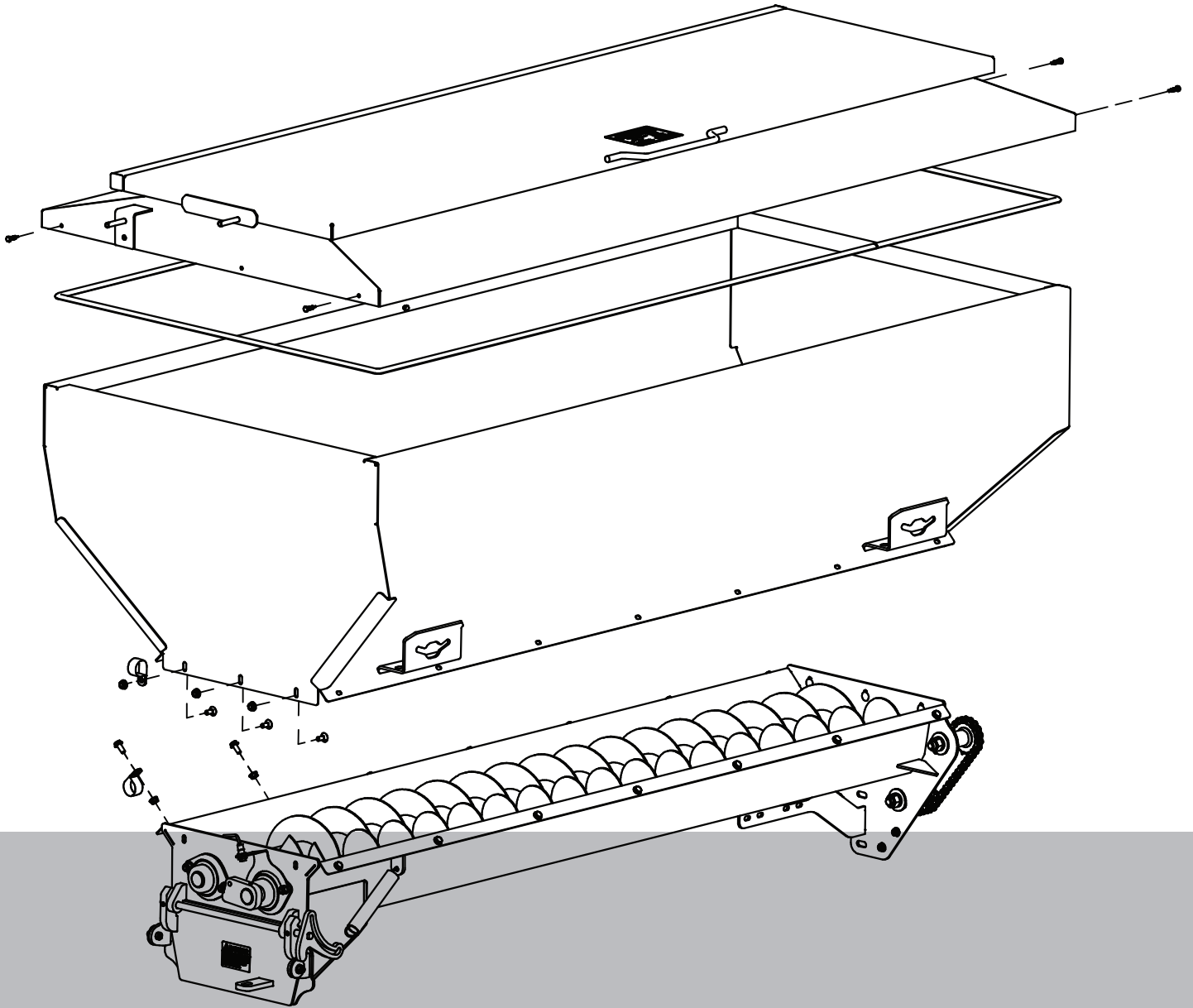


BEEFCAKE



OPERATOR'S & PARTS MANUAL

Thank you for purchasing a Harper Beefcake.

TO THE OWNER OR OPERATOR:

As with all Harper products, the Harper Beefcake has been developed through tough design and testing procedures to produce a machine that can be relied on. This manual gives assembly, operating, and service information for models **BC1000, BC1500, and BC2000**. Please read and understand all instructional material included with the Beefcake and its components before assembling and operating the equipment.

A Beefcake cake feeder can present hazards to an operator who follows unsafe procedures in either the operation or maintenance of the unit. Therefore, **SAFETY WARNINGS** are presented at certain locations in the text.

SYMBOL:



SAFETY WARNING!



MEANING: Failure to understand and obey this warning may result in injury to you or others. Whenever this symbol is used, please pay very close attention to the information presented, and make sure you fully understand. If you do not, contact your dealer or Harper Industries for clarification.



SAFETY WARNING!



All shields and guards must be in place for proper and safe operation of this equipment. Where they are shown removed in this manual, it is for purposes of illustration and instruction only. Do not operate this equipment unless all shields and guards are in place.

Harper Industries, Inc. is continually striving to improve the design and performance of its products. We reserve the right to make changes in specifications and design without thereby incurring any obligation relative to previously manufactured products.

© 2023 Harper Industries, Inc.

The Harper and Beefcake names are registered trademarks of Harper Industries, Inc. All other brand and product names are trademarks or registered trademarks of their respective companies.

LIMITED WARRANTY

Harper Industries, Inc. (HII) warrants to each purchaser of a new Harper Beefcake from an authorized dealer or representative, that such equipment is free of manufacturer's defects in workmanship and materials which appear while in normal service for a period of ONE YEAR commencing with delivery to the original user.

The obligation of HII under this warranty is expressly limited, at our option, to replacement or repair at a service facility designated by Harper Industries or at the manufacturing plant in Harper, KS. A part will be replaced after inspection discloses it to have been defective. This warranty does not apply to defects caused by damage or unreasonable use (including failure to provide reasonable and necessary maintenance, or by performing functions without genuine Harper Beefcake accessories) while in the possession of the consumer.

Warranty is limited to parts, labor and ground freight delivery of replacement parts. HII shall not be liable for the consequential damages of any kind, including but not limited to consequential labor costs or transportation charges in connection with replacement or repair of defective parts.

This warranty does not apply to parts subjected to misuse, abuse, alteration, improper or inadequate maintenance, or normal wear (including chains, augers).

Harper Industries makes no warranty with respect to trade accessories. They are subject to the warranties of their respective manufacturers.

ANY IMPLIED OR STATUTORY WARRANTIES, INCLUDING ANY WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. HII makes no other express warranty, nor is anyone authorized to make any on behalf of HII.

For further information please contact your nearest Harper Beefcake dealer.

Date of Purchase _____/_____/_____

Dealer's Name _____

Dealer's Phone _____

Serial Number _____

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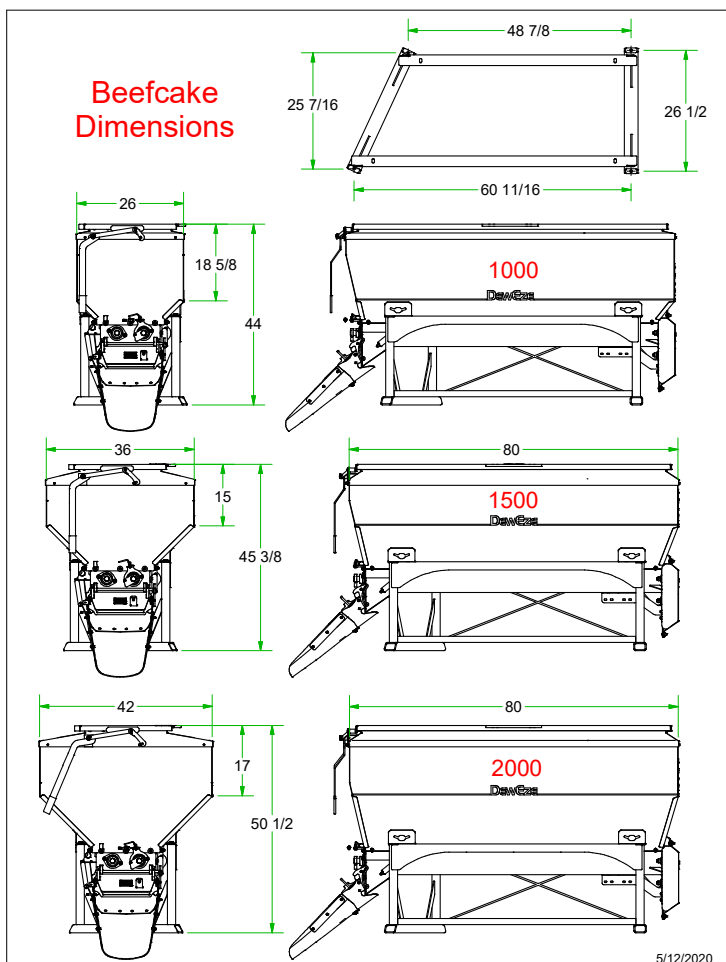
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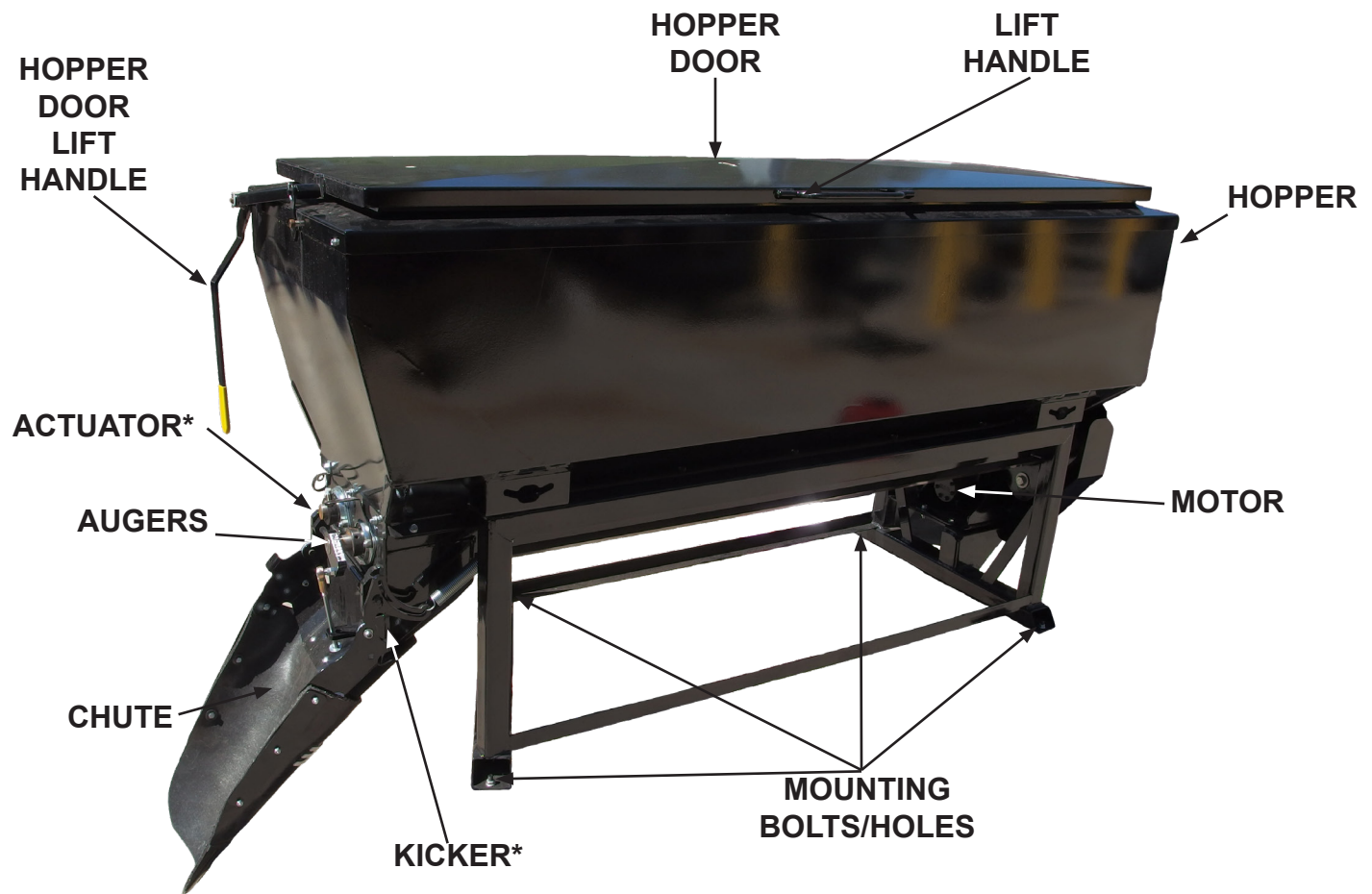
Specifications

Power	Hydraulic Electric Motor - Leeson 3/4 hp
Capacity	BC1000 - 26 cu. ft. - about 1000 lbs. w/ 3/4" range cubes BC1500 - 34 cu. ft. - about 1500 lbs. w/ " " " BC2000 - 46 cu. ft. - about 2000 lbs. w/ " " "
Dimensions	BC1000 - Length: 80 in Width: 26 in Height: 44 in BC1500 - Length: 80 in Width: 36 in Height: 45.3 in BC2000 - Length: 80 in Width: 42 in Height: 50.3 in
Paint	Durable 2-part Polyurethane
Augers	Two 6 inch diameter augers Left - 76 3/4 in long Right - 78 in long
Options	- Electronic Actuator for chute - Kicker for chute door

NOTE: Following publication of this manual, certain changes in standard equipment and options may have occurred which would not be included in these pages. Your Harper dealer is the best source for up-to-date information.



Feature Identification



Hopper Door Lift Handle - used to open the hopper from the ground.

Actuator* - raises and lowers the chute.

Augers - when rotating, push the feed out of the hopper and down chute.

Chute - made of rubber and can be raised for transport or lowered for distribution of feed.

Kicker* - when attached it allows the door for the feed to be held in an open position.

Mounting Holes/Bolts - for mounting the Beefcake to the flatbed.

Motor - is a Leeson 3/4 hp used to power the dual augers.

Hopper - has three options of capacity: 1000, 1500, or 2000 lb limits based on choice of BC.

Hopper Door - has a weather proof strip on the inside edge of door to keep moisture out.

Lift Handle - used to open hopper when on the bale bed.

* denotes optional attachments of the **Beefcake**.

General Safety Guidelines

Equipment & Controls

- Before operating this equipment, read and understand the Operator's Manual.
- Altering the unit in any way that adversely affects its safe operation, performance or durability will void the warranty and may cause hazardous conditions.
- Know the location and function of all controls and how to stop the equipment quickly in an emergency before you operate the unit.
- Keep all bolts, screws and fittings tight to ensure safe operation of equipment.

Guards & Shields

- Keep all safety devices in place and in good operating condition.
- Replace all worn, damaged, unusable, missing or lost safety shields and guards before operating unit.

Replacement Parts

- Use genuine factory parts or parts with equivalent characteristics including: type, strength and material.
- Replace locknuts and locking screws if they cannot be tightened without considerable resistance for several turns before they are completely tight.
- If hardware is not secure, or if fasteners are over-tightened, equipment failure may result posing possible safety hazards.
- Use proper torque specifications for all fasteners when they are replaced.



SAFETY WARNING!

Failure to use genuine factory parts may result in voiding of the warranty, product malfunction or possible injury.

Safety Decals

- If safety related or instructional decals become illegible or are removed, replace them immediately.
- If parts are replaced, make sure all safety related or instructional decals are present before the equipment is operated again.
- New decals may be obtained from your local Harper Dealer.

