

9 INCH CHIPPER PARTS MANUAL

CH91DH

Kubota® 1.1L Diesel

P/N: 78640-00

Revision: 20231128.01

VIN Range: 5VJAA0417PW007129 - Current

Companion to P/N: 78636-00



BEARCATPRODUCTS.COM// 888.625.4520

English



WARNING: Cancer and Reproductive Harm
www.P65Warnings.ca.gov

Before You Begin

FOR MACHINE SERVICE OR PARTS

For service assistance, contact your nearest authorized Crary Bear Cat dealer or the factory. For parts, contact your authorized dealer. The parts manual for your machine is available at bearcatproducts.com/Product-Support/Find-A-Product-Manual. Your dealer will need to know the serial number of your machine to provide the most efficient service. See below for information on how to identify and record the serial number for your machine.

FOR ENGINE SERVICE OR PARTS

For engine service or parts, contact your nearest authorized engine dealer. Crary Bear Cat does not handle any parts, repairs or warranties for engines.

ORDERING PARTS

Only genuine Crary Bear Cat replacement parts should be used to repair the machine. Replacement parts manufactured by others could present safety hazards, even though they may fit on this machine. Replacement parts are available from your Crary Bear Cat dealer.

Provide the following when ordering parts:

- The SERIAL NUMBER of your machine.
- The PART NUMBER of the part.
- The PART DESCRIPTION.
- The QUANTITY needed.

IDENTIFICATION NUMBER LOCATION

Your machine will have a vehicle identification number (VIN). VINs are located on the left side of the trailer frame near the hitch. They are 17-digit numbers of the format: 5VJAA001XXWXXXXXX. For the exact location of the VIN, see the parts manual available at bearcatproducts.com/Product-Support/Find-A-Product-Manual.

Record your identification number in the space provided.

VEHICLE IDENTIFICATION NUMBER

MANUFACTURED BY/FABRIQUE PAR: CRARY INDUSTRIES, INC.	
FABRIQUE/MFR'D DATE:	PNEU/TIRE:
PNBV/GVNR:	JANTE/RIM:
PNBE/CGNR:	PRESS DE GOMF A FROID/COLD INFL:
THIS VEHICLE CONFORMS TO ALL APPLICABLE STANDARDS PRESCRIBED UNDER THE UNITED STATES AND CANADIAN MOTOR VEHICLE SAFETY REGULATIONS IN EFFECT ON THE DATE OF MANUFACTURE. CE VEHICULE EST CONFORME A TOUTES LES NORMES QUI LUI SONT APPLICABLES EN VERTU DU REGLEMENT SUR LA SECURITE DES VEHICULES AUTOMOBILES DES ETATS UNIS ET DU CANADA EN VIGUEUR A LA DATE DE SA FABRICATION.	
V.I.N./N.I.V.: 5VJAA001--W-----	TYPE/TYPE DE VEHICULE: TRA/REM

HOW TO CONTACT Crary Bear Cat

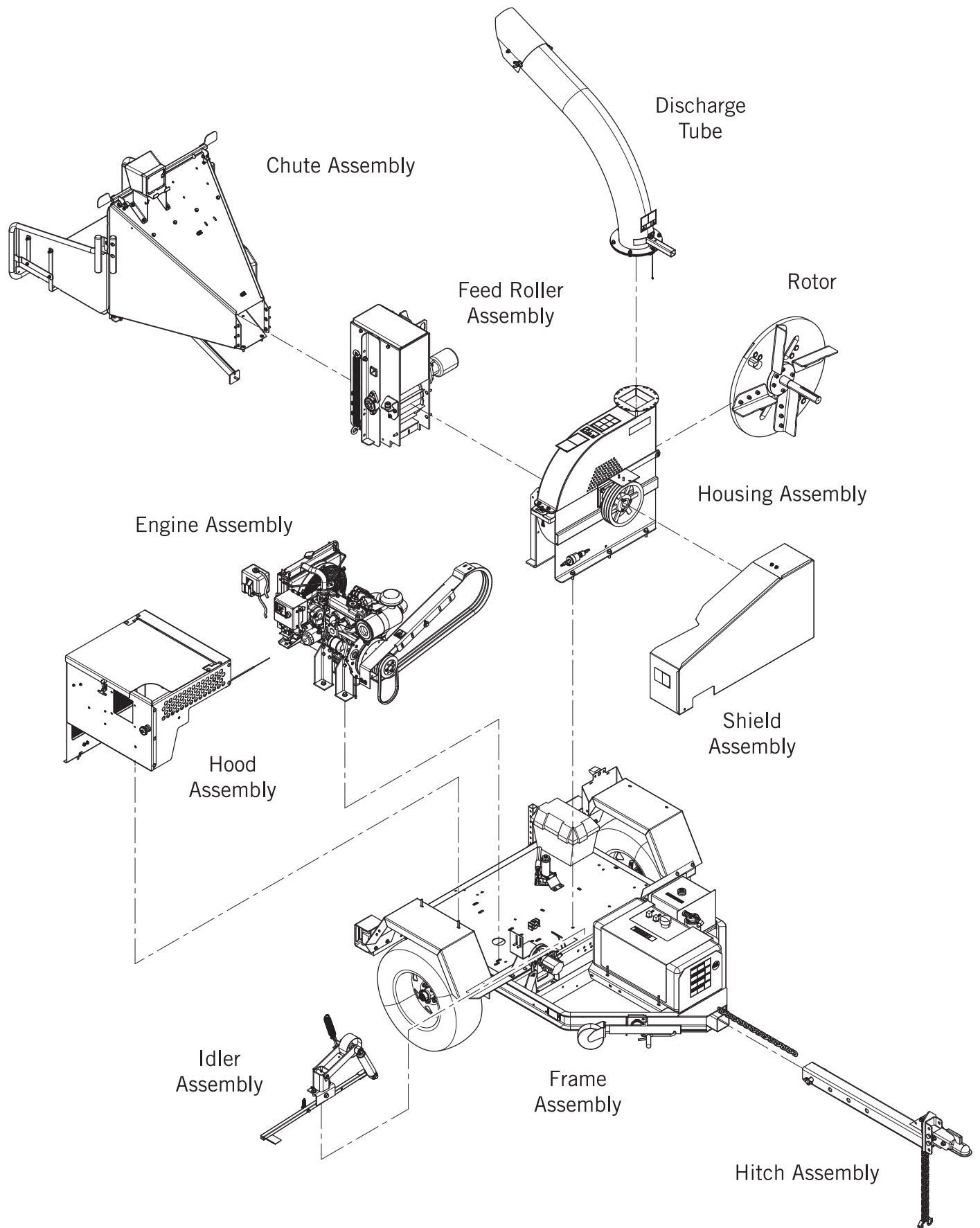
ADDRESS	PHONE	E-MAIL	HOURS
237 NW 12th Street P.O. Box 849 West Fargo, ND 58078	888-625-4520 701-282-5520 Fax: 701-282-9522	sales@bearcatproducts.com service@bearcatproducts.com	Monday - Friday 8 a.m. to 5 p.m. Central Time

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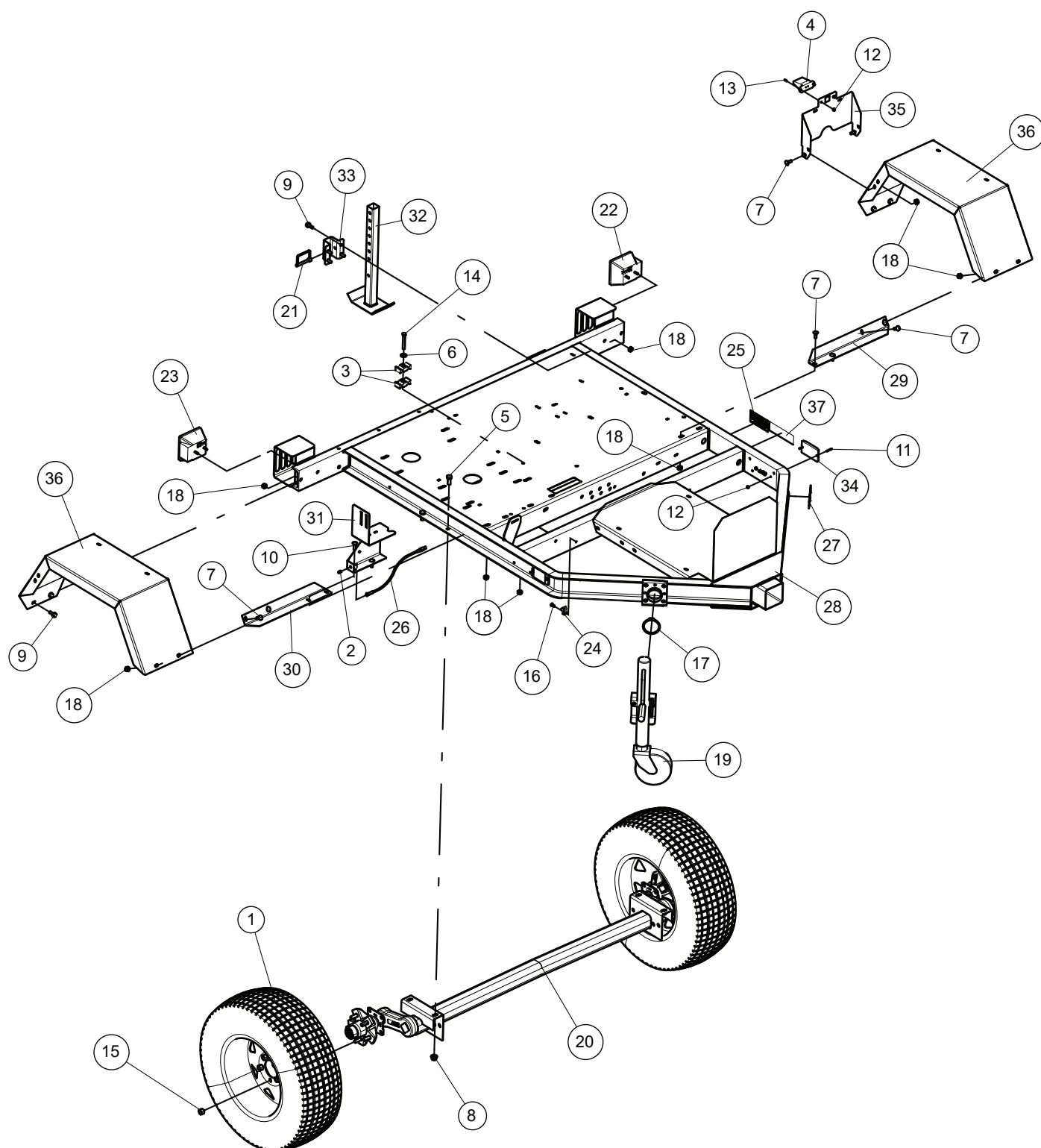
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EXPLODED VIEW



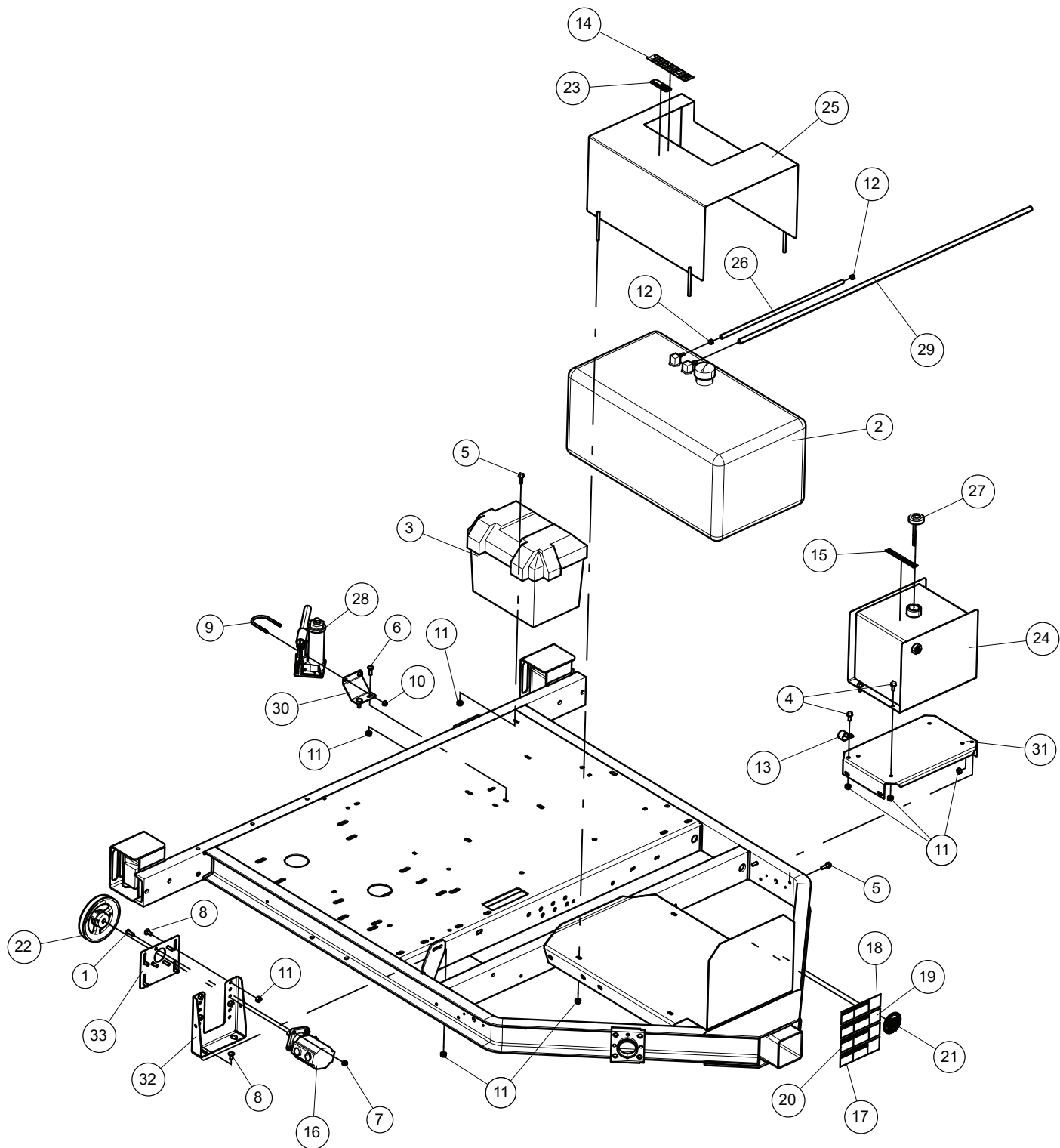
FRAME (Drawing #1)



FRAME (Drawing #1)

