

Flex-vey 350 Auger Fill System

Installation, Operation, and Parts Replacement

Manual No. 25-05-0233 06-2021

FLEX-vey® 350

Auger Fill System

For the following components:

Power Units	
Direct Drive	
86-01-1423	PWR UNIT, 350, 358RPM, 3/4HP, 50/60HZ, 1PH, 115/220-230V, L/WIRING
25-05-1607	PWR UNIT, 350, 358RPM, 3/4HP, 60HZ, 3PH, 208-230/460V, L/WIRING
25-05-1713	PWR UNIT, 350, 358RPM, 1HP, 60HZ, 1PH, 115/230V, L/WIRING
25-05-1715	PWR UNIT, 350, 358RPM, 1HP, 60HZ, 3PH, 208-230/460V, L/WIRING
25-05-1721	PWR UNIT, 350, 412RPM, 3/4HP, 50/60HZ, 1PH, 115/220/230V, L/WIRING
25-05-1761	PWR UNIT, 350, 358RPM, 1HP, 50HZ 3PH, 220/380/440, F/PROX SWITCH
25-05-1762	PWR UNIT, 350, 358RPM, 1HP, 60HZ, 3PH, 208-230/460V, F/PROX SWITCH

Belt Drive

25-05-1211	8" [203mm] Pulley
86-00-0210	12" [305mm] Pulley

Unloader Valve Kits, for 16" [406mm] Opening Bins

25-16-1200	UNLOADER, 350, SNGL OUT, W/BRONZE ANCHOR ASSY W/BOOT HDW
25-16-1225	UNLOADER, 350, TWIN OUT W/BRONZE ANCHOR ASSY W/BOOT HDW
25-16-1235	UNLOADER, 350-TWIN OUT OPPO- -SITE, W/BRONZE ANCHOR ASSY, W/BOO

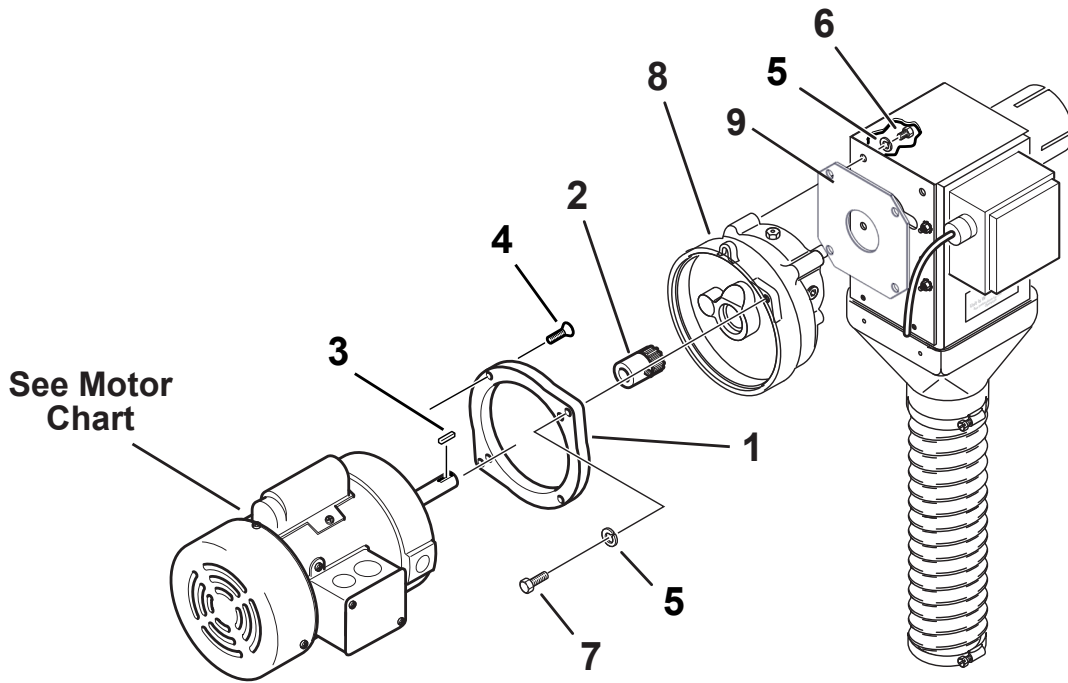
Transfer Assembly (In-Line and 90 Degree)

25-05-1170	350 In-Line Transfer Unit (See Instruction No. 25-03-1187)
25-05-1173	350 90 Degree Transfer Unit (See Instruction No. 86-01-0257)

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1 Direct Drive Power Unit



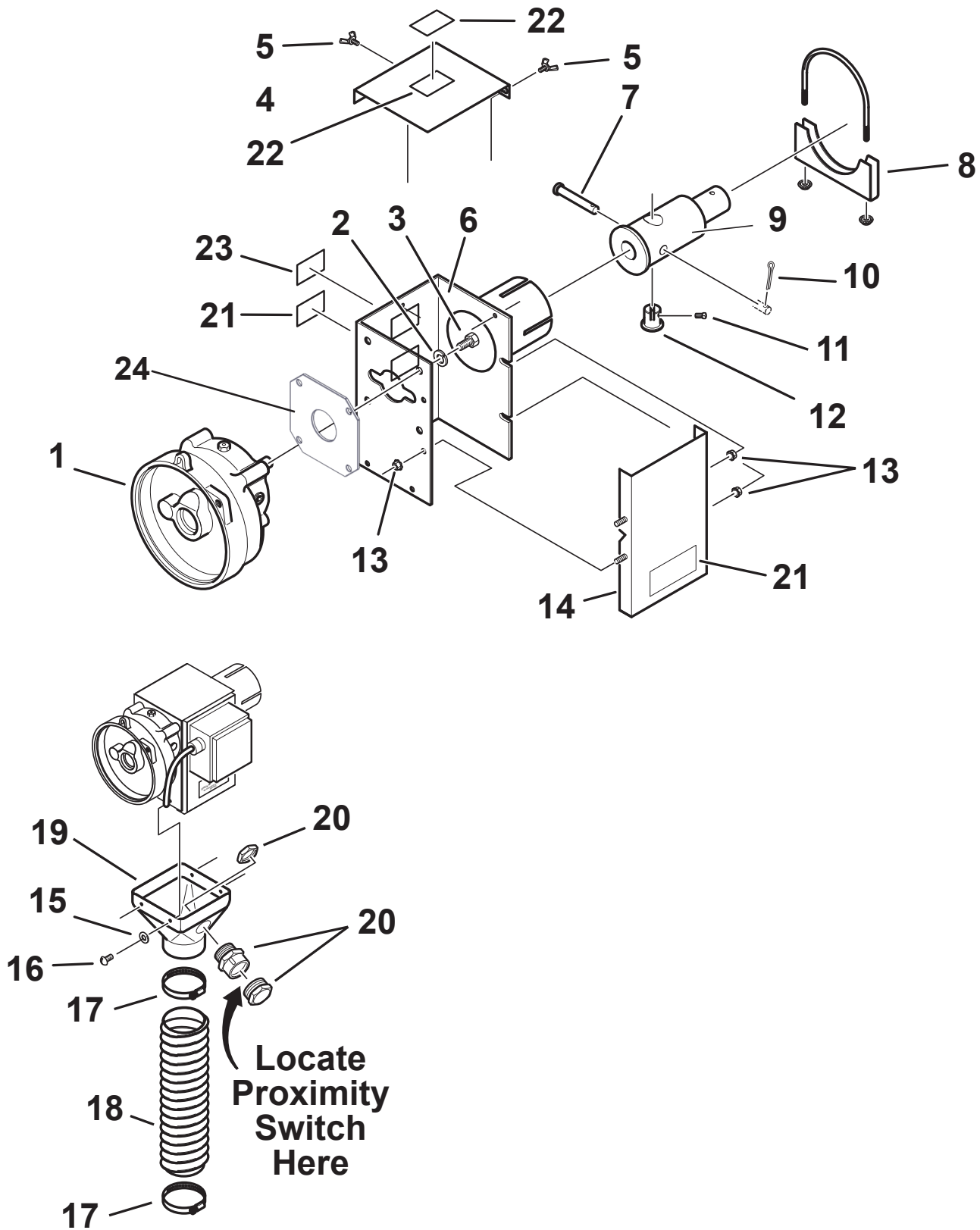
Power Unit No.	1 Motor Adapter	2 Pinion	8 Reducer
86-01-1423	N/A	10-00-9613	86-00-2661
25-05-1607	11-00-1053	11-00-9364	86-00-2661
25-05-1713	N/A	86-00-0205	86-00-2661
25-05-1715	11-00-1053	11-00-9364	86-00-2661
25-05-1721	N/A	10-00-9613	11-00-9375
25-05-1761	11-00-1053	11-00-9364	86-00-2661
25-05-1762	11-00-1053	10-00-9364	86-00-2661