Hydraulics

To prevent serious injury or death:

- Relieve pressure on system before repairing, adjusting or disconnecting any hydraulic hose or fitting.
- Wear proper hand and eye protection when searching for leaks.
- Use wood or cardboard instead of hands when looking for leaks.
- Keep all hoses, fittings and components in good operating condition.
- Do not use any type of heat or flame (welding, soldering, cutting torch, etc.) near pressurized hydraulic lines.



SAFETY WARNING!

HIGH-PRESSURE FLUID HAZARD!

Escaping fluid under pressure can penetrate skin causing serious injury or death.

Installation

You can use select Deweze Balebeds to lift your new **Beefcake** on to the bed or one of many other options as long as safety, precaution and common sense are used.



SAFETY WARNING!

Keep any objects or body extremities from beneath the Beefcake when loading and do not stand under the feeder when it is raised.

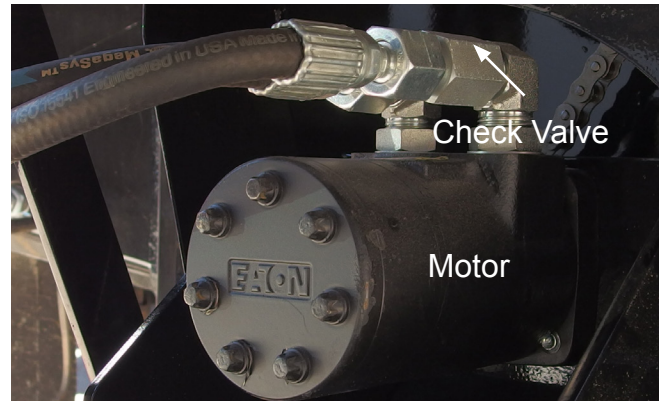
Next, position the Beefcake into place so that you can mark on the flatbed floor the location of the mounting holes for attaching the **Beefcake**. Align the mounting holes with stringers of the flatbed, and mark the (4) mounting holes for drilling, rotate the Beefcake to the back of your flatbed, and drill the (4) mounting holes.



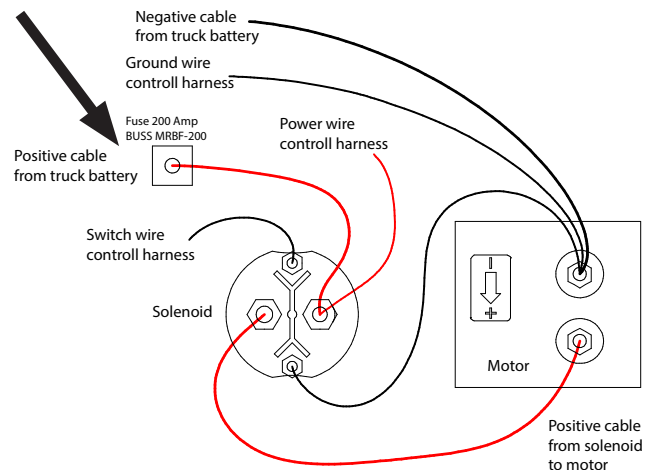
Put the Beefcake back in place where you marked and drilled the mounting holes. Attach with either the (4) mounting bolts included in your purchase or your own preferred size of mounting bolt that can fit into the predrilled mounting points on the Beefcake.

The final step depends on whether you have purchased the hydraulic or electric motor version of the Beefcake.

For the hydraulic, connect the hydraulic hoses that are attached to the Beefcake to your bed's hydraulic hookups located on the right side of the headache rack. There is a check valve pre-installed on your Beefcake. If by chance the augers do not run when activated, switch the hoses on the bed location. This will allow it to run correctly. There is also an electrical harness that will need positive and negative leads run from the feeder to the battery under the hood of the truck.

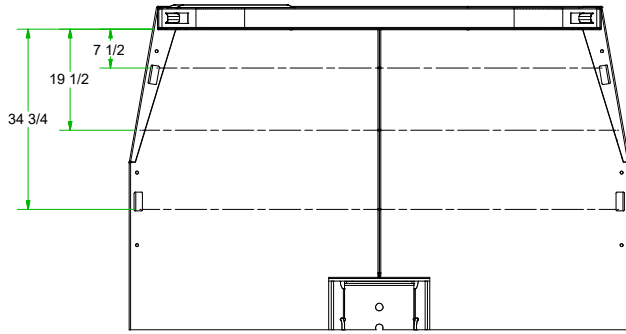


For the electric, attach the positive cable to the solenoid as depicted below, and run it to the positive end of the battery on the truck, and be sure to put the 200 Amp fuse on with the cable (this will protect the motor).

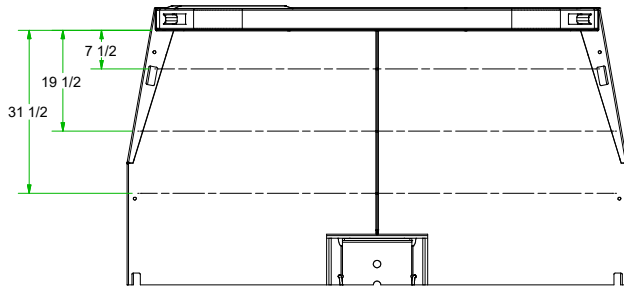


Also, If you prefer to operate either of the version (hydraulic or electric) from inside your truck, run the Beefcake controller to the inside of your truck.

DewEze Flatbed Stringer Locations



684 & 784



676 & 776
688 & 788

Operating Instructions

Before Operating

- Inspect inside the hopper and around the chain drive for the augers for any foreign objects. If any are found remove it/them.
- Be sure to check that all shields are in place and that all bolts or fasteners are tightened.

Transporting

- When transporting the Beefcake, be sure that the hopper lid's lift handle has the safety latch in place so that the lid does not rise during transport due to wind.



Operating Hydraulic Powered Beefcake

- Fill Beefcake with desired amount of feed or grain product.
- Lower the rubber chute to feeding position.
- Activate the hydraulic motor with the balebed's remote.

Due to the check valve on this product, if it becomes clogged or stalls, it cannot be reversed to dislodge it. You must stop the feeder, shut off the units power, and disconnect the hydraulic hoses to relieve any pressure on the system before seeing to the problem.



SAFETY WARNING!

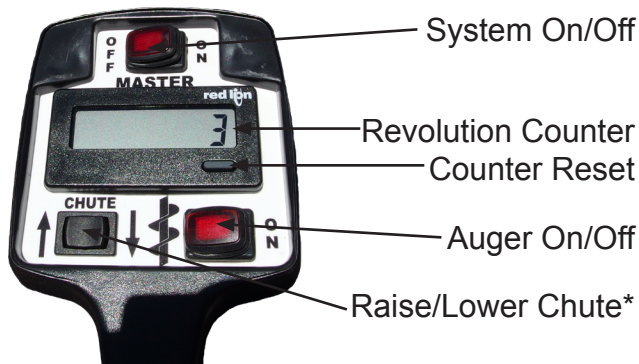


Do not put hands into a plugged auger when there is pressure on the system. It can result in harm.

- Do not use the hopper for long term storage of feed. It could create a corrosive environment and cause unwarranted wear on your machine.

Electric Powered Beefcake

- Fill Beefcake with desired amount of feed or grain product.
- Lower the rubber chute to feeding position.
- Activate the electric motor with the Beefcake's remote.



*Only available with the chute actuator option otherwise this switch serves no purpose.

For Your Information

The controller for the Beefcake is used in both the hydraulic and electric version of the feeder. Currently, the only difference is that the auger is activated differently between the two options. The electric uses the auger on/off switch on the Beefcake remote, and the hydraulic uses the flatbeds hydraulic function to activate the auger. Aside from the auger, everything else on the Beefcake remote is universal.

Optional Door Operations



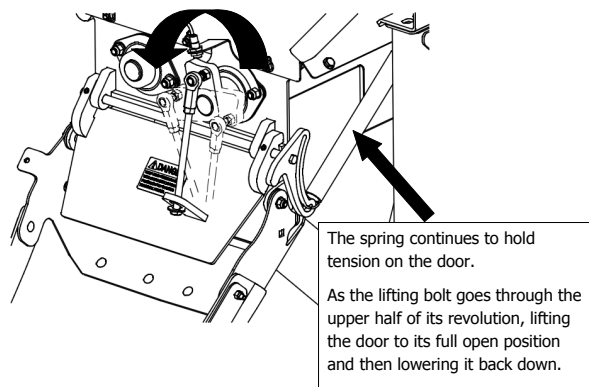
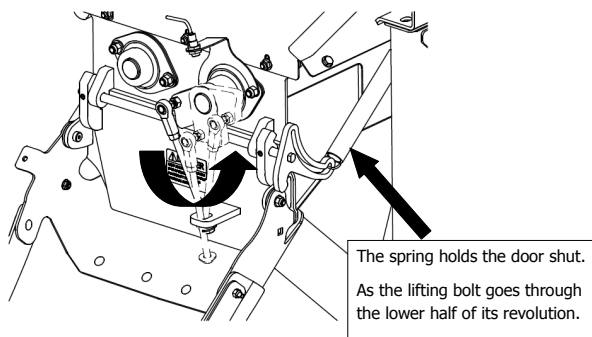
CAUTION!



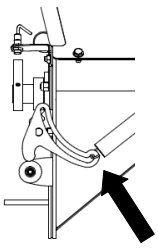
Using both optional methods at the same time will cause either the chain or actuator to fail. *The unit will come from the factory with Method #2 pre-installed. See page 3.1 in the Part's Section*

Method #1

Door Lifting Mechanism and Operation

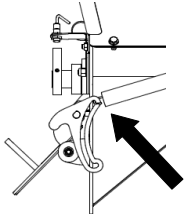


When it is in the closed position, it will create piles while operating. Where as if it is in the open position, it will create a row while operating.



Changing the position of this spring holds the door **OPEN** or **CLOSED**

This is located on the right side of the chute as depicted by the image.

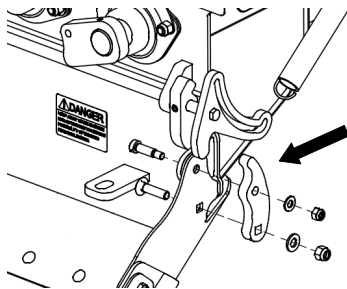


CAUTION!

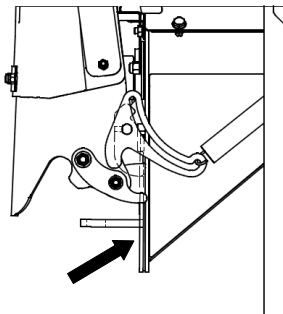


Using both optional methods at the same time will cause either the chain or actuator to fail.

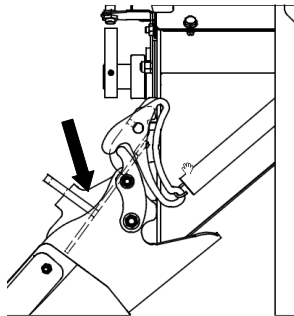
Method #2 Kicker



With the manual door kicker installed



When the Chute is up the door is closed.



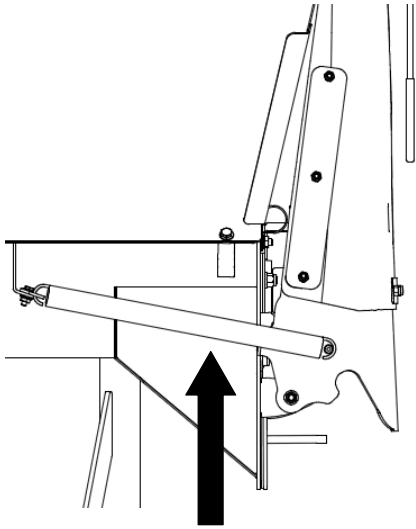
When the Chute is down the door is open.

The kicker is a great option for when you will always be making rows rather than piles with your feed.

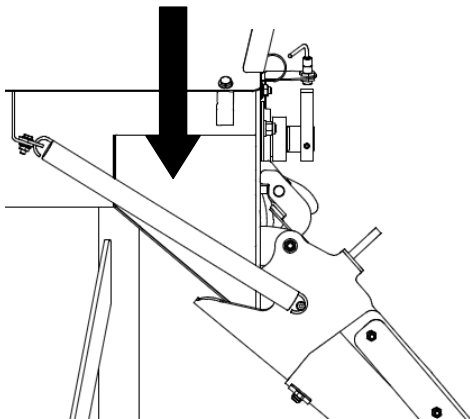
NOTE: USE ONLY ONE METHOD.

Optional Chute Operations

Method #1 Standard



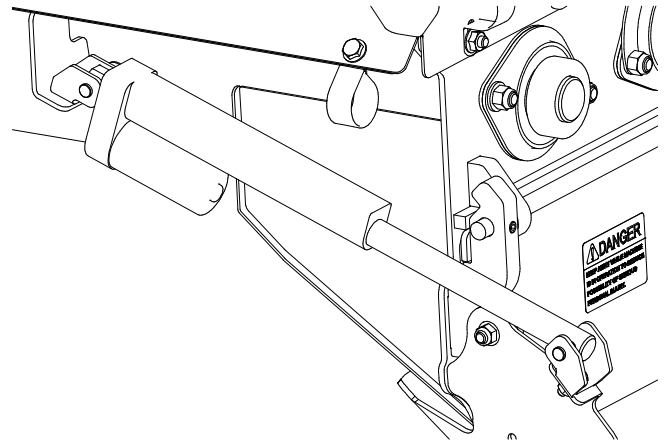
This spring holds the Chute
either **UP** or **DOWN**



This is located on the left side of the chute as depicted by the image.

This is used for transportation so that the chute is not damaged in any way due to protruding from the side of the truck.

Method #2 Actuator



The actuator replaces the spring that holds the chute either an up or down position. It allows the operator to manage the chute from the comfort of the seat or whatever their location is. See page 7 for details on the switch for the actuator.