ITEM	PART NUMBER	DESCRIPTION
1	12125	ASSEMBLY, 15 INCH TIRE + WHEEL
2	12275	FITTING, 1/4 SELF-TAP GREASE
3	14157-00	CLAMP, PLASTIC HOSE
4	14368-00	LIGHT, LICENSE PLATE
5	15013	BOLT, 1/2 × 1-1/4" GR5 HHCS NC ZP
6	15031	WASHER, 3/8 FLAT
7	15057	BOLT, 3/8-16 × 1 GR5 CRG
8	15162-00	NUT, 1/2-13 NYLOCK FLANGE
9	15163-00	BOLT, 3/8 × 1 FLANGE NC
10	15378	BOLT, 3/8-16 × 1-1/4 GR5 CRG
11	15393	SCREW, MCH 10-24 × 1" RND HD PHL ZP
12	15397	NUT, 10/24 NYLOCK TYPE NM ZP
13	15423	SCREW, MCH 10-24 × 1/2" PAN HD PH ZP
14	15437	BOLT, 3/8 × 2-3/4" GR5 NC HHCS ZP
15	15527	NUT, 1/2-20 WHEEL
16	15828-00	RIVET, AL BLIND 1/4 × 3/4 DOME HEAD
17	15841-00	RING, SNAP 2-1/2 EXTERNAL
18	15905-00	NUT, 3/8-16 NYLOCK FLANGE
19	16616	JACK, PIVOTING W/ SWIVEL CASTOR
20	16764	AXLE, 3000 LB TORSION
21	16808	PIN, 3/8 × 2-1/2 LYNCH
22	16903	LIGHT, LH TAIL
23	16904	LIGHT, RH TAIL
24	18549-00	CLAMP, CABLE MOUNT
25	32154-00	DECAL, ST205/75R15 LOAD RATING
26	35569-00	HOSE, 15" GREASE
27	35968-00	DECAL, CARB PREEMPT STATUS
28	71508	WELDMENT, CHIPPER TRAILER
29	71545	ANGLE, FENDER MOUNT LH
30	71587	ANGLE, FENDER MOUNT RH
31	72668-10	WELDMENT, BELT GUIDE
32	73449-10	WELDMENT, REAR STABILIZER
33	73450-10	GUIDE, TRAILER SUPPORT
34	74911-00	KIT, LED AMBER LIGHT (includes part #33875-00 & 33876-00)
35	75183-10	BRACKET, LICENSE PLATE
36	77867-10	FENDER, HEAVY-DUTY
37	–	TAG, VIN
–	17320	STRAP, 11 IN BLACK TIE (not shown)
–	32324-00	HARNESS, CHIPPER TRAILER (not shown)
–	33875-00	TERMINAL, RING #10 18GA (not shown)
–	33876-00	CONNECTOR, BUTT 18-22GA (not shown)

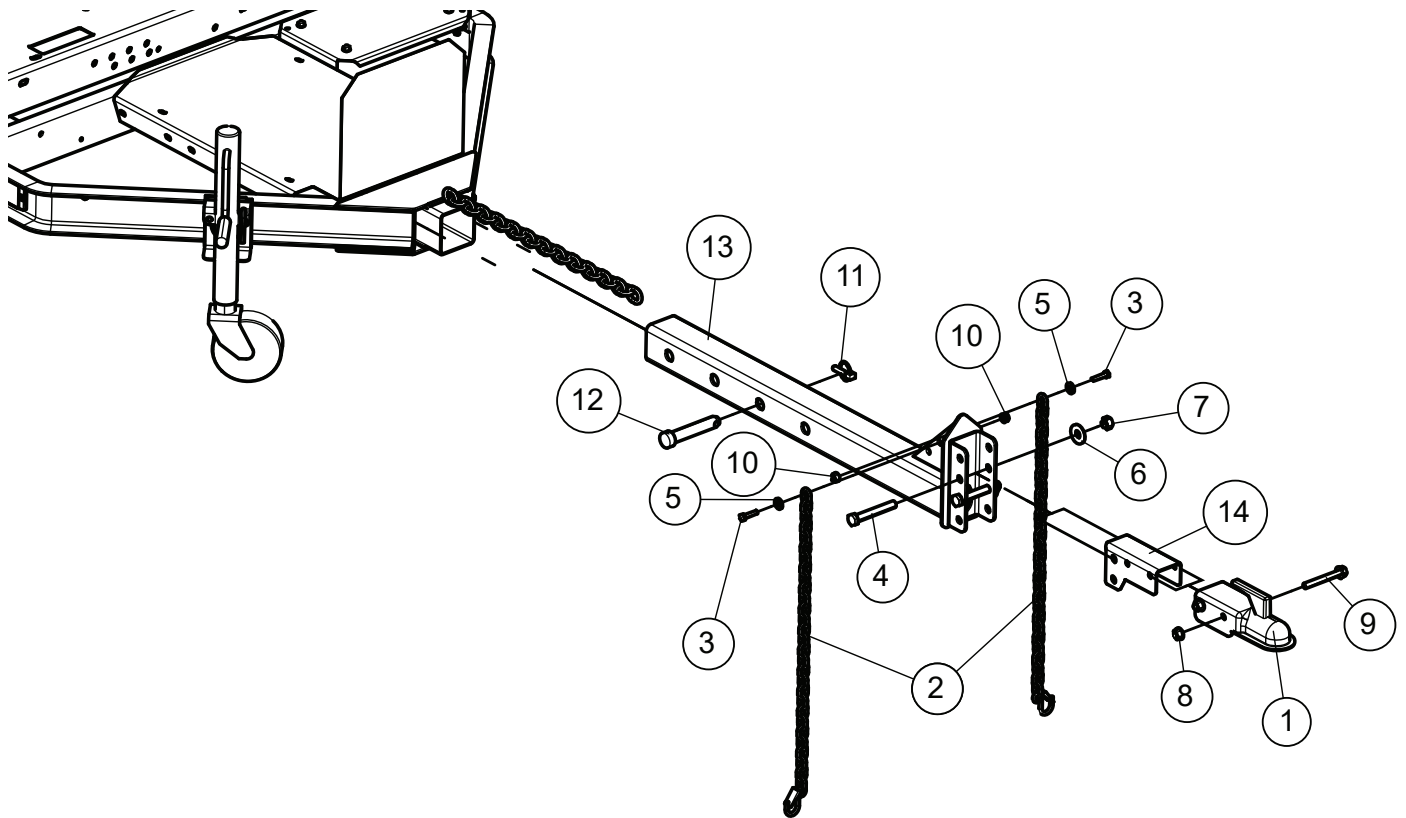
FRAME (Drawing #2)



FRAME (Drawing #2)

ITEM	PART NUMBER	DESCRIPTION
1	11021	BOLT, 5/16-18 X 1 BUTTON HD SKT
2	12053	TANK, 19 GAL FUEL
3	12271	BOX, PLASTIC BATTERY
4	15117-00	BOLT, 5/16 × 3/4 FLANGE NC
5	15120-00	BOLT, 5/16 × 1 FLANGE NC
6	15301	BOLT, 5/16-18 × 1 GR5 CRG
7	15356	NUT, 5/16-18 NE NYLOCK
8	15367	BOLT, 5/16 × 3/4 GR5 CRG NC ZP
9	15768-00	U-BOLT, 1/4 × 1-1/2 PIPE
10	15900-00	NUT, 1/4-20 NYLOCK FLANGE
11	15904-00	NUT, 5/16-18 NYLOCK FLANGE
12	16378	CLAMP, 15/32 SPRING
13	16414	CLAMP, 1" COATED METAL
14	16788	DECAL, DIESEL FUEL
15	16897	DECAL, HYDRAULIC FLUID
16	31671-00	PUMP, 2 STAGE CW HI/LO 0.605 DISP.
17	32327-00	DECAL, SAFETY CHAINS
18	32328-00	DECAL, TRAILER ELECTRICAL
19	32330-00	DECAL, CHECK WHEELS
20	32332-00	DECAL, SAFE COUPLING
21	32361-00	DECAL, NATM COMPLIANCE
22	32921-00	PULLEY, FHP B 5.6 - 1/2" BORE
23	35969-00	DECAL, LOW SULFUR
24	71296-00	ASSEMBLY, HYDRAULIC TANK W/ DECALS (Includes Item 15)
25	71297-00	ASSEMBLY, FUEL TANK CLAMP W/ DECALS (Includes Items 14 & 23)
26	71590	HOSE, 76" FUEL RETURN
27	71594-00	CAP, HYDRAULIC W/ DIPSTICK
28	73722-10	JACK, HYDRAULIC 2 TON
29	74908-00	HOSE, FUEL SUPPLY 48"
30	74981-10	PLATE, JACK MOUNT
31	75963-10	SHEET, TANK MOUNT
32	75965-10	BRACKET, MOUNT HYDRAULIC PUMP
33	77090-10	PLATE, PUMP MOUNT

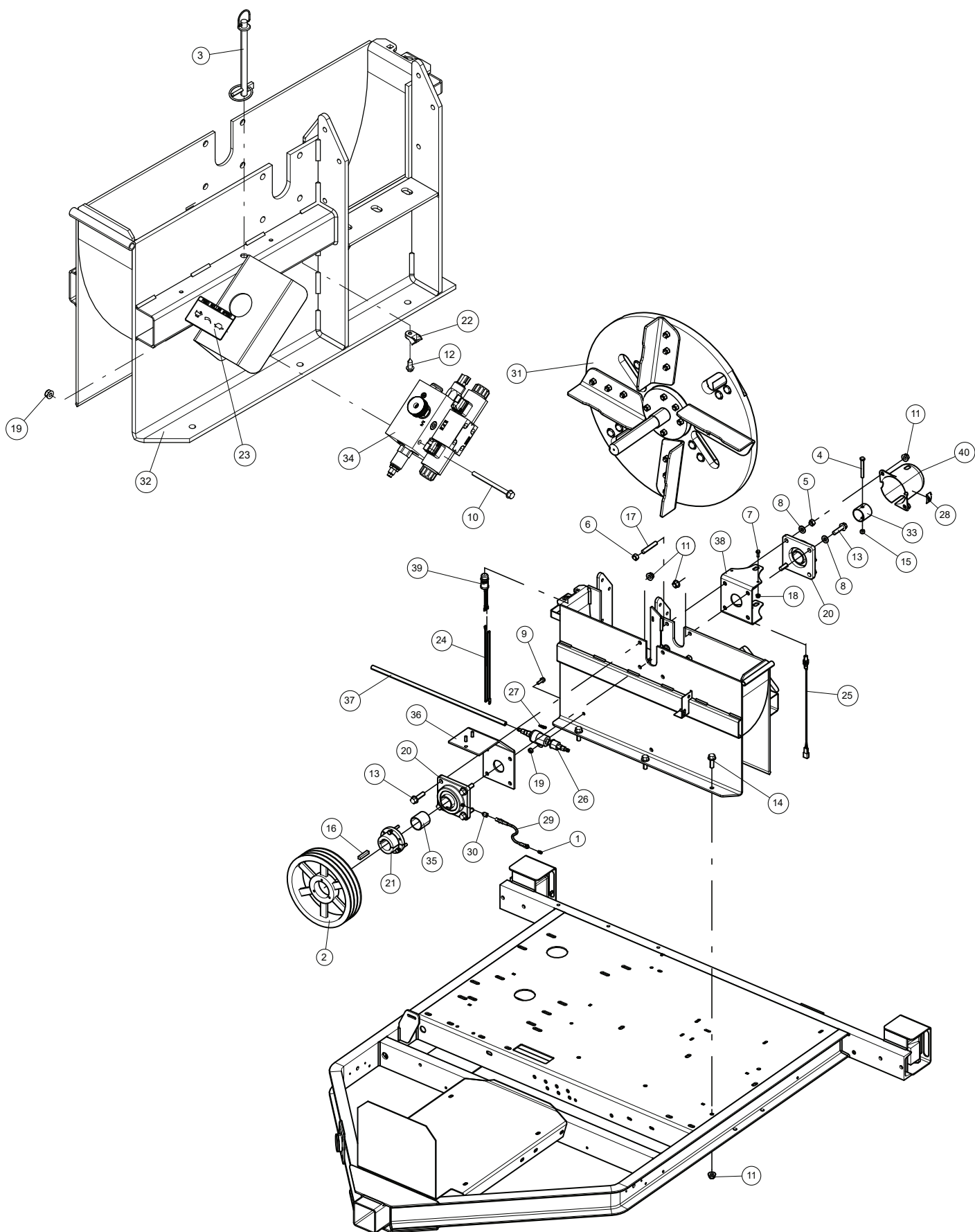
HITCH



HITCH

ITEM	PART NUMBER	DESCRIPTION
1	14257-00	COUPLER, 2 IN
2	14381-00	CHAIN, SAFETY 5000 LB W/ LATCH
3	15007	BOLT, 3/8-16 X 1-1/2 GR5 HCS CMS F1 5ANS
4	15021	BOLT, 5/8 X 4-1/2 HEX HD G5 ZP
5	15031	WASHER, 3/8" FLAT ZP
6	15035	WASHER, 5/8" FLAT ZP
7	15050	NUT, 5/8" CENTERLOCK ZP GR5
8	15162-00	NUT, 1/2-13 NYLOCK FLANGE
9	15193-00	BOLT, 1/2-13 X 4 HWH GR5 CZP
10	15905-00	NUT, 3/8-16 NYLOCK FLANGE
11	16015	PIN, 7/16 X 1-3/4 LYNCH
12	16777	TOP LINK PIN, CAT 2
13	75492-10	WELDMENT, HITCH POLE W/ PLATE
14	77080-10	MOUNT, COUPLER
–	16865	STRAP, 15-1/16 IN BLACK TIE (not shown)
–	77502-00	KIT, SPANISH/PORTUGUESE TRAILER/PINTLE DECAL (not shown)