Direct Drive Power Unit

Item	Part No.	Description
3	99-50-0338	Square Key, 3/16 X 3/4"
4	11-00-1028	Socket Bolt, 3/8-16 X 1"
5	99-20-0054	Lock Washer, 5/16"
6	99-10-0278	Hex Bolt, 5/16-18 X 5/8"
7	99-10-0109	Hex Bolt, 5/16-18 X 1-1/4"
9	25-04-0154	Plate, Seal, Adpt. Tube, 4.5"

Motor Chart		
Power Unit No.	Motor No.	Description
86-01-1423	86-01-1001	MTR,3/4HP,1PH,50/60HZ,56YZ FLG,115/230V,1725/1425RPM 3K996
25-05-1607	90-00-9132	MTR,3/4HP,3PH,60HZ,56C #110047 208-230/460V,1725PRM,TEFC
25-05-1713	86-01-1002	MTR,1HP,1PH,60HZ,56N FR,115/230V,1725RPM,TEFC, TP
25-05-1715	90-00-9069	MTR,3PH,1HP,60HZ,56C FRAME,208-230/460V,1725RPM,TEFC
25-05-1716	90-00-0462	MTR,1HP,3PH,60HZ,56C FR 380V,1725RPM,TEFC
25-05-1721	86-01-1001	MTR,3/4HP,1PH,50/60HZ,56YZ FLG,115/230V,1725/1425RPM
25-05-1761	86-00-0242	MTR,1HP 3PH 50HZ 220/380/440 56C FR #114896.00 5/8"D SHAFT
25-05-1762	90-00-9069	MTR,3PH,1HP,60HZ,56C FRAME,208-230/460V,1725RPM,TEFC

2 Direct Drive Power Unit (For use with Proximity Switch)

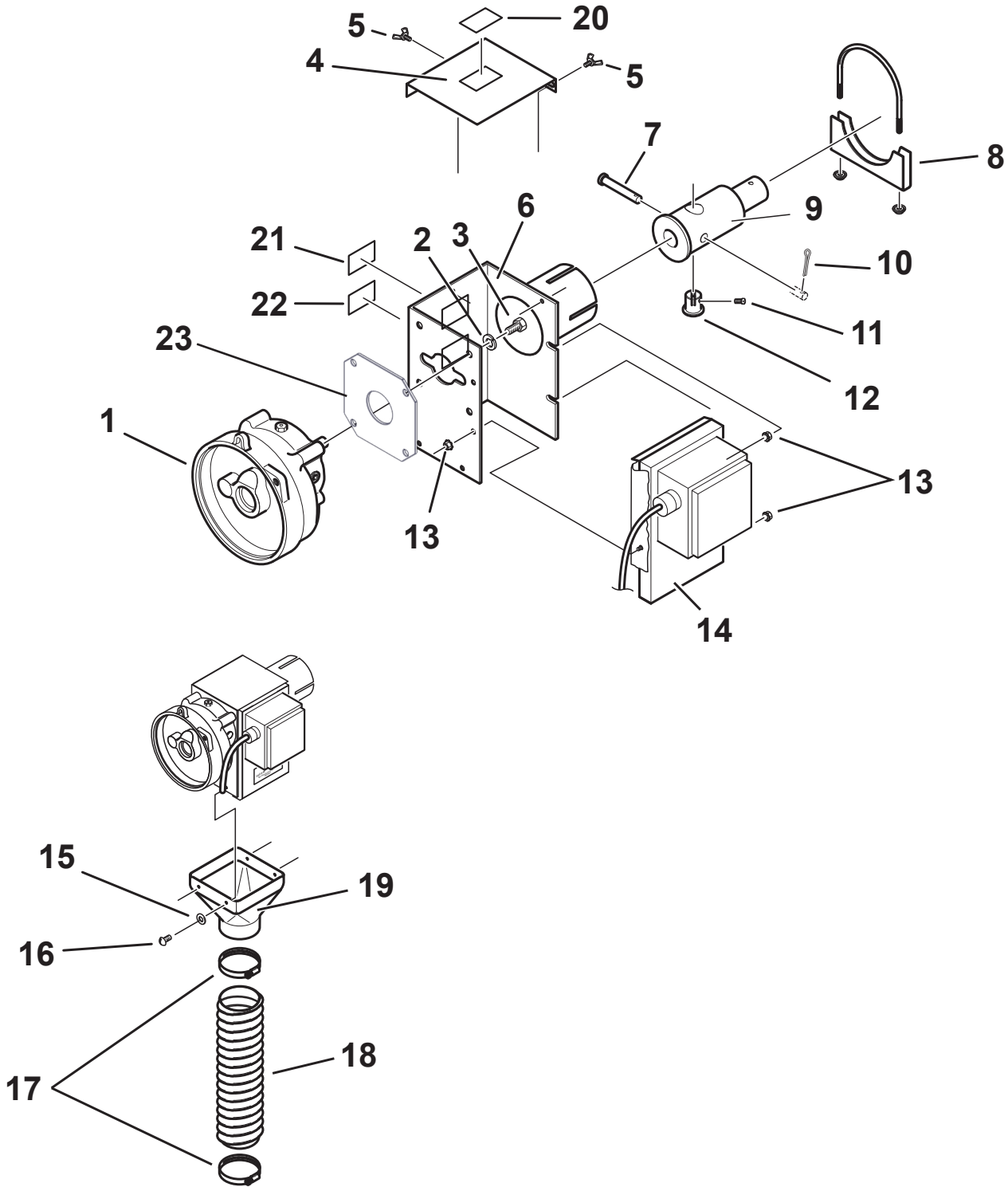


25-05-0233-02

Direct Drive Power Unit (For use with Proximity Switch)

