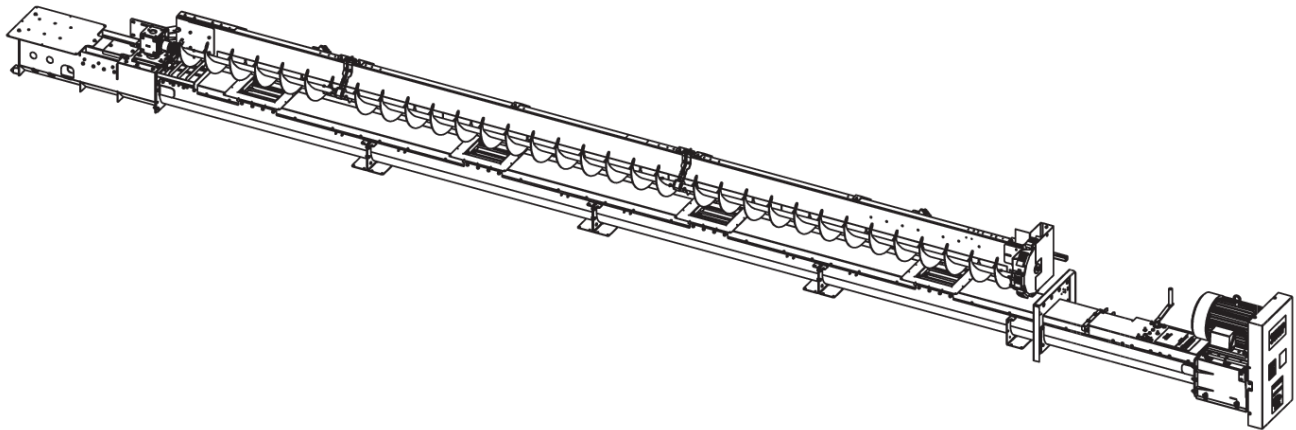




# U Trough Power Sweep with Extended Center Sump

## Owner's Installation & Operation Manual



### Sukup Manufacturing Co.

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| <u>DATE</u> | <u>REVISIONS</u>                                                                 | <u>PAGE</u>              |
|-------------|----------------------------------------------------------------------------------|--------------------------|
| 01/31/2020  | Updated bin sweep & scraper installation instructions .....                      | 13-16                    |
|             | Updated Cluster Buster installation instructions .....                           | 22-23                    |
|             | Updated statement on verifying suitability of bin for use with power sweep ..... | 24                       |
|             | Updated &/or added parts/assemblies drawings & parts lists .....                 | 26-27, 32, 34-36, 40, 42 |

## **INTRODUCTION**

Congratulations on your purchase of the Extended-Sump U Trough Power Sweep. This product was designed, built and tested to assure highest quality and maximum life.

Read and study operator's manual carefully to learn how to safely service and operate your machine. Failure to do so could cause personal injury or equipment damage.

For easy reference, fill in the following information:

Bin diameter: \_\_\_\_\_

Drive motor hp: \_\_\_\_\_

Date of U-Trough purchase: \_\_\_\_\_

**DISCLAIMER:** Bin sweeps will vary in performance based on grain condition and condition of bin floor. Any capacities provided by Sukup Manufacturing Co. are based on dry, clean corn and ideal conditions. It may take two passes over a given area to remove grain, with a layer of grain remaining on floor afterward.

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### **GRAIN HANDLING & MATERIAL HANDLING LIMITED WARRANTY**

**SUKUP MANUFACTURING CO. (Sukup)** warrants to original retail purchaser that within time limits set forth, new equipment shall be free from defects in material and workmanship. A part will not be considered defective if it substantially fulfills performance specifications, such as cosmetic (appearance) issues that will not affect life of product. Should any part prove defective within the warranty period, the part will be replaced without charge F.O.B. Sukup Manufacturing Co., Sheffield, Iowa USA or Distribution Centers - Arcola, Illinois; Aurora, Nebraska; Defiance, Ohio; Jonesboro, Arkansas; Cameron, Missouri; Watertown, South Dakota. To obtain warranty, a copy of original invoice is required, see reverse side.

**THE FOREGOING LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE AND OF ANY OTHER TYPE, WHETHER EXPRESS OR IMPLIED.** Sukup neither assumes nor authorizes anyone to assume for it any other obligation or liability in connection with said part, and will not be liable for incidental or consequential damages. THE REMEDIES STATED HEREIN SHALL BE THE EXCLUSIVE REMEDIES AVAILABLE UNDER THIS LIMITED WARRANTY.

Sukup reserves the right to change specifications, add improvements or discontinue manufacture of any of its equipment without notice or obligation to purchasers of its equipment. This warranty gives you specific legal rights. You may also have other rights which vary according to state or province.

**WARRANTY EXCLUSIONS** - Labor, transportation, or any cost related to a service call is not provided by Sukup. This Limited Warranty does not apply to damage resulting from misuse, neglect, normal wear, accident or improper installation or maintenance. ITEMS NOT MANUFACTURED BY SUKUP (e.g. tires, belts, motors) ARE COVERED UNDER WARRANTIES OF THEIR RESPECTIVE MANUFACTURERS AND ARE EXCLUDED FROM COVERAGE UNDER THE SUKUP WARRANTY. Since the stirring down augers are so critical to the successful operation of the stirring machine, Sukup Manufacturing Co. will not warranty any machines unless they are equipped with Sukup down augers. SUKUP MANUFACTURING CO. MAKES NO WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO DOWN AUGERS LONGER THAN 20', INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY AND WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Upon taking delivery of product, purchaser (dealer and/or end user) assumes responsibility for proper storage of all materials. Proper storage includes dry, temperature and humidity controlled facilities, which eliminate the potential of moisture, including condensation, from causing white rust and/or corrosion of any sort. Warranty does not extend to defects, damage or cosmetic (appearance) issues caused by improper storage, handling or erection.

**BASIC WARRANTY** - All Sukup manufactured products are warranted for one year from date of purchase. Part(s) must be returned to Sukup within 30 days in event of failure.

**EXTENDED STIRRING MACHINE WARRANTY** - Sukup warrants stirring machines for two years from date of purchase.

**EXTENDED STIRRING AUGER WARRANTY** - Sukup warrants stirring down augers for two years from date of purchase. Must return top 18" of down auger to obtain credit.

**EXTENDED FAN WARRANTY** - Sukup warrants fans for two years from date of purchase.

**EXTENDED HEATER CIRCUIT BOARD WARRANTY** - Sukup warrants heater circuit boards for three years from date of purchase.

**EXTENDED MATERIAL HANDLING WARRANTY** - Sukup warrants Material Handling, excluding structural support systems, for two years from date of purchase.

**REPLACEMENT PARTS WARRANTY PERIOD** - Sukup warrants replacement parts (e.g. belts, sensors, rotating contacts, gearmotors, switches) purchased from Sukup for one (1) full drying season following purchase.

**ELECTRIC MOTOR WARRANTY** - The manufacturers of electric motors warranty their motors through authorized service centers for a 2 year period from motor date code. Contact motor manufacturer for nearest location. If motor warranty is refused by a service center based upon date of manufacture, use the following procedure: Have motor repair shop fill out warranty report form as if they were providing warranty service. State on report reason for refusal. Send report, motor nameplate, and proof of purchase date (invoice from Sukup and invoice for your customer) to Sukup. If electric motor warranty is not satisfactorily handled by motor service center, contact Sukup for assistance. Sukup will attempt to obtain warranty from motor manufacturer, any credit obtained will be passed on. Warranty may also be obtained by returning motor to Sukup Manufacturing Co. or Distribution Centers with prior authorization. **NOTE:** Sukup will not be responsible for unauthorized motor replacement or repair. Labor for removal of motor from fan not included.

**WARRANTY CERTIFICATION** - Warranty registration card should be mailed within one month of product delivery to certify warranty coverage.

**UNAPPROVED PARTS OR MODIFICATION** - All obligations of Sukup under this warranty are terminated if unapproved parts such as stirring augers longer than 20' are used, or if equipment is modified or altered in any way not approved by Sukup.

## Safety



Read manual before installing or using product. Failure to follow instructions and safety precautions in manual can result in death or serious injury. Keep manual in a safe location for future reference.



On safety decals, this symbol and the signal words Danger, Warning, Caution and Notice draw your attention to important instructions regarding safety. They indicate potential hazards and levels of intensity.



**DANGER**

RED - **DANGER** indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



**WARNING**

ORANGE - **WARNING** indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



**CAUTION**

YELLOW - **CAUTION** indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



**NOTICE**

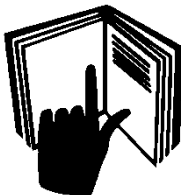
BLUE - **NOTICE** alerts you to practices unrelated to personal injury, such as messages related to property damage.

**IMPORTANT:** To prevent serious injury or death to you or your family, it is essential that safety decals are clearly visible, in good condition, and applied to the appropriate equipment.

### FOLLOW MANUAL & SAFETY DECAL MESSAGES

Carefully read this manual and all safety decals on your equipment. Safety decals must be kept in good condition. Replace missing or damaged safety decals by contacting Sukup

Manufacturing Co. via mail at PO Box 677, Sheffield, Iowa USA, 50475; by phone at 641-892-4222; or by e-mail at [info@sukup.com](mailto:info@sukup.com).



It is the responsibility of the owner/operator to know what specific requirements, precautions, and work hazards exist. It is also the responsibility of the owner/operator to inform anyone operating or working in the area of this equipment of hazards and safety precautions that need to be taken to avoid personal injury or death. Always keep children away from bins and vehicles with flowing grain.

Make no unauthorized modifications to machine. Modifications may endanger function and/or safety of unit. Keep unit in good working condition. Keep shields in place. Replace worn or missing shields free of charge by contacting Sukup Manufacturing Co.

### GRAIN BIN SAFETY

Owners/operators are responsible for developing site-specific confined space entry procedures. OSHA's confined space entry procedures (29CFR 1910.146) can be found at [www.osha.gov](http://www.osha.gov).

#### If you must enter bin for repair or maintenance:

- Use a safety harness, safety line and respirator
- Station another person outside of bin
- Avoid the center of the bin
- Wear appropriate personal protective equipment
- Keep clear of all augers and moving parts



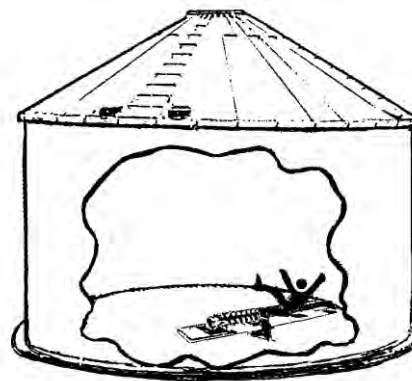
**DANGER:** Never enter bin unless all power is locked out and another person is present.



**Rotating augers can kill or dismember!**

#### NEVER enter bin when augers are running!

When bin is nearly empty, sweep auger will travel at an increasingly fast speed. Keep away from sweep and sump augers to avoid entanglement.