DewEze Electric Beefcake

Electrical Minimum Requirements

Cable Requirements

All Electric Beefcake models are supplied with 18FT 2GA welding cable leads for hook-up to truck battery — This is maximum length for this cable

If a longer length is desired refer to chart below for minimum cable size

18FT	25FT	30FT	35FT	40FT
Supplied	"0" Gauge	"00" Gauge	"00" Gauge	"000" Gauge

Cables of new length must be built from single cables without splices or connections — Cable ends must be properly crimped or soldered

Electrical Supply Requirements

Beefcake electric feeders require a stable power source:

- Batteries must be in good condition and should be fully charged (12.7V standing)
- Truck Charging System must operational (14V+ if engine running)
- All electrical connections must be good (checked with voltmeter, not visually)

Batteries at 12.1 Volts are not fully charged they are actually 50% discharged

Battery Standing Voltage @ Percent Charge

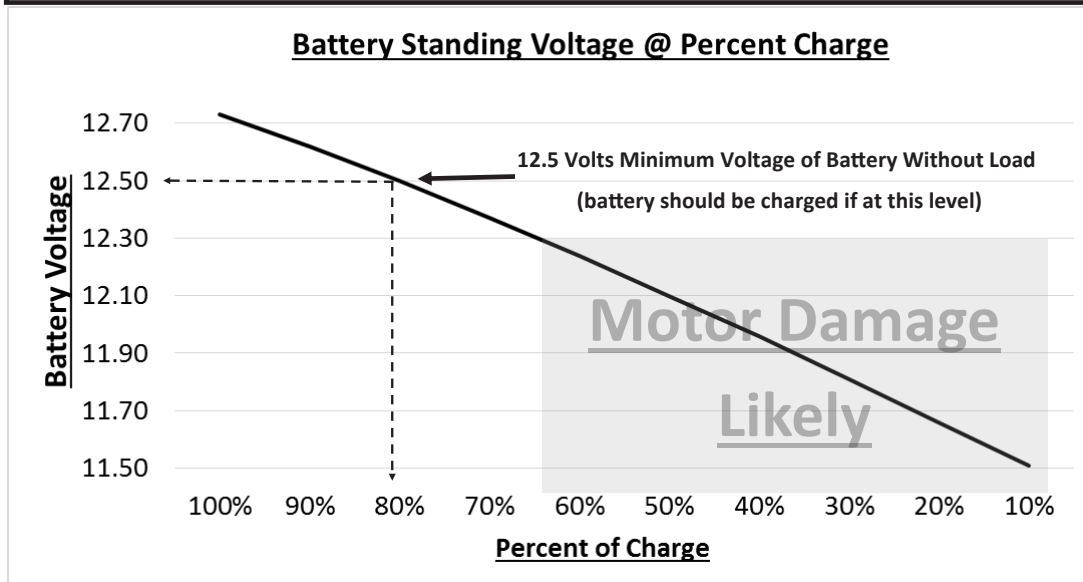


Chart Shows the unloaded voltage of a good battery at a particular charge level this is for reference only — actual battery charge and capacity should be determined by load testing of the battery

2/12/19

PARTS

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Optional

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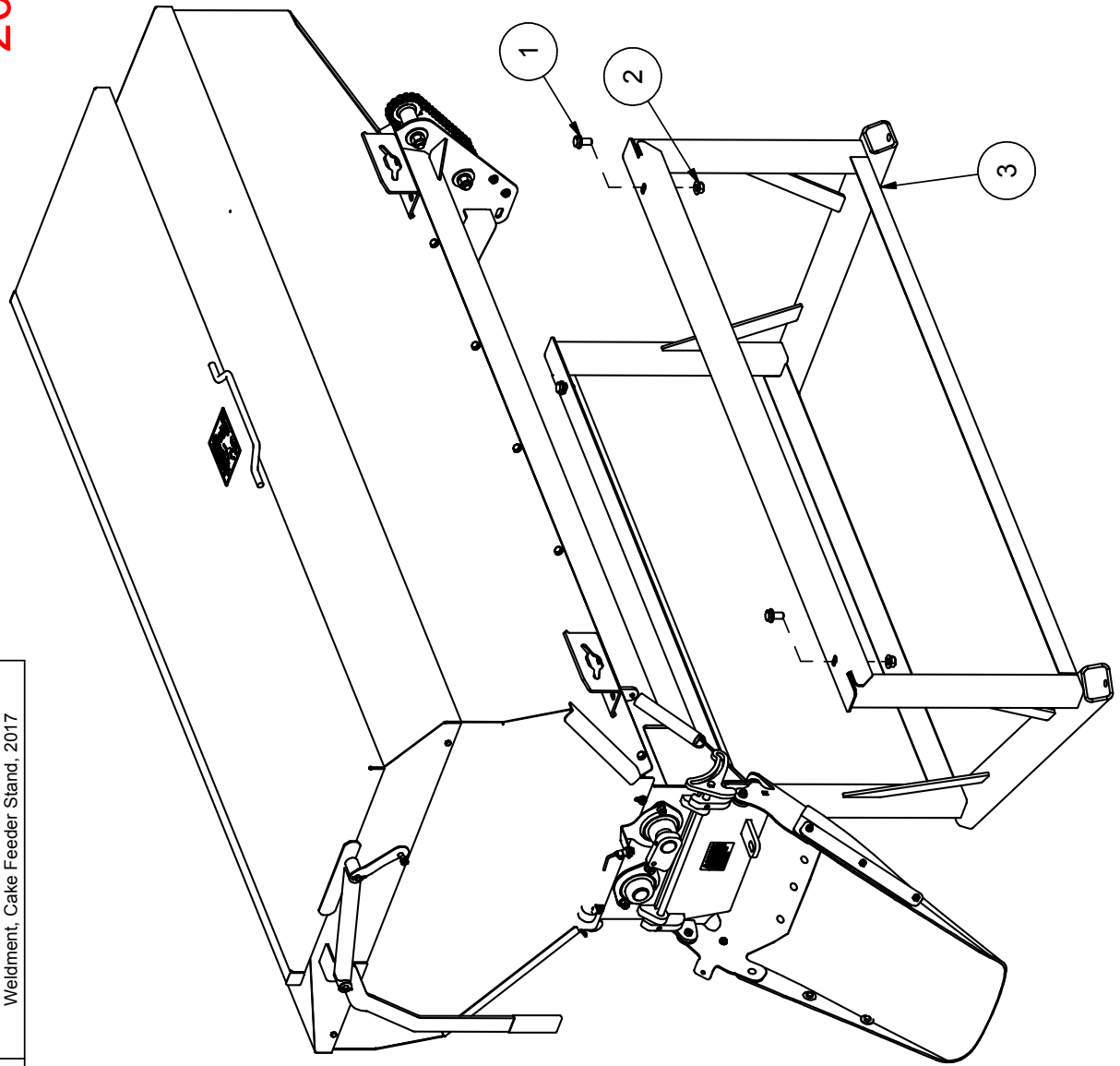
Cake Feeder Assembly 2017

Parts List

ITEM	QTY	PART #	DESCRIPTION
1	6	102074	Clamp, Adel .75w x 1.25id x .406 Hole
2	5	110020	Bolt, 5/16-18 X 0.75 in Carriage
3	14	110444	BOLT, 5/16-18 X 0.75, WIZ FLANGE
4	6	110603	NUT, 5/16-18 LOCK (NYLON)
5	14	110606	NUT, 5/16-18 WIZ FLANGE
6	1	110871	Bolt, 5/16-18 X 1 in Carriage
7	6	111155	Washer, 5/16 Flat, Large Dia. 1-1/4 Zinc
8	7	710586	SCREW, 1/4 X 1 TEK SELF-TAP

Cake Feeder Stand 2017

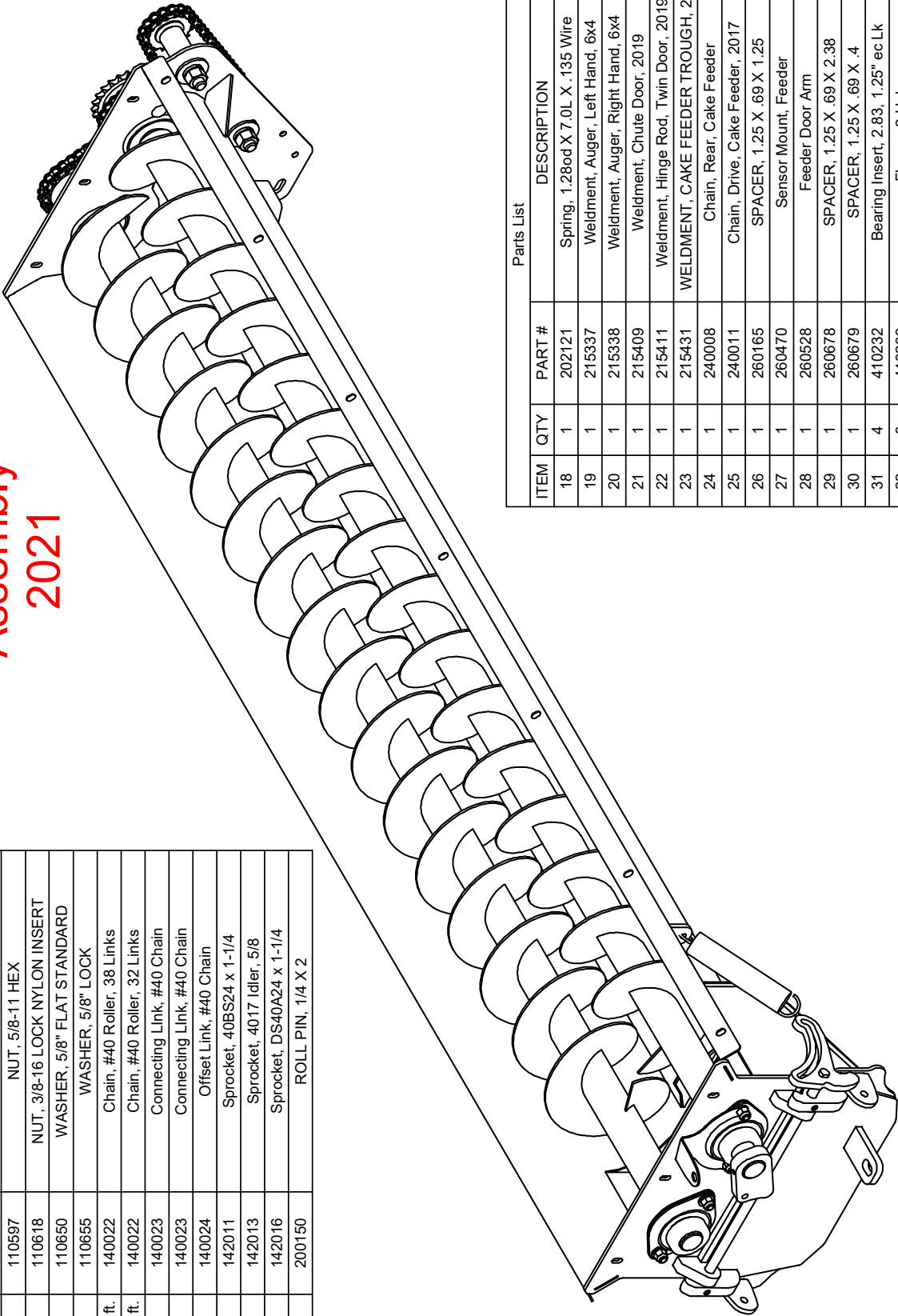
Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	4	110220	BOLT, 1/2-13 X 1, WIZ FLANGE
2	4	110588	NUT, 1/2-13 WIZ FLANGE
3	1	215376	Weldment, Cake Feeder Stand, 2017



2/20/2017

Auger & Trough
Assembly
2021

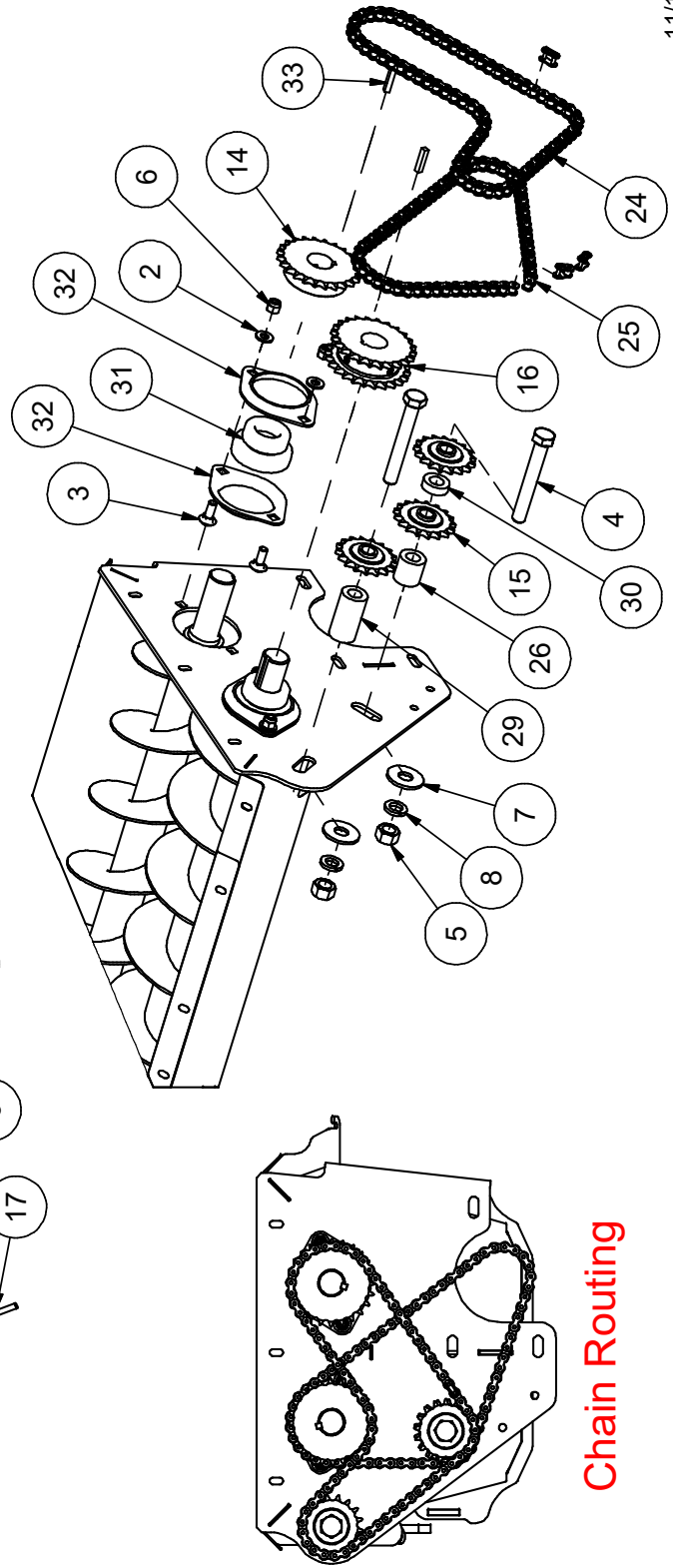
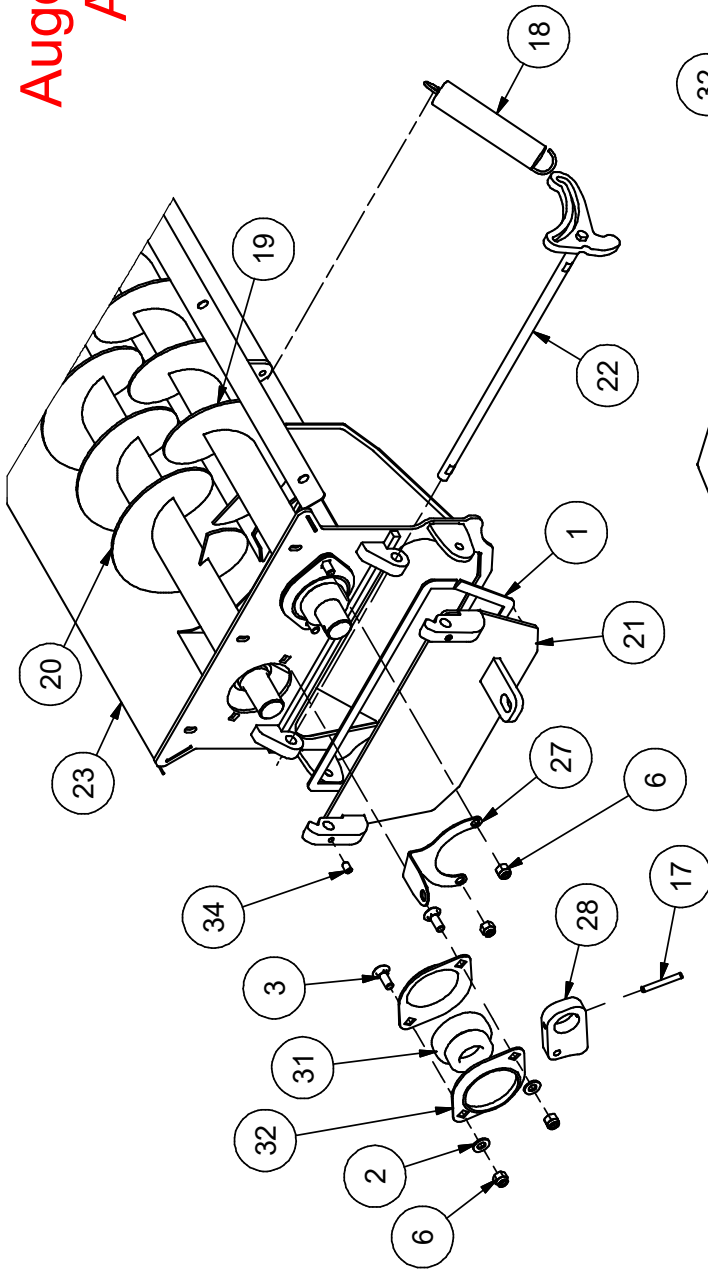
Parts List		
ITEM	QTY	PART # DESCRIPTION
1	3 ft	100613 Lid Seal, .50 x .187 x 36
2	6	110155 WASHER, 3/8" FLAT SAE
3	8	110556 Bolt, 3/8-16 X 1 in Carriage
4	2	110562 BOLT, 5/8-11 X 4.5
5	2	110597 NUT, 5/8-11 HEX
6	8	110618 NUT, 3/8-16 LOCK NYLON INSERT
7	2	110650 WASHER, 5/8" FLAT STANDARD
8	2	110655 WASHER, 5/8" LOCK
9	3.2 ft.	140022 Chain, #40 Roller, 38 Links
10	2.7 ft.	140022 Chain, #40 Roller, 32 Links
11	1	140023 Connecting Link, #40 Chain
12	1	140023 Connecting Link, #40 Chain
13	1	140024 Offset Link, #40 Chain
14	1	142011 Sprocket, 40BS24 x 1-1/4
15	3	142013 Sprocket, 4017 Idler, 5/8
16	1	142016 Sprocket, DS40A24 x 1-1/4
17	1	200150 ROLL PIN, 1/4 X 2