Item	Part No.	Description
1	86-00-2661	Reducer, 358 RPM, Alum.
1	86-00-2663	REDUCER, TOLEDO, 657RPM, ALUM
1	11-00-9375	Reducer, 412 RPM, Orange
2	99-20-0054	Lock Washer, 5/16"
3	99-10-0278	Hex Bolt, 5/16-18 x 5/8"
4	25-03-1102	Safety Switch Cover
5	99-10-0110	Wing Bolt, 1/4-20 x 1/2"
6	25-05-1120	Safety Switch Body
7	86-00-2531	PIN, CLEVIS 1/4X1-5/8
8	99-50-1218	"U" Style Clamp Bracket
9	25-03-1055	Anchor Body Weldment
10	99-50-0023	Cotter Pin, 5/64" x 3/4"
11	86-00-2454	Screw, Set 5/16-18X.50 Sq Hd. /Cup Pt, Nyl. Patch, Square Head
12	25-03-1051	Anchor Spindle
13	99-20-0089	Kep Nut, #10-24
14	25-03-1185	Blank Switch Plate
15	99-20-0336	Flat Washer, 1/4"
16	99-10-0094	Machine Screw, 1/4-20 x 1/2"
17	99-50-1365	Band Clamp, 3-1/2" x 4-1/4"
18	15-00-1027	Flex Spout, 3-1/2" x 12"
19	25-05-1144	Plastic Drop Spout, 3-1/2"
20	91-00-0675	Gland, Plastic, Mounting Proximity Switch
21	00-00-0222	Decal, Warning, Elec, Eng/Spn Turn Off PwrSup
22	36-00-0111	Decal, Warn'g, Guard, Eng/Spn Do Not Rem Grd
23	00-00-0440	Decal, Big D 5.00" x 1.25"
24	25-04-0154	Plate, Seal, Adpt. Tube, 4.5"

3 Direct Drive Power Unit

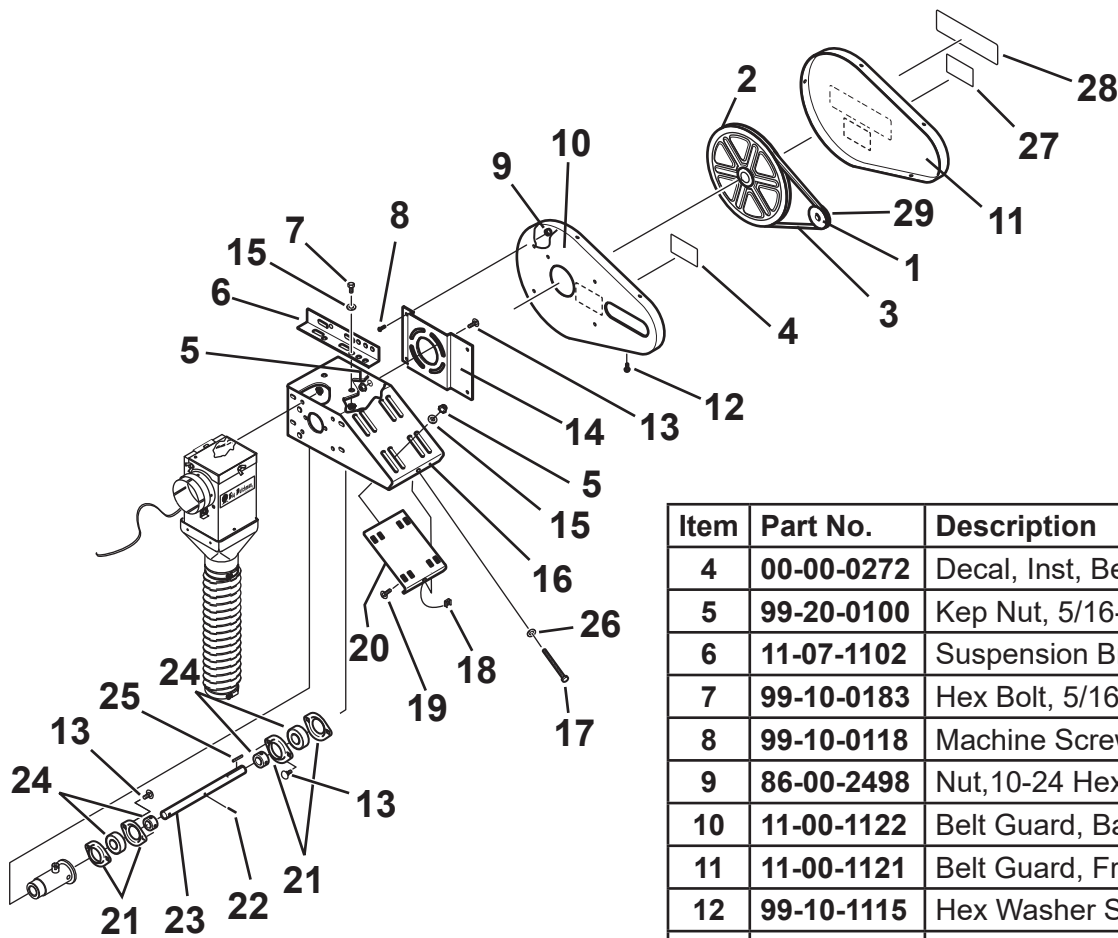


25-05-0233-03

Direct Drive Power Unit

Item	Part No.	Description
1	86-00-2661	Reducer, 358 RPM, Alum.
2	99-20-0054	Lock Washer, 5/16"
3	99-10-0278	Hex Bolt, 5/16-18 x 5/8"
4	25-03-1102	Safety Switch Cover
5	99-10-0110	Wing Bolt, 1/4-20 x 1/2"
6	25-05-1120	Safety Switch Body
7	86-00-2531	PIN,CLEVIS 1/4X1-5/8
8	99-50-1218	"U" Style Clamp Bracket
9	25-03-1055	Anchor Body Weldment
10	99-50-0023	Cotter Pin, 5/64" x 3/4"
11	86-00-2454	Screw,Set 5/16-18X.50 Sq Hd. /Cup Pt,Nyl.Patch,Square Head
12	25-03-1051	Anchor Spindle
13	99-20-0089	Kep Nut, #10-24
14	86-01-5486	SWITCH,SHUT-OFF V20,300/350,W/86003893 PADDLE & 86003891 SWI
15	99-20-0336	Flat Washer, 1/4"
16	99-10-0094	Machine Screw, 1/4-20 x 1/2"
17	99-50-1365	Band Clamp. 3-1/2" x 12"
18	15-00-1027	Flex Spout, 3-1/2" x 12"
19	25-05-1123	Plastic Drop Spout, 3-1/2"
20	36-00-0111	Decal, Warn'g Eng/Spn Do Not Rem Grd
21	00-00-0440	Decal, Big D 5.00" x 1.25"
22	00-00-0222	Decal, Caution Eng/Spn This Unit/Start Auto
23	25-04-0154	Plate, Seal, Adpt. Tube, 4.5"