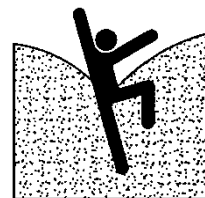


Failure to follow precautions above will result in death or serious injury.



**DANGER:** Flowing grain may trap and suffocate. If you enter a bin of flowing grain you can be completely submerged in grain in about 8 seconds.

Failure to heed this warning will result in death or serious injury.



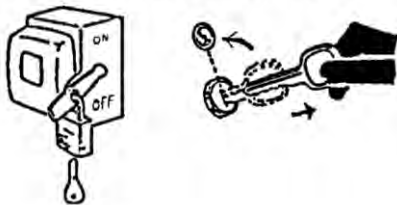
## Safety

To avoid electric shock or electrocution, all equipment must be properly wired and grounded according to electrical codes. Have unit wired by qualified electrician.



Have an electrician install a main power disconnect switch capable of being locked only in OFF position. Mark disconnect clearly as to equipment it operates. Always lock out main power disconnect switch whenever equipment is not in use.

### Service Disconnect



**WARNING:** When servicing equipment, never enter bin unless all power is locked out and another person is present. Always LOCK OUT all power and always check with voltage meter before servicing.

Failure to do so could result in death or serious injury.

Owners/operators are responsible for developing site-specific Lockout/Tagout procedures based on equipment at their work site. See OSHA's typical minimal lockout procedures (29CFR 1910.147 App A) at [www.osha.gov](http://www.osha.gov).



### WARNING: KEEP CLEAR OF ALL MOVING PARTS.

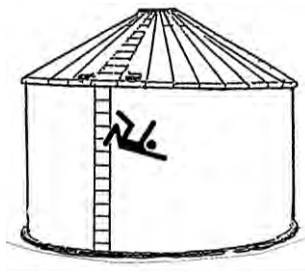
Keep people (ESPECIALLY YOUTH) away from equipment, particularly during operation.

Keep away from all moving parts. Keep all shields in place. **SHUT OFF AND LOCK OUT** all power before servicing.

Failure to follow precautions above could result in death or serious injury.



**WARNING:** Metal is slippery when wet. To avoid falls, never carry items if climbing on bin. Maintain secure hand and foothold if climbing on bin. Failure to do so could result in death or serious injury.



**CAUTION:** Metal edges are sharp. To avoid injury, wear protective clothing and handle equipment and parts with care.

Failure to do so may result in minor or moderate injury.

## PERSONAL PROTECTIVE EQUIPMENT



Owners/Operators are responsible for developing site-specific personal protective equipment standards. OSHA's personal protective equipment standards (29CFR 1910.132) can be found at [www.osha.gov](http://www.osha.gov).

## EMERGENCIES – KNOW WHAT TO DO

Have emergency numbers and written directions to work site readily available in case of emergency. An area for emergency phone numbers to be recorded is provided below and at the end of this manual.

### Ambulance • Fire • Police: 9-1-1

Bin rescue team: \_\_\_\_\_

Emergency medical squad: \_\_\_\_\_

Address of work site: \_\_\_\_\_

Directions to work site: \_\_\_\_\_

## Safety Decals for U-Trough Power Sweep

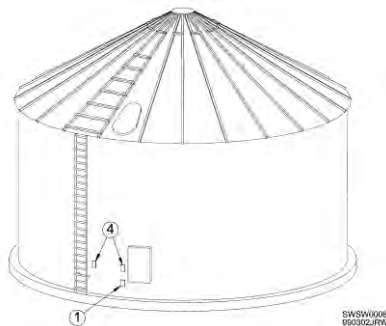
Safety decals should be mounted on your equipment as shown in this safety section. Yearly and prior to equipment use, check that all decals and shields are in place and legible.

To order a replacement decal or shield at no charge, contact your dealer or Sukup Manufacturing Co., Box 677, Sheffield, IA USA 50475. If replacement is necessary, make sure location for decal is free from grease, oil and dirt. Remove backing from decal and place in proper position.

Decals 1-6 are factory-mounted. Additional copies of decals 1 and 4 are shipped with this manual in separate packet #A3399 and have mounting instructions inside packet.

**IMPORTANT:** If suggested locations are not clearly visible, place safety decals in a more suitable area. Never cover up any existing safety decals.

1. **DECAL L0281 – WARNING:** To avoid serious injury or death. **Mount this decal** on bin sheet near door handle.



2. **DECAL L0271 - DANGER:** Shield missing. Do not operate!



3. **DECAL L0284 – WARNING:** Keep away from all moving parts.



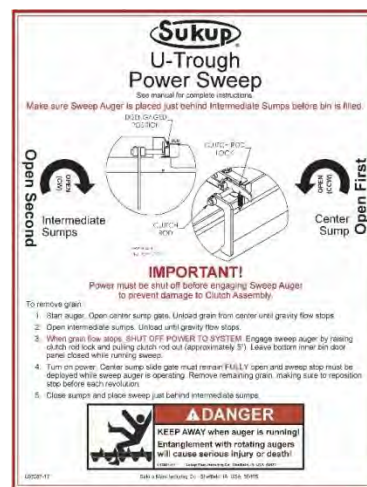
4. **DECAL L0258A – DANGER:** Do not enter this bin! Keep clear of all augers. **Mount this decal** on bin sheet near door handle and near ladder leading to roof.



5. **DECAL L03061 – DANGER:** Keep away when auger is running!

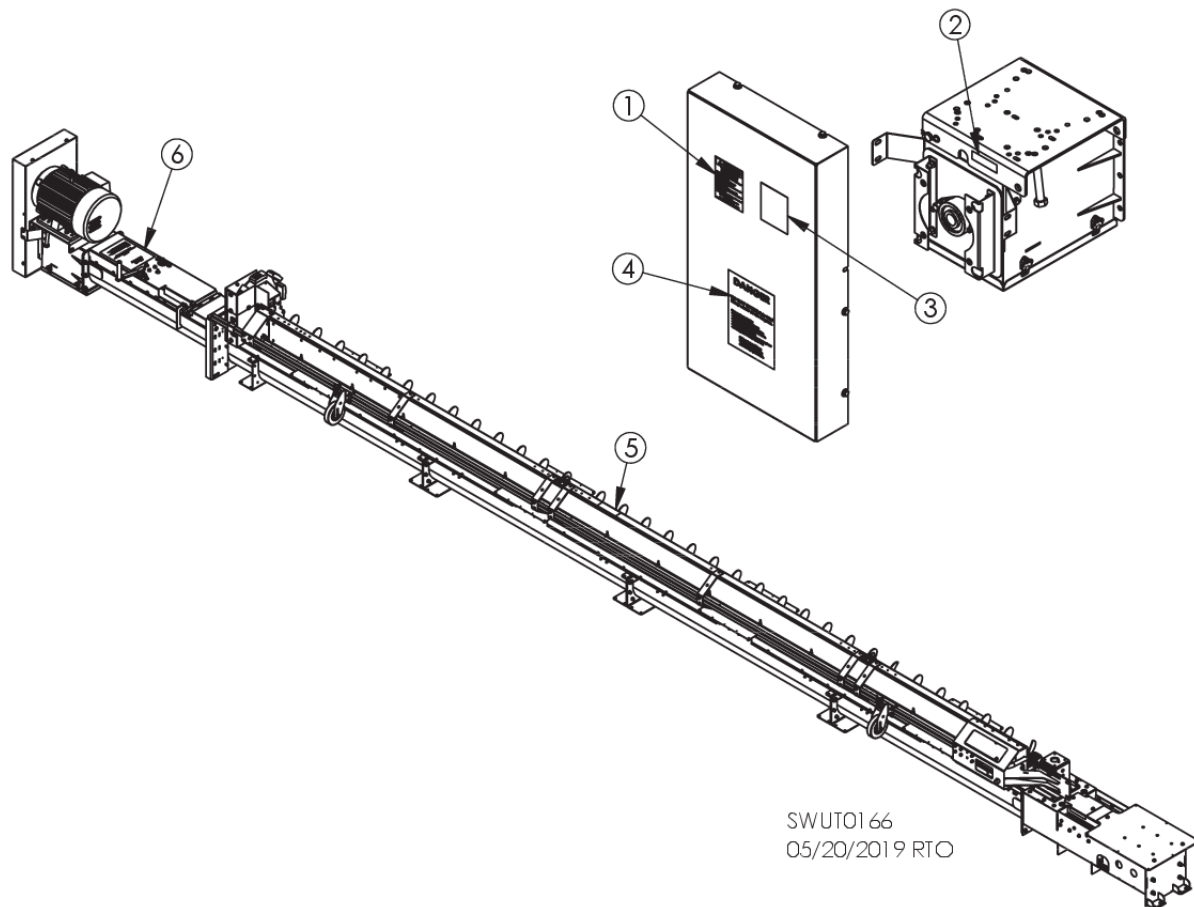


6. **L03287 – Instructional sticker** for U-Trough Power Sweep. For placement, see drawing on next page.



### Decal Placement for U-Trough Power Sweep

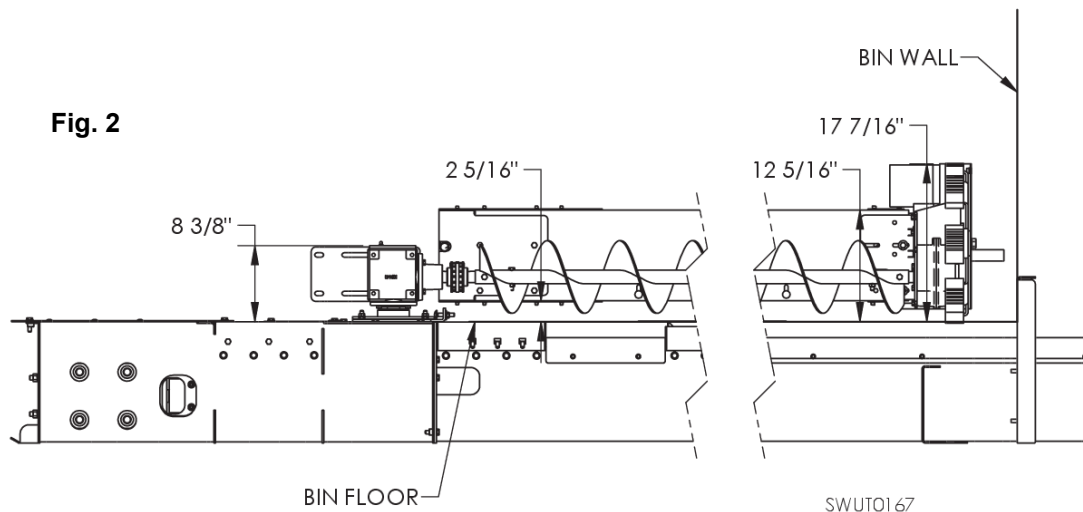
Fig. 1 shows placement of safety decals and instructional sticker for U-Trough Power Sweep with extended center sump.