Parts List		
ITEM	QTY	PART # DESCRIPTION
18	1	202121 Spring, 1.280d X 7.0L X .135 Wire
19	1	215337 Weldment, Auger, Left Hand, 6x4
20	1	215338 Weldment, Auger, Right Hand, 6x4
21	1	215409 Weldment, Chute Door, 2019
22	1	215411 Weldment, Hinge Rod, Twin Door, 2019
23	1	215431 WELDMENT, CAKE FEEDER TROUGH, 2021
24	1	240008 Chain, Rear, Cake Feeder
25	1	240011 Chain, Drive, Cake Feeder, 2017
26	1	260165 SPACER, 1.25 X .69 X 1.25
27	1	260470 Sensor Mount, Feeder
28	1	260528 Feeder Door Arm
29	1	260678 SPACER, 1.25 X .69 X 2.38
30	1	260679 SPACER, 1.25 X .69 X .4
31	4	410232 Bearing Insert, 2.83, 1.25" ec Lk
32	8	410233 Flange, 2 Hole
33	2	510089 Key, 1/4 X 1/4 X 1.25, Under
34	2	510254 SetScrew, 5/16-18 X 0.5

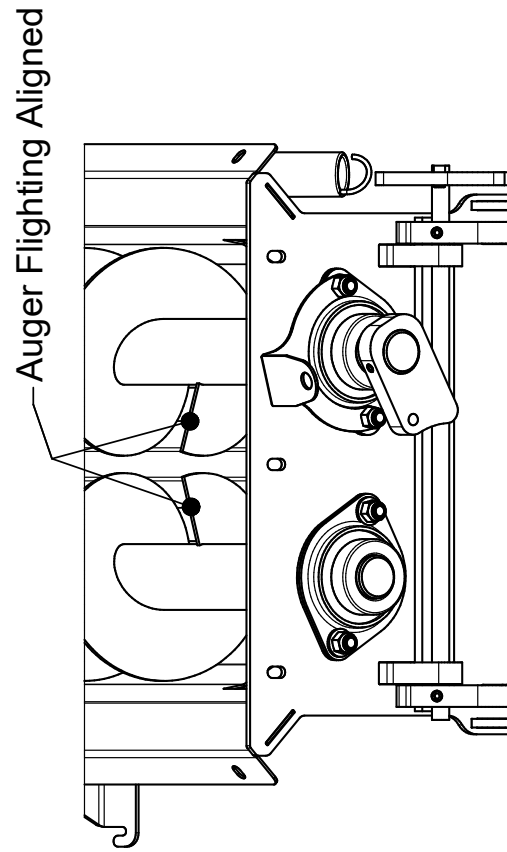
11/18/2021

Auger & Trough Assembly 2021



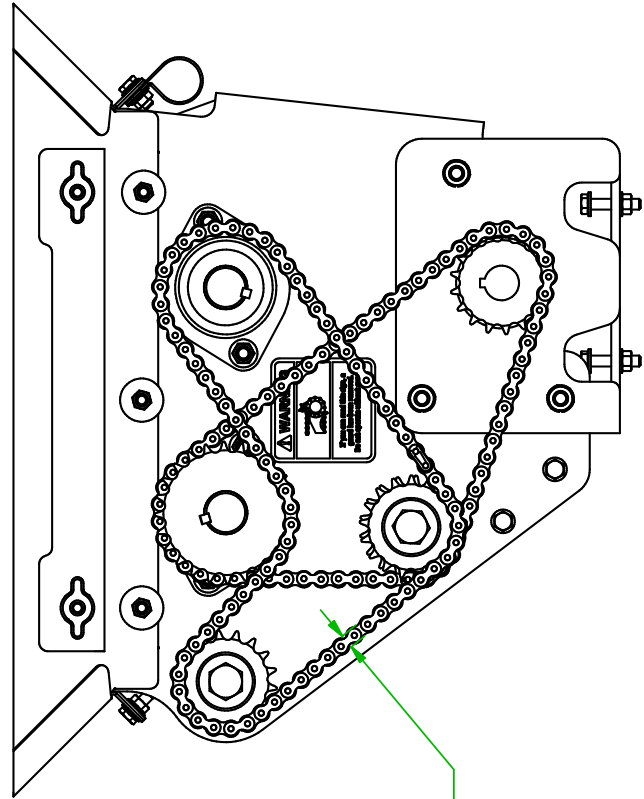
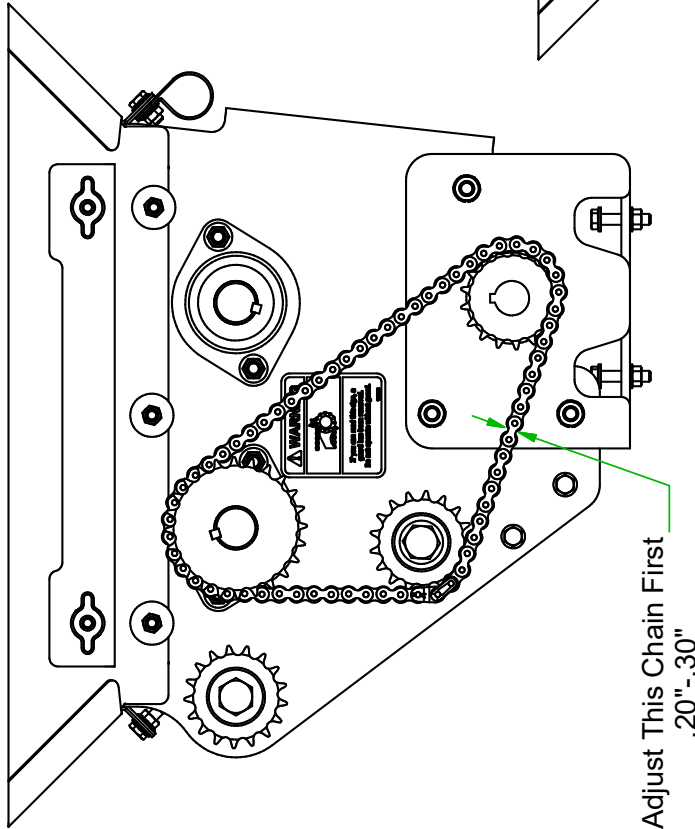
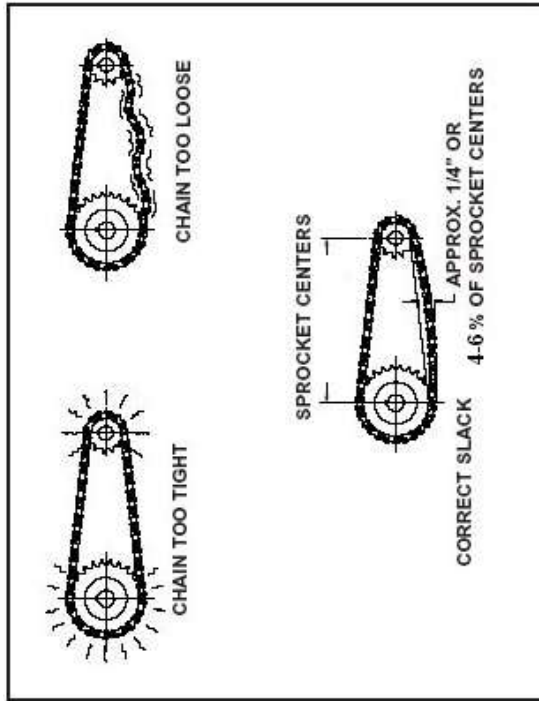
11/18/2021

Auger Orientation Beefcake Feeder



4/22/2021

Drive Chains Adjustment & Tension

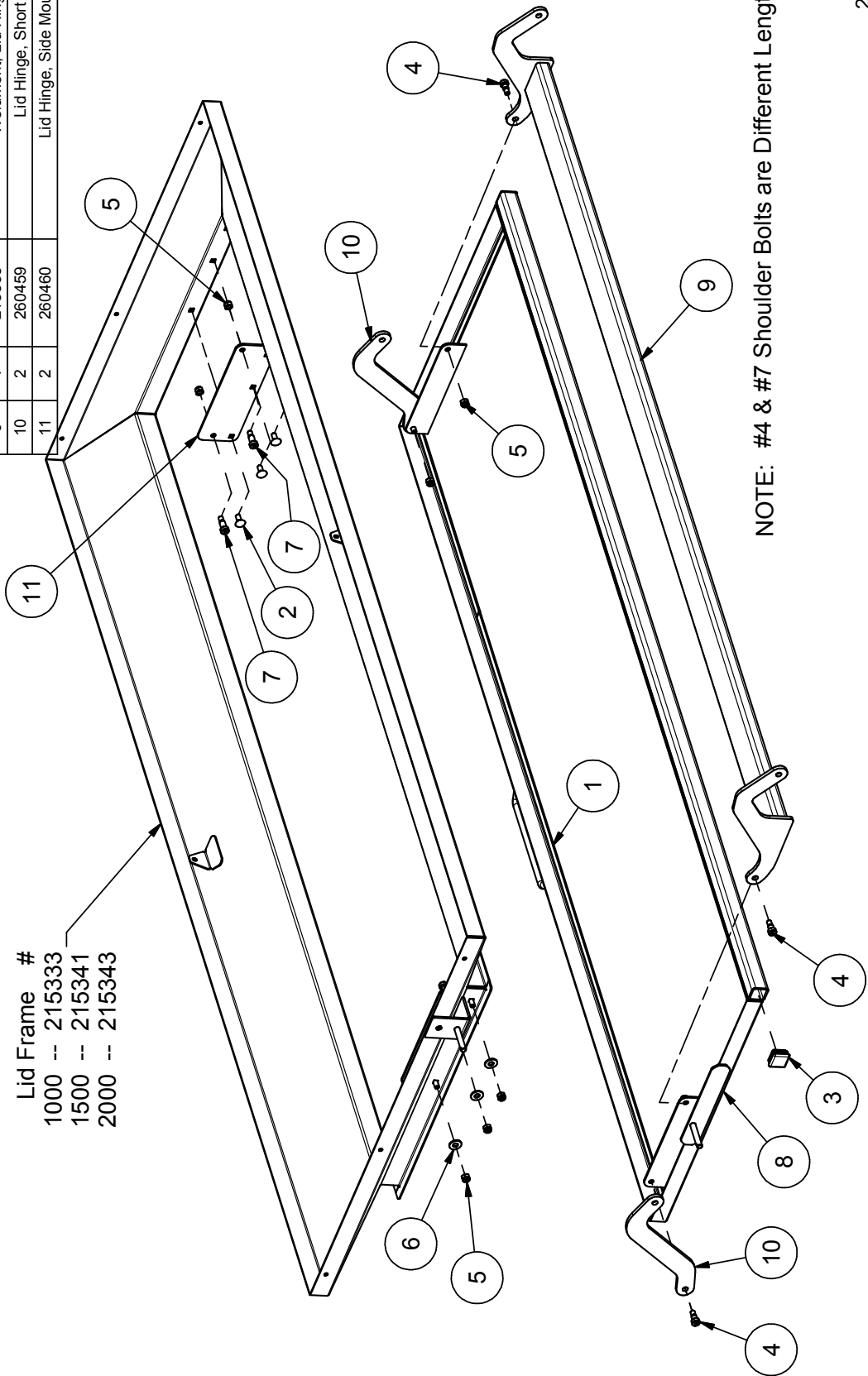


3/30/2021

Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	16 ft	100613	Lid Seal, .50 x .187 x 192
2	6	110020	Bolt, 5/16-18 X 0.75 in Carriage
3	2	110313	1-1/4 SQ PLUG
4	4	110439	BOLT, 3/8 X 3/8 SHOULDER SHCS
5	14	110603	NUT, 5/16-18 LOCK (NYLON)
6	6	110665	WASHER, 5/16" FLAT STANDARD
7	4	111070	BOLT, 3/8 X .625 SHOULDER SHCS
8	1	215334	Weldment, Feeder Lid
9	1	215335	Weldment, Lid Hinge
10	2	260459	Lid Hinge, Short
11	2	260460	Lid Hinge, Side Mount

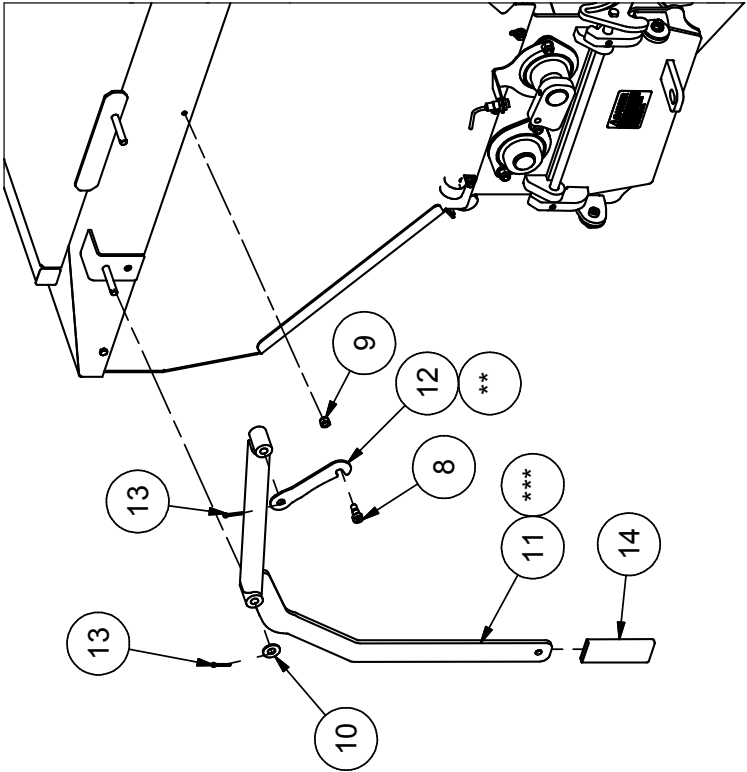
Lid & Frame Assembly

Lid Frame #
 1000 -- 215333
 1500 -- 215341
 2000 -- 215343



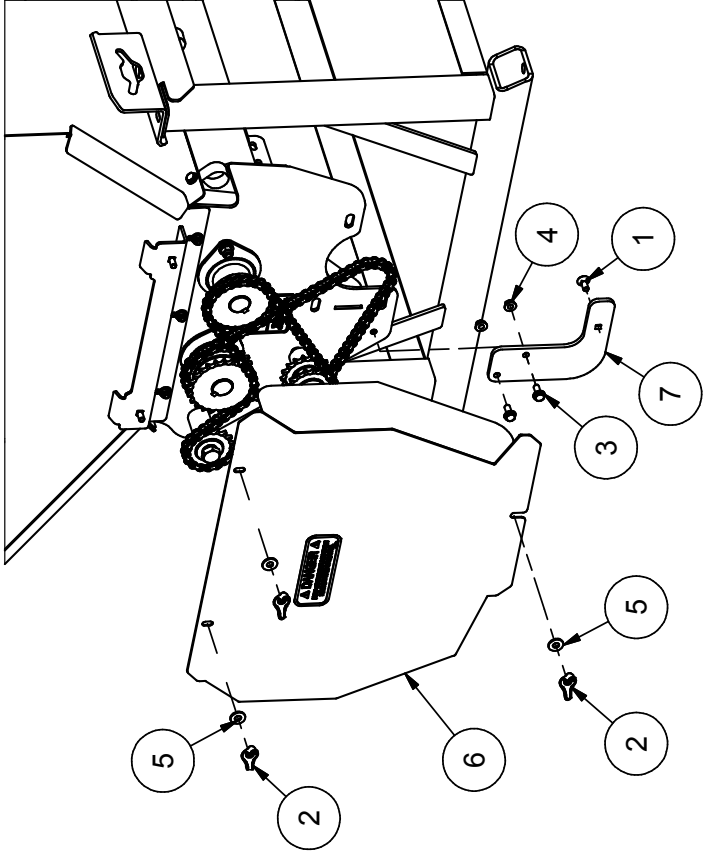
NOTE: #4 & #7 Shoulder Bolts are Different Lengths