4 Belt Drive Power Unit



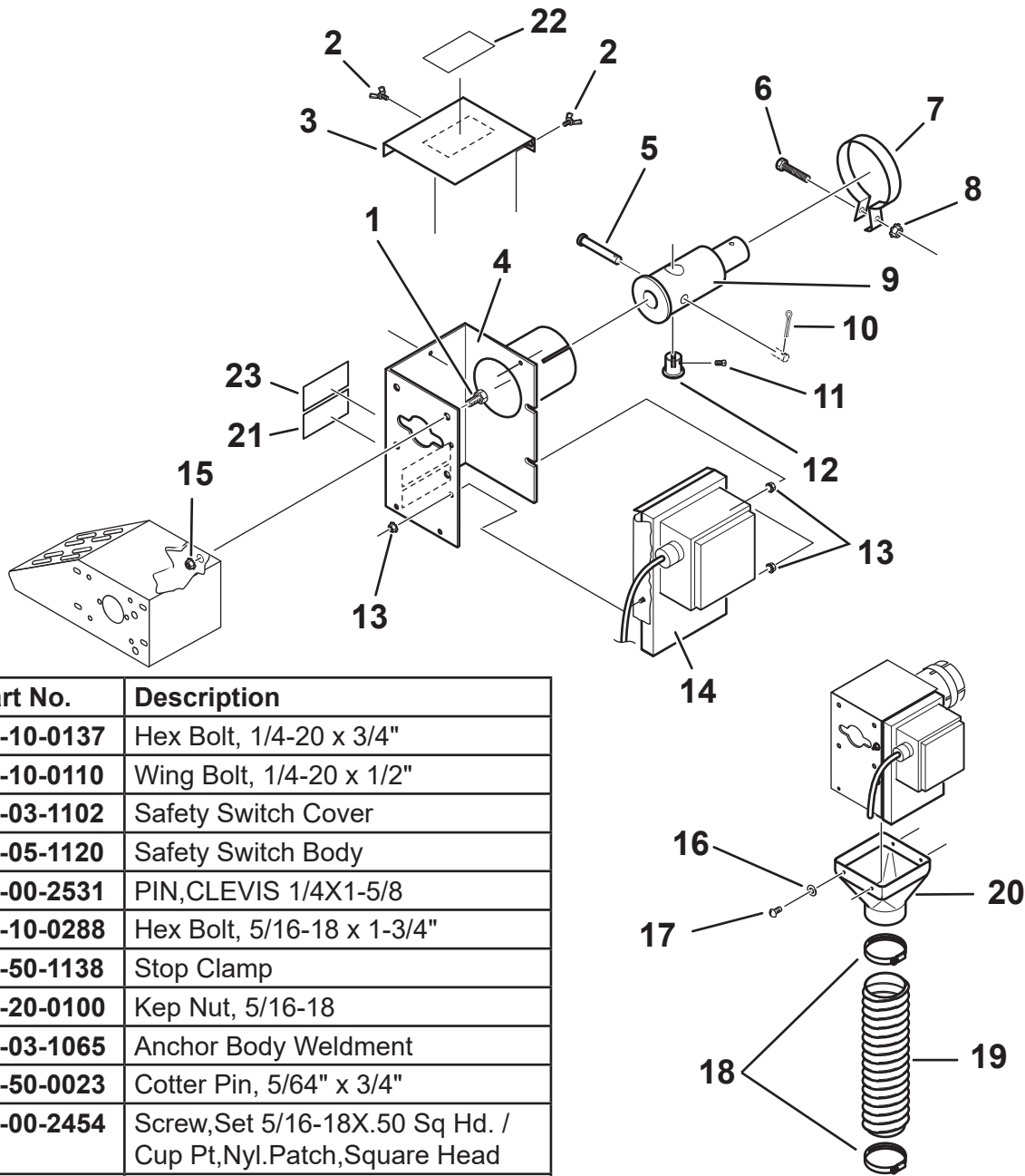
25-05-0233-04

Type	1 Motor Sheave
Standard/ Domestic	86-00-0212 .625" [16 mm] Bore x 2.5" [64 mm] .D.

Model	2 Sheave	3 V-Belt
25-05-1211 8" Pulley [203mm]	86-00-2527 3/4" ID x 8" [203 mm]	99-50-0097 4L-380, 38"
86-00-0210 12" Pulley [305 mm]	99-50-0981 3/4" ID. x 12" [305mm]	99-54-0047 4L-450 45"

Item	Part No.	Description
4	00-00-0272	Decal, Inst, Belt Tighten
5	99-20-0100	Keq Nut, 5/16-18
6	11-07-1102	Suspension Bracket
7	99-10-0183	Hex Bolt, 5/16-18 x 3/4"
8	99-10-0118	Machine Screw, #10-24 x 3/8"
9	86-00-2498	Nut, 10-24 Hex Lock, Nylock
10	11-00-1122	Belt Guard, Back
11	11-00-1121	Belt Guard, Front
12	99-10-1115	Hex Washer Screw, #10 x 1/2"
13	99-10-0449	Carriage Bolt, 5/16-18 x 1"
14	25-03-0147	Belt Guard Support Plate
15	99-21-0003	Flat Washer, 1/4" x 3/16"
16	25-03-0142	Motor Mount
17	99-10-0874	Hex Cap Bolt, 3/8-16 x 2-1/2"
18	99-20-0404	Retaining Nut, 3/8-16
19	99-10-0154	Carriage Bolt, 5/16-18 x 1"
20	25-03-0146	Motor Mount Slide Plate
21	99-50-0667	Bearing Flangette, 3/4"
22	99-50-0174	Roll Pin, 1/8" x 1"
23	25-03-1104	Drive Shaft
24	99-50-0980	Bearing & Collar, 3/4"
25	99-50-0020	Sq, Key, 3/16" x 1-1/4"
26	99-20-0111	Washer, 5/16 Trade, Flat
27	36-00-0111	Decal, Warning, ENG/SPN Do not remove guards while machine is operating
28	00-00-0442	Decal, Big D 5.00" x 1.25"
29	99-10-0582	SCREW, SET 5/16-18X.25 ALEN / CUP KNURLED PT W/PATCH