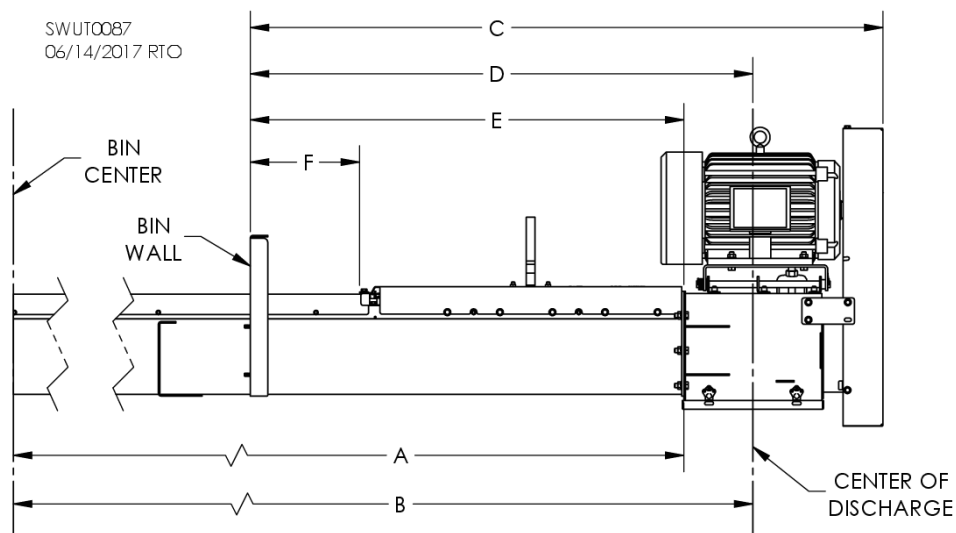
**Fig. 1**

### DIMENSIONS

See Fig. 2 for dimensions of U-Trough Power Sweep with extended center sump.



See Fig. 3 and Table 1 for dimensions of horizontal powerhead.



**Fig. 3 & Table 1 – Powerhead dimensions**

**IMPORTANT:** Dimensions are based on nominal bin diameters listed and provide approximate measurements (+ or - 1") for planning and layout purposes.

| POWERHEAD<br>DIMENSIONS |     |     |    |    |    |    |
|-------------------------|-----|-----|----|----|----|----|
| BIN DIA.                | A   | B   | C  | D  | E  | F  |
| 24                      | 192 | 200 | 72 | 57 | 49 | 12 |
| 27                      | 210 | 218 | 72 | 57 | 49 | 12 |
| 30                      | 228 | 236 | 72 | 57 | 49 | 12 |
| 33                      | 246 | 254 | 72 | 57 | 49 | 12 |
| 36                      | 264 | 272 | 72 | 57 | 49 | 12 |
| 42                      | 300 | 308 | 72 | 57 | 49 | 12 |
| 48                      | 336 | 344 | 72 | 58 | 50 | 13 |
| 54                      | 372 | 380 | 73 | 58 | 50 | 13 |
| 60                      | 408 | 416 | 73 | 58 | 50 | 13 |

## Dimensions

See Fig. 4 for dimensions of 20° incline powerhead.

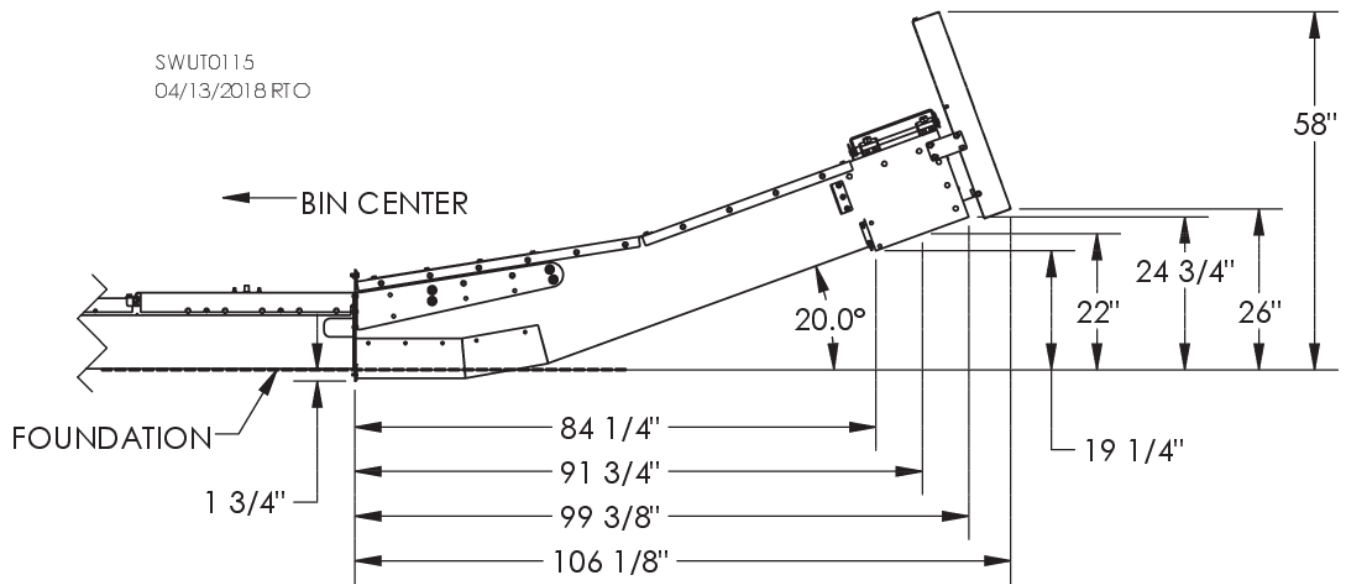


Fig. 4 – 20° incline powerhead dimensions

## PREPARATION / INSTALLATION

U-Trough is designed to be installed under a steel aeration floor, but may be installed in a bin with a concrete floor and trench as shown in Fig. 5. Instructions are provided for both types of floor. In either case, the first step is to determine from which side of bin grain will be unloaded.

U-Trough must have unobstructed path to center sump, and center of top gearbox must be in exact center of bin as shown in Fig. 5. Locate center of bin by taking several measurements.

### For installation in concrete trench:

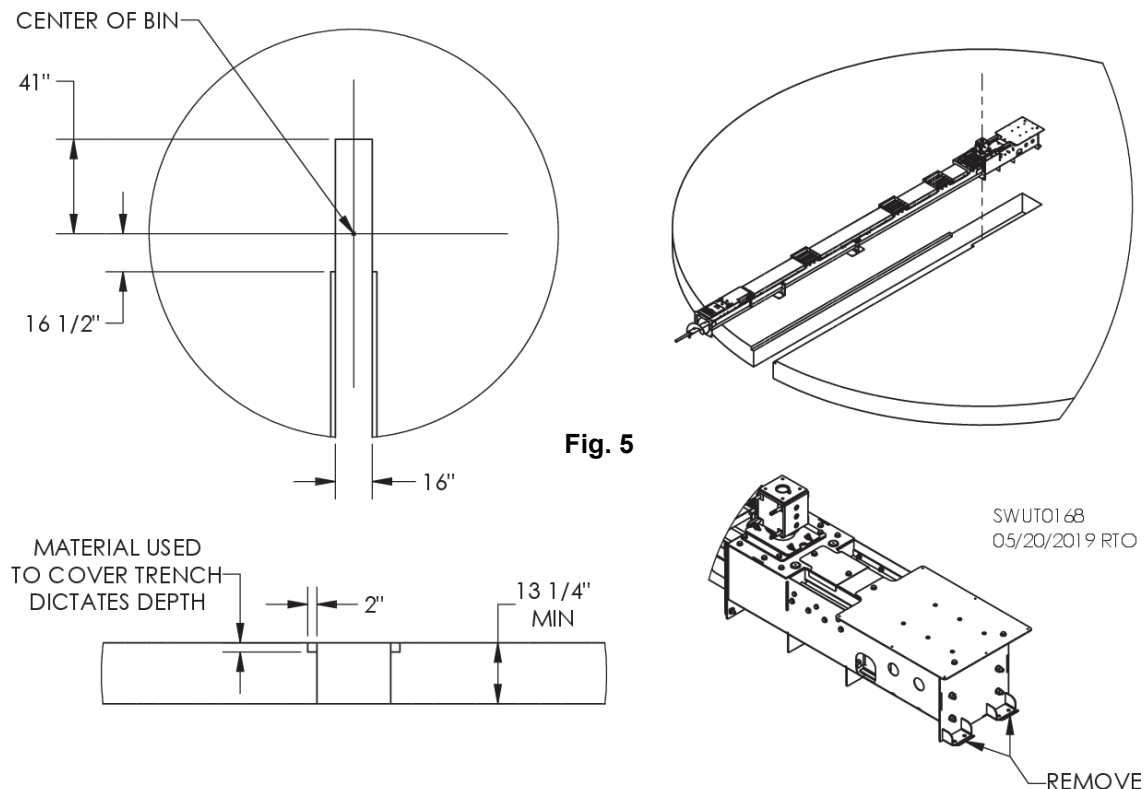
Ensure trench meets dimensions shown in Fig. 5. Trench must be formed when foundation is poured.

Use a cut-off wheel to remove rear tabs as shown in Fig. 5 to allow flush fit between concrete and center sump.

Position U-Trough as shown in Fig. 5 so top of gearbox is at exact center.

**IMPORTANT:** Ensure U-Trough is level and parallel with top of floor. Use shims if needed.

A two-piece metal plate may need to be field-fabricated and placed around U-Trough for attachment of bin collar. Plate will be located inside of bin collar and attached to foundation and bin wall.



### For installation in full aeration floor:

**NOTE:** If installing in existing bin with a full aeration floor, it may be necessary to remove about half of floor.

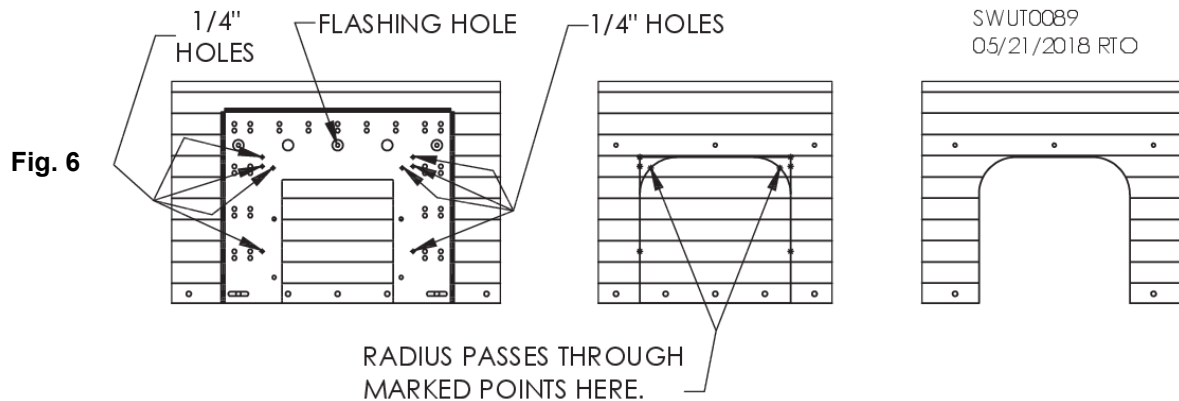
Before installation, check floor height:

Minimum plenum height required for installation of U-Trough is 13-1/4".