Lift Handle
& Latch



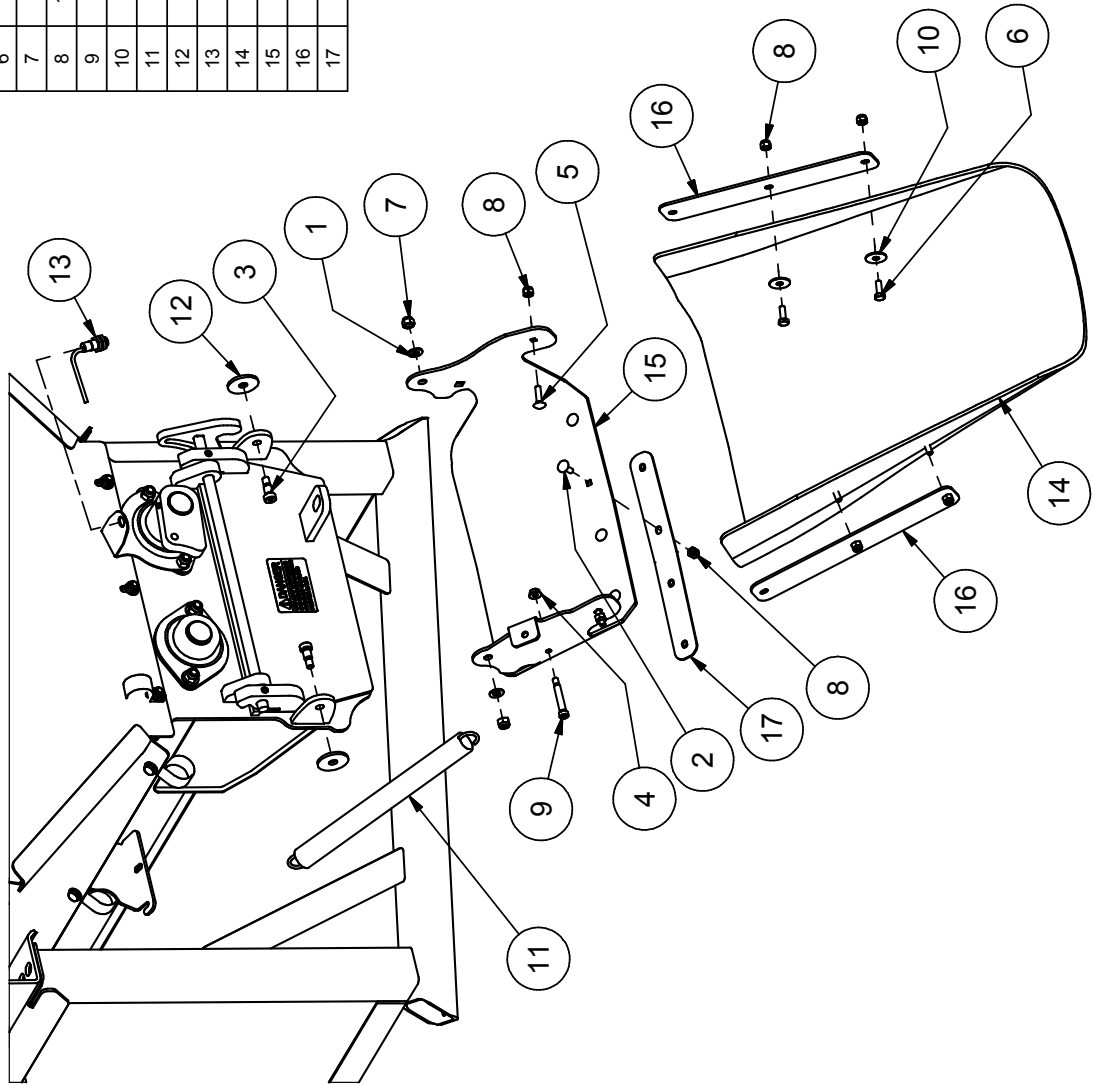
Parts List		
ITEM	QTY	PART # DESCRIPTION
8	1	110439 BOLT, 3/8 X 3/8 SHOULDER SHCS
9	1	110603 NUT, 5/16-18 LOCK (NYLON)
10	1	110676 WASHER, 3/8" FLAT STANDARD
11	1	215318 Weldment, Lid Lift Bar, External, 1000 & 1500
***	1	215346 Weldment, Lid Lift Bar, External, 2000
12	1	260549 Lid Latch, 1500 & 2000
**	1	260529 Lid Latch, 1000
13	2	510249 COTTER PIN, 1/8 X 0.75
14	1	910044 COVER, VINYL .25 X 1.5 X 4 GRIP

Drive Shield
2017

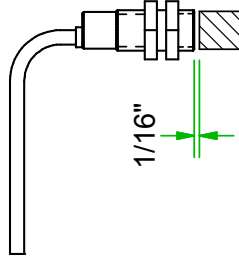


Parts List		
ITEM	QTY	PART # DESCRIPTION
1	1	110020 Bolt, 5/16-18 X 0.75 in Carriage
2	3	110327 NUT, 5/16-18 WING
3	2	110444 BOLT, 5/16-18 X 0.75, WIZ FLANGE
4	2	110606 NUT, 5/16-18 WIZ FLANGE
5	3	110665 WASHER, 5/16" FLAT STANDARD
6	1	215379 Weldment, Shield, Feeder, 2017
7	1	260670 Shield Support

Chute Extension Assembly 2017



Proximity
Sensor
Part #235027

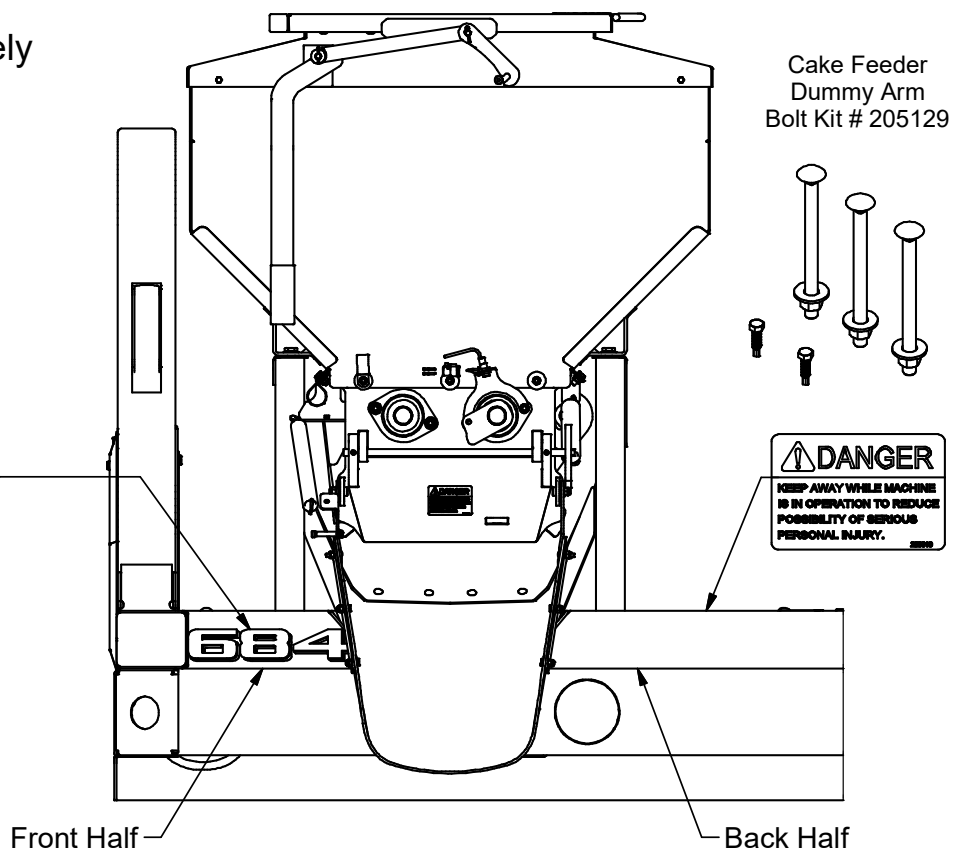


Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	2	110069	WASHER, 5/16" FLAT SAE
2	4	110154	Bolt, 1/4-20 X 0.75 in Carriage
3	2	110289	BOLT, 3/8 X 1/2 SHOULDER SHCS
4	1	110290	NUT, 1/4-20 WIZ FLANGE
5	2	110326	Bolt, 1/4-20 X 1 in Carriage
6	4	110561	BOLT, 1/4-20 X .75
7	2	110603	NUT, 5/16-18 LOCK (NYLON)
8	10	110630	NUT, 1/4-20 LOCK (NYLON INSERT)
9	1	110767	BOLT, 5/16 X 1.5 SHOULDER SHCS
10	4	111033	WASHER, 1/4" X 1" OD, Plain
11	1	202088	Spring, 1.060d X 12L X .135 Wire
12	2	211747	FRICITION WASHER 1.5"
13	1	235027	Sensor, Proximity, With Plug
14	1	260473	Rubber Chute
15	1	260534	Chute Extension
16	2	260536	Chute Extension, Side Support
17	1	260537	Chute Extension, Doubler Plate

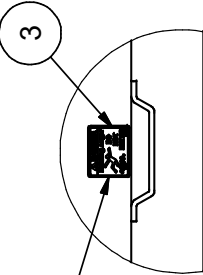
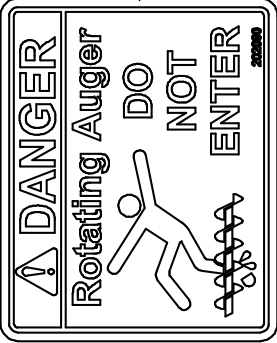
Flatbed Model #	Standard Dummy Arm	Cake Feeder Dummy Arms					
		1000		1500		2000	
		Front Half	Back Half	Front Half	Back Half	Front Half	Back Half
675	215150	215353	215354	NA	NA	NA	NA
676	215249	215353	215356	215355	215354	NA	NA
677	215191	215353	215357	215355	215356	NA	NA
679	215208	215353	215358	215355	215357	215355	215356
682	215145	215359	215357	215360	215356	NA	NA
684	215193	215359	215358	215360	215357	215360	215356
687	215198	NA	NA	215360	215361	215360	215361
688	215200	NA	NA	215360	215362	215360	215362
778	215160	215363	215364	NA	NA	NA	NA
776	215257	215363	215365	215367	215366	NA	NA
782	215158	215363	215368	215367	215369	NA	NA
784	215202	215363	215370	215367	215371	215367	215372
787	215204	NA	NA	215367	215373	215367	215373
788	215206	NA	NA	215367	215374	215367	215374

Decals Must Be
Purchased Separately

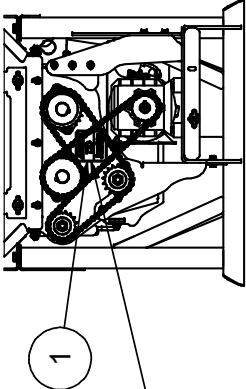
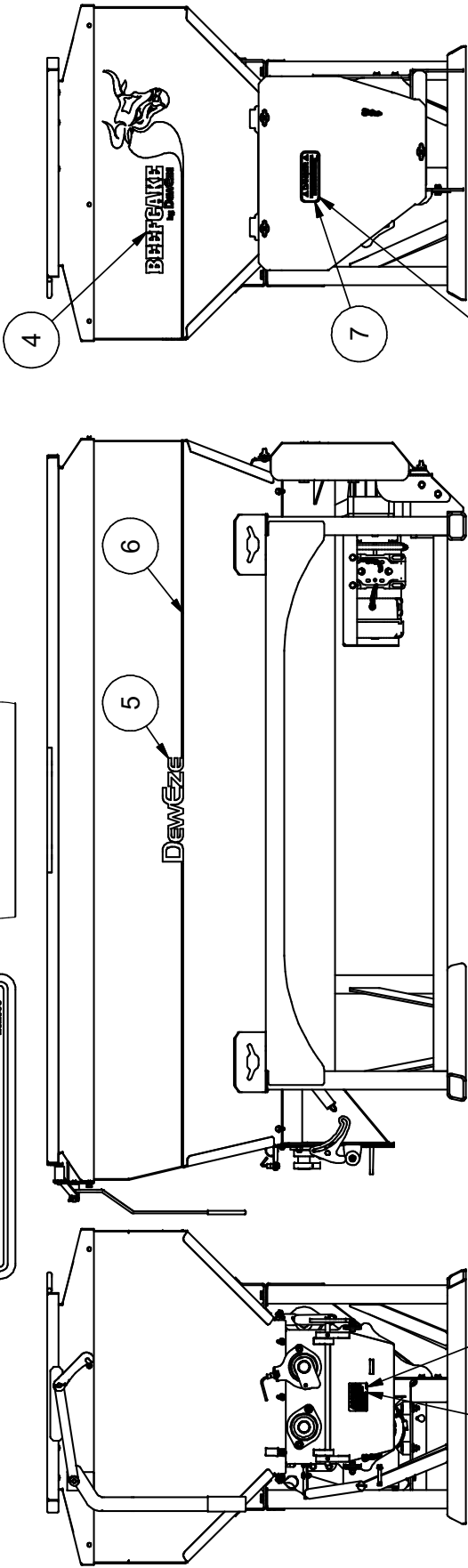
Decals	
Model #	Part #
675	202095
676	202096
677	202097
679	202098
682	202099
684	202100
687	202101
688	202102
778	202105
776	202104
782	202106
784	202107
787	202108
788	202109



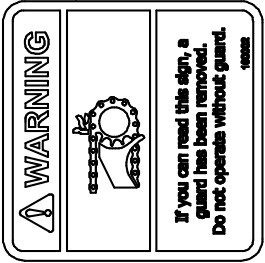
6/6/2018



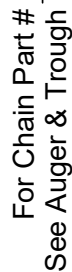
Decal Page
DewEze **BEEFCAKE**



Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	1	160002	Decal, Guard Removed, Graphic
2	1	200010	DANGER DECAL
3	1	202090	Decal, Danger, Rotating Auger
4	1	202091	Decal, Beefcake & Bull 21.87 X 8.75
5	1	202092	Decal, DewEze, 11.5 X 1.8
6	11.25'	202093	Decal, Pin stripe
7	1	500038	Decal, Danger Keep Covers In Place