5 Belt Drive Power Unit

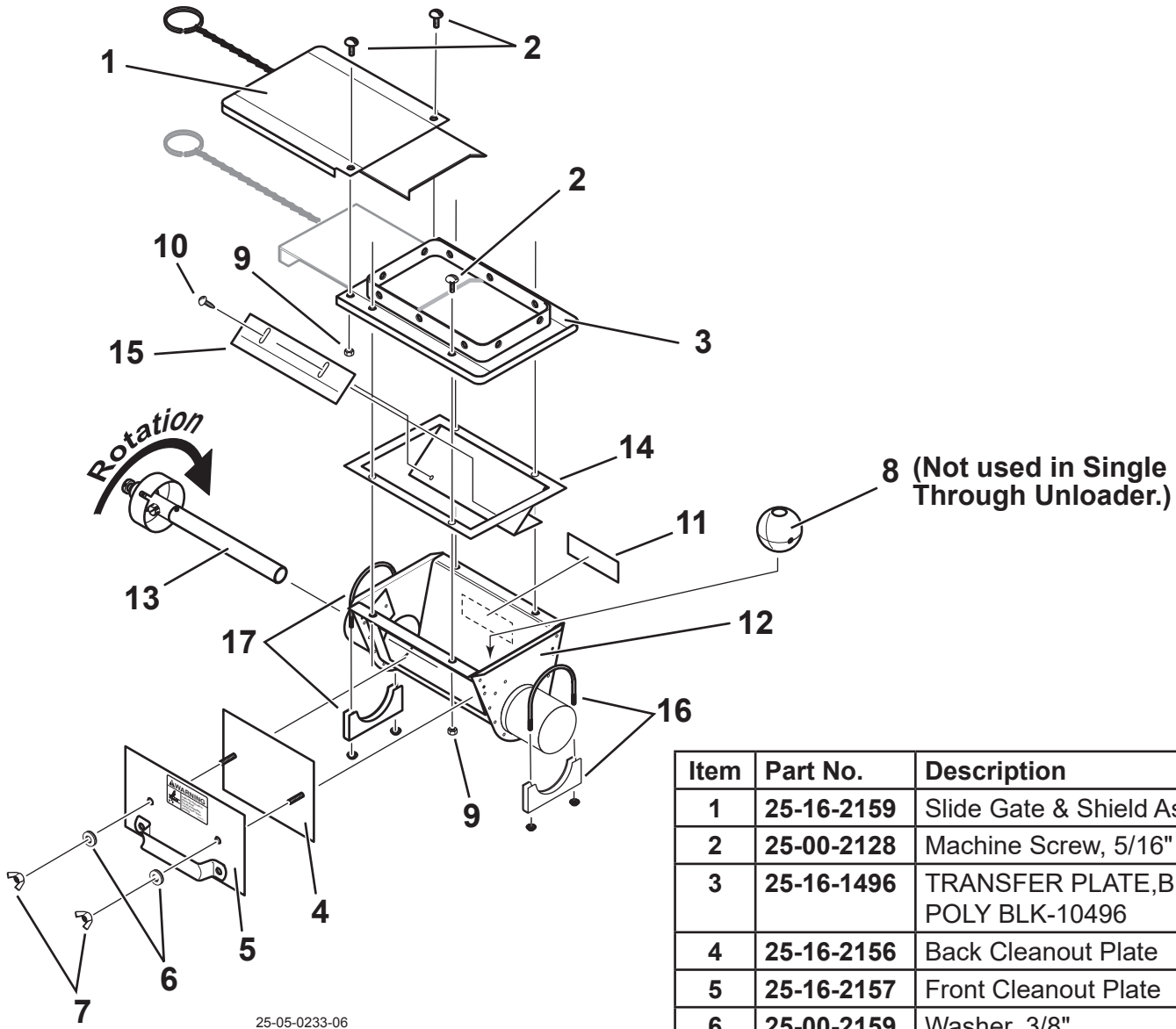


Item	Part No.	Description
1	99-10-0137	Hex Bolt, 1/4-20 x 3/4"
2	99-10-0110	Wing Bolt, 1/4-20 x 1/2"
3	25-03-1102	Safety Switch Cover
4	25-05-1120	Safety Switch Body
5	86-00-2531	PIN,CLEVIS 1/4X1-5/8
6	99-10-0288	Hex Bolt, 5/16-18 x 1-3/4"
7	99-50-1138	Stop Clamp
8	99-20-0100	Kep Nut, 5/16-18
9	25-03-1065	Anchor Body Weldment
10	99-50-0023	Cotter Pin, 5/64" x 3/4"
11	86-00-2454	Screw,Set 5/16-18X.50 Sq Hd. / Cup Pt,Nyl.Patch,Square Head
12	25-03-1051	Anchor Spindle
13	99-20-0089	Kep Nut, #10-24
14	86-01-5486	SWITCH,SHUT-OFF V20,300/350,W/86003893 PADDLE & 86003891 SWI
15	99-20-0047	Kep Nut, 1/4-20
16	99-20-0336	Flat Washer, 1/4"
17	99-10-0094	Machine Screw, 1/4-20 x 1/2"
18	99-50-1365	Band Clamp, 3-1/2" x 4-1/4"
19	15-00-1027	Flex Spout, 3-1/2" x 12"
20	25-05-1123	Plastic Drop Spout, 3-1/2"

Item	Part No.	Description
21	00-00-0222	Decal, Caution, Eng/Span
22	00-00-0229	Decal. Warning Elec., Eng/ Span
23	00-00-0440	Decal, Big D., 5.0" x 1.25"