Maximum floor thickness is 1-3/4".

## Installation

Align center of bin collar with a flashing bolt above desired unloading location. See Fig. 6. Use collar's eight 1/4" holes to mark sidewall sheet. Remove collar and draw straight lines between markings. Cut hole in bin sheet using lines and radius markings. Cutout should be no larger than needed.



If floor has not previously been installed, install half of bin floor on side opposite of unload, minus 12 planks closest to center of bin. **NOTE:** Floor planks must run perpendicular to U-Trough.

### For installation in both floor types:

Bring U-Trough into bin, gearbox-end first. Slide powerhead end out of bin and position top gearbox in exact center of bin.

**NOTE:** If bin does not have a walk-through door, top gearbox must be removed and U-Trough must be slid in through hole in bin wall. To remove top gearbox, remove rear compartment cover and chain cover. See Fig. 7. Loosen gearbox support nuts and chain tensioning nut. Remove four mounting plate bolts. Push gearbox back, then pull up to remove. Once trough is inside of bin, reinstall top gearbox and position in exact center of bin.

Position upper and lower sections of bin collar around U-Trough as shown in Fig. 8 and use as templates for drilling bolt holes. Ensure bolt holes are on "hills" of bin sheet; field-drill new holes in collar pieces if needed. Apply caulk as needed, then attach upper collar to bin using 3/8" hardware provided in parts sacks BL59791 and BL5969. Secure lower section of bin collar to upper using 3/8" self-drilling screws.

Fig. 7 – Removing top gearbox

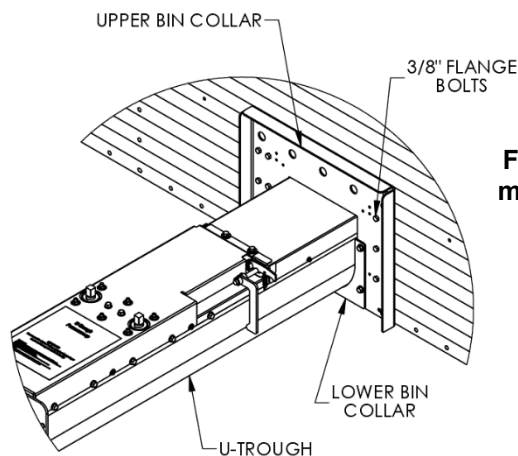
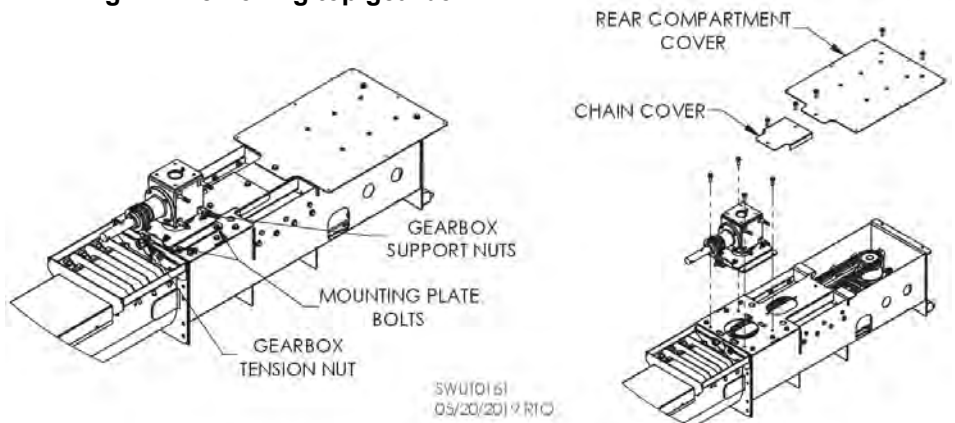
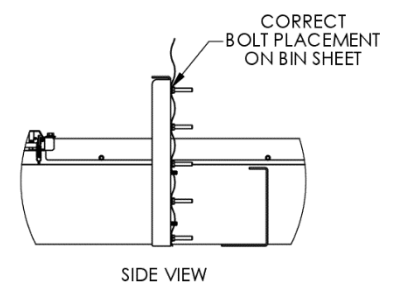


Fig. 8 – Bin collar sections mounted to bin & U-Trough



## Installation

Complete installation of bin floor. See flooring installation manual.

Install floor flashing. Sweep moves clockwise. Ensure that flashing is overlaid so sweep wheel “steps up.”

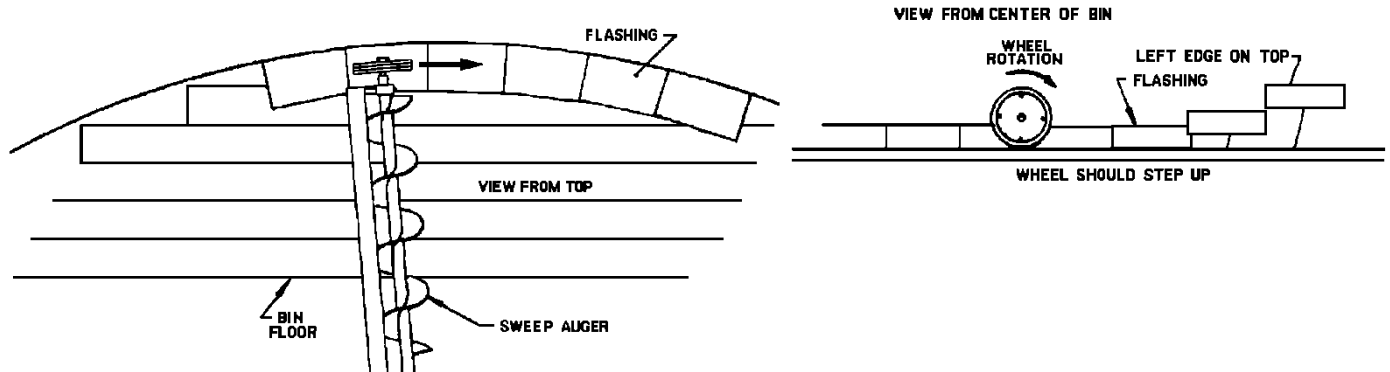


Fig. 9

Install sump flanges as shown in Fig. 10. Fasten to floor with self-drilling screws.

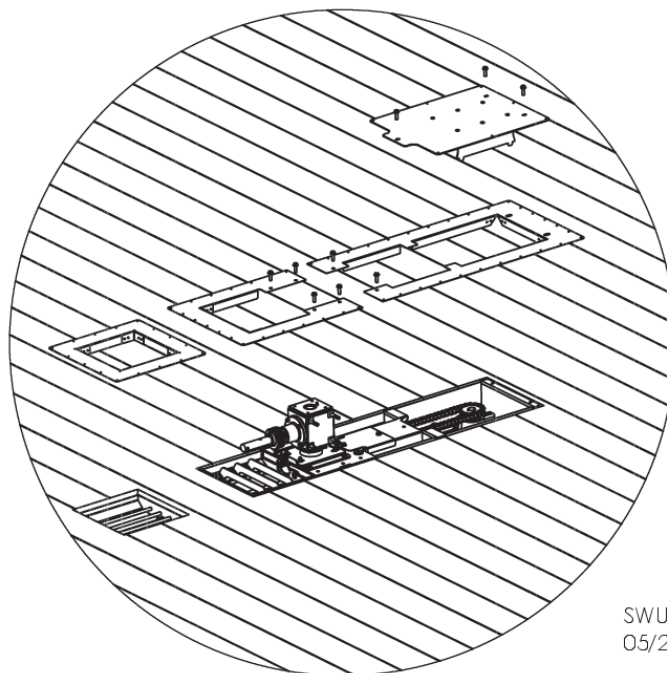
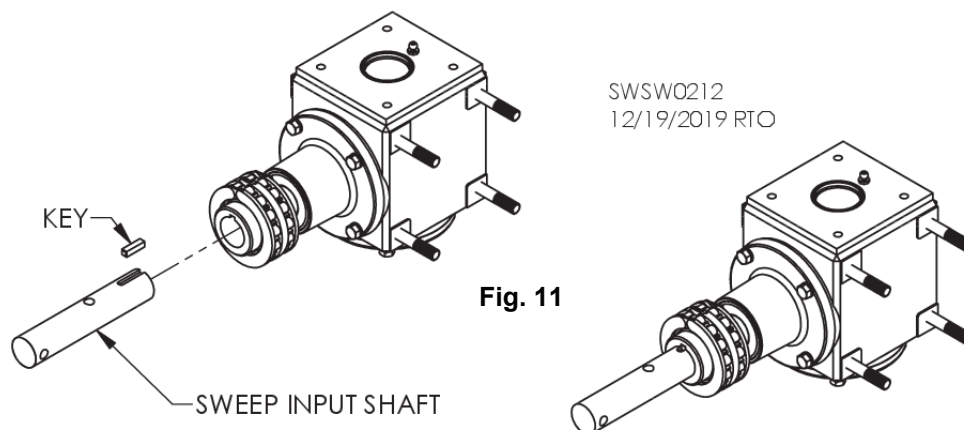


Fig. 10

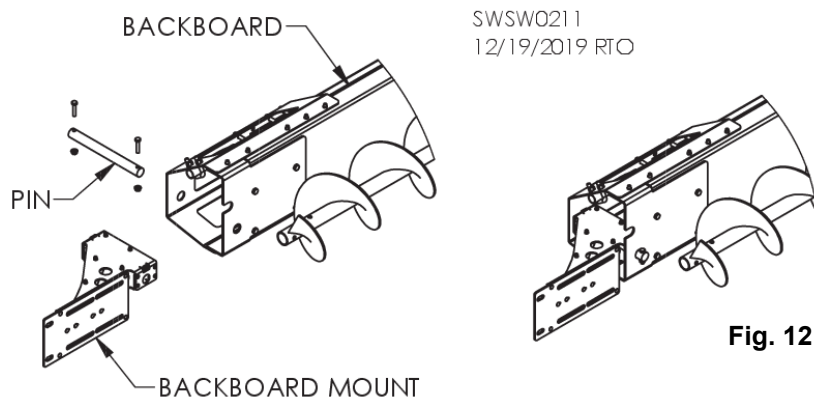
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### SWEEP INSTALLATION

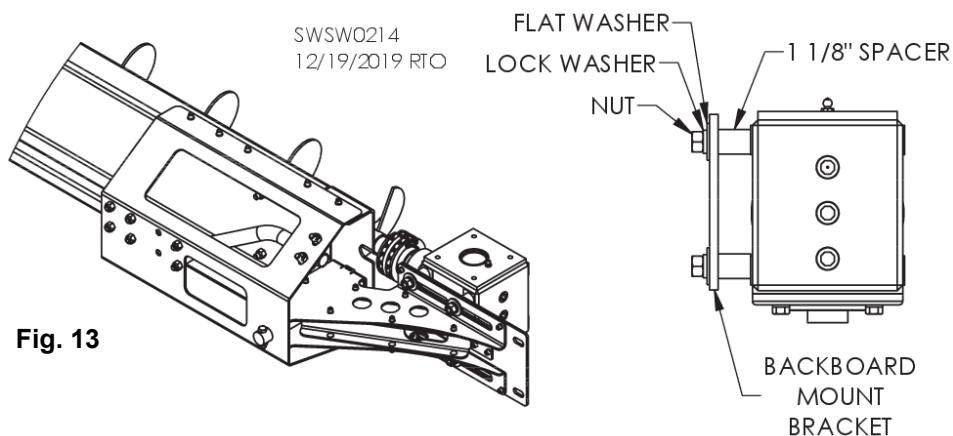
Start by attaching sweep input shaft to top gearbox. Insert 1/4" key into shaft and insert shaft 1" into sprocket. See Fig. 11. Tighten two (2) setscrews.



