	1650	1200	1850	1350	2300	1700	2150	1600	2700	2000
M33	900	675	1150	850	1750	1300	2200	1650	2500	1850	3150	2350	2900	2150	3700	2750
M36	1150	850	1450	1075	2250	1650	2850	2100	3200	2350	4050	3000	3750	2750	4750	3500

DO NOT use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only. Check tightness of fasteners periodically.

Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical property class.

Fasteners should be replaced with the same or higher property class. If higher property class fasteners are used, these should only be tightened to the strength of the original.

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Tighten plastic insert or crimped steel-type lock nuts to approximately 50 percent of the dry torque shown in the chart, applied to the nut, not to the bolt head. Tighten toothed or serrated-type lock nuts to the full torque value.

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Index

Augers Chain Drive - SN 26BG201 to Current	2-10
Augers Chain Drive - Up to SN 26G201	2-8
Augers - SN 26BG201 to Current	2-6
Augers - Up to SN 26BG201	2-4
Bale Gate	2-2
Blower Fan	2-12
Case Drain	2-18
Chain Drive Oiler - SN 26BG405 - Current	2-22
Chain Drive Oiler - Up to SN 26BG201	2-20
DE53216 - Bale Gator Safety Decal Kit	1-1
DE53227 - BG346 Model Decal Kit	1-2
Discharge Chute	2-14
Flow Control	2-16
Manifold & Remote Control	2-19
Manuals	I
Part Orders	I
Parts Manual Usage	I
Serial Plate Location	I



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Proposition 65 Warning

Battery posts, terminals, and similar parts may contain lead which are known to the State of California to cause cancer and reproductive harm. Wear gloves and wash hands after handling.

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