25-05-0233-05

6 Unloader Assembly (single)

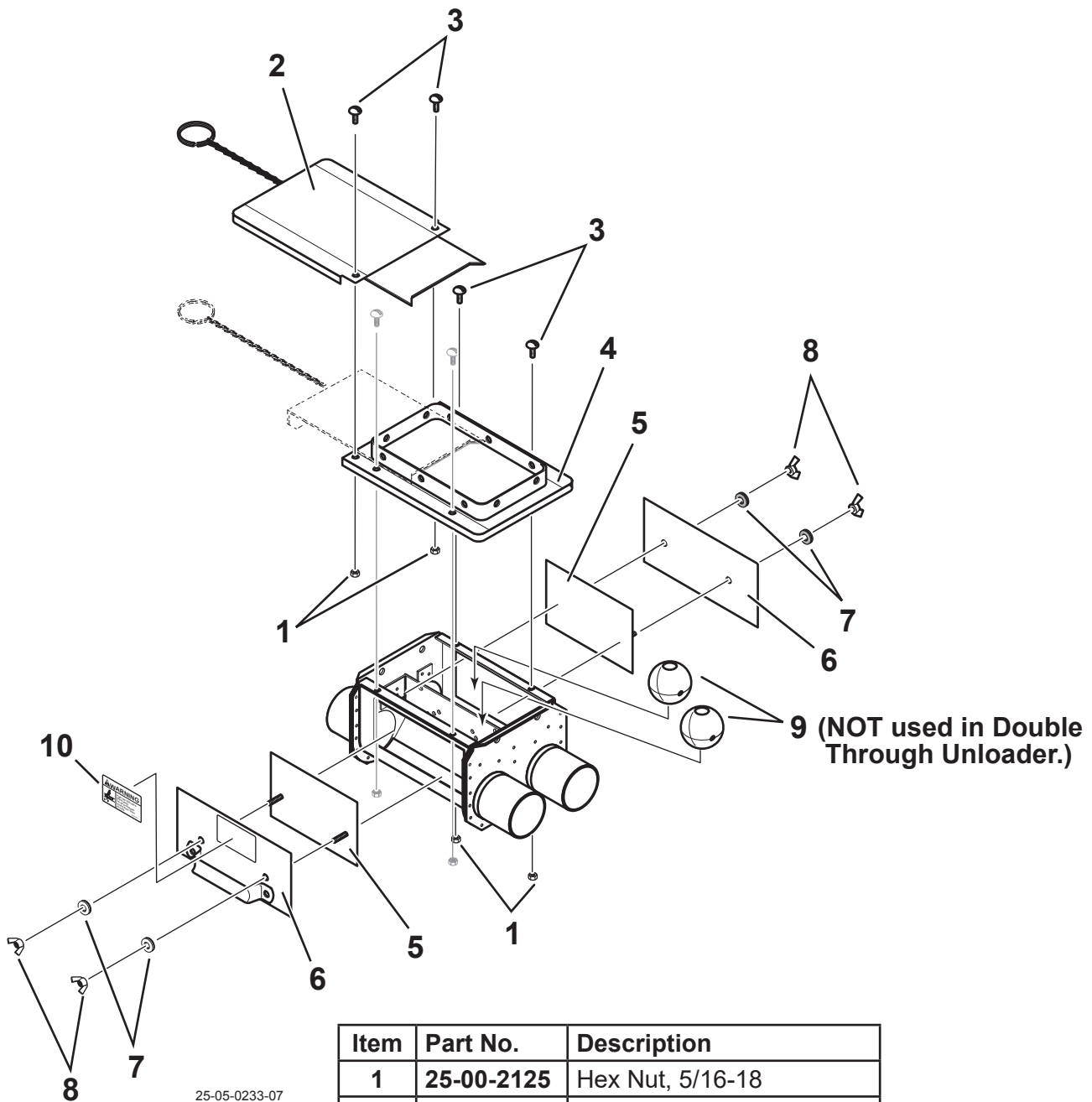


25-05-0233-06

Item	Part No.	Description
1	25-16-2159	Slide Gate & Shield Assy
2	25-00-2128	Machine Screw, 5/16" x 1"
3	25-16-1496	TRANSFER PLATE, BLK POLY BLK-10496
4	25-16-2156	Back Cleanout Plate
5	25-16-2157	Front Cleanout Plate
6	25-00-2159	Washer, 3/8"
7	99-20-0041	Wing Nut, 5/16-18
8	25-16-1003	Cast Iron Agitator Ball
9	25-00-2125	Hex Nut, 5/16-18
10	99-10-0536	Pan Head Screw, 8-32 x 1/2"
11	00-00-0440	Decal, Big D, 5.00" x 1.25"

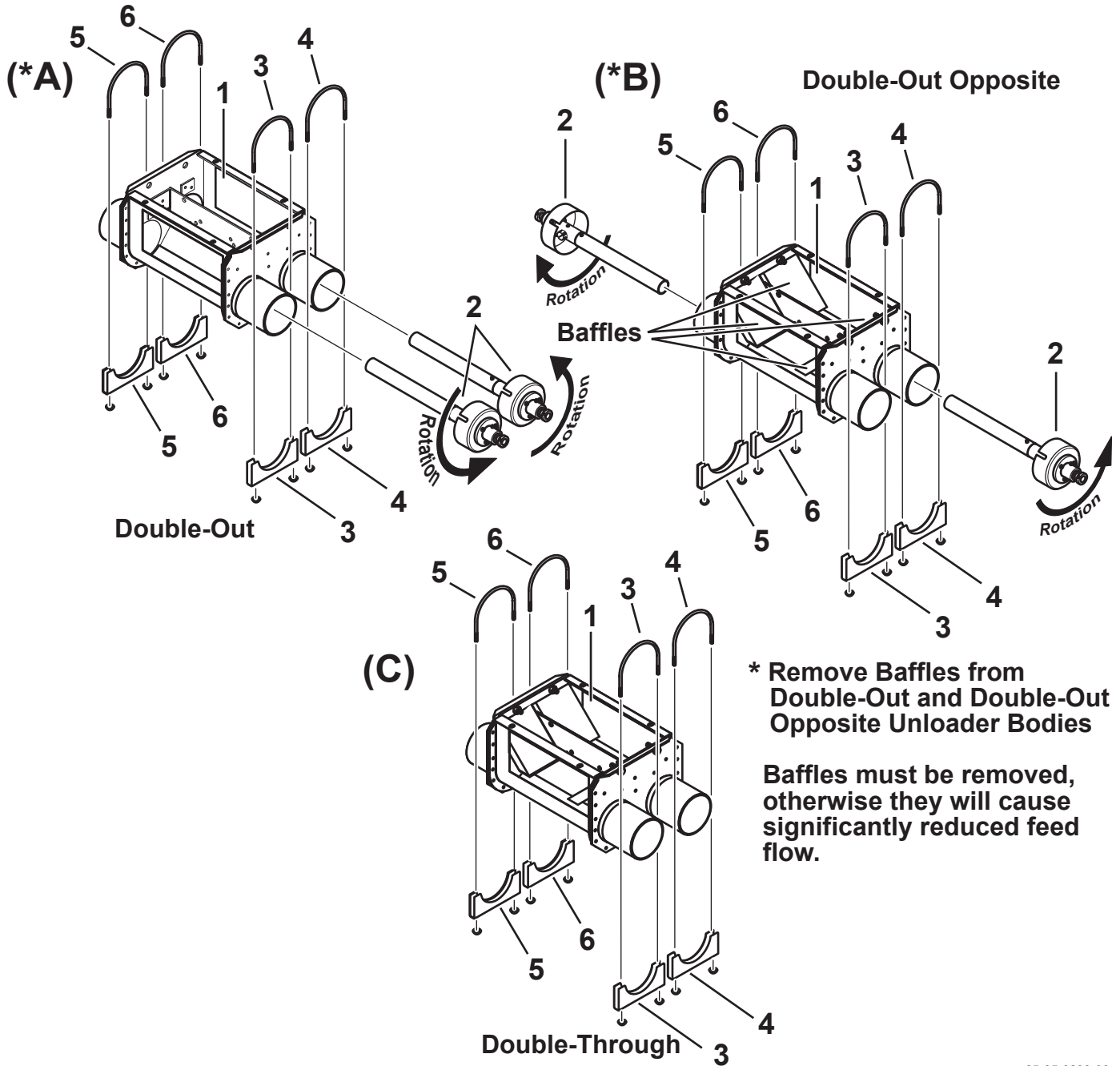
Unloader Kit	12 Unloader Body	13 3-1/2" Anchor Assy	14 Baffle Body	15 Baffle Slide Plate	16 Tube Clamp Assy	17 Tube Clamp Assy
25-16-1200 350 Single Out	25-16-2053	25-16-1202	---	---	25-00-2155 (4")	25-00-2533 (3-1/2")
86-00-0095 350 Single Through	25-16-2053	---	25-16-0998	25-16-0997	25-00-2155 (4")	25-00-2155 (4")

7 Unloader Assembly (double)



Item	Part No.	Description
1	25-00-2125	Hex Nut, 5/16-18
2	25-16-2159	Slide Gate & Shield Assy
3	25-00-2128	Machine Screw, 5/16 x 1"
4	25-16-1496	TRANSFER PLATE, BLK POLY BLK-10496
5	25-16-2156	Back Cleanout Plate
6	25-16-2157	Front Cleanout Plate
7	25-00-2159	Washer, 3/8"
8	99-20-0041	Wing Nut, 5/16-18
9	25-16-1003	Cast Iron Agitator Ball
10	00-00-0222	Decal, Caution, Eng/Span