Line up 1" diameter holes in backboard with holes in backboard mount. See Fig. 12. Insert pin and secure it with two (2) 5/16" bolts, one on each end.



Attach backboard to top gearbox as shown in Fig. 13 using previously installed backboard mount bracket. Slide a 1-1/8" spacer over each stud protruding from gearbox, then slide studs through backboard mount bracket. Slide a flat washer over each stud and then a lock washer. Secure with 7/16" nut on each bolt.



## Installation

See drawings below for attachment of 17" drive wheel. Slide gearbox assembly shaft into auger as shown in Fig. 14. Secure with 3/8 x 2-1/4" bolts and 3/8" lock nuts. **NOTICE:** Ensure gearbox is straight. Failure to do so may cause auger tube to break.

Bolt gearbox assembly to backboard using 3/8 x 1" bolts, flat washers and flange nuts. See Fig. 14.

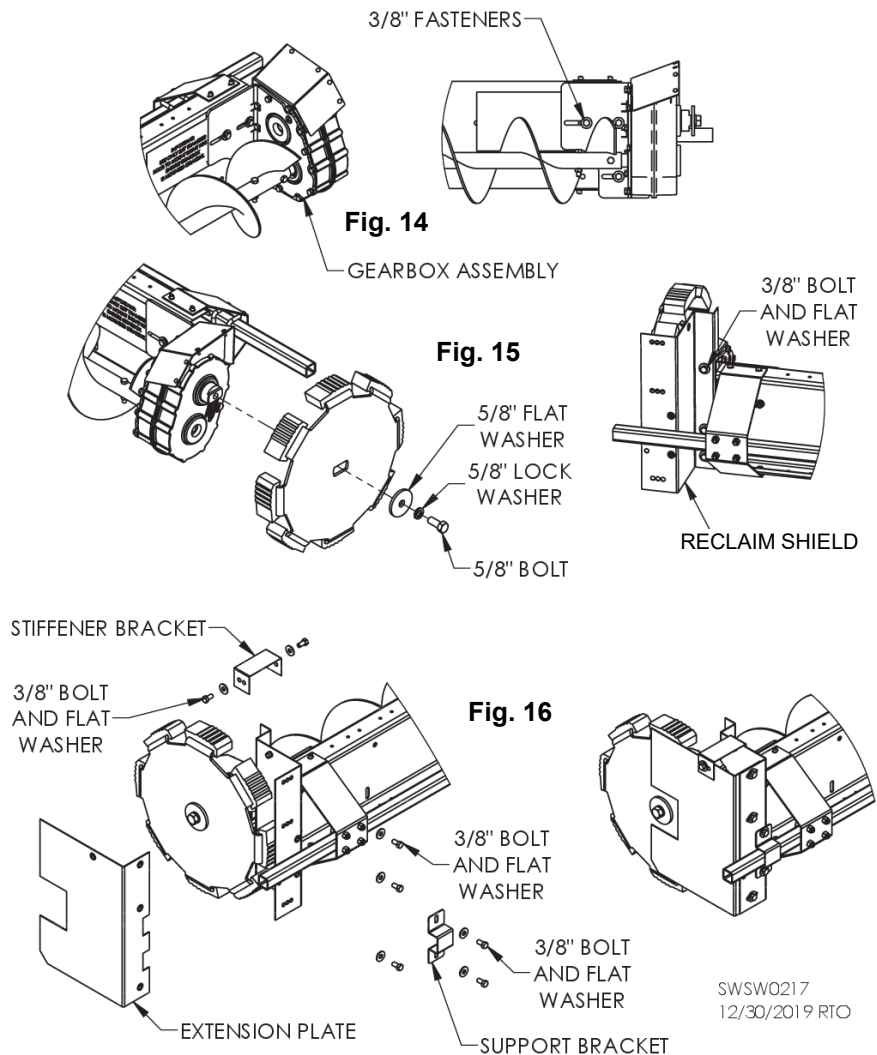
Remove 5/8" bolt from gearbox output shaft. Use it to attach drive wheel as shown in Fig. 15.

Attach grain reclaim shield as shown in Fig. 15 using 3/8 x 3/4" bolts, flat washers.

Attach extension plate, support bracket and stiffener bracket as shown in Fig. 16 using 3/8 x 3/4" bolts, flat washers.

**NOTE:** On reclaim shield there are three holes in each of the three sets of holes for mounting extension plate. Use the middle hole in each set.

**NOTE:** If bin has a stirring machine, trim its down-augers to avoid contact with sweep and 17" wheel. Minimum clearance from any object is 6".



Attach rear carrier wheel(s) to backboard as shown on Page 40. In bins 35' dia. and larger, attach one wheel about 3' from center of bin and one about 3' from drive wheel. In smaller bins, attach a single wheel near middle of backboard. **Ensure sumps will be missed by carrier wheel(s). Use orange stickers on backboard as a guide.**

### ATTACHING SWEEP STOP

Bolt sweep stop (E5514) to bin wall near door so it can be positioned without entering bin. Bottom of stop must be 1-1/2" from floor. Mount stop bracket to wall with four (4) 5/16 bolts w/ polyurethane washers, 5/16" fender washers and 5/16" flange nuts. **NOTE:** Flashing bolts can be used to mount bottom of bracket. Holes for top of bracket will have to be field-drilled.

Add sweep stop extension (E5515) as shown in Image 1 using two (2) 5/16" bolts and 5/16" flange nuts.

Image 2 shows sweep stop retracted to let sweep pass.

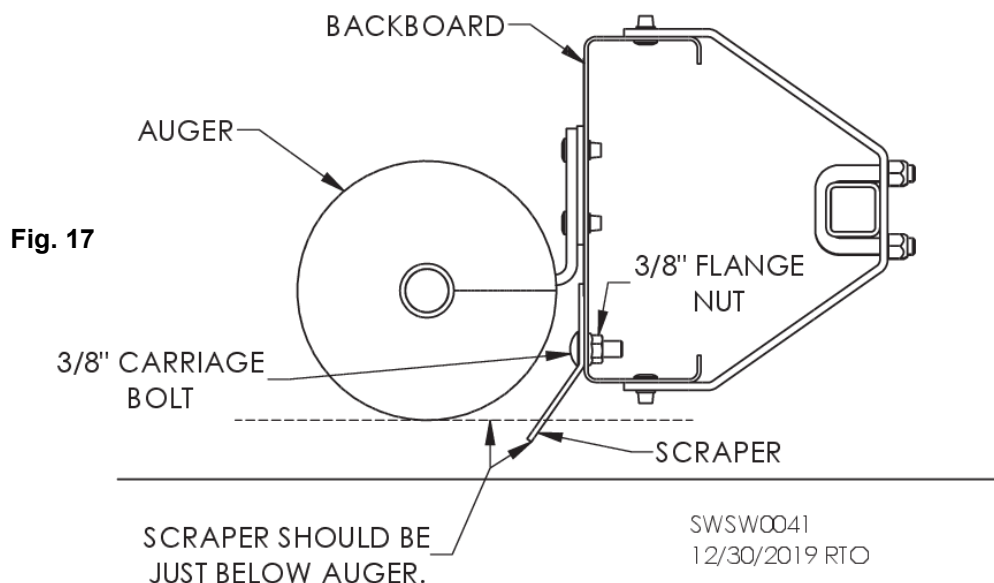


Image 1 – Sweep stop extension added for use with 17" drive wheel



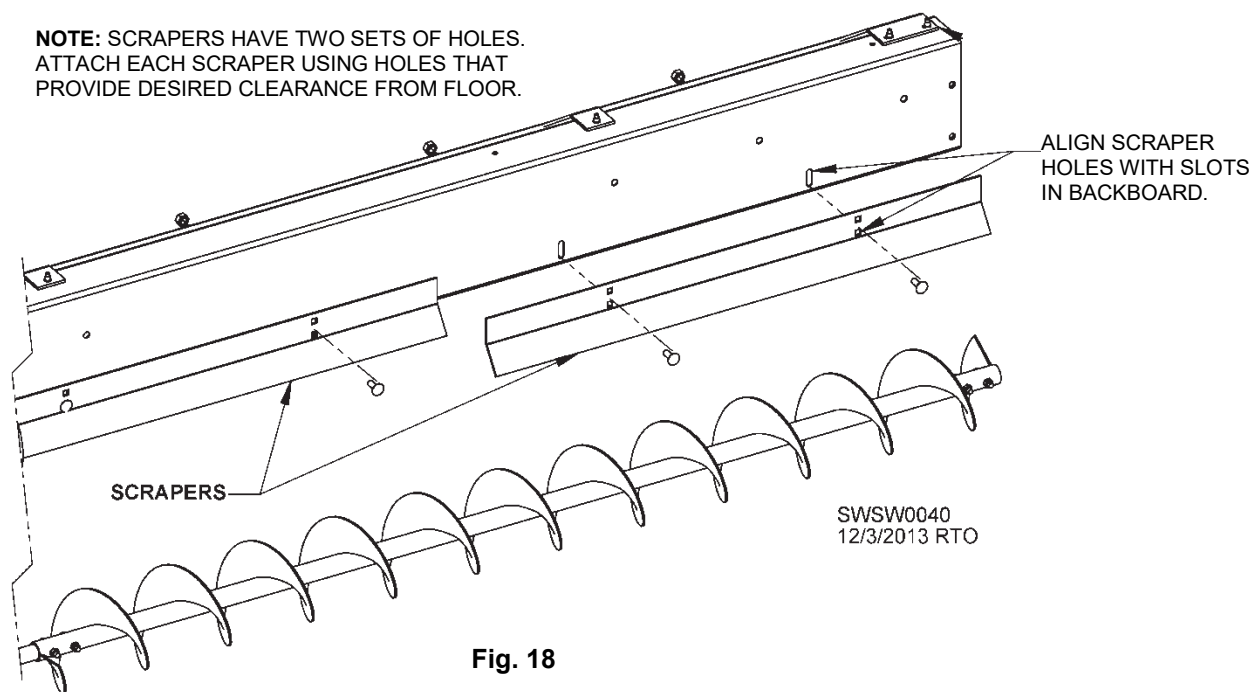
Image 2 – Sweep stop retracted

### BACKBOARD SCRAPER INSTALLATION



1. Attach scrapers to backboard using 3/8 x 1" carriage bolts, **with heads of bolts on auger side of backboard.** See Fig. 17. Place scraper's short side flat against backboard as shown and align scraper holes with slots. See Fig. 18. Adjust scraper sections so bottoms are just below auger as shown in Fig. 17. Tighten 3/8" flange nuts. **NOTE:** Setting scraper too low will limit forward travel of sweep auger and reduce unload capacity.