Kit, Hyd Drive (14.1) #205127			
ITEM	QTY	PART #	DESCRIPTION
1	2	110254	BOLT, 7/16-14 X 1.25, WIZ FLANGE
2	2	110337	NUT, 7/16-14 WIZ FLANGE
3	4	110420	BOLT, 3/8-16 X 1.0
4	1	110444	BOLT, 5/16-18 X 0.75, WIZ FLANGE
5	3	110539	BOLT, 7/16-14 X 1.25
6	1	110606	NUT, 5/16-18 WIZ FLANGE
7	3	110641	NUT, 7/16-14
8	3	110670	WASHER, 7/16" FLAT STANDARD
9	3	110671	WASHER, 7/16" LOCK
10	4	110672	WASHER, 3/8" LOCK
11	2	120245	ADAPTER, 8MJ-10MB90
12	1	120535	Valve, Check, 8fj-8mj
13	2	120582	Coupler, Pioneer Male, ORB
14	2	120718	Adapter, 8mb-6fx90
15	1	142017	Sprocket, 40BS17 x 1.0
16	2	220745	Hose, .375 x 36.0 6-8fjx6mj
17	1	260669	Drive Mount, Hydraulic
18	1	260680	Hydraulic Mount Gusset
19	1	420128	Motor, Eaton 101-1014 (14.1 Cl)



DewEze®

Kit, Electric Drive #205374

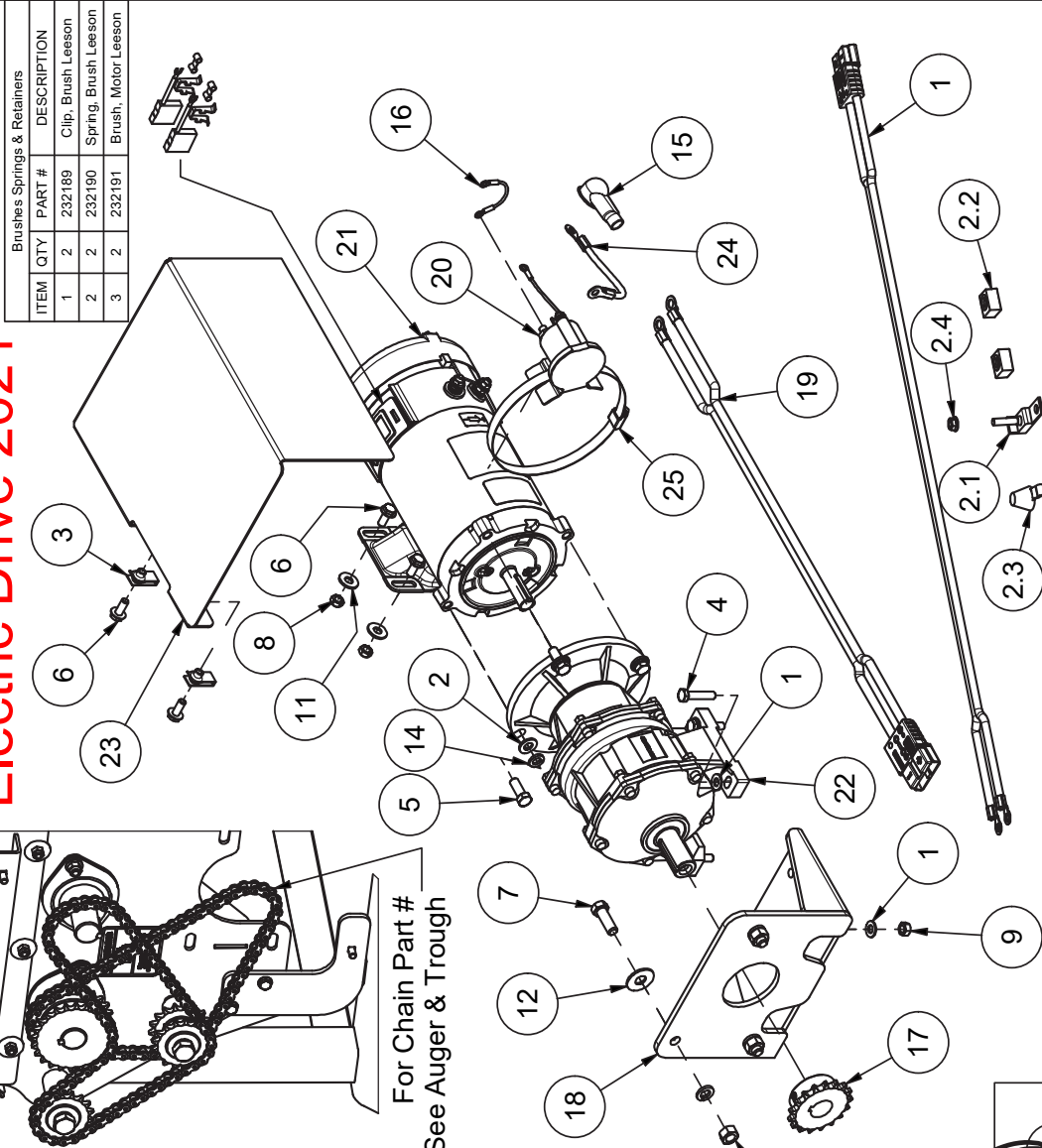
ITEM	QTY	PART #	DESCRIPTION
1	8	110069	WASHER, 5/16" FLAT SAE
2	4	110155	WASHER, 3/8" FLAT SAE
3	2	110319	NUT, 5/16-18 U-TYPE .75L
4	4	110377	BOLT, 5/16-18 X 1-1/2
5	4	110420	BOLT, 3/8-16 X 1.0
6	4	110444	BOLT, 5/16-18 X 0.75, WIZ FLANGE
7	3	110539	BOLT, 7/16-14 X 1.25
8	2	110600	NUT, 5/16-18, UNITORQUE LOCK
9	4	110608	NUT, 5/16-18
10	3	110641	NUT, 7/16-14
11	2	110665	WASHER, 5/16" FLAT STANDARD
12	3	110670	WASHER, 7/16" FLAT STANDARD
13	3	110671	WASHER, 7/16" LOCK
14	4	110672	WASHER, 3/8" LOCK
15	1	130068	Terminal Protector, Red, 1-2ga
16	1	132163	Flyback Diode Assembly, Cake Feeder
17	1	142017	Sprocket, 40BS17 x 1.0
18	1	215429	BRACKET, GEAR REDUCER
19	1	230169	Battery Cable QC, 2ga Twin Lead, 30"
20	1	232103	Solenoid, 4 Post, 12VDC Contactor
21	1	232110	Motor, 12V DC, 3/4 HP
22	1	242013	GEAR REDUCER, INLINE, 30.55:1
23	1	260674	Motor Shield, Electric, 2017
24	1	532084	Cable, 4 ga. 9", Red
25	1	940028	CLAMP, HOSE #88 6.00"

Negative Cable
From Truck BatteryGround Wire
Control HarnessPower Wire
FUSE 200 Amp
BUSS MRBF-200
Control HarnessPositive Cable
From
Truck BatterySwitch Wire
Control HarnessFlyback
Diode
Harness

SOLENOID

Ground Wire
To SolenoidPositive Cable
From Solenoid to Motor

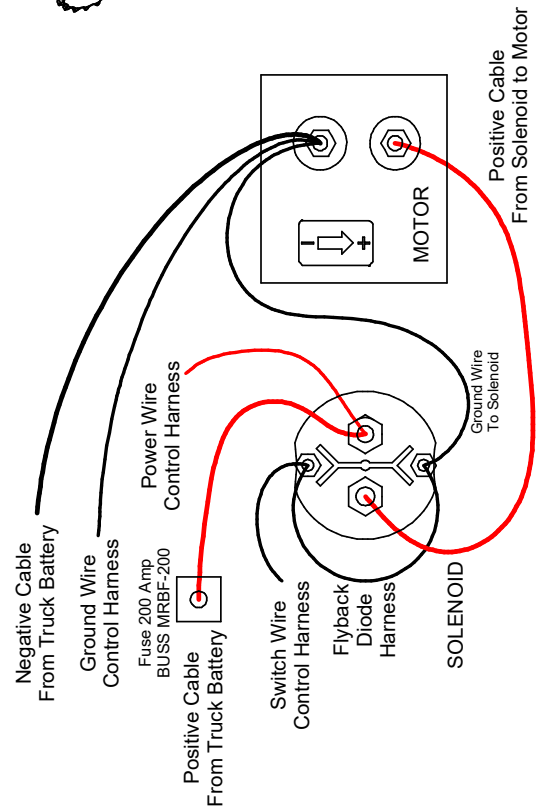
Electric Drive 2021

For Chain Part #
See Auger & Trough

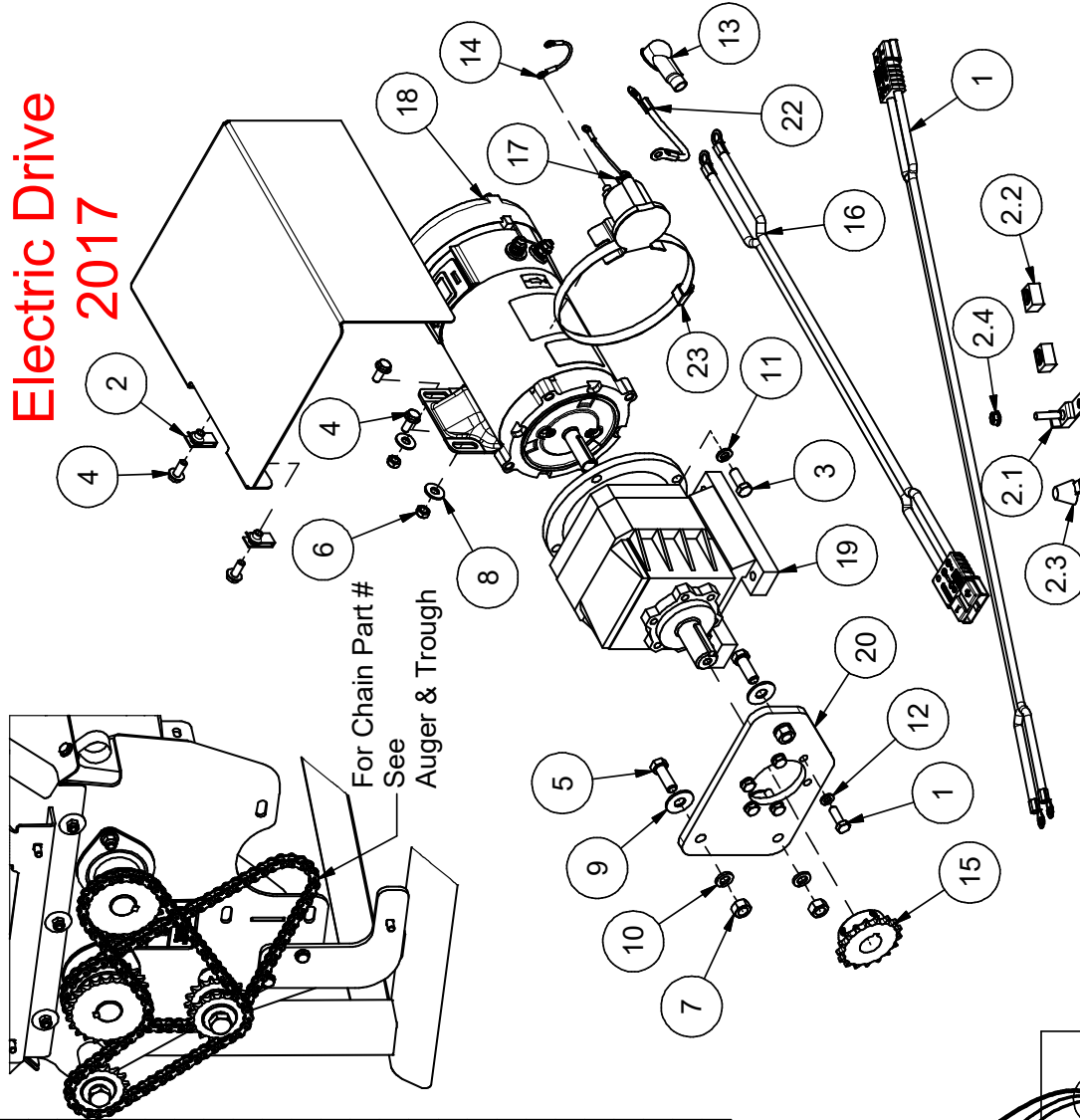
Parts List			DESCRIPTION
ITEM	QTY	PART #	DESCRIPTION
1	1	230168	Battery Cable QC, 2ga Twin Lead, 216"
2	1	205137	Kit, BeefCake Fuse and Holder
2.1	1	132093	FUSE HOLDER, BUSS CFBAR1-M8XSP
2.2	2	132094	FUSE 200 AMP, BUSS MRBF-200
2.3	1	132092	FUSE COVER, BUSS CFCOVER-1R
2.4	1	110141	NUT, M8 X 1.25 WIZFLANGE

9/27/2022

Kit, Electric Drive #205126		
ITEM	QTY	DESCRIPTION
1	5	BOLT, M8x1.25 x 25 Gr 10.9
2	2	NUT, 5/16-18 U-TYPE .75L
3	2	BOLT, 3/8-16 X 1.0
4	4	BOLT, 5/16-18 X 0.75, WIZ FLANGE
5	3	BOLT, 7/16-14 X 1.25
6	2	NUT, 5/16-18, UNITORQUE LOCK
7	3	NUT, 7/16-14
8	2	WASHER, 5/16" FLAT STANDARD
9	3	WASHER, 7/16" FLAT STANDARD
10	3	WASHER, 7/16" LOCK
11	2	WASHER, 3/8" LOCK
12	5	WASHER, 5/16" LOCK
13	1	Terminal Protector, Red, 1-2ga
14	1	Flyback Diode Assembly, Cake Feeder
15	1	Sprocket, 40BS17 x 1.0
16	1	Battery Cable QC, 2ga Twin Lead, 30"
17	1	Solenoid, 4 Post, 12VDC Contactor
18	1	Motor, 12V DC, 3/4 HP
19	1	Gear Reducer, Inline, 29.4:1
20	1	Drive Mount, Electric
21	1	Motor Shield, Electric, 2017
22	1	Cable, 4 ga. 9", Red
23	1	CLAMP, HOSE #88 6.00"



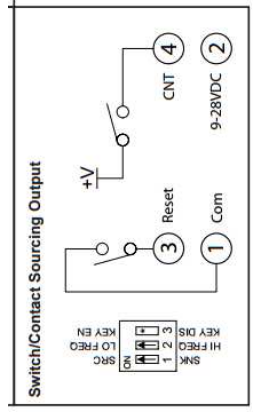
Electric Drive 2017



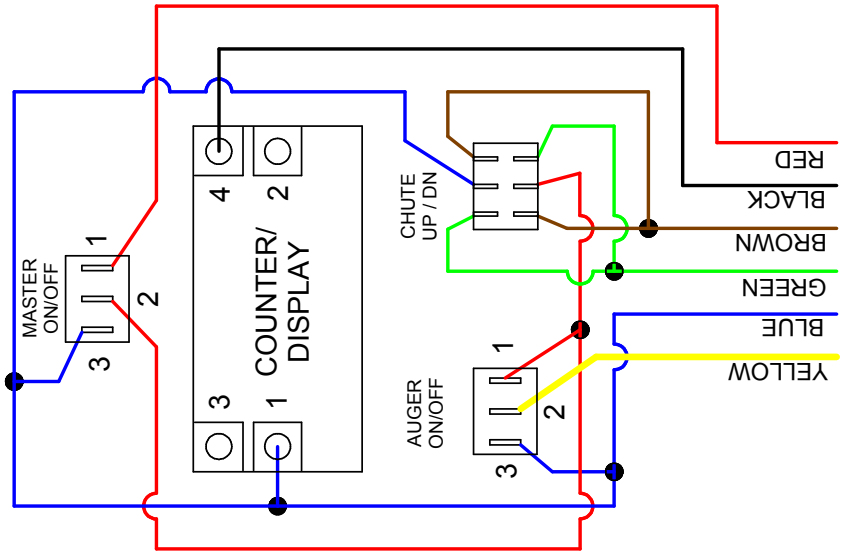
Parts List		
ITEM	QTY	DESCRIPTION
1	1	Battery Cable QC, 2ga Twin Lead, 216"
2	1	Kit, BeefCake Fuse and Holder
2.1	1	FUSE HOLDER, BUSS CFBAR1-M8XSP
2.2	2	FUSE 200 AMP, BUSS MRBF-200
2.3	1	FUSE COVER, BUSS CFCOVER-1R
2.4	1	NUT, M8 X 1.25 WIZFLANGE