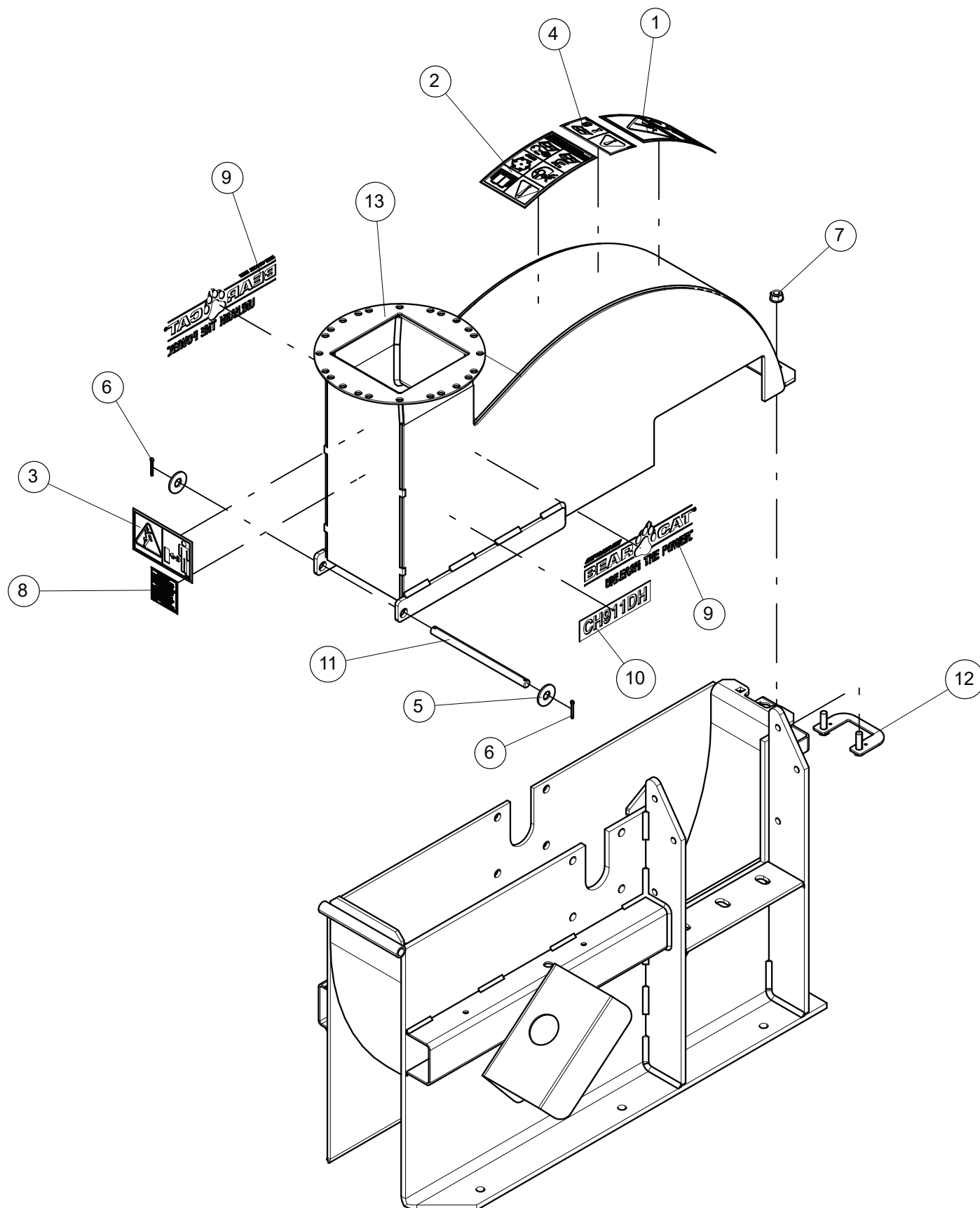
ROTOR HOUSING



ROTOR HOUSING

ITEM	PART NUMBER	DESCRIPTION
1	12275	FITTING, 1/4 SELF-TAP GREASE
2	12458	SHEAVE, 3BQ11.0 SK
3	14544-00	PIN, HITCH 1/2 × 6-1/2 W/ LYNCH
4	15009	BOLT, 3/8-16 × 3 GR5 HEX CAPSCREW CMS F1 5ANS
5	15043	NUT, 1/2-13 HEX
6	15049	NUT, 1/2-13 GR5 CENTERLOCK GRB
7	15079-00	BOLT, 1/4-20 × 3/4 FLANGE GR5 CZP
8	15097	WASHER, 1/2 SAE FLAT
9	15120-00	BOLT, 5/16 X 1 FLANGE NC
10	15150-00	BOLT, 5/16 × 4 SERRATED FLANGE NC
11	15162-00	NUT, 1/2-13 NYLOCK FLANGE
12	15176	SCREW, 11/32-12 × 7/8 FLANGE T-AB
13	15200-00	BOLT, 1/2-13 × 2 FLANGE GR5 CZP
14	15230-00	BOLT, 1/2-13 × 1-1/2 GR5 FLANGE NC
15	15388	NUT, 3/8-16 NE NYLOCK CMS F1 5ANS
16	15440	KEY, 3/8" SQ × 2" LG PLAIN
17	15481	STUD, 1/2"-13 × 3" LG B7 ZP
18	15900-00	NUT, 1/4-20 NYLOCK FLANGE
19	15904-00	NUT, 5/16-18 NYLOCK FLANGE
20	16553	BEARING, 1-3/4 4 BOLT FLANGE
21	17248	BUSHING, SK 1-3/4"
22	18549-00	CLAMP, CABLE MOUNT
23	18556-00	DECAL, FEED SPEED
24	30450-00	WIRE ASSEMBLY, 37" FM SPADE AND RING
25	32108-00	SENSOR, M12 PROXIMITY (replacement part)
26	33980-00	PUMP, ELECTRIC FUEL
27	34348-00	CONNECTOR, .156" BULLET
28	35481-00	DECAL, GREASE GUN ICON
29	35540-00	HOSE, 10" GREASE
30	35558-00	FITTING, STRAIGHT GREASE HOSE
31	71118-00	ASSEMBLY, 9" CHIPPER ROTOR (see ROTOR ASSEMBLY for part numbers)
32	71187-40	WELDMENT, CHIPPER BOTTOM
33	71280-10	COLLAR, CHIPPER LOCK
34	71628-00	ASSEMBLY, HYDRAULIC FEED FLOW VALVE W/ PS (see VALVE ASSEMBLY for part numbers)
35	72204-10	SPACER, 2.0 x 1.88
36	73708-10	WELDMENT, GUARD SUPPORT
37	74909-00	HOSE, SHORT FUEL 24"
38	75960-10	BRACKET, ROTOR LOCK
39	76622-00	ASSEMBLY, SEALED SWITCH
40	79246-00	ASSEMBLY, LARGE SHAFT CAP W/ DECALS (Includes Item 28)
–	17320	STRAP, 11 IN BLACK TIE (not shown)
–	35381-00	HOSE, 1/4" OD X .060"ID GREY METERING TUBE (not shown)

ACCESS COVER

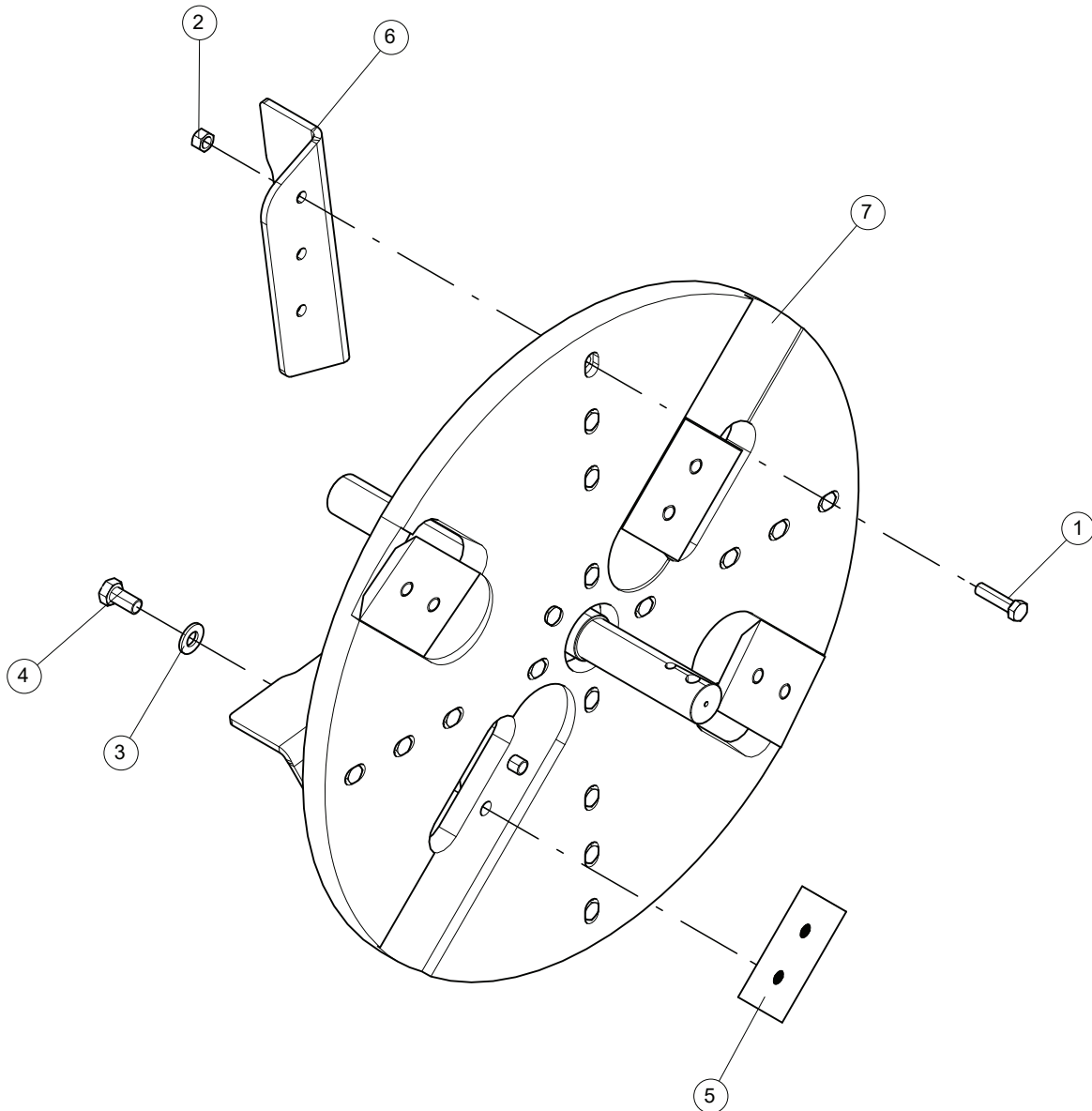


ACCESS COVER

ITEM	PART NUMBER	DESCRIPTION
1	12169	DECAL, KNIFE ACCESS ISO
2	12172	DECAL, OPERATING INSTRUCTIONS ISO
3	12173	DECAL, DISCHARGE ISO
4	12250	DECAL, MAINTENANCE ISO
5	15034	WASHER, 1/2 FLAT
6	15375	PIN, 1/8 × 1.00 ZP COTTER
7	15905-00	NUT, 3/8-16 NYLOCK FLANGE
8	33883-00	DECAL, SPARK ARRESTOR
9	34990-00	DECAL, CBC LOGO BLACK TAGLINE 3.11 X 9.42
10	36040-00	DECAL, MODEL CH911DH
11	71295-00	ASSEMBLY, CHIPPER COVER W/ DECALS (includes Items 1-4, 8, 9)
12	71329	SHAFT, CHIPPER TOP PIVOT
13	71978-40	WELDMENT, CHIPPER HOUSING ACCESS

ROTOR ASSEMBLY

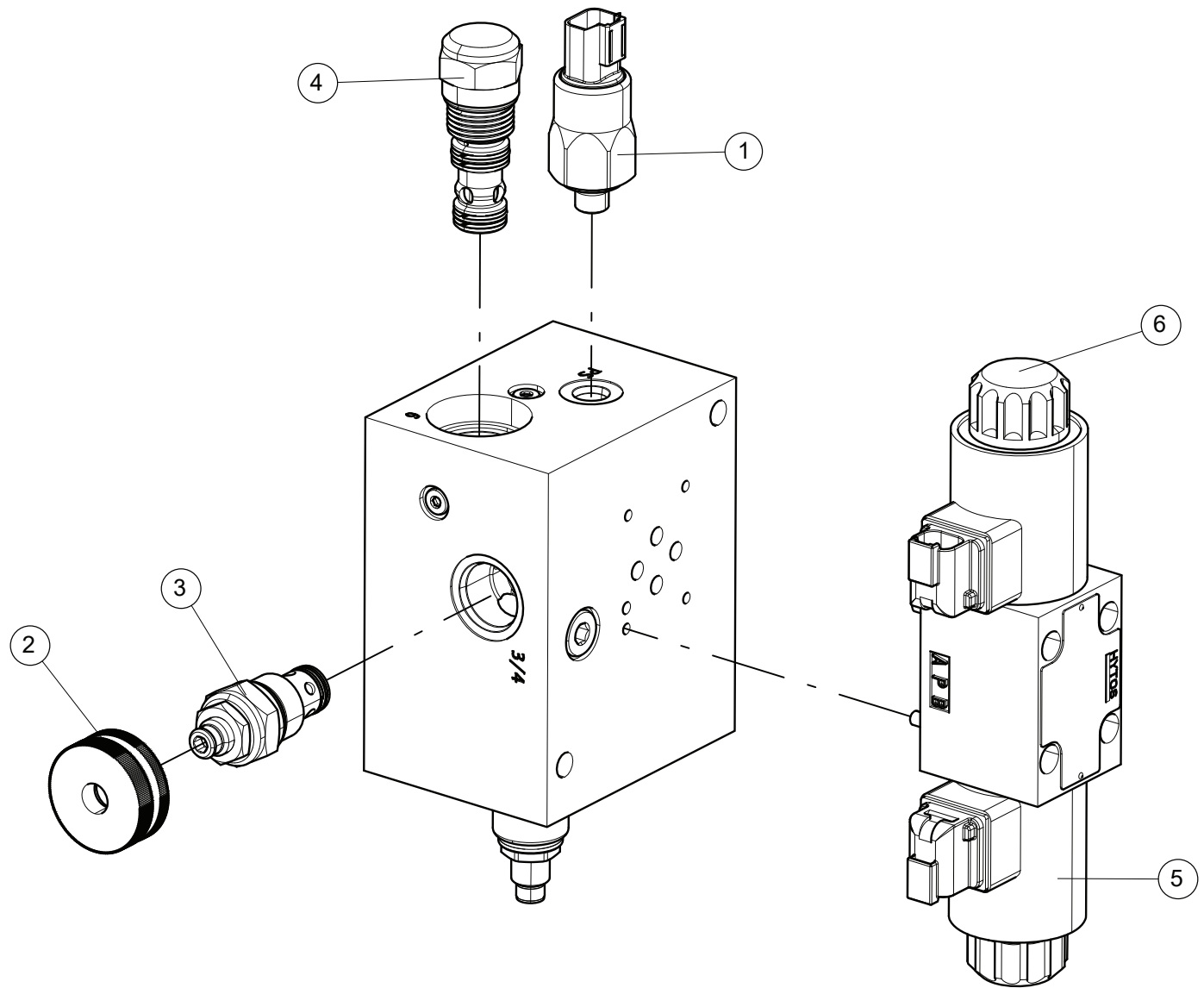
Part #71118-00



ITEM	PART NUMBER	DESCRIPTION
1	15015	BOLT, 1/2-13 × 2 GR5 HEX CAPSCREW (For service order part #71541)
2	15049	NUT, 1/2 CENTERLOCK GRB ZP (For service order part #71541)
3	15770-00	WASHER, 5/8 SAE HARDENED (For service order part #78361-00)
4	15833-00	BOLT, M16 × 2.0 × 30 HEX HD W/ PATCH (For service order part #78361-00)
5	33797-00	BLADE, 30 DEGREE 1/2" CHIPPER (For service order part #78361-00)
6	71233-00	PADDLE, CHIPPER DISK (For service order part #71541)
7	76287-00	ASSEMBLY, 9 INCH CHIPPER ROTOR
–	71541-00	KIT, BIG CHIPPER FORMED PADDLES (Includes Items 1, 2, 6)
–	78361-00	KIT, CHIPPER BLADE (Includes Items 3-5)