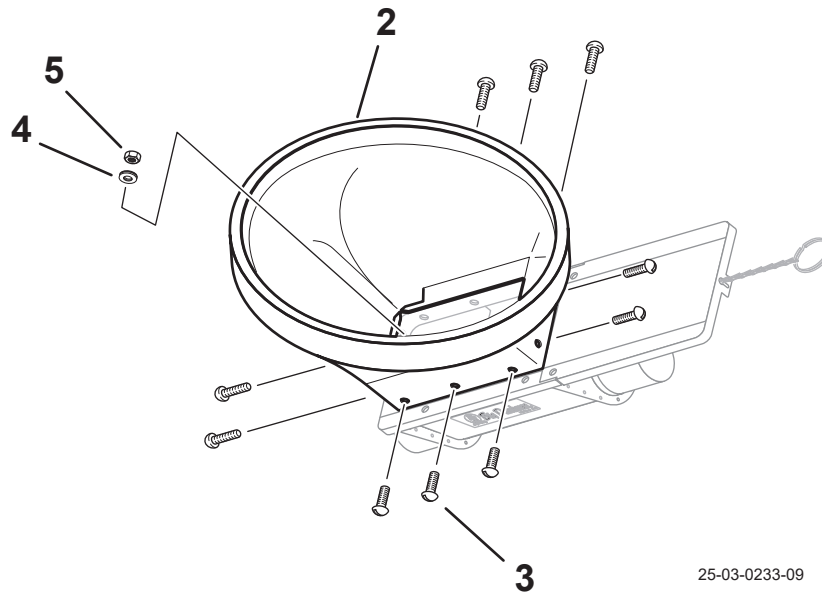
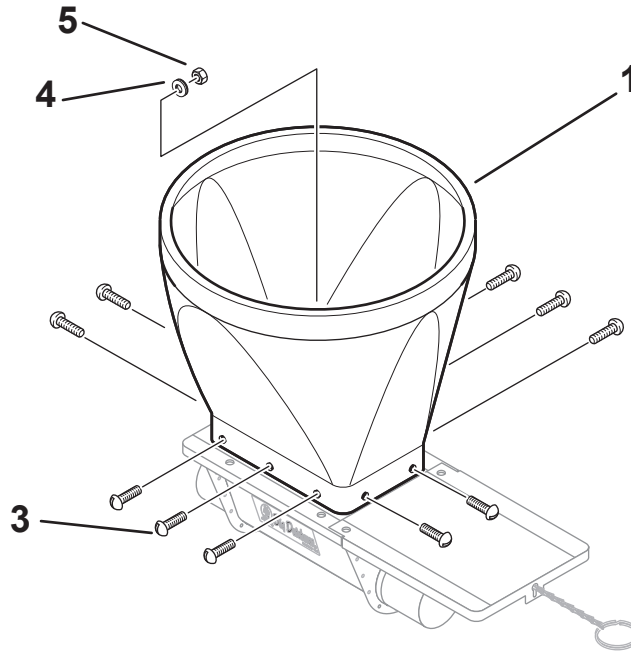
7 Unloader Assembly (double continued)



25-05-0233-08

Unloader Kit	1 Unloader Body	2 Arbor Assy w/Zerk	3 Tube Clamp Assy	4 Tube Clamp Assy	5 Tube Clamp Assy	6 Tube Clamp Assy
(A) 25-16-1225 Dbl. Out	25-16-1226	25-16-1202	25-00-2533 (3-12")	25-00-2533 (3-1/2")	25-00-2155 (4")	25-00-2155 (4")
(*B) 25-16-1235 Dbl. Out, Opp.	86-00-0096	25-16-1202	25-00-2155 (4")	25-00-2533 (3-12")	25-00-2533 (3-1/2")	25-00-2155 (4")
(C) 25-16-1226 Dbl. Through	86-00-0096	N/A	25-00-2155 (4")	25-00-2155 (4")	25-00-2155 (4")	25-00-2155 (4")

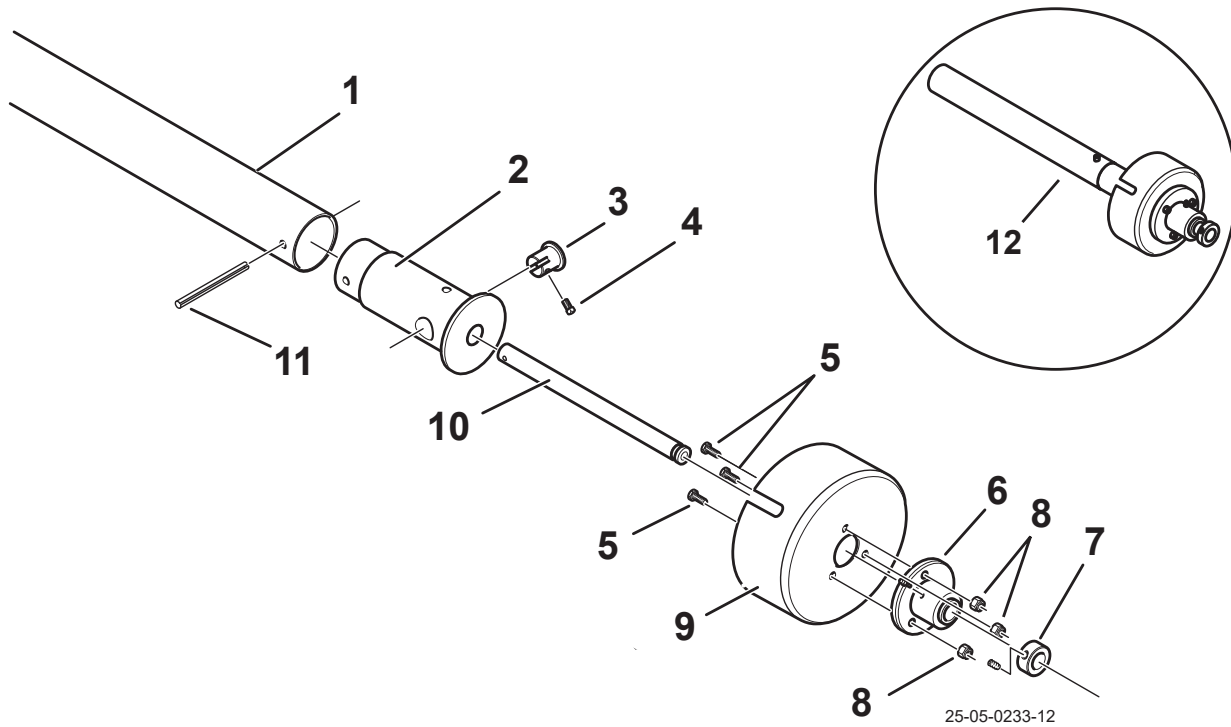
8 Unloader Boots, 16in. [406mm]