3/5/2019

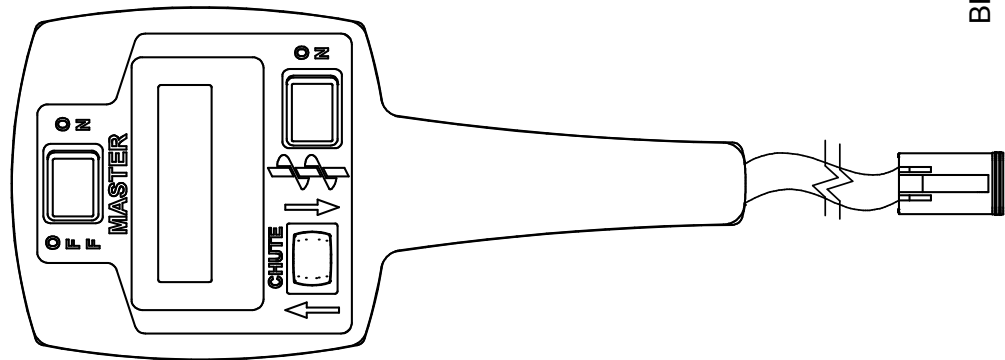
NOTE: All 3 DIP Switches Set to ON



Hand Control From Backside

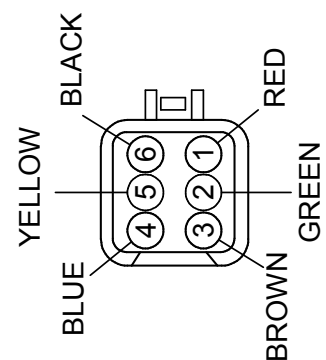
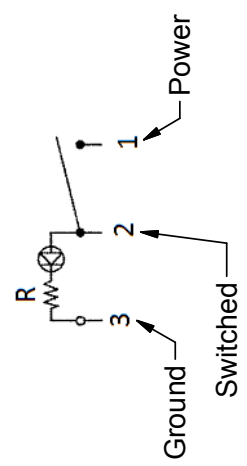


Hand Control & Harness

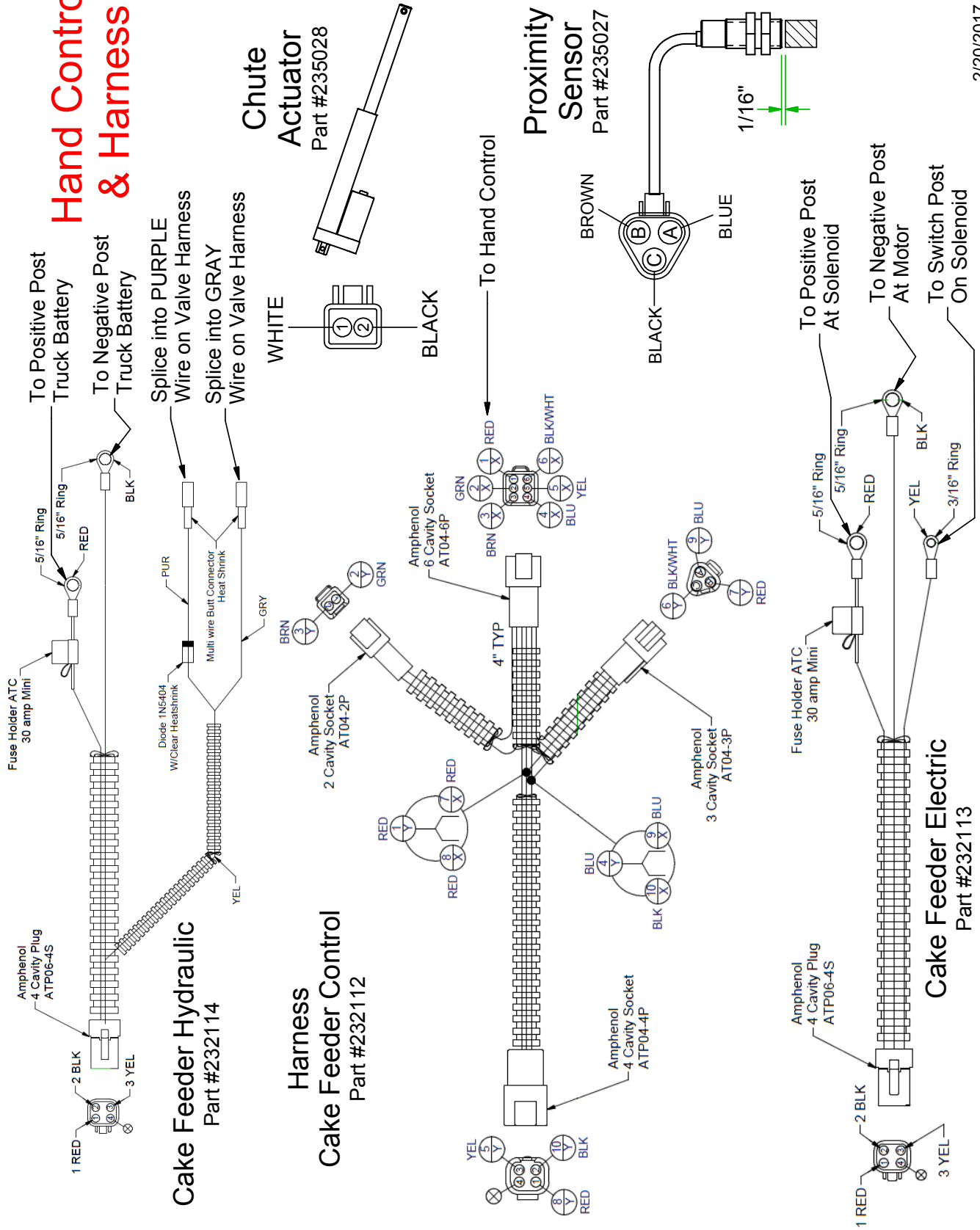


Hand Control Assy, Part #150047		
ITEM	QTY	DESCRIPTION
1	1	Counter, Display
2	1	Switch, Rocker Min. DPDT, (On)-OFF-(On)
3	2	Switch, Rocker Min. SPST, On-OFF, Illum.
4	1	TOP HOUSING, HAND CONTROL
5	1	BOTTOM HOUSING, HAND CONTROL
6	4	SCREW, #6 X 1/4 TYPE F
7	2	SCREW, #6 X 1 SHEETMETAL
8	2	SCREW, #6 X 1.5 SHEETMETAL
9	1	Switch Plate, Feeder, Hand Control
10	1	Decal, Cake Feeder Hand Control
11	1	Cable, Hand Control, Feeder

132132
3P SPST ON-OFF
ILLUM

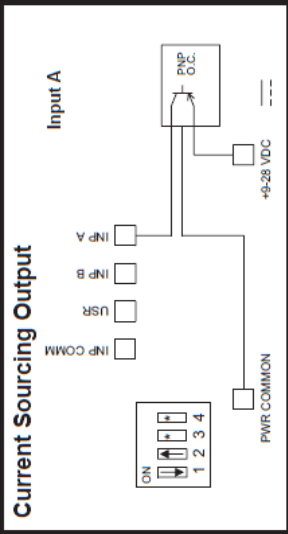


Hand Control & Harness

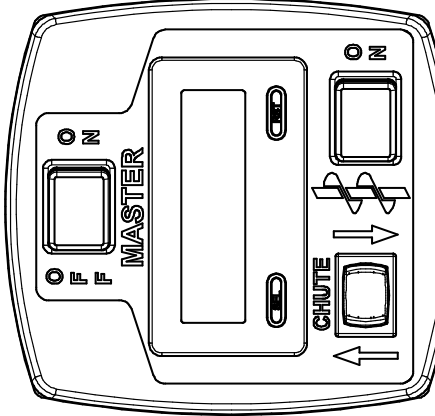
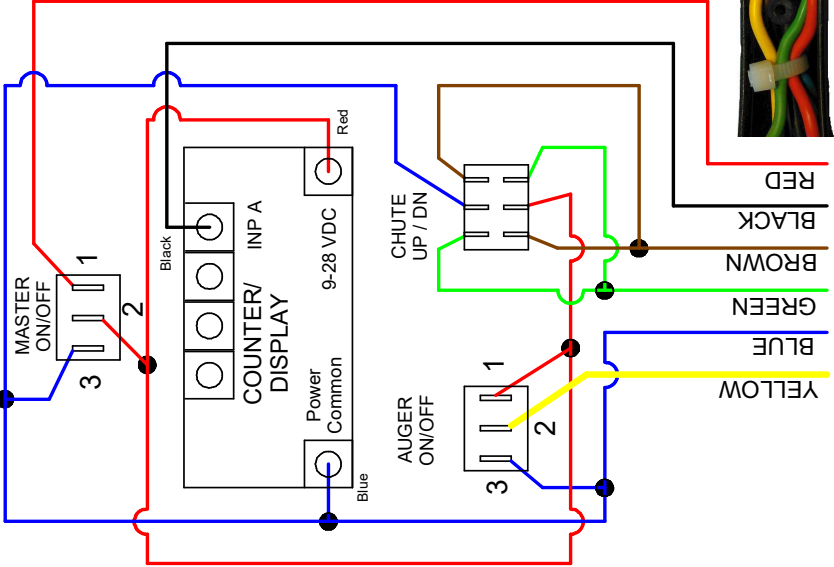


2/20/2017

NOTE: DIP Switch 1 OFF DIP Switch 2 ON



Hand Control
From Backside



Hand Control Assy, Part #150048		
ITEM	QTY	DESCRIPTION
1	1	Switch, Rocker Min. DPDT, (On)-OFF-(ON)
2	2	Switch, Rocker Min. SPST, On-OFF, Illum.
3	1	Counter, Display, Backlight Display
4	1	TOP HOUSING, HAND CONTROL
5	1	BOTTOM HOUSING, HAND CONTROL
6	4	SCREW, #6 X 1/4 TYPE F
7	2	SCREW, #6 X 1 SHEETMETAL
8	2	SCREW, #6 X 1.5 SHEETMETAL
9	1	Switch Plate, Feeder, Hand Control
10	1	Decal, Cake Feeder Hand Control
11	1	Cable, Hand Control, Feeder

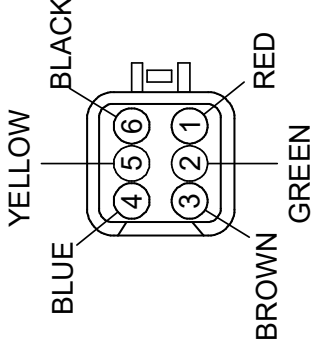
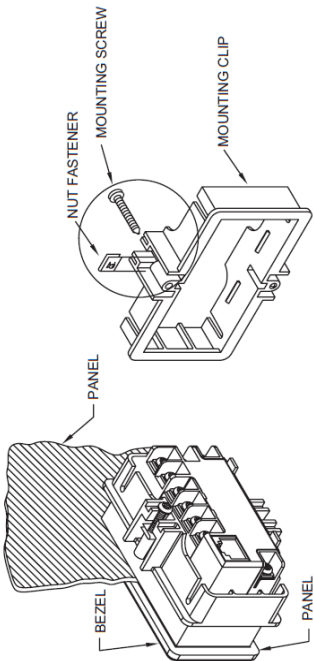
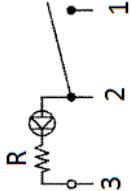
132132

3P SPST ON-OFF

ILLUM

Starting July 2020

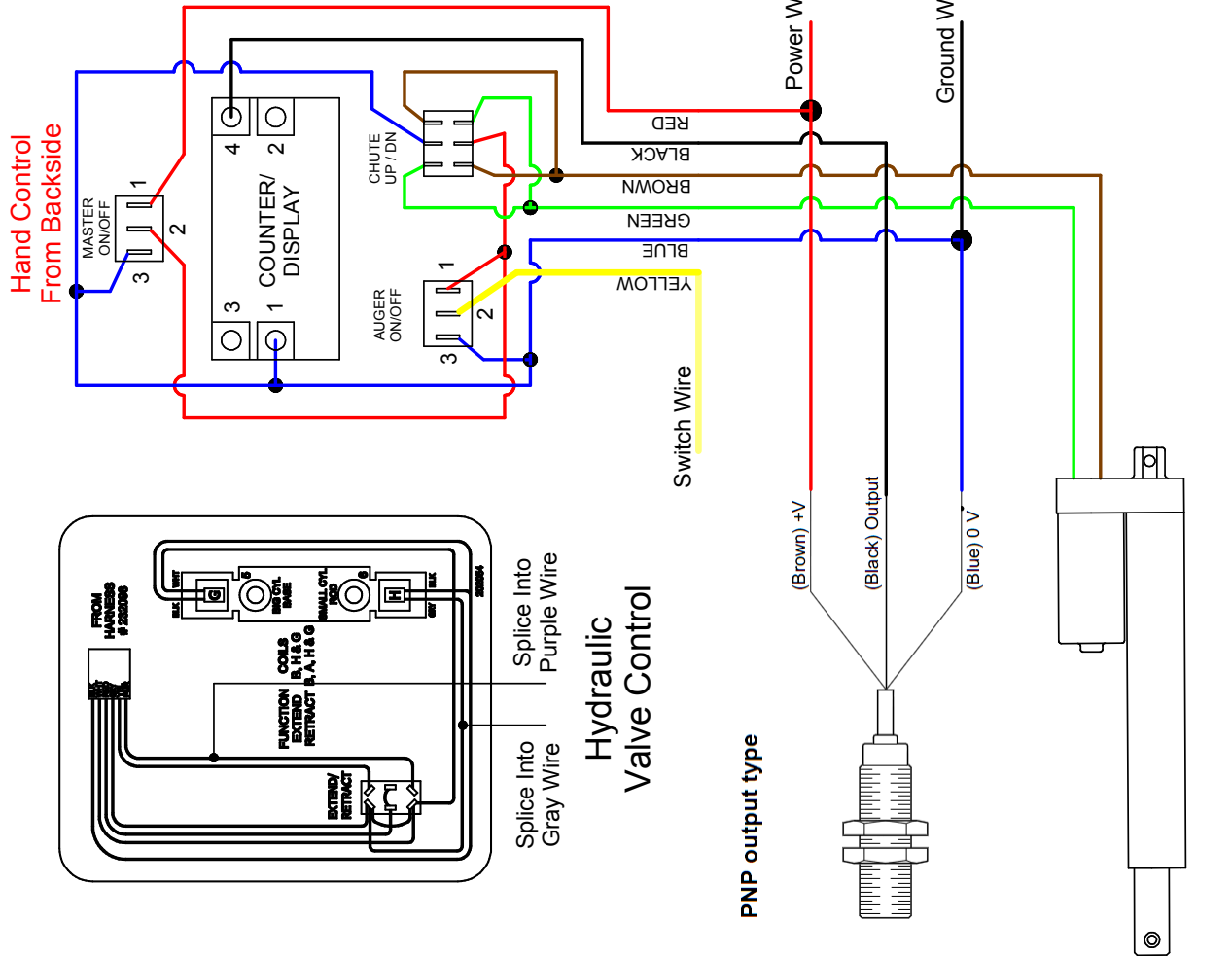
- 1000E S/N 20A56
- 1500E S/N 20A67
- 2000E S/N 20A34