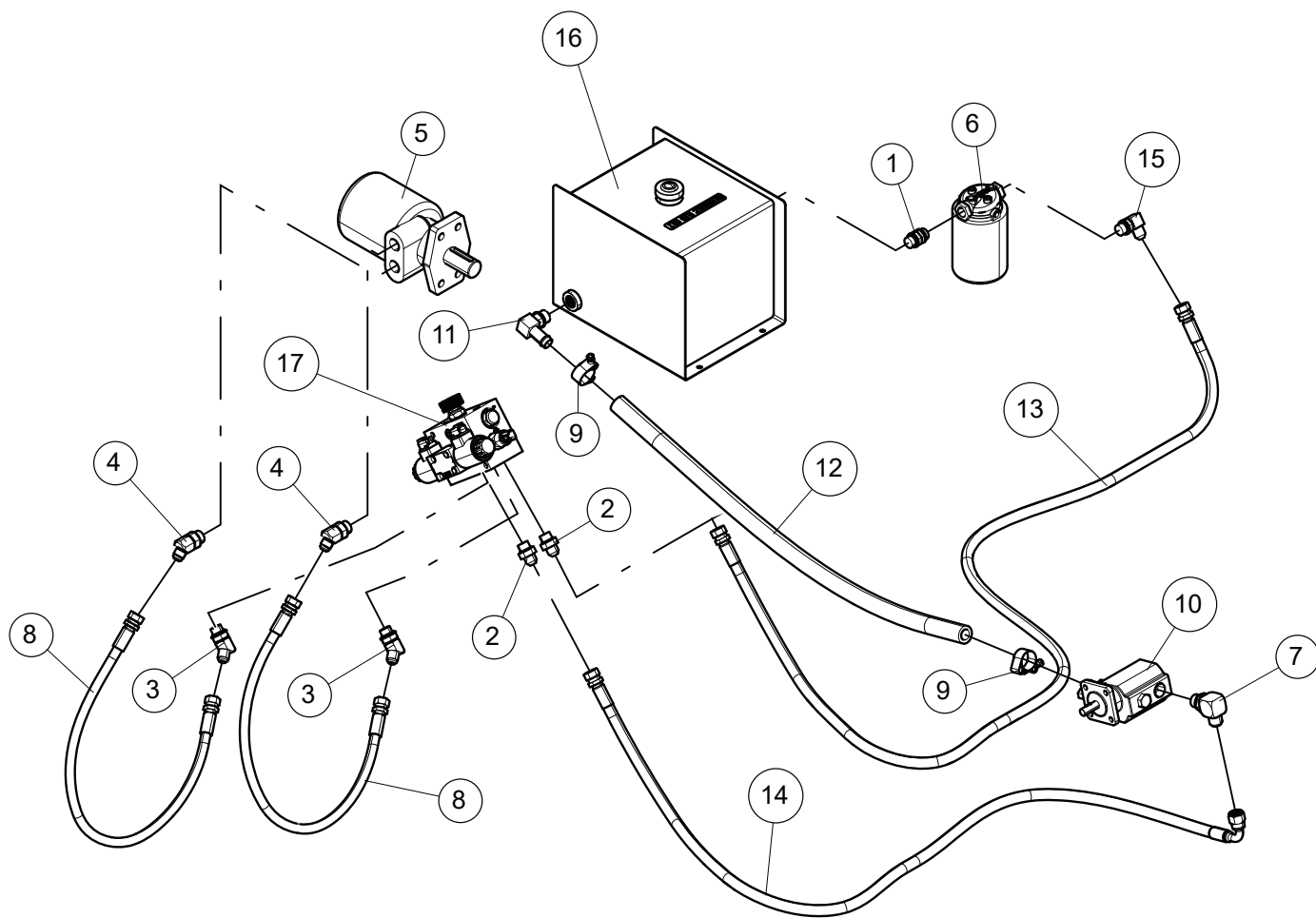
VALVE ASSEMBLY

Part #71628-00



ITEM	PART NUMBER	DESCRIPTION
1	30132-00	SWITCH, PRESSURE GC
2	30821-00	KIT, VALVE KNOB
3	31485-00	VALVE, NEEDLE - 10 MOUNT
4	31486-00	VALVE, DIFFERENTIAL SENSING
5	35091-00	COIL, SOLENOID
6	35092-00	NUT, COIL SOLENOID

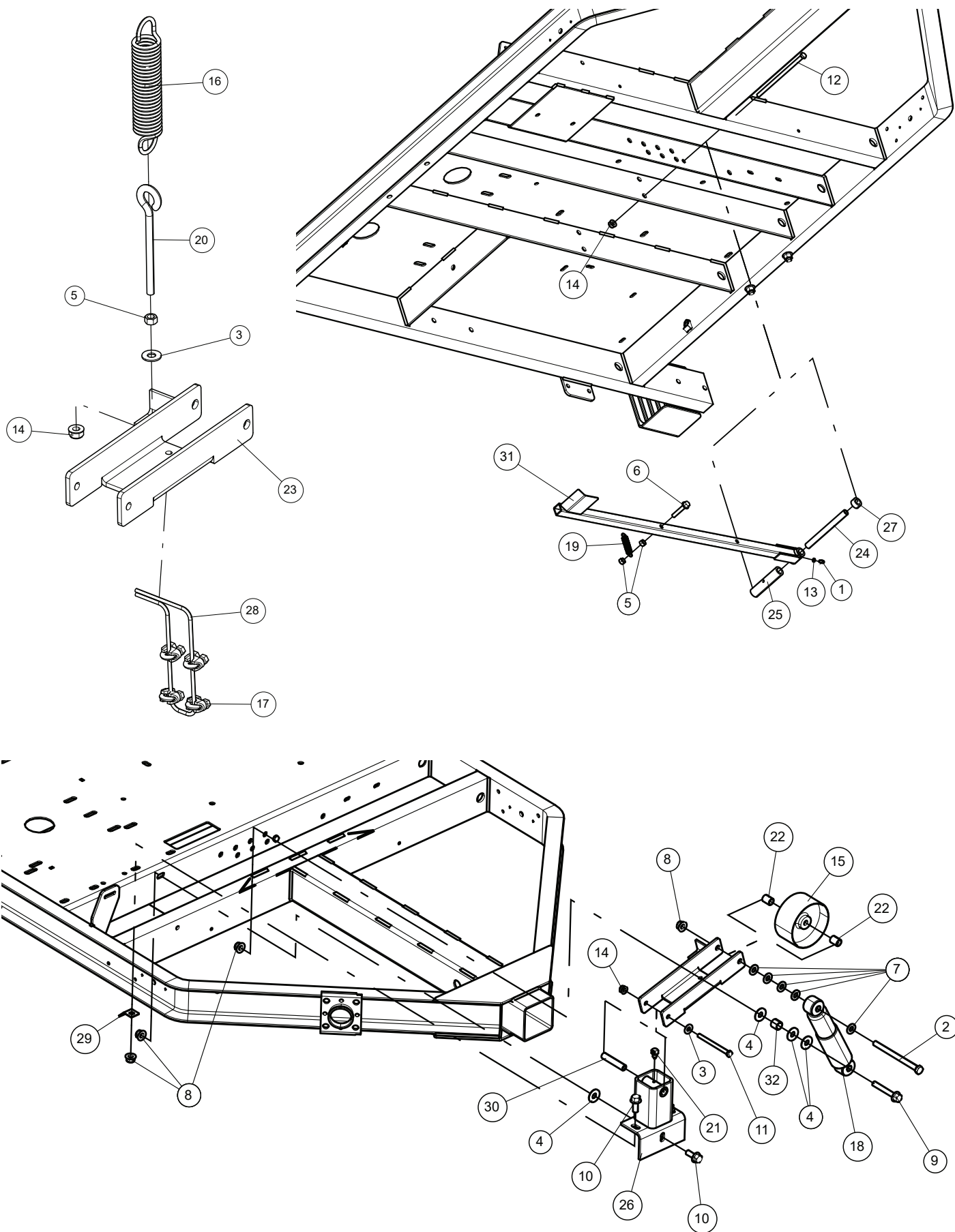
HYDRAULIC LAYOUT



HYDRAULIC LAYOUT

ITEM	PART NUMBER	DESCRIPTION
1	12339	ADAPTER, -8 MORING / -8 MORING ADJ
2	12615	ADAPTER, -8 MORING / -8 MJIC
3	14417-00	ADAPTER, -8 MORB / -8 MJIC 45 DEG.
4	16067	ADAPTER, -10 MORING / -8 MJIC 45 DEG.
5	16586	MOTOR, 45 CU IN HYDRAULIC
6	16588	ASSEMBLY, HYDRAULIC FILTER
7	16638	ADAPTER, -10 MORING / -10 MJIC 90 DEG.
8	18029-00	HOSE, .375 × 36" -8 FMJIC / -8 FMJIC
9	31425-00	CLAMP, 1-5/32 TO 7/32 OD RANGE T-BOLT
10	31671-00	PUMP, 2 STAGE CW HI/LO 0.605 DISP.
11	36017-00	ADAPTER, -10 MORING / .75 90 DEG. HOSE
12	36098-00	HOSE, .75 ID × 38" 100R4 HYD
13	36265-00	HOSE, .50 × 84" -8 FMJIC / -8 FMJIC
14	36266-00	HOSE, .50 × 66" -8 FMJIC / -10 FMJIC 90 DEG.
15	41287	ADAPTER, -8 MORING / -8 MJIC 90 DEG.
16	71296-00	ASSEMBLY, HYDRAULIC TANK
17	71628-00	ASSEMBLY, HYDRAULIC FEED FLOW VALVE (see VALVE ASSEMBLY for part numbers)

IDLER



ITEM	PART NUMBER	DESCRIPTION
1	12275	FITTING, 1/4 SELF-TAP GREASE
2	15018	BOLT, 1/2 × 6-1/2 GR5 HCS ZP
3	15031	WASHER, 3/8" FLAT ZP
4	15034	WASHER, 1/2 FLAT (56PCS/LB) CMS F1 5ANS
5	15042	NUT, 3/8" HEX NC ZP
6	15078-00	BOLT, 3/8 × 2 FLANGE NC
7	15097	WASHER, 1/2 SAE FLAT CMS F1 5ANS
8	15162-00	NUT, 1/2-13 NYLOCK FLANGE
9	15198-00	BOLT, 1/2-13 × 3-1/4 HWH GR8 YZP
10	15232-00	BOLT, 1/2 -13 × 1-1/4 FLANGE NC
11	15274	BOLT, 3/8 × 4-1/2" HHCS GR5 NC ZP
12	15517	BOLT, 3/8 × 7-1/2" HHCS GR5 NC ZP
13	15584	WASHER, FLAT .254 × .400 × .048
14	15905-00	NUT, 3/8-16 NYLOCK FLANGE
15	16230	PULLEY, IDLER 5 × 2.50"
16	16502	SPRING, 7-3/4" EXTENSION
17	16782	CLAMP, 3/16 CABLE
18	16786	ABSORBER, IDLER SHOCK
19	17520	SPRING, LT EXT .555 OD × 2.75 LG
20	17804	EYEBOLT, 3/8 × 5" LG 4-1/4 THD ZP
21	35382-00	ADAPTER, 90 DEG GREASE HOSE FITTING
22	70290	SPACER, .75 × .90
23	71505	WELDMENT, IDLER ARM
24	71579	SPACER, .63 × 6.44
25	71580	SPACER, 1.0 × 4.25
26	71621	WELDMENT, IDLER SUPPORT
27	71631	SPACER, 1.0 × 0.50
28	71632	CABLE, 3/16 × 24-1/2
29	71633	ANGLE, SPRING ANCHOR
30	71634	SPACER, .63 × 3.06
31	71865-40	WELDMENT, CHIPPER CLUTCH PEDAL
32	73205-10	SPACER, 7/8 × 3/4