**NOTE:** SCRAPERS HAVE TWO SETS OF HOLES. ATTACH EACH SCRAPER USING HOLES THAT PROVIDE DESIRED CLEARANCE FROM FLOOR.



2. Continue attaching scraper sections on backboard until all are installed or until all visible slots in backboard have been filled. Scraper closest to center sump may only be 18" long depending on bin diameter. If an 18" section is used, it must be field-attached to inside end of backboard. All scraper sections provided may not be used. **NOTE:** If an 18" section of scraper is needed, it will be factory-attached to back of backboard. Remove and attach to front as directed.
3. Once all scrapers and all other equipment for bin have been installed, exit bin and engage sweep auger. Start unload system and allow sweep to make one complete revolution in bin to make sure there is nothing on floor that will catch on scrapers.



**DANGER: KEEP AWAY when auger is running. Entanglement with rotating auger will cause death or serious injury.**

4. If scrapers catch on anything, stop unload system and remove obstacle. If it cannot be removed, raise scraper section that was hitting obstacle until it clears. Back up sweep a couple feet, exit bin and resume test.
5. Once scrapers are adjusted so sweep can make its revolution in bin freely, shut power off and make sure scraper sections are tight. Once bin has been filled, floor and sweep may flex due to weight of grain. It may be necessary to adjust scrapers again. Make sure sweep auger is positioned just behind intermediate sumps.

## POWERHEAD OPTIONS

### Horizontal

1. Remove outer safety shield section from powerhead assembly. Slide lock collar onto auger shaft. Slide powerhead over flighting so unload auger shaft protrudes through flange bearing. Slide powerhead on completely so flanges butt against each other.
2. Remove discharge cover and attach powerhead to unload trough using three 1/2 x 1-1/4" screws on each side flange. See Fig. 19 and Table 2.
3. **IMPORTANT:** Slide locking collar over auger shaft protruding from powerhead and lock onto flange bearing. Tighten setscrew on locking collar. Tighten inner collar installed in Step 1.
4. Remove knockout in inner shield for 15-20hp motors.
5. Mount motor to motor mount plate. Use 1/2 x 1-3/4" bolts, nuts, lock washers and flat washers (in parts sack) for 15-20hp motors. Use 3/8 x 1-3/4" bolts, nuts, lock washers and flat washers for smaller motors.
6. Mount motor pulley onto motor shaft. Secure with key and setscrew, or with bushing if so equipped.
7. Attach large pulley to shaft extending from powerhead. Place 1/4" key in slot on pulley and align with keyway in unload shaft. Align pulleys and tighten setscrews on large pulley.
8. Place belts on pulleys. Adjust tension by turning bolt on bottom of motor mount. See Fig. 23 for proper adjustment of belt tension.
9. Place outer safety shield over pulley and tighten bolts. **KEEP SHIELD IN PLACE AT ALL TIMES!**
10. Reinstall discharge cover.

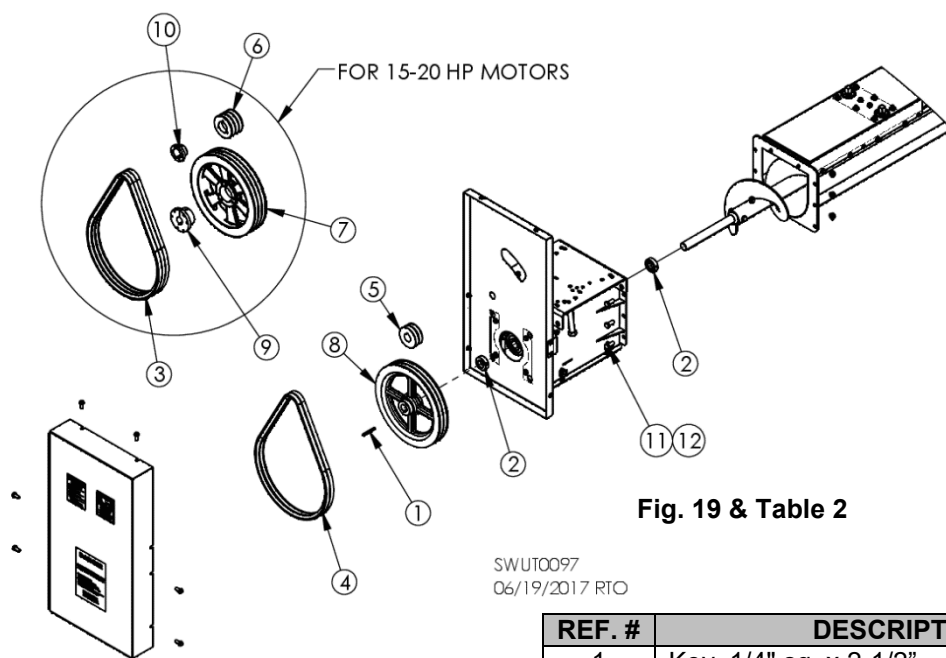


Fig. 19 & Table 2

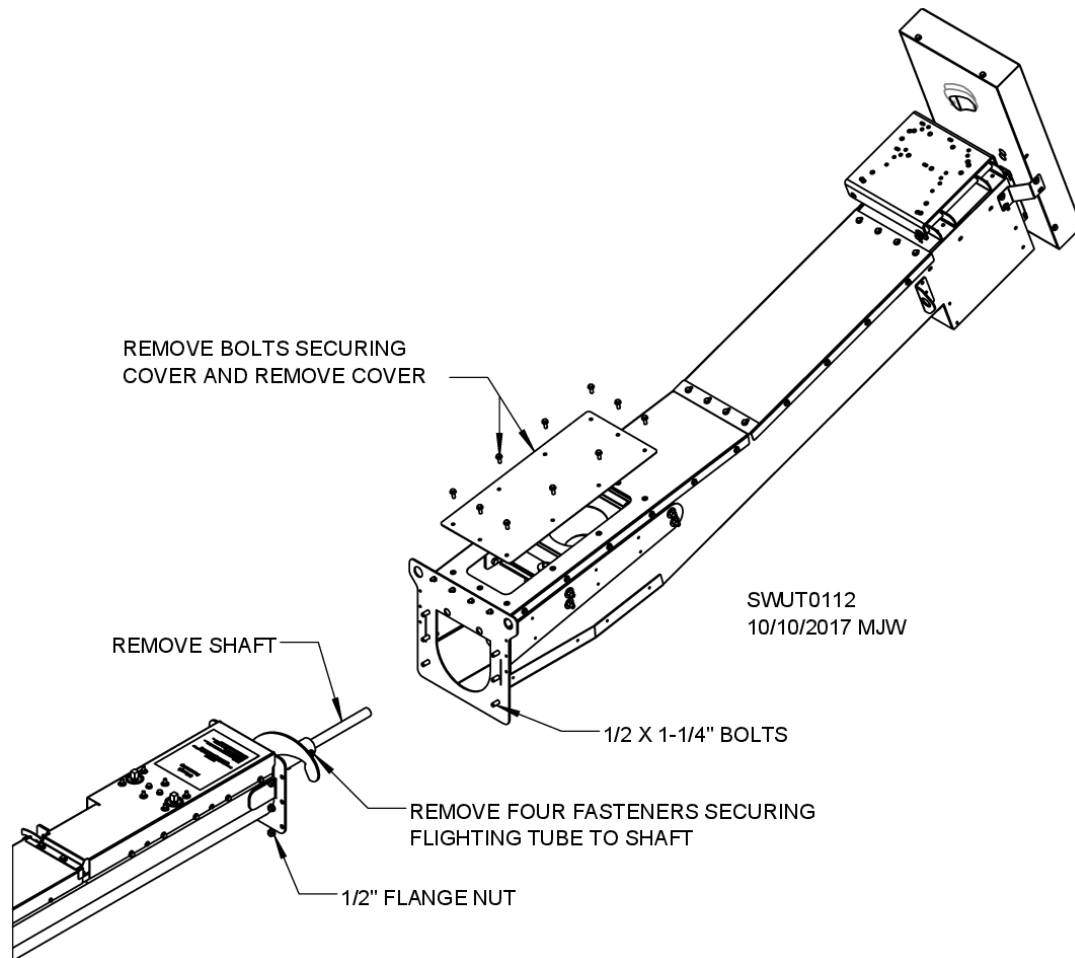
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\*See table on Page 43 for 3-1/2" pulley, depending on motor shaft dia.

| REF. # | DESCRIPTION                               | QTY. | PART # |
|--------|-------------------------------------------|------|--------|
| 1      | Key, 1/4" sq. x 2-1/2"                    | 1    | E5720  |
| 2      | Lock collar, 1-1/4"                       | 2    | J0068  |
| 3      | Belt, BX60                                | 3    | J0223  |
| 4      | Belt, BX58                                | 2    | J02361 |
| 5      | Pulley, 3-1/2" OD, 1-3/8" ID, double grv. | 1    | *      |
| 6      | Pulley, 3.4", 3B34SH                      | 1    | J0332  |
| 7      | Pulley, 13.6", 3B136SK                    | 1    | J0389  |
| 8      | Pulley, 14" OD, 1-1/4" ID, double grv.    | 1    | J03951 |
| 9      | Bushing, 1-1/4" ID, SK114                 | 1    | J0410  |
| 10     | Bushing, 1-5/8", SH158                    | 1    | J04242 |
| 11     | Screw, 1/2 - 13 x 1-1/4"                  | 6    | J0728  |
| 12     | Flange nut, 1/2" - 13                     | 6    | J10401 |