DewEze®



Cake Feeder Electrical Schematic



Door Operation Options

***Note: Do not operate feeder with parts from both method one and two installed at the same time. Failure will result.

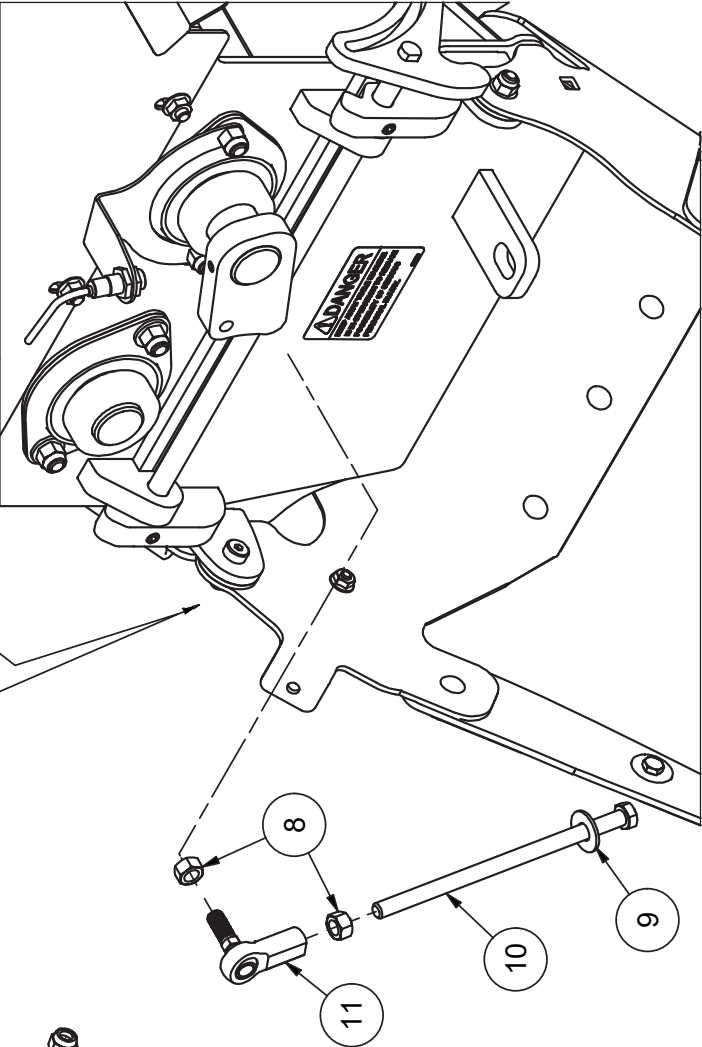
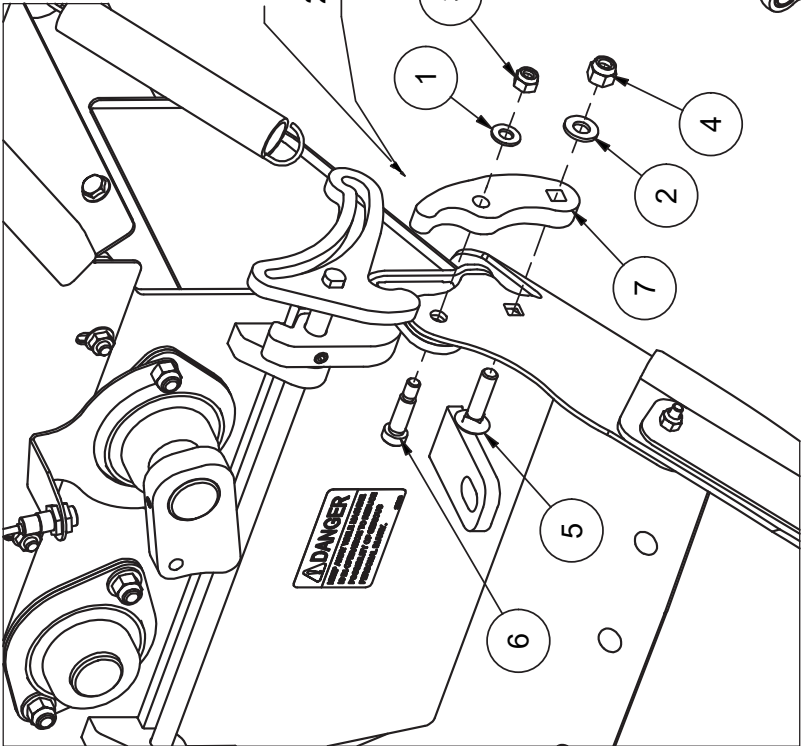
Parts for method two are installed from the factory

Method One

205134

Method Two

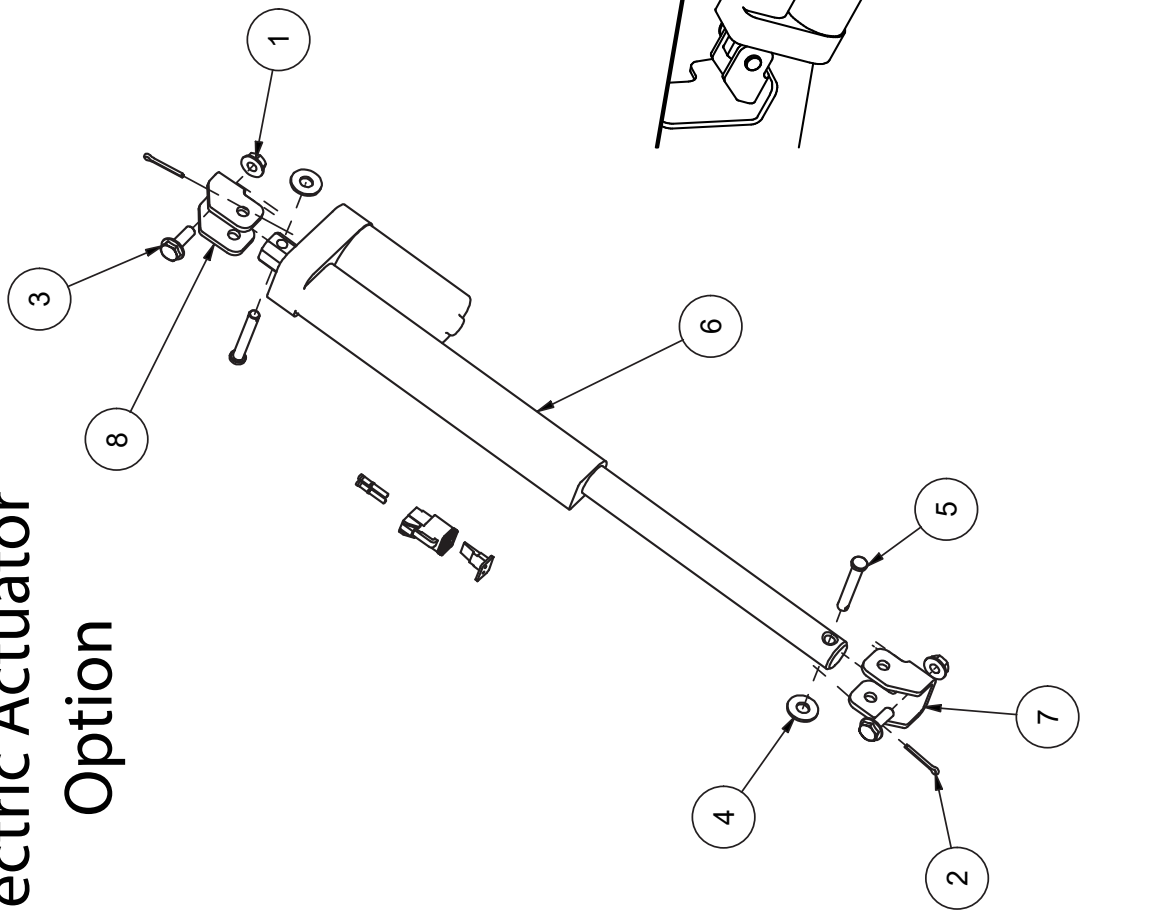
205135



Parts List		
ITEM	QTY	DESCRIPTION
1	1	Kit, BeefCake Manual Door Kicker
2	1	WASHER, 5/16" FLAT SAE
3	1	WASHER, 3/8" FLAT SAE
4	1	NUT, 5/16-18 LOCK (NYLON)
5	1	NUT, 3/8-16 LOCK NYLON INSERT
6	1	Bolt, 3/8-16 X 1.5 in Carriage
7	1	BOLT, 3/8 X 1.0 SHOULDER SHCS
8	2	Manual Door Kicker
9	1	Kit, BeefCake Ball Joint
10	1	NUT, 3/8-24
11	1	WASHER, 3/8" FLAT STANDARD
		Bolt, 3/8-24 X 7.0
		Ball Joint Linkage, 3/8-24 RH

Electric Actuator Option

235029		REV: A	
Parts List			
ITEM	QTY	PART #	DESCRIPTION
1	2	110290	NUT, 1/4-20 WIZ FLANGE
2	2	110300	COTTER PIN, 3/32 X 0.75
3	2	110468	BOLT, 1/4-20 X 0.75, WIZ FLANGE
4	2	110673	WASHER, 1/4" FLAT STANDARD
5	2	112095	CLEVIS PIN, STD ZP 1/4 X 1 5/8
6	1	235028	Actuator, 5.9", With Plug
7	1	270135	TOOL BOX DOOR HINGE, OUTER HALF
8	1	270139	TOOL BOX DOOR HINGE, INNER HALF



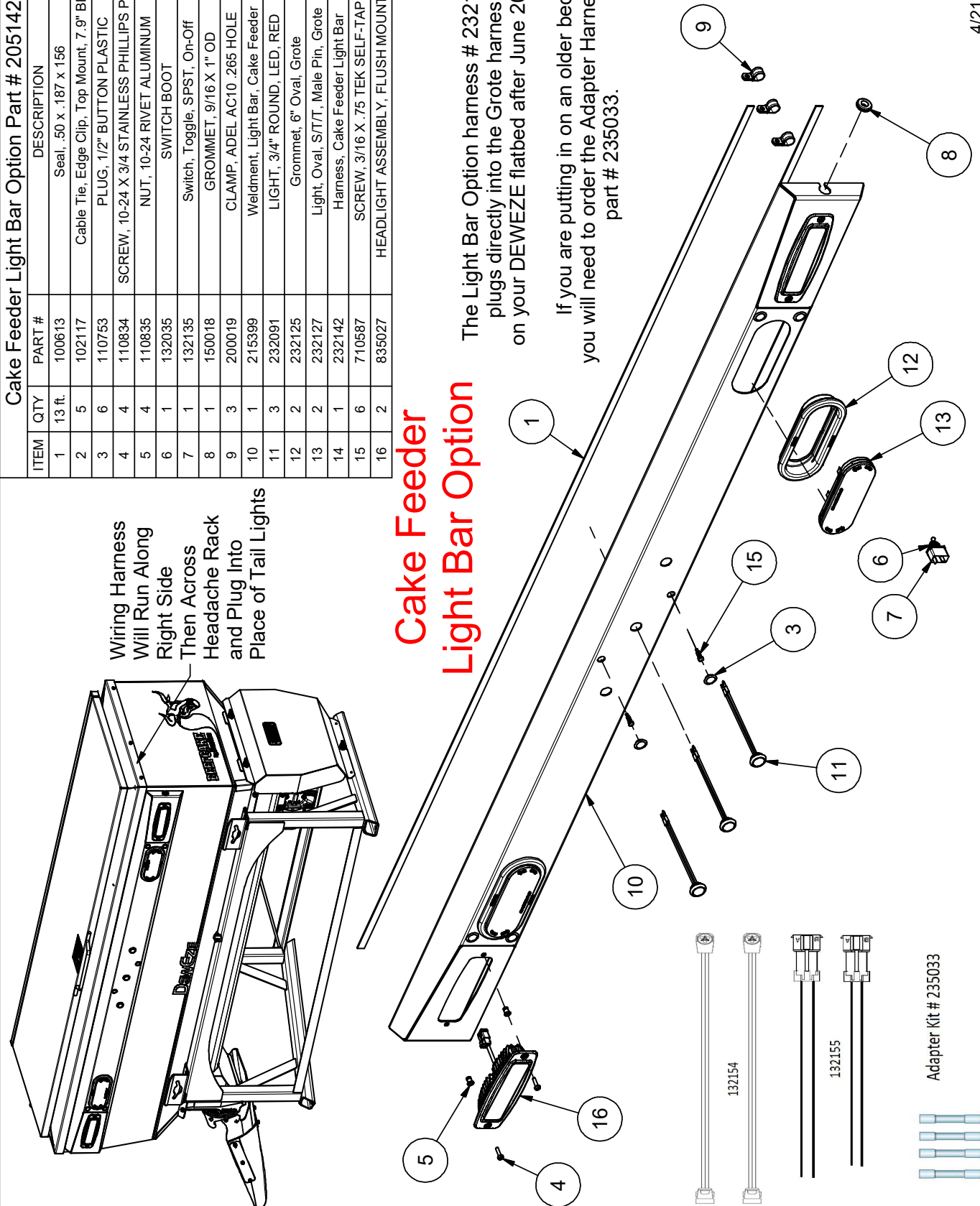
Cake Feeder Light Bar Option Part # 205142		
ITEM	QTY	PART #
1	13 ft.	100613
2	5	102117
3	6	110753
4	4	110834
5	4	110835
6	1	132035
7	1	132135
8	1	150018
9	3	200019
10	1	215399
11	3	232091
12	2	232125
13	2	232127
14	1	232142
15	6	710587
16	2	835027
DESCRIPTION		
Seal, .50 x .187 x 156		
Cable Tie, Edge Clip, Top Mount, 7.9" Black		
PLUG, 1/2" BUTTON PLASTIC		
SCREW, 10-24 X 3/4 STAINLESS PHILLIPS PAN HEAD		
NUT, 10-24 RIVET ALUMINUM		
SWITCH BOOT		
Switch, Toggle, SPST, On-Off		
GROMMET, 9/16 X 1" OD		
CLAMP, ADEL AC10 .265 HOLE		
Weldment, Light Bar, Cake Feeder		
LIGHT, 3/4" ROUND, LED, RED		
Grommet, 6" Oval, Grote		
Light, Oval, S/T/T, Male Pin, Grote		
Harness, Cake Feeder Light Bar		
SCREW, 3/16 X .75 TEK SELF-TAP		
HEADLIGHT ASSEMBLY, FLUSH MOUNT LED		

Wiring Harness
Will Run Along
Right Side
Then Across
Headache Rack
and Plug Into
Place of Tail Lights

Cake Feeder
Light Bar Option

The Light Bar Option harness # 232142
plugs directly into the Grote harness
on your DEWEZE flatbed after June 2018.

If you are putting in on an older bed
you will need to order the Adapter Harness Kit
part # 235033.



Adapter Kit # 235033

NOTES

Harper Industries, Inc.
151 E. Highway 160
Harper, KS 67058

Telephone: 620-896-7381
Toll-Free: 800-835-1042
Fax: 620-896-7129

Website: www.harperindustries.com

E-mail: info@harperindustries.com

DewEze

Beefcake