ENGINE HOUSING

Isolator
P/N: 33982-00



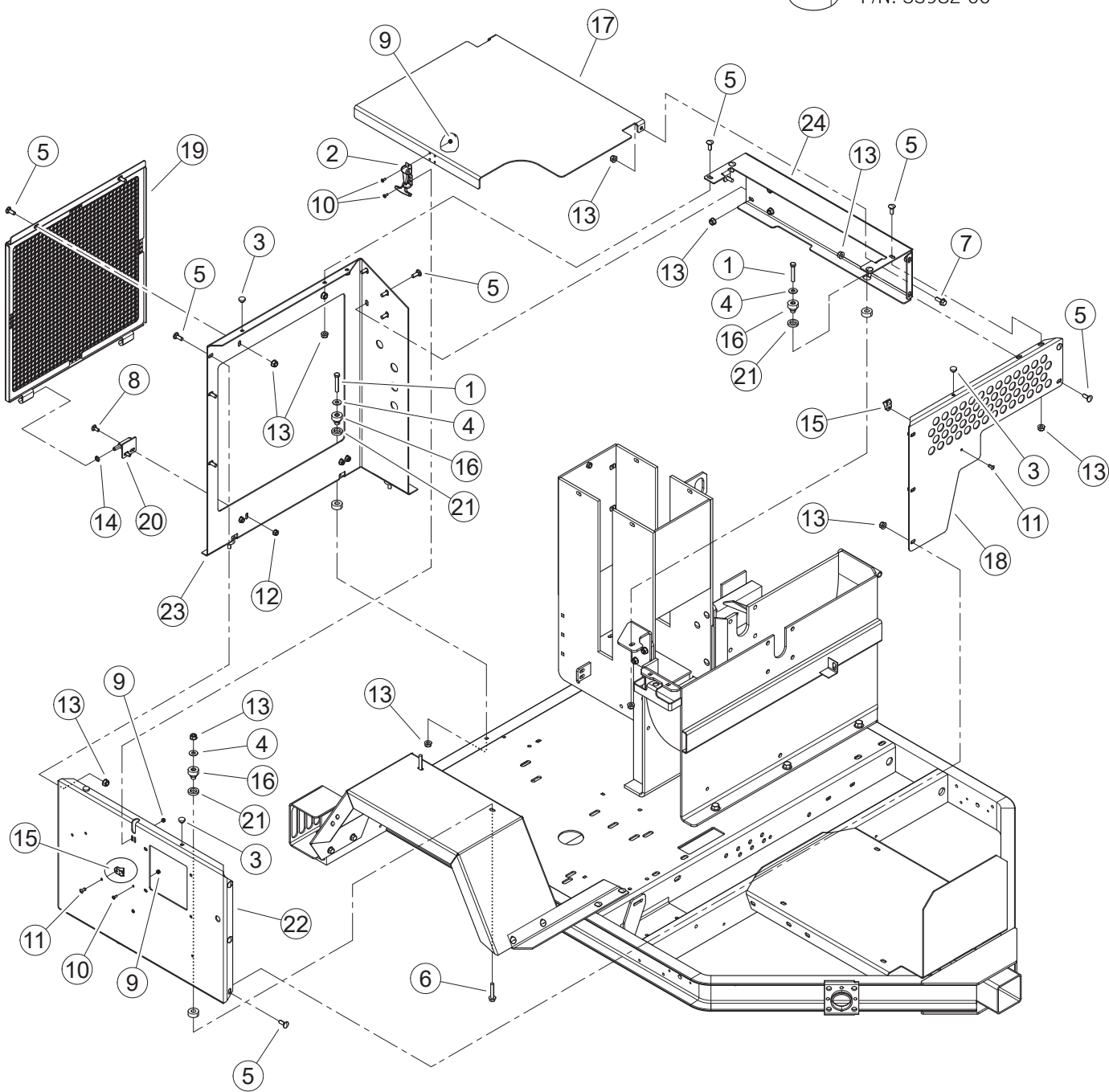
Isolator Bushing
P/N: 33982-00



Isolator Spacer
P/N: 77868-12



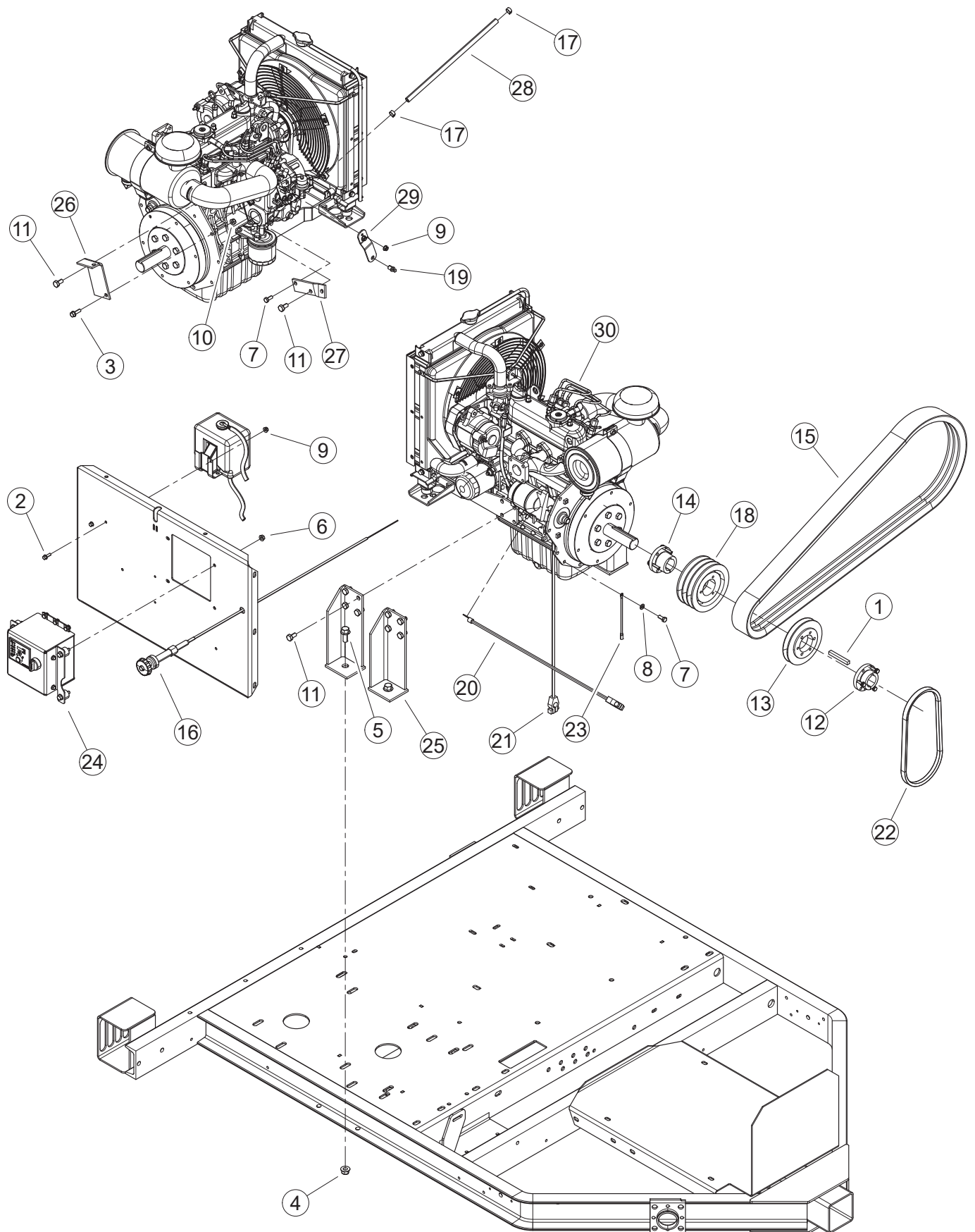
Isolator Ring
P/N: 33982-00



ENGINE HOUSING

ITEM	PART NUMBER	DESCRIPTION
1	0103-0711-00	BOLT, 3/8 × 2-1/4 HEX GR5 ZP
2	0125-0060-00	LATCH, FLEXIBLE DRAW
3	13904-00	BUMPER, RUBBER
4	15031	WASHER, 3/8 FLAT
5	15057	BOLT, 3/8-16 × 1 GR5 CRG
6	15078-00	BOLT, 3/8 × 2 FLANGE NC
7	15163-00	BOLT, 3/8 × 1 FLANGE NC
8	15367	BOLT, 5/16 × 3/4 GR5 CRG NC ZP
9	15397	NUT, 10/24 NYLOCK TYPE NM ZP
10	15423	SCREW, MCH 10-24 × 1/2" PAN HD PH ZP
11	15828-00	RIVET, AL BLIND 1/4 × 3/4 DOME HEAD
12	15904-00	NUT, 5/16-18 NYLOCK FLANGE
13	15905-00	NUT, 3/8-16 NYLOCK FLANGE
14	18285-00	HINGE, REF 18282-00
15	18549-00	CLAMP, CABLE MOUNT
16	33982-00	ISOLATOR, UNIVERSAL MOUNT
17	71215-10	HOOD, ENGINE
18	71216-10	COVER, FRONT ENGINE
19	72320-10	WELDMENT, ENGINE SCREEN
20	72329-10	WELDMENT, SCREEN HINGE
21	77868-10	SPACER, ISOLATOR
22	77876-10	COVER, ENGINE SIDE
23	77877-10	COVER, RADIATOR
24	77878-10	SIDE, ENGINE COVER
—	17320	STRAP, 11 IN BLACK TIE (not shown)

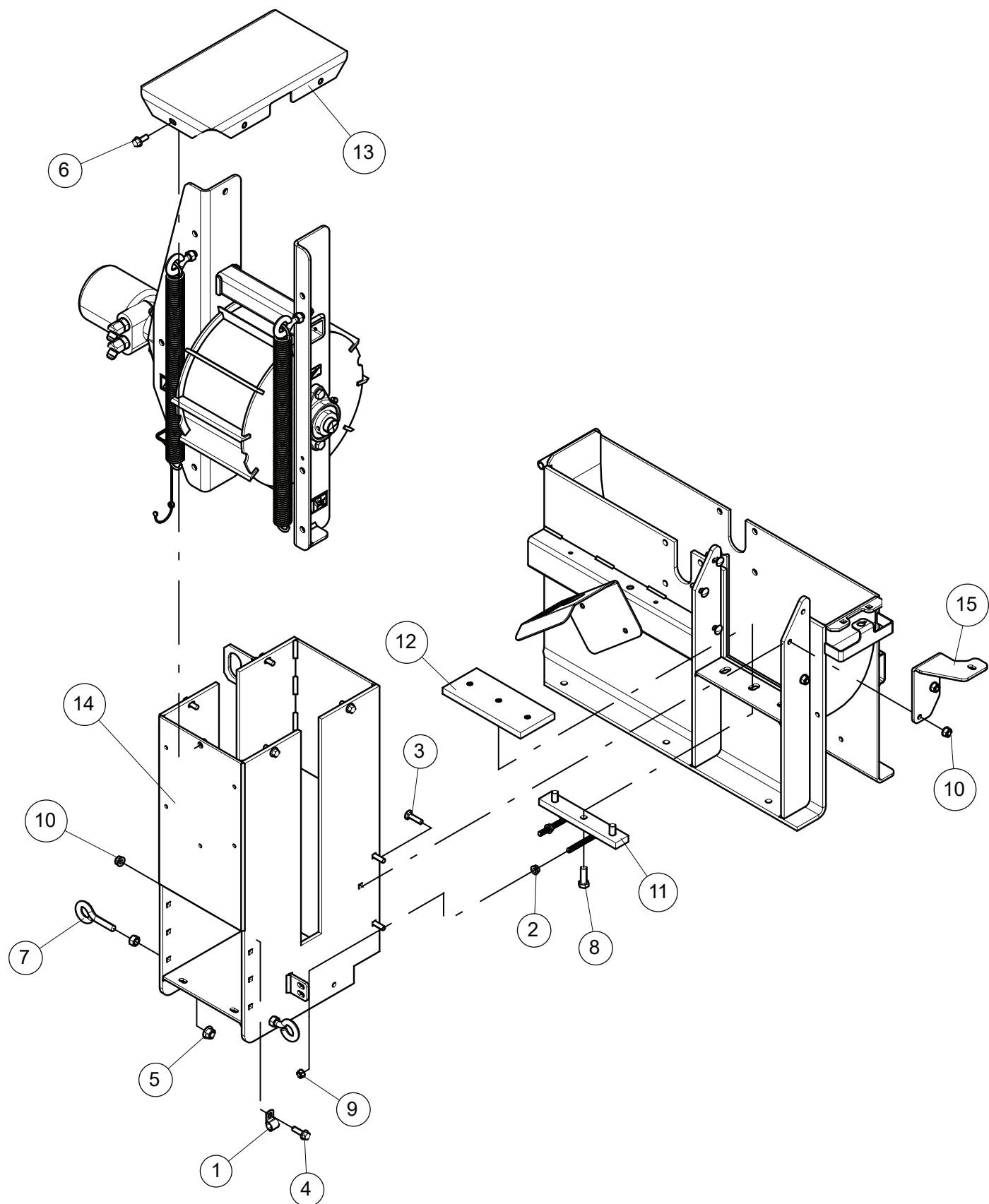
ENGINE



ENGINE

ITEM	PART NUMBER	DESCRIPTION
1	0122-0212-00	KEY, 3/8 SQ × 3
2	15079-00	BOLT, 1/4-20 × 3/4 FLANGE GR5 CZP
3	15120-00	BOLT, 5/16 × 1 FLANGE NC
4	15162-00	NUT, 1/2-13 NYLOCK FLANGE
5	15232-00	BOLT, 1/2 -13 × 1-1/4 FLANGE NC
6	15351	NUT, 5/16-18 SERRATED FLANGE NC
7	15519	BOLT, M 8-1.25 × 20 GR8.8 HEX HD ZP
8	15635	WASHER, M8 FLAT
9	15900-00	NUT, 1/4-20 NYLOCK FLANGE
10	15904-00	NUT, 5/16-18 NYLOCK FLANGE
11	15960-00	BOLT, M10 × 1.25 × 20 GR10.9 HEX HEAD ZP
12	16327	BUSHING, SDS 1-7/16"
13	16482	SHEAVE, 1B5.2 SDS
14	16552	BUSHING, SD 1-7/16"
15	16559	BELT, 3B83 BANDED
16	16769	CABLE, DIESEL THROTTLE 34 IN
17	16806	CLAMP, 9/16 SPRING
18	17026	SHEAVE, 3BQ5.6 SD
19	17165	CABLE STOP, BOWDEN PIN # 6170
20	31256-00	CABLE, 72" POSITIVE BATTERY
21	31374-00	CABLE, 72" NEGATIVE BATTERY
22	32930-00	BELT, BX30
23	34347-00	HARNESS, FUEL PUMP GROUND WIRE
24	35930-00	CONTROLLER, DSE 1.1L - KUBOTA
25	71514	WELDMENT, ENGINE MOUNT
26	71525	ANGLE, SPRING ANCHOR
27	71563	STRIP, CABLE ANCHOR
28	71696	HOSE, 15 INCH FUEL LINE
29	71720	STRIP, THROTTLE CONTROL
30	—	ASSEMBLY, 24.8 HP KUBOTA® DIESEL ENGINE (For service see engine owner's manual or nearest Kubota industrial engine dealer.)

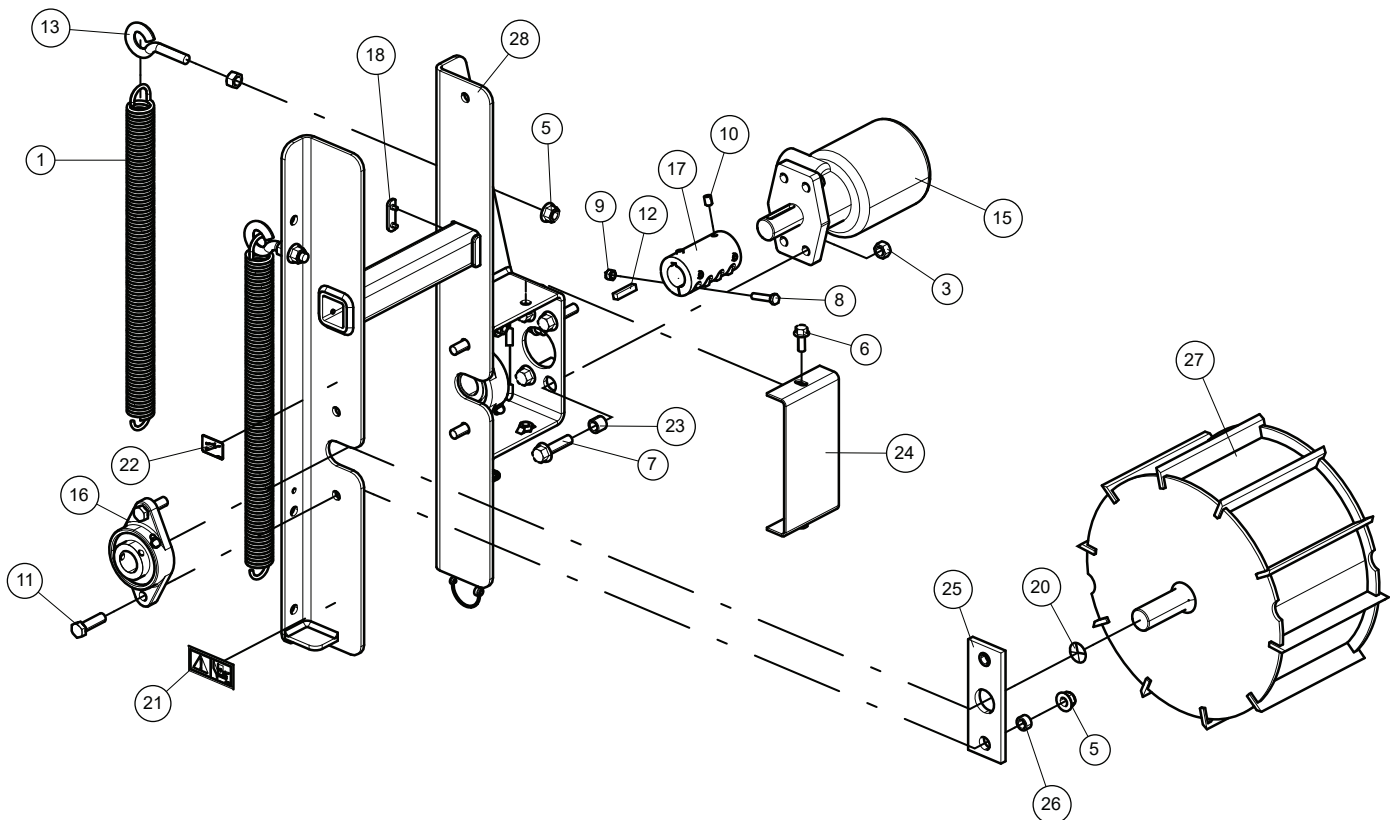
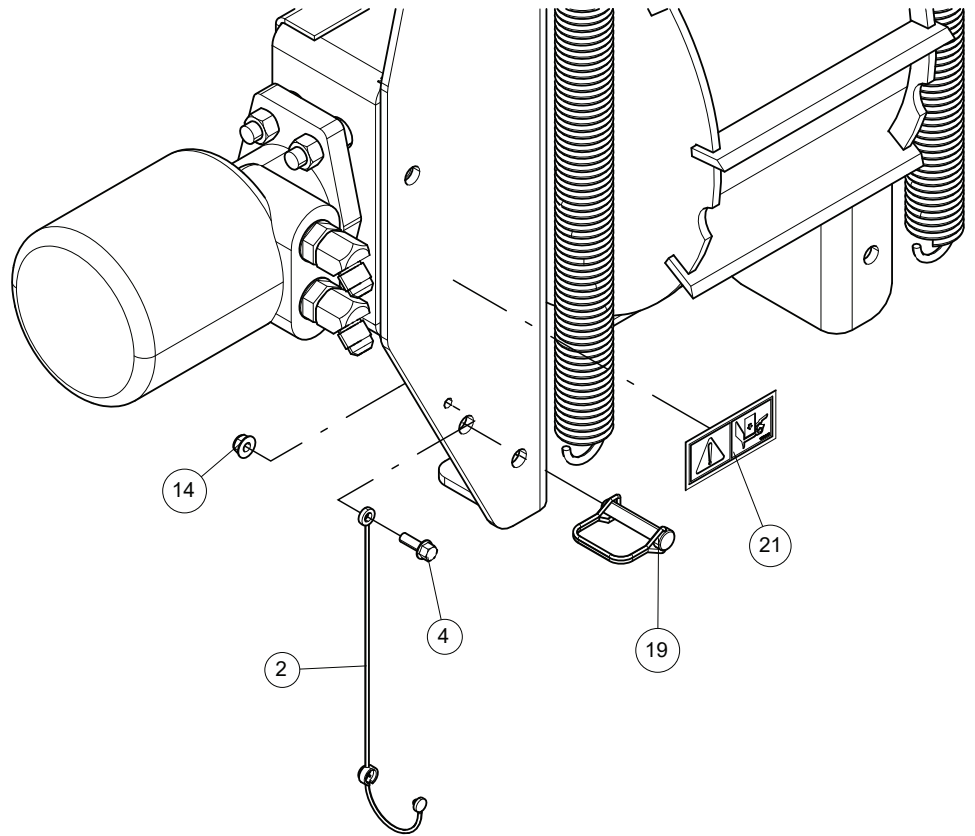
FEED ROLLER HOUSING