25-03-0233-09

Item	Qty	Part No.	Description
1	1	86-00-6853	Plastic Boot, Straight, (For 16" [406mm] Opening Bin)
2	1	86-00-6852	Plastic Boot, 30 Degree, (For 16" [406mm] Opening Bin)
Part No. 25-16-2196 Consists of:			
3	18	25-00-2129	NUT, 5/16" NYLON (.3125)
4	18	25-00-2130	Nylon Washer, 5/16"
5	18	25-00-2128	Machine Screw, 5/16" x 1"

11 Arbor Assemblies



Item	Part No.	Description
1	25-03-1381	Tube Restrictor
2	25-03-1055	Anchor Body Weldment
3	25-03-1051	Anchor Spindle
4	86-00-2454	Screw, Set 5/16-18X.50 Sq Hd. /Cup Pt, Nyl. Patch, Square Head
5	99-10-0142	Hex Bolt, 1/4-20 x 5/8"
6	25-16-1107	Bronze Bearing Assy w/Zerk
7	99-50-0374	Set Collar, 5/8"
8	99-20-0134	Hex Nut, 1/4-20 Nylock
9	25-16-2068	Bearing Cap
10	25-16-1113	Anchor Shaft
11	99-50-0231	Roll Pin, 3/16" x 1-3/4"

Item	Part No.	Description
12	25-16-1202	Arbor Assm., 3-1/2" w/zerk, Bronze Bushing Style

12 Wiring Diagram-Auger Fill (25-03-0138)

1 PH 115/230V, Typical

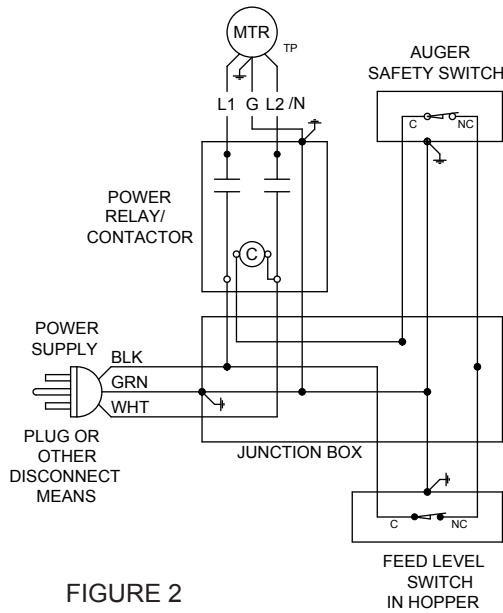


FIGURE 2
POWER RELAY OR
CONTACTOR OPTION

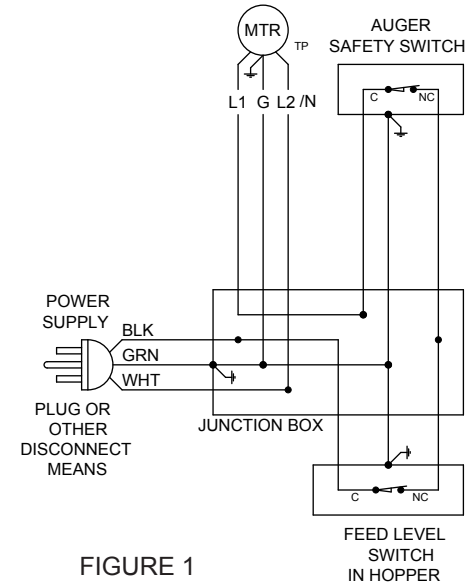


FIGURE 1
STANDARD

NOTES:
TP - THERMAL OVERLOAD PROTECTED MOTOR
INSTALL PER NATIONAL AND LOCAL ELECTRICAL CODES

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Big Dutchman, Inc. Limited Warranty

Big Dutchman, Inc. (“**Big Dutchman**”) warrants to original purchaser (“**Buyer**”) that goods manufactured solely by Big Dutchman (“**Products**”) will be free from defects in material or workmanship under normal and intended use and service for a period of one year from delivery date of the Products except that the Products shall not be defective to the extent that (i) they conform with drawings of or specifications for or a sample of goods that have been approved by Buyer; (ii) they conform with goods, testing results, dimensional layouts or manufacturing methods that have been submitted and approved by Buyer; (iii) they are damaged due to the method or length of storage by Buyer; or (iv) to the extent they conform to the specifications as changed or waived if Buyer’s representative agrees, either orally or in writing, to the change in or waiver of the specifications for any Product.

In the event of a defect in any Products constituting a breach of the warranty provided herein, Big Dutchman will at its option either (i) repair or replace such Product free of charge, or (ii) in lieu of repair or replacement, refund to Buyer the original purchase price less the reasonable value of Buyer’s use of the Products. Big Dutchman shall furnish to Buyer instructions for the disposition of the defective goods. Big Dutchman shall have the option of requiring the return of the defective goods, transportation prepaid, and proof that the goods were not used, installed or altered or subject to misuse or abuse to establish the claim. No goods shall be returned to Big Dutchman without its prior consent. The acceptance of any goods returned to Big Dutchman shall not be deemed an admission that the goods are defective or in breach of any warranty, and if Big Dutchman determines that the goods are not defective they may be returned to Buyer at Buyer’s expense. This warranty sets forth Buyer’s sole and exclusive remedies for any defect in the goods. The rights and obligation under this warranty may not be assigned or delegated to a third party by Buyer without the prior written permission of Big Dutchman. Neither Buyer nor any other person may modify or expand the warranty provided herein, waive any of the limitations, or make any different or additional warranties with respect to the Products. Any statements to the contrary are hereby rendered null and void unless expressly agreed to in writing by an authorized officer of Big Dutchman.

EXCEPT AS STATED IN ABOVE, BIG DUTCHMAN DOES NOT MAKE ANY WARRANTY AS TO THE GOODS OR SERVICES AND, IN PARTICULAR, DOES NOT MAKE ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, AND BUYER IS SOLELY RESPONSIBLE FOR DETERMINING THE PROPER APPLICATION AND USE OF THE GOODS.

Big Dutchman makes no representation or warranty that individual animals, or any given population of animals, will utilize any of Big Dutchman’s goods in the manner for which the goods were intended or designated. Any component parts that are not manufactured by Big Dutchman, such as electrical motors and controls, are excluded from any warrant by Big Dutchman, although such parts may be covered by separate warranties of the respective manufacturers. This warranty set forth above does not apply if all components of a system are not supplied by Big Dutchman or if the goods are not purchased from and installed by an authorized distributor or company warehouse, or installed and operated in accordance with Big Dutchman’s specifications and instructions.

BIG DUTCHMAN SHALL NOT HAVE ANY TORT LIABILITY TO BUYER OR ANY OTHER PERSON WITH RESPECT TO ANY OF THE GOODS OR SERVICES AND SHALL NOT BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL, EXEMPLARY, INDIRECT OR PUNITIVE DAMAGES ARISING FROM ANY PRODUCT DEFECT, DELAY, NONDELIVERY, RECALL OR OTHER BREACH. BUYER SHALL NOT HAVE ANY RIGHT OF REJECTION OR OF REVOCATION OF ACCEPTANCE OF THE GOODS.



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