### Incline

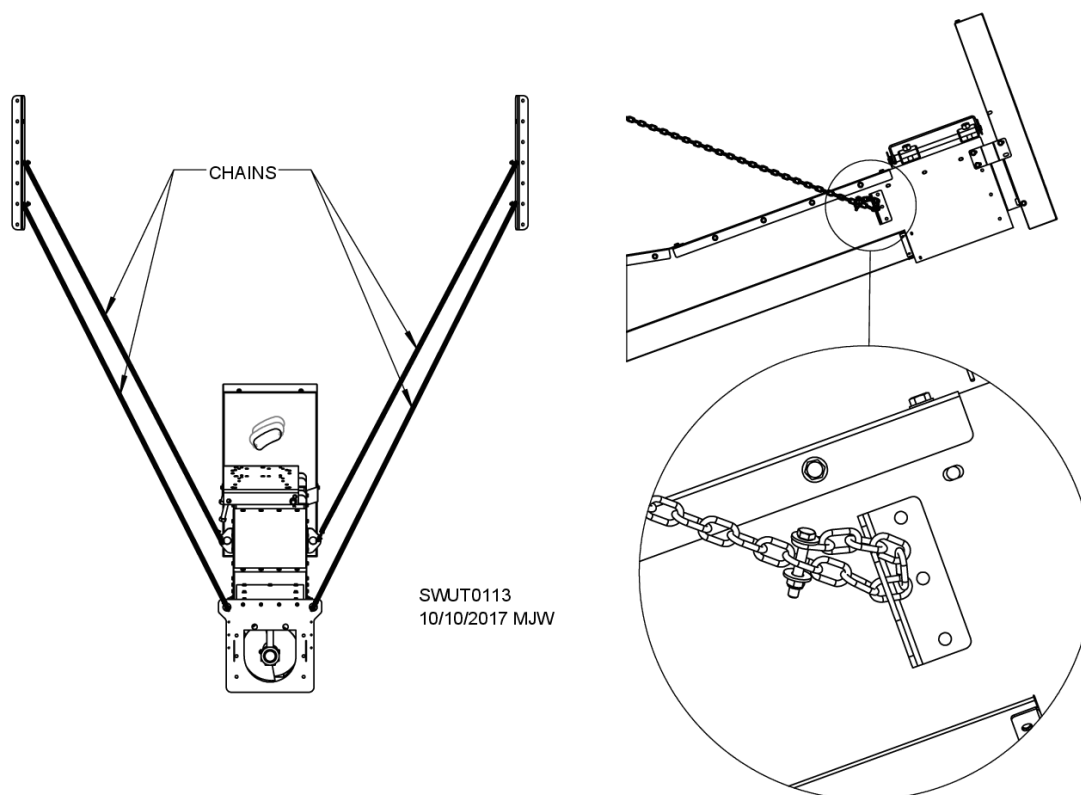
1. Remove shaft from end of unload auger. **NOTE:** Keep fasteners. They will be used later.
2. Remove cover as shown in Fig. 20 to allow access to incline input shaft.
3. Slide incline up to U-Trough and guide input shaft into unload auger. Provide temporary support.
4. Connect incline to trough using 1/2 - 13 x 1-1/4" bolts as shown in Fig. 20.
5. Secure incline shaft to auger using previously removed bolts. Reinstall cover.



**Fig. 20 – Attaching incline to U-Trough**

## Installation

6. Remove bolts from vertical seams of grain bin sidewall panels at bottom of third ring from foundation. Use bolts to attach brackets as shown in Fig. 21, using the same holes from which bolts were removed.
7. Loop chains through holes in upper and lower ends of incline as shown in Fig. 21 and secure each chain using 5/16 x 2" bolt, flat washers and nylon lock nut as shown. Use 5/16 x 1-1/2" bolt, flat washers and nylon lock nuts to attach other ends of chains to brackets. Use turnbuckles to tighten chains to fully support incline.



**Fig. 21 – Attaching chains to incline**

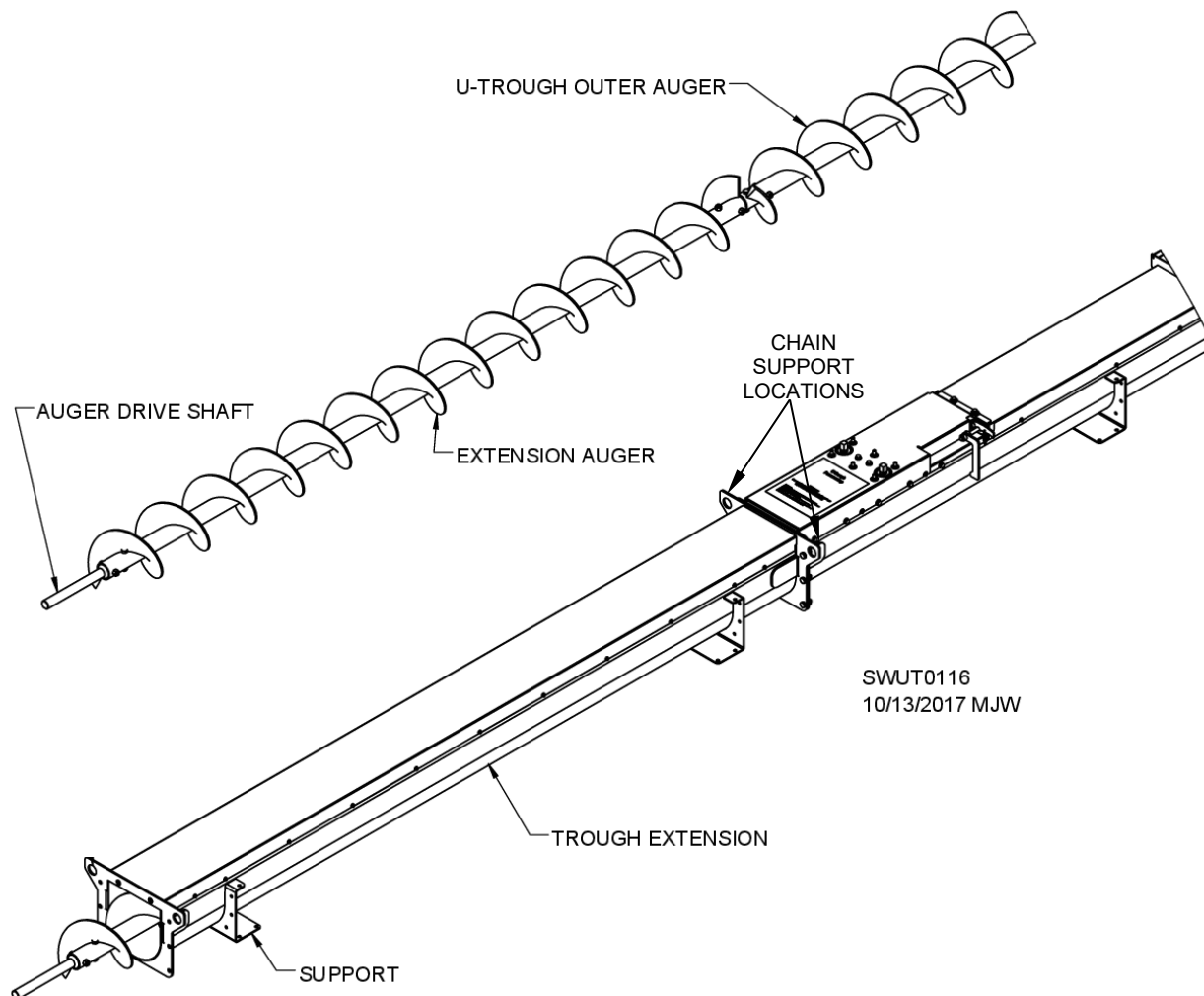
8. Remove outer section of belt shield. Install motor. Use 1/2 x 1-3/4" bolts, nuts, lock washers and flat washers (in parts sack) for 15-20hp motors. Use 3/8 x 1-3/4" bolts, nuts, lock washers and flat washers for smaller motors.
9. Attach 14" triple-groove pulley to power shaft using key and bushing. See Table 3.
10. Attach small pulley to motor and align with bottom pulley using straight edge. Install three belts. Adjust tension by turning bolt on bottom of motor mount. See Fig. 23 to properly tension belts.
11. Reinstall outer belt shield.

|         | ≤10HP  |      | 15-20HP |      |
|---------|--------|------|---------|------|
|         | PART # | QTY. | PART #  | QTY. |
| Bushing | J04310 | 1    | J04310  | 1    |
| Pulley  | J03952 | 1    | J0389   | 1    |
| Belts   | J0223  | 2    | J02433  | 3    |

**Table 3**

### U-TROUGH EXTENSION

See Fig. 22 and instructions below to extend U-Trough. Extension will require increased horsepower. Do not use with an incline powerhead.



**Fig. 22**

1. Remove drive shaft from outer section of unload auger.
2. Attach drive shaft to extension auger using same hardware.
3. Align ends of flighting as shown in Fig. 22 and attach using shaft and hardware provided.
4. Connect trough extension to unload trough using 1/2" hardware provided.
5. Support extension as shown in Fig. 22. Ensure supports attach to solid surface and that weight of trough is evenly distributed. Chains may be used to support end of extension nearest to bin wall. See Fig. 21 and Step 6 on previous page for attachment of brackets to bin sidewall. Loop chains through holes in near end of extension and secure each chain using a 5/16 x 2" bolt, flat washers and nylon lock nut as shown. Use 5/16 x 1-1/2" bolts, flat washers and nylon lock nuts to attach chains to brackets on bin. Use turnbuckles to tighten chains.
6. Install powerhead.

## ADJUSTING BELT TENSION

Place belt(s) in sheave grooves and tighten by adjusting motor mount. Follow these steps to tension belt.

1. Measure span length. See Fig. 23.
2. At center of span, apply enough force to deflect belt  $1/64$ " for every 1" of belt span. If span is 32", deflection amount should be  $32/64$ ", or  $1/2$ ".
3. Use Table 4 to determine amount of force to apply to gauge proper deflection per belt.

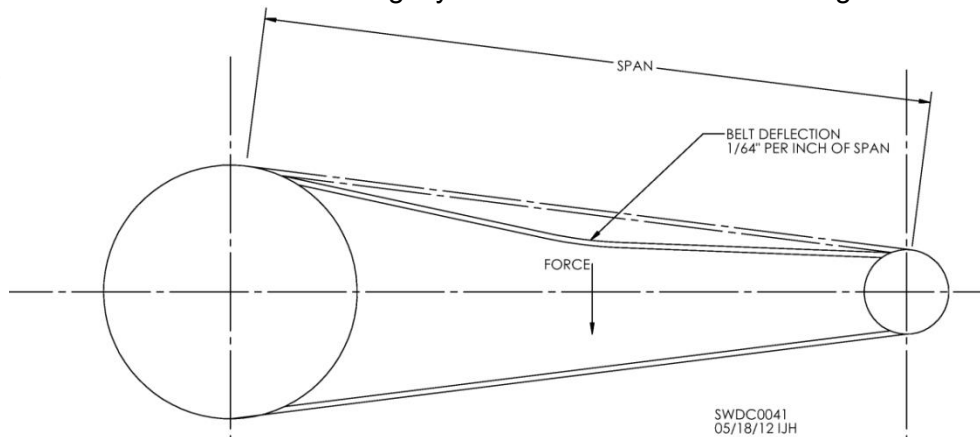
| Belt Cross Section | Smallest Pulley Diameter Range | RPM Range     | Belt Deflection Setting                           |          |                                        |          |
|--------------------|--------------------------------|---------------|---------------------------------------------------|----------|----------------------------------------|----------|
|                    |                                |               | Deflection = $1/64$ of belt span                  |          |                                        |          |
|                    |                                |               | Uncogged Single V-Belts & Uncogged Banded V-Belts |          | Cogged V-Belts & Cogged Banded V-Belts |          |
|                    |                                |               | Used Belt                                         | New Belt | Used Belt                              | New Belt |
| A, AX              | 3.0 – 3.6"                     | 1,000 – 2,500 | 3.6                                               | 5.4      | 4.0                                    | 6.0      |
|                    |                                | 2,501 – 4,000 | 2.8                                               | 4.1      | 3.3                                    | 4.9      |
|                    | 3.8 – 4.8"                     | 1,000 – 2,500 | 4.4                                               | 6.6      | 4.9                                    | 7.3      |
|                    |                                | 2,501 – 4,000 | 3.7                                               | 5.7      | 4.3                                    | 6.4      |
|                    | 5.0 – 7.0"                     | 1,000 – 2,500 | 5.3                                               | 7.8      | 5.7                                    | 9.2      |
|                    |                                | 2,501 – 4,000 | 4.6                                               | 6.8      | 5.1                                    | 7.6      |
| B, BX              | 3.4 – 4.2"                     | 860 – 2,500   | ---                                               | ---      | 4.8                                    | 7.2      |
|                    |                                | 2,501 – 4,000 | ---                                               | ---      | 4.1                                    | 6.2      |
|                    | 4.4 – 5.6"                     | 860 – 2,500   | 5.2                                               | 7.9      | 7.1                                    | 10.5     |
|                    |                                | 2,501 – 4,000 | 4.5                                               | 6.6      | 7.1                                    | 9.1      |
|                    | 5.8 – 8.6"                     | 860 – 2,500   | 6.2                                               | 9.4      | 8.4                                    | 12.4     |
|                    |                                | 2,501 – 4,000 | 6.0                                               | 6.8      | 7.3                                    | 10.7     |
| 5V, 5VX            | 4.4 – 6.7"                     | 500 – 1,749   | ---                                               | ---      | 10                                     | 15.2     |
|                    |                                | 1,750 – 3,000 | ---                                               | ---      | 8.9                                    | 13.2     |
|                    |                                | 3001 – 4000   | ---                                               | ---      | 5.6                                    | 8.5      |
|                    | 7.1 – 10.9"                    | 500 – 1,740   | 12.6                                              | 18.9     | 14.8                                   | 22.1     |
|                    |                                | 1,741 – 3,000 | 11.2                                              | 16.5     | 13.7                                   | 20.1     |
|                    | 11.8 – 16.0"                   | 500 – 1,740   | 15.5                                              | 23.4     | 17.1                                   | 25.5     |
|                    |                                | 1,741 – 3,000 | 14.5                                              | 21.8     | 16.8                                   | 25       |