FEED ROLLER HOUSING

ITEM	PART NUMBER	DESCRIPTION
1	14048-00	CLAMP, 9/16 COATED
2	15051	NUT, 3/8-16 SERRATED FLANGE
3	15058	BOLT, 3/8-16 × 1-1/2 GR5 CRG
4	15109-00	BOLT, 3/8 × 1-1/4 FLANGE NC
5	15162-00	NUT, 1/2-13 NYLOCK FLANGE
6	15163-00	BOLT, 3/8 × 1 FLANGE NC
7	15502	EYEBOLT, 1/2-13 × 2
8	15855-00	BOLT, 1/2 × 1-1/2 GR8 NC ZP HEX HD
9	15904-00	NUT, 5/16-18 NYLOCK FLANGE
10	15905-00	NUT, 3/8-16 NYLOCK FLANGE
11	71050-10	WELDMENT, BLOCK ADJUSTOR
12	71132-10	PLATE, CHIPPER BOTTOM
13	77151-40	WELDMENT, TOP ROLLER COVER
14	77152-40	WELDMENT, ROLLER SUPPORT
15	77875-10	BRACKET, HOUSING

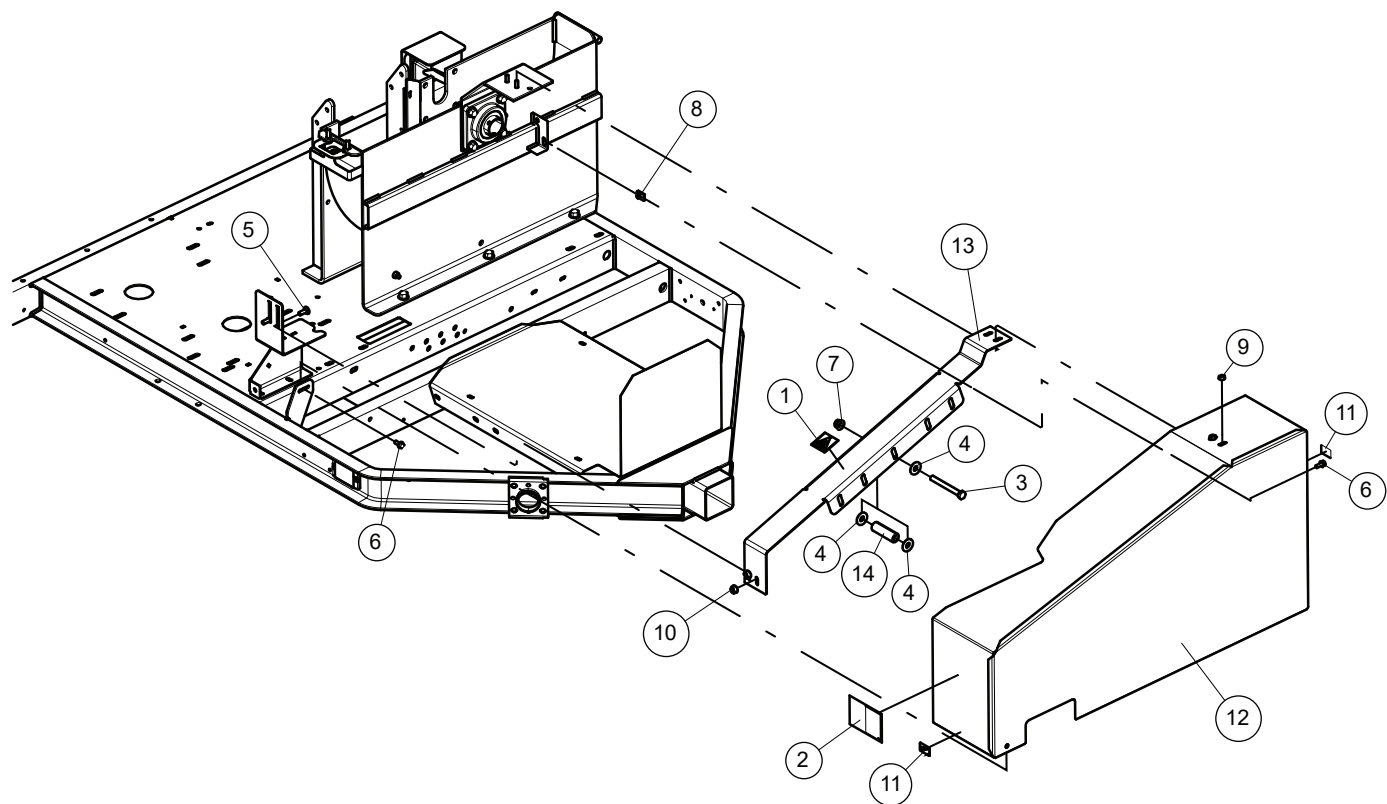
FEED ROLLER



FEED ROLLER

ITEM	PART NUMBER	DESCRIPTION
1	12504-10	SPRING, EXTENSION
2	12530	LANYARD, NYLON
3	15049	NUT, 1/2" CENTERLOCK GRB ZP
4	15079-00	BOLT, 1/4-20 × 3/4 HWH GR5 CZP
5	15162-00	NUT, 1/2-13 NYLOCK FLANGE
6	15163-00	BOLT, 3/8 × 1 FLANGE NC
7	15200-00	BOLT, 1/2-13 × 2 HWH GR5 CZP
8	15282	BOLT, 5/16 × 1-1/2 GR5 HEX CPS ZP
9	15356	NUT, 5/16" NE NYLOCK ZP
10	15461	SET SCREW, 3/8 × 1/2 CUP PT SKT
11	15478	BOLT, 1/2 × 1 3/4 GR5 HCPS NC ZP
12	15498	KEY, 5/16 × 1-1/2 SQUARE
13	15502	EYEBOLT, 1/2 × 2" ZP
14	15900-00	NUT, 1/4-20 NYLOCK-FLANGE
15	16586	MOTOR, 45 CU IN HYDRAULIC
16	16682	BEARING, 1-1/4" DIA 2 BOLT FLANGE
17	16683	COUPLER, 1-1/4 SHAFT
18	17434	WEAR PAD, STD. SPRING HD FRONT
19	17879	PIN, SNAP 3/8 × 1-1/2 USABLE LGH
20	18061-00	DECAL, ROTATING SHAFT
21	18983-00	DECAL, CRUSHING ISO
22	35481-00	DECAL, GREASE GUN ICON
23	70534	SPACER, 0.75 × 0.620
24	71335-10	SHIELD, COUPLER
25	73248	BEARING, SLIDE
26	73249	SPACER, .75 OD × .5 ID × .37
27	77135-00	ASSEMBLY, TOP GRAB ROLLER SERVICE PART (Includes Items 20)
28	78952-00	WELDMENT, ROLLER SLIDE W/ DECALS (Includes Items 21 & 22)

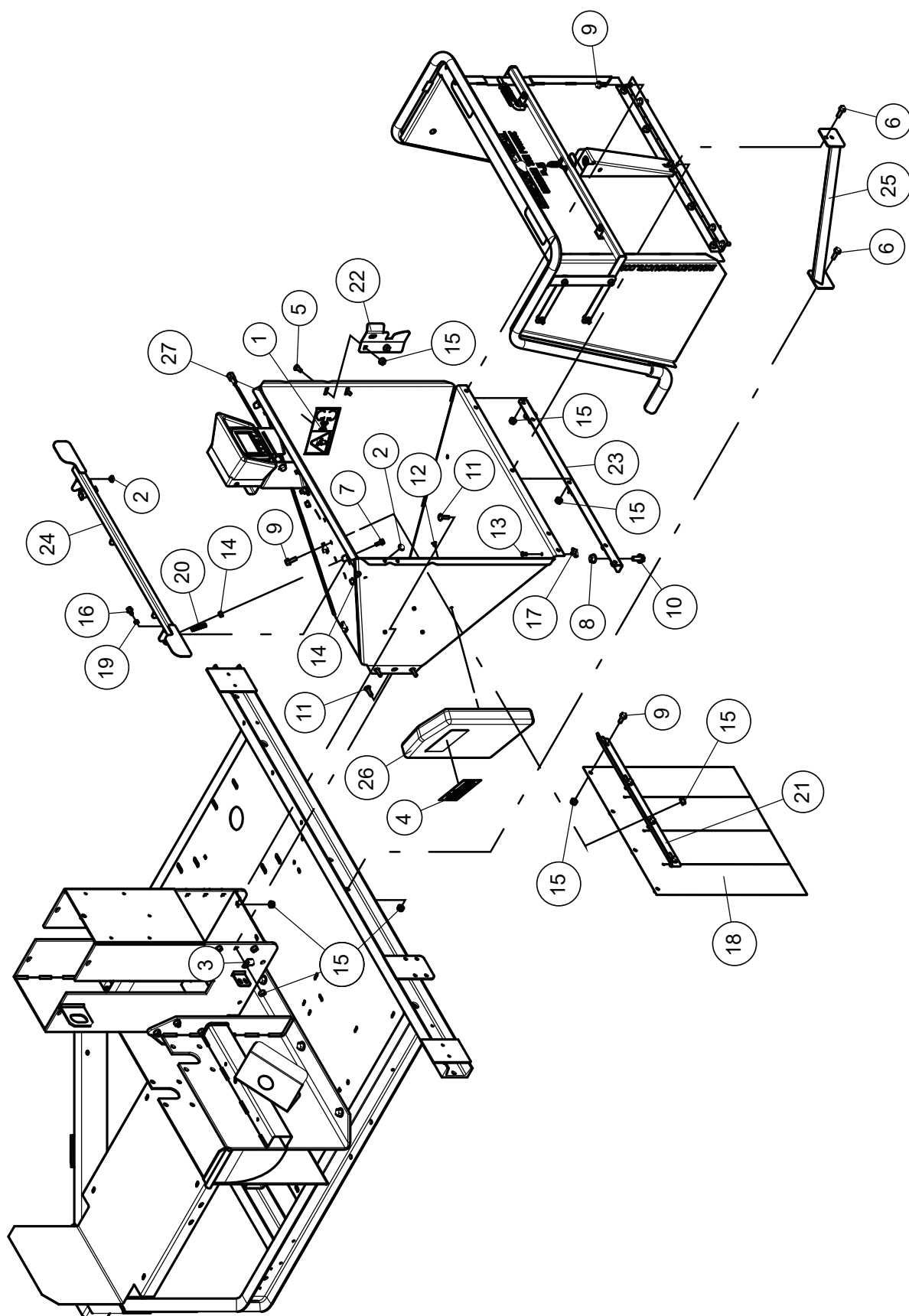
SHIELDS



SHIELDS

ITEM	PART NUMBER	DESCRIPTION
1	12174	DECAL, SHIELD DANGER ISO
2	12183	DECAL, CLUTCH ENGAGEMENT ISO
3	15017	BOLT, 1/2 × 4-1/2" GR5 HHCS NC ZP
4	15034	WASHER, 1/2" FLAT ZP
5	15057	BOLT, 3/8 × 1" GR5 CRG NC ZP
6	15117-00	BOLT, 5/16 × 3/4 FLANGE NC
7	15162-00	NUT, 1/2-13 NYLOCK FLANGE
8	15402	NUT 5/16-18 TINNEMAN U-TYPE
9	15904-00	NUT, 5/16-18 NYLOCK-FLANGE
10	15905-00	NUT, 3/8-16 NYLOCK FLANGE
11	35481-00	DECAL, GREASE GUN ICON
12	71326-00	ASSEMBLY, BELT SHEILD W/ DECALS (Includes Items 2 & 11)
13	71327-00	ASSEMBLY, BELT GUIDE W/ DECALS (Includes Item 1)
14	73158	SPACER, 1.0 X 3-1/8

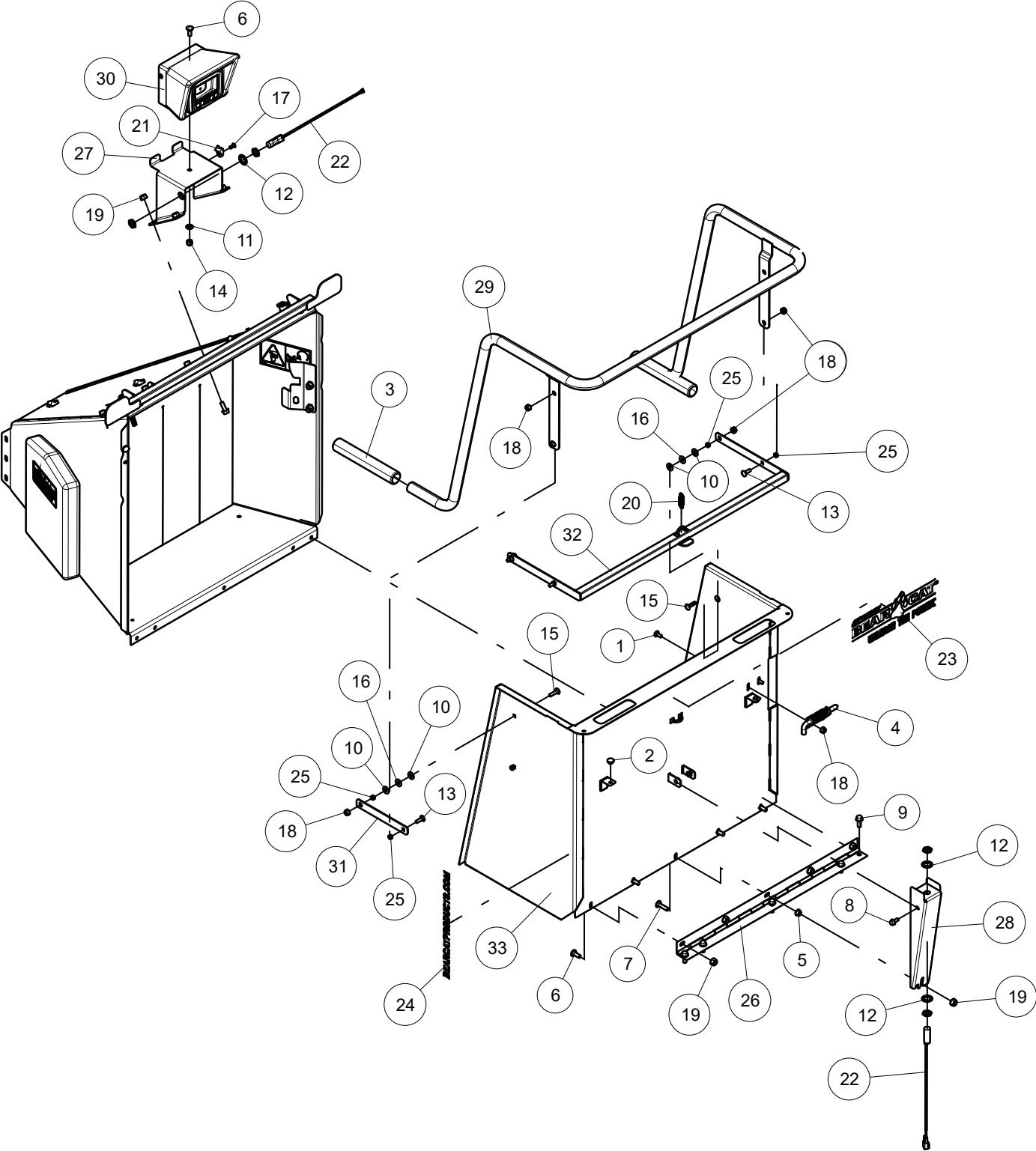
CHUTE (Drawing #1)



CHUTE (Drawing #1)

ITEM	PART NUMBER	DESCRIPTION
1	12175	DECAL, BLADE DANGER ISO
2	13904-00	BUMPER, RUBBER
3	14048-00	CLAMP, 9/16 COATED
4	14942-00	DECAL, MULTILINGUAL MANUAL
5	15057	BOLT, 3/8-16 × 1 GR5 CRG
6	15109-00	BOLT, 3/8 × 1-1/4 FLANGE NC
7	15117-00	BOLT, 5/16 × 3/4 FLANGE NC
8	15162-00	NUT, 1/2-13 NYLOCK FLANGE
9	15163-00	BOLT, 3/8 × 1 FLANGE NC
10	15231-00	BOLT, 1/2-13 1.00 GR5 FLANGE NC
11	15378	BOLT, 3/8-16 × 1-1/4 GR5 CRG
12	15827-00	RIVET, AL BLIND 1/4 × 1/2 DOME HEAD
13	15828-00	RIVET, AL BLIND 1/4 × 3/4 DOME HEAD
14	15904-00	NUT, 5/16-18 NYLOCK FLANGE
15	15905-00	NUT, 3/8-16 NYLOCK FLANGE
16	15908-00	BOLT, 5/16-18 × 3/4 ZP FLANGE SHOULDER
17	18549-00	CLAMP, CABLE MOUNT
18	30325-00	FLAP, 9 INCH CHUTE
19	33282-00	BEARING, .375 × .50 × .25 LONG
20	33283-00	SPRING, COMPRESSION .437 DIA × 2.0 LONG
21	70754-10	SUPPORT, 9 INCH CHIPPER FLAP
22	71984-40	PLATE, TRAY LATCH
23	71985-10	ANGLE, INFEED SUPPORT
24	72295-10	WELDMENT, 8"/9" TOP SAFETY BAR
25	72696-10	WELDMENT, CHUTE SUPPORT
26	77113-00	ASSEMBLY, MANUAL CONTAINER SERVICE PART (Includes Item 4)
27	78680-00	ASSEMBLY, 8"/9" DDC INFEED W/ DECALS (Includes Item 1)
—	17320	STRAP, 11 IN BLACK TIE (not shown)

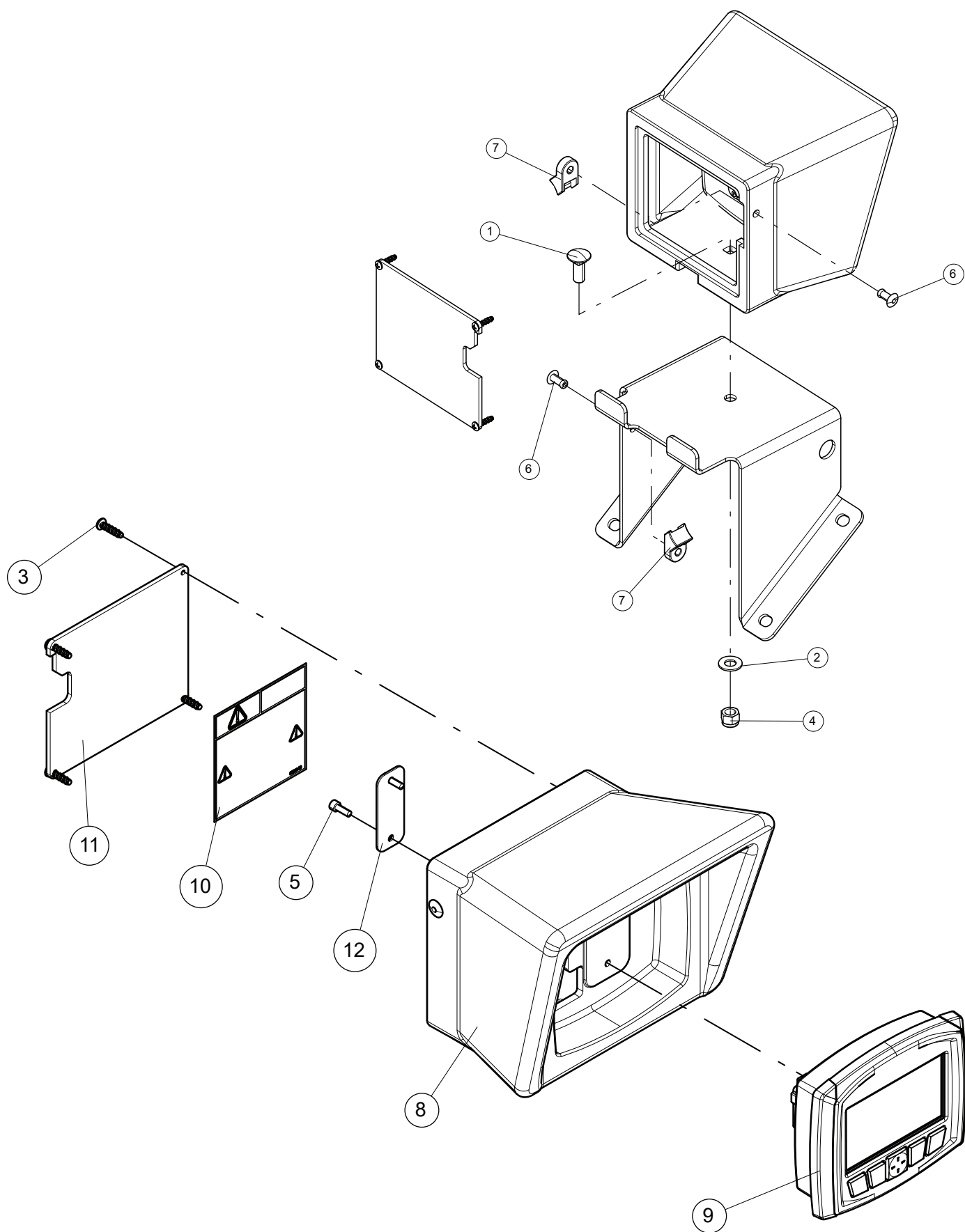
CHUTE (Drawing #2)



CHUTE (Drawing #2)

ITEM	PART NUMBER	DESCRIPTION
1	0103-0909-00	BOLT, 5/16-18 × 3/4 SN GR5 CRG
2	13904-00	BUMPER, RUBBER
3	14520-00	GRIP, 1.219 × 10.00
4	14971-00	LATCH, RH HINGE
5	15051	NUT, 3/8-16 SERRATED FLANGE
6	15057	BOLT, 3/8-16 × 1 GR5 CRG
7	15058	BOLT, 3/8-16 × 1-1/2 GR5 CRG
8	15117-00	BOLT, 5/16 × 3/4 FLANGE NC
9	15163-00	BOLT, 3/8 × 1 FLANGE NC
10	15250	WASHER, 5/16 FLAT
11	15260	WASHER, 3/8 SAE FLAT
12	15286-00	WASHER, 3/4 INTERNAL LOCK
13	15301	BOLT, 5/16-18 × 1 GR5 CRG
14	15388	NUT, 3/8-16 NYLOCK
15	15398	BOLT, 5/16 × 1-1/4 GR5 CRG
16	15409	WASHER, 5/16" ID 7/8" OD NYLON FLAT
17	15828-00	RIVET, AL BLIND 1/4 × 3/4 DOME HEAD
18	15904-00	NUT, 5/16-18 NYLOCK FLANGE
19	15905-00	NUT, 3/8-16 NYLOCK FLANGE
20	16698	SPRING, 1/2 × 2.00 LG
21	18549-00	CLAMP, CABLE MOUNT
22	33281-00	SENSOR, M18 PROXIMITY (replacement part)
23	34993-00	DECAL, CBC LOGO O&W TAGLINE 4.66 x 14.13
24	35220-00	DECAL, CBC WEB ADDRESS WHITE 0.96 x 15.00
25	69126	SPACER, IDLER PIVOT
26	71492-10	HINGE, EXTENSION TRAY
27	72000-10	MOUNT, 5"/8"/9" DDC
28	72050-10	MOUNT, 5"/8"/9" KNEEBAR PROX SENSOR
29	72297-40	WELDMENT, 8"/9" SAFETY KNEEBAR
30	72413-00	ASSEMBLY, DDC ENCLOSURE (see DDC ENCLOSURE for part numbers)
31	74157-10	LINK, PARALLEL
32	74161-10	WELDMENT, KNEEBAR PIVOT
33	78679-00	ASSEMBLY, 8"/9" TRAY W/ DECALS (Includes Items 22 & 24)
–	17320	STRAP, 11 IN BLACK TIE (not shown)
–	33295-00	HARNESS, 9IN DIESEL DDC CONTROLLER (not shown)

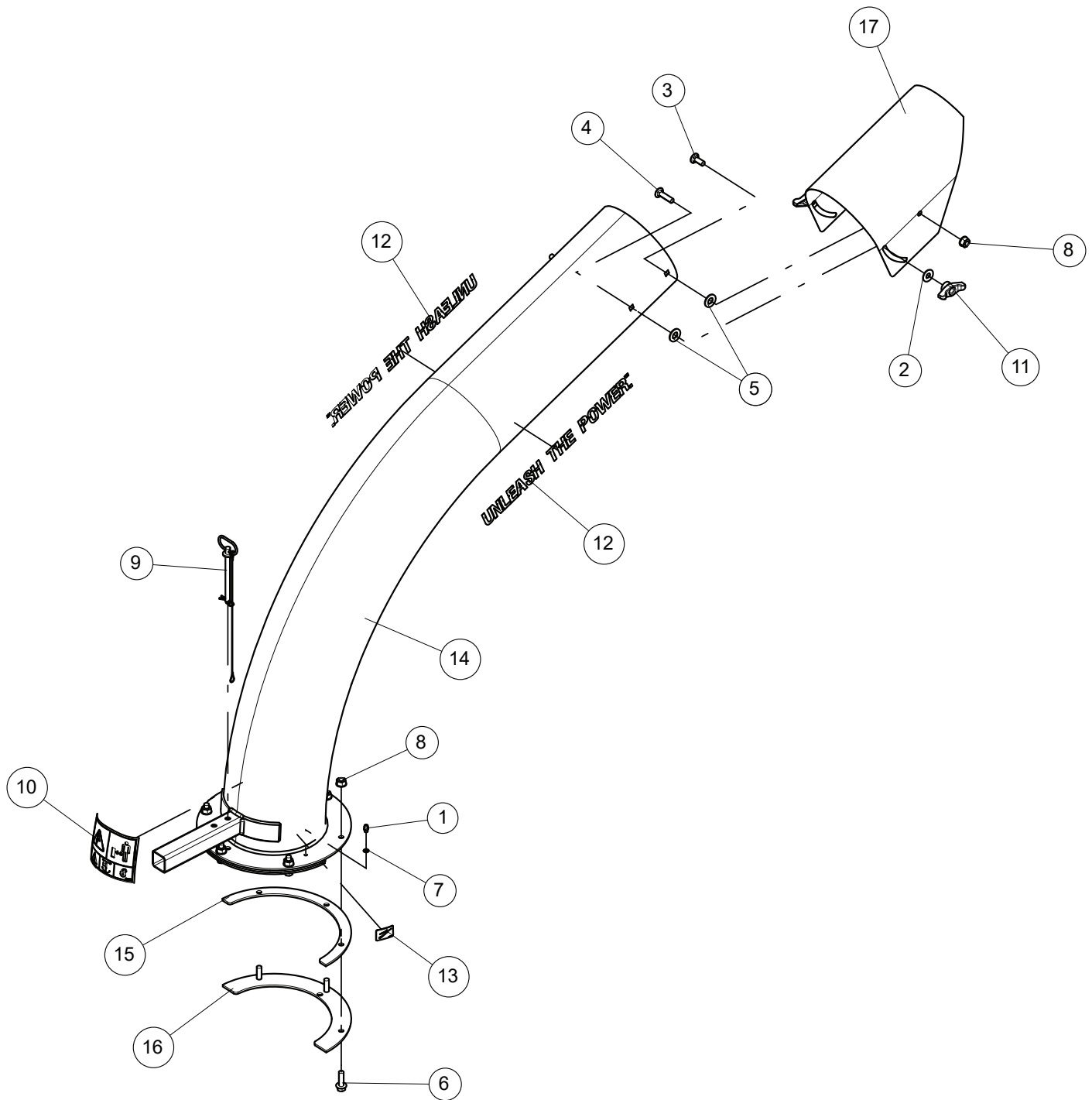
DDC ENCLOSURE



DDC ENCLOSURE

ITEM	PART NUMBER	DESCRIPTION
1	15057	BOLT, 3/8 × 1" GR5 CRG NC ZP
2	15260	WASHER, 3/8" SAE FLAT ZP
3	15287-00	SCREW, 10-16 3/4 LONG FOR PLASTIC
4	15388	NUT, 3/8" NE NYLOCK ZP
5	15817-00	SCREW, #8-32 × 1/2 SKT HD CAP
6	15828-00	RIVET, AL BLIND 1/4 × 3/4 DOME HEAD
7	18549-00	CLAMP, CABLE MOUNT
8	33270-00	ENCLOSURE, CONTROLLER
9	33280-00	CONTROLLER, CL-709-100 MASTER
10	33298-00	DECAL, DDC MOUNTING INFO
11	72313-00	ASSEMBLY, ENCLOSURE COVER WITH DECAL (includes Item 10)
12	72972-10	PLATE, DDC WASHER
–	17320	STRAP, 11 IN BLACK TIE (not shown)