**Table 4 – Belt deflection settings for Bestorq belts**

Sukup products use belts made by Bestorq. Sukup recommends using a Bestorq tension meter to measure belt deflection. Go to [www.bestorq.com](http://www.bestorq.com) or call (402) 423-3077 for more information.

After adjusting tension to desired level by adjusting motor mount, remove any foreign material from inside of belt guard. Check that all fasteners are tightly secured. Close and latch belt guard.

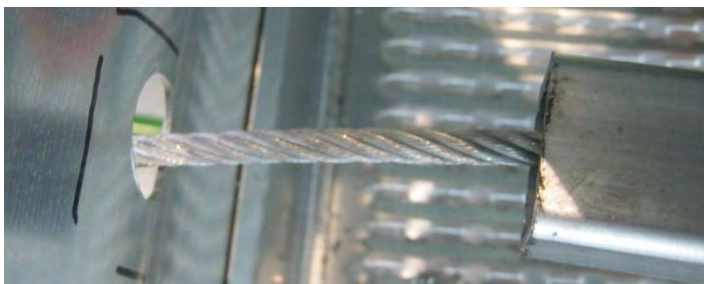
**Fig. 23**



**IMPORTANT:** Check and adjust belt tension after first five (5) and 24 hours of operation, then during regular maintenance (at least twice yearly).

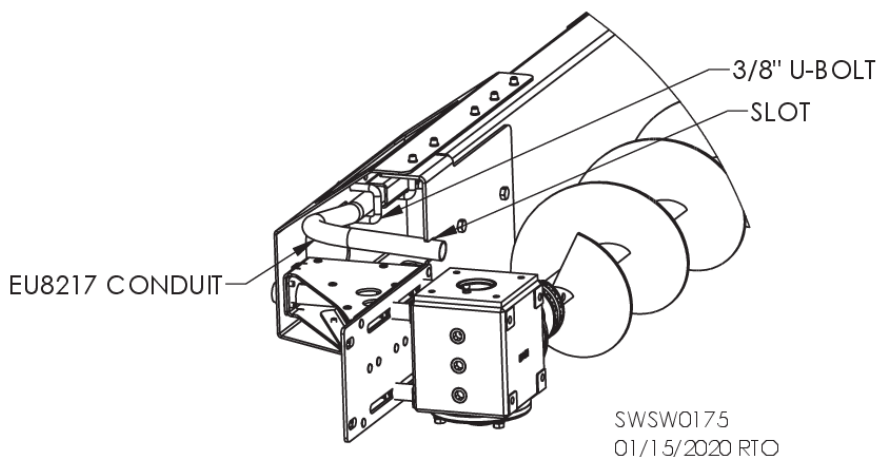
### CLUSTER BUSTER INSTALLATION

Determine location for hole in side of bin. Position sweep auger just behind outermost intermediate sump (to left of sump when looking toward bin wall). Note location of backboard torsion bar and drill 1" dia. hole in bin wall that will line up with torsion bar. See Image 3.



**Image 3 – Hole aligned with torsion bar**

Insert end of 1" OD bent conduit (EU8217) into torsion bar and attach other end to backboard using U-bolt (1/4" for 6" unit, 3/8" for 8" or 10"). See Fig. 24.



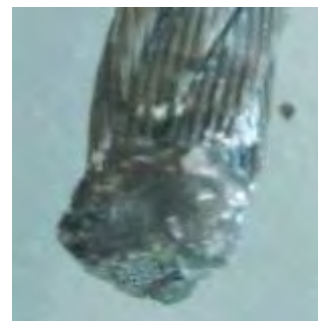
**Fig. 24**

Insert 1/4" cable (not provided) through hole in bin and push through torsion bar and conduit so cable extends about 15" from conduit.

See Table 5 on next page for recommended cable length. Leave enough cable outside of bin to attach drill.

Mark cable at bin wall to serve as a guide for when other end is over sump.

Use torch to weld end strands of cable together to prevent fraying. See Image 4. Welding cable will help ease its transition from torsion bar to conduit.



**Image 4 – Welded cable**

## Installation



**Image 5 – Alignment rod in torsion bar**

Remove cable from bin and insert rod through bin wall hole and into torsion bar. See Image 5. Press down on handle as shown in Image 6 to seal rubber grommet in hole. If seal is not tight, remove rod and turn rubber grommet counterclockwise while holding handle stationary to increase grommet diameter. Reinsert and check seal again. Repeat as needed.



**Image 6 – Rod/plug handle outside of bin**



**Image 7 – Rod kept inside of bin door**

Affix Cluster Buster operation sticker to inside of bin door near bolt where rod will hang when not in use.

**TO OPERATE:** From outside of bin, remove alignment rod and insert 1/4" cable through torsion bar and conduit. Push cable until it comes into contact with grain over sump.

Attach variable-speed drill to cable and turn drill on. Push spinning cable in and out until clog is broken up and grain is moving. **NOTE:** If cable does not turn when drill is activated, pull back slightly.

**NOTICE:** Before engaging sweep, make sure neither cable nor rod is in torsion bar.

When bin is empty, line up torsion bar with hole in bin wall. Slide rod into torsion bar from outside of bin and snap down handle to plug hole.

**Table 5 – Cable lengths by bin diameter**

| BIN DIAMETER | 1/4" DIAMETER CABLE LENGTH |
|--------------|----------------------------|
| 24'          | 13' 8"                     |
| 24' 9"       | 14' 1"                     |
| 26' 3" (8M)  | 14' 10"                    |
| 27'          | 15' 2"                     |
| 27' 10"      | 15' 7"                     |
| 29' 6" (9M)  | 16' 5"                     |
| 30'          | 16' 8"                     |
| 31'          | 17' 2"                     |
| 33'          | 18' 2"                     |
| 34'          | 18' 8"                     |
| 36' (11M)    | 19' 8"                     |
| 37' 1"       | 20' 3"                     |
| 42'          | 22' 8"                     |
| 42' 8" (13M) | 23'                        |
| 43' 3"       | 13' 4"                     |
| 48'          | 25' 8"                     |
| 49' 3" (15M) | 26' 4"                     |
| 54'          | 28' 8"                     |
| 55' 8"       | 29' 6"                     |
| 60'          | 31' 8"                     |
| 61' 10"      | 32' 7"                     |

### OPERATING INSTRUCTIONS

**IMPORTANT:** Verify that bin and foundation are designed for sweeping with this equipment.

Sukup grain bins are designed with anchors that allow sweeping of entire diameter of bin with Sukup power sweeps. However, older Sukup bins (sold before 2015) that are 72' dia. or larger and do not have two anchors per stiffener are not. Additional anchor brackets can be purchased from Sukup Manufacturing Co. and retrofitted. Foundations of such bins must also be verified as suitable.

Bins by other manufacturers that are 60' dia. or less may be swept using this equipment provided concrete and anchors have been inspected and found suitable. (Contact bin manufacturer for further information).

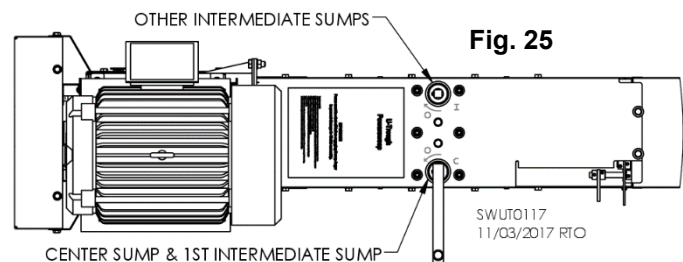


**DANGER: KEEP AWAY when auger is running. Entanglement with rotating auger will cause death or serious injury.**

**NOTICE:** If bin is equipped with a Cluster Buster, ensure neither rod nor cable is in torsion bar. If bin is equipped with a sidedraw, do not use at same time sumps are being used to unload grain.

1. Start U-Trough unload auger. Turn rack and pinion opener to simultaneously open center sump and first intermediate sump. See Fig. 25. Unload grain from these sumps until gravity flow stops.

**NOTICE:** To prevent overloading of U-Trough during gravity unloading, do not open center sump all the way or exceed 6,000 bu./hr. To unload at maximum capacity, monitor motor current and open sump just enough to run at or just below rated full load current.



2. Re-position rack and pinion opener handle and open other intermediate sumps (see Fig. 25), allowing additional gravity flow of grain into unload system. Again monitor motor current/capacity.
3. When grain flow stops, shut off power to system. Engage sweep auger by pulling clutch rod handle.  
**NOTICE:** Power must be shut off before engaging sweep auger to prevent damage to clutch assembly.
4. Turn on power. Center sump slide gate must remain **FULLY** open and sweep stop must be deployed while sweep auger is operating. See Image 1. Remove remaining grain, making sure to reposition stop before each revolution. **NOTICE:** Leave bottom panel of inner bin door closed when running sweep to avoid possible damage to sweep wheel and/or door.



**DANGER: When bin is nearly empty, sweep auger will travel at an increasingly fast speed. Keep away from auger to avoid entanglement, which will result in death or serious injury.**

5. Close sumps and place sweep just behind intermediate sumps.

### **TROUBLESHOOTING GUIDE**