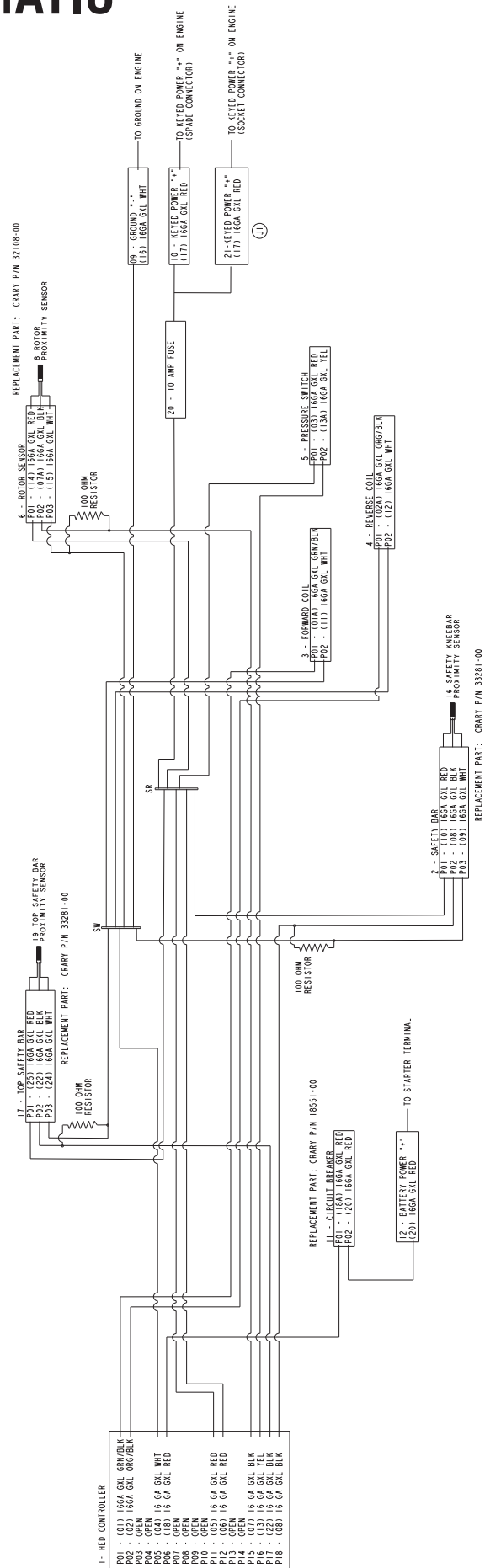
DISCHARGE TUBE



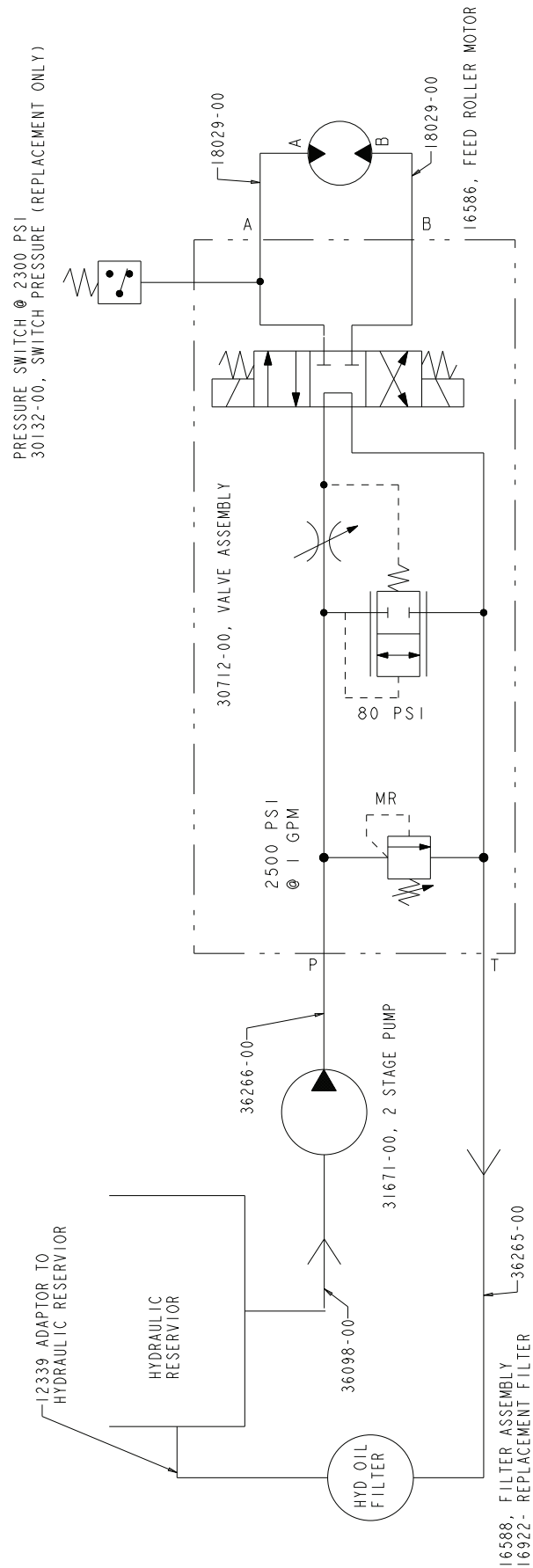
DISCHARGE TUBE

ITEM	PART NUMBER	DESCRIPTION
1	12275	ZERK, STRAIGHT 1/4-28 UNF MALE SELF-TAP .58 OVERALL LG
2	15031	WASHER, 3/8" FLAT ZP
3	15057	BOLT, 3/8 × 1" GR5 CRG NC ZP
4	15058	BOLT, 3/8 × 1-1/2" GR5 CRG NC ZP
5	15097	WASHER, 1/2 SAE FLAT
6	15109-00	BOLT, 3/8 × 1-1/4 FLANGE NC
7	15584	WASHER, FLAT .254 × .400 × .048
8	15905-00	NUT, 3/8-16 NYLOCK FLANGE
9	30131-00	PIN, 3/8 × 4.25" DISCHARGE
10	32109-00	DECAL, DISCHARGE DEBRIS & LOCK
11	32110-00	KNOB, 3/8-16 UNC FEMALE TEE
12	34994-00	DECAL, GREASE GUN ICON
13	35481-00	DECAL, CBC TAGLINE O&W 1.51 X 16.50
14	70168-00	ASSEMBLY, 8 INCH DISCHARGE CHUTE (Includes Items 1, 7, 10, 12, 13)
15	71247-10	RING, DISCHARGE SPACER
16	71248-10	RING, DISCHARGE CLAMP
17	71704-10	CAP, 8 INCH DISCHARGE CHUTE

ELECTRICAL SCHEMATIC



HYDRAULIC SCHEMATIC



SPECIFICATIONS

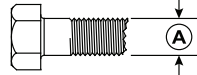
SPECIAL TORQUE REQUIREMENTS			
LOCATION	HARDWARE DESCRIPTION	TORQUE (UNIFIED INCH)	TORQUE (METRIC)
Controller mounting hardware*	8-32 screws	20 in-lbs.	2.26 Nm
Back of controller	USB seal cap**	20 oz-in	0.14 Nm

*Use of medium strength thread locker required.

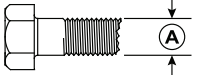
**If removing cap to program, cap and rubber washer must be reinstalled to correct torque to maintain IP67 seal.

BOLT TORQUE

The tables below are for reference purposes only and their use by anyone is entirely voluntary, unless otherwise noted. Reliance on their content for any purpose is at the sole risk of that person and any loss or damage resulting from the use of this information is the responsibility of that person.

SAE Grade and Head Markings	SAE 2	SAE 5	SAE 8	Bolt Diameter
				

BOLT DIAMETER (A)	BOLT TORQUE*					
	SAE 2		SAE 5		SAE 8	
	Nm	FT-LBS.	Nm	FT-LBS.	Nm	FT-LBS.
1/4"	7.5	5.5	11	8	16	12
5/16"	15	11	23	17	34	25
3/8"	27	20	41	30	61	45
7/16"	41	30	68	50	95	70
1/2"	68	50	102	75	149	110
9/16"	97	70	149	110	203	150
5/8"	122	90	203	150	312	230
3/4"	217	160	353	260	515	380
7/8"	230	170	542	400	814	600
1"	298	220	786	580	1220	900
1-1/8"	407	300	1085	800	1736	1280
1-1/4"	570	420	2631	1940	2468	1820

Metric Grade and Head Markings	4.8	8.8	10.9	12.9	Bolt Diameter
					

BOLT DIAMETER (A)	BOLT TORQUE*							
	4.8		8.8		10.9		12.9	
	Nm	FT-LBS.	Nm	FT-LBS.	Nm	FT-LBS.	Nm	FT-LBS.
M3	0.5	0.4	–	–	–	–	–	–
M4	3	2.2	–	–	–	–	–	–
M5	5	4	–	–	–	–	–	–
M6	6	4.5	11	8.5	17	12	19	14.5
M8	15	11	28	20	40	30	47	35
M10	29	21	55	40	80	60	95	70
M12	50	37	95	70	140	105	165	120
M14	80	60	150	110	225	165	260	190
M16	125	92	240	175	350	255	400	300
M18	175	125	330	250	475	350	560	410
M20	240	180	475	350	675	500	800	580
M22	330	250	650	475	925	675	1075	800
M24	425	310	825	600	1150	850	1350	1000
M27	625	450	1200	875	1700	1250	2000	1500

*Torque value for bolts and capscrews are identified by their head markings.

Torque figures indicated above are valid for non-greased or non-oiled threads and heads unless otherwise specified. Therefore, do not grease or oil bolts or capscrews unless otherwise specified in this manual. When using locking elements, increase torque values by 5%.

SERVICE PARTS & ACCESSORIES

PART NUMBER	DESCRIPTION
14519-00	COUPLER, 2-5/16 20,000 LB
14900-00	HITCH, PINTLE RING 20,000 LB
33900-00	KEY, DSE
71072-00	KIT, CHIPPER ELECTRIC BRAKES
71725-00	KIT, LOW PROFILE DISCHARGE CHUTE
71731-00	KIT, FINE-CHIP ROTOR
71921	KIT, HOUR METER
78361-00	KIT, CHIPPER BLADE (1/2 INCH)
78922-00	KIT, SPARE TIRE HOLDER



2-5/16 20,000 lb. Coupler, 14519-00



Pintle Hitch, 14900-00

CHIPPER ELECTRIC BRAKES KIT P/N: 71072-00

PART NUMBER	DESCRIPTION	QTY.
12304	WIRE HARNESS, CHIPPER BRAKES	1
12307	WIRE HARNESS, CHIPPER BRAKE GROUND	1
30369-00	BRAKE, LH BRAKE ASSEMBLY	1
30370-00	BRAKE, RH BRAKE ASSEMBLY	1
30371-00	HUB, 10" HUB AND DRUM CUPS	2

HOUR METER KIT P/N: 71921-00

PART NUMBER	DESCRIPTION	QTY.
16946	METER, HOUR	1
16970	WIRE, HOUR METER CONNECTOR	2

CHIPPER BLADE (1/2 INCH) 30 DEG. KIT P/N: 78361-00

PART NUMBER	DESCRIPTION	QTY.
15770-00	WASHER, 5/8 SAE HRD	8
15833-00	BOLT, M16 x 2.0 x 30 HEX HD W/ PATCH	8
33797-00	BLADE, 30 DEGREE 1/2" CHIPPER	4



SERVICE PARTS & ACCESSORIES

LOW PROFILE DISCHARGE KIT

P/N: 71725-00

PART NUMBER	DESCRIPTION	QTY.
15031	WASHER, 3/8 FLAT	8
15057	BOLT, 3/8-16 x 1 CRG	2
15058	BOLT, 3/8-16 x 1-1/2 CRG	2
15109-00	BOLT, 3/8 x 1-1/4 FLANGE NC	6
15905-00	NUT, 3/8-16 NYLOCK FLANGE	8
30131-00	PIN, 3/8" x 4.25" DISCHARGE	1
32110-00	KNOB, 3/8-16 UNC FEMALE TEE	2
71247-10	RING, DISCHARGE SPACER	2
71248-10	RING, DISCHARGE CLAMP	2
71723-10	CAP, LOW PROFILE DISCHARGE	1
71724-00	ASSEMBLY, LOW PROFILE DISCHARGE W/ DECALS	1



FINE-CHIP ROTOR KIT

P/N: 71731-00

PART NUMBER	DESCRIPTION	QTY.
12530	LANYARD, NYLON	1
14544-00	PIN, HITCH 1/2" W/ LYNCH PIN	1
15001	BOLT, 1/4 x 3/4 HEX HD	1
15015	BOLT, 1/2-13 x 2HHCS	4
15030	WASHER, 1/4 FLAT	1
15034	WASHER, 1/2 FLAT	8
15043	NUT, 1/2 HEXCNH FC 1539	2
15049	NUT, 1/2-13 CENTERLOCK GRB ZPCNH FC 1551	10
15116	BOLT, 3/8-16 x 2-1/2 HCS	1
15355	NUT, 1/4-2 ONE NYLOCK CMS F1 5ANS	1
15388	NUT, 3/8" NYLOCK	1
15478	BOLT, 1/2-13 x 1-3/4 HHCS	2
15481	STUD, 1/2"-13 x 3" LG B7 ZP	2
16460	CAP, LARGE SHAFT	1
16553	HOUSING, 4 BOLT	2
71728-00	ASSEMBLY, FINE-CHIP ROTOR	1
74784-10	COLLAR, CHIPPERLOCK	1
75960-10	BRACKET, DISK LOCK	1

SPARE TIRE HOLDER 9" DIESEL KIT

P/N: 78922-00

PART NUMBER	DESCRIPTION	QTY.
0100-0140-00	BOLT, 1/2 X 1.00 LUG	2
11009-00	SQUARE U-BOLT ZINC-PLATED, 4" INSIDE WIDTH, 2-5/8" HEIGHT	2
12125	ASSEMBLY, TIRE AND WHEEL	1
15527	NUT, 1/2 WHEEL	2
78385-00	KIT, CBC TIRE REGISTRATION	1
78916-10	WELDMENT, TIRE MOUNT BIG CHIPPER	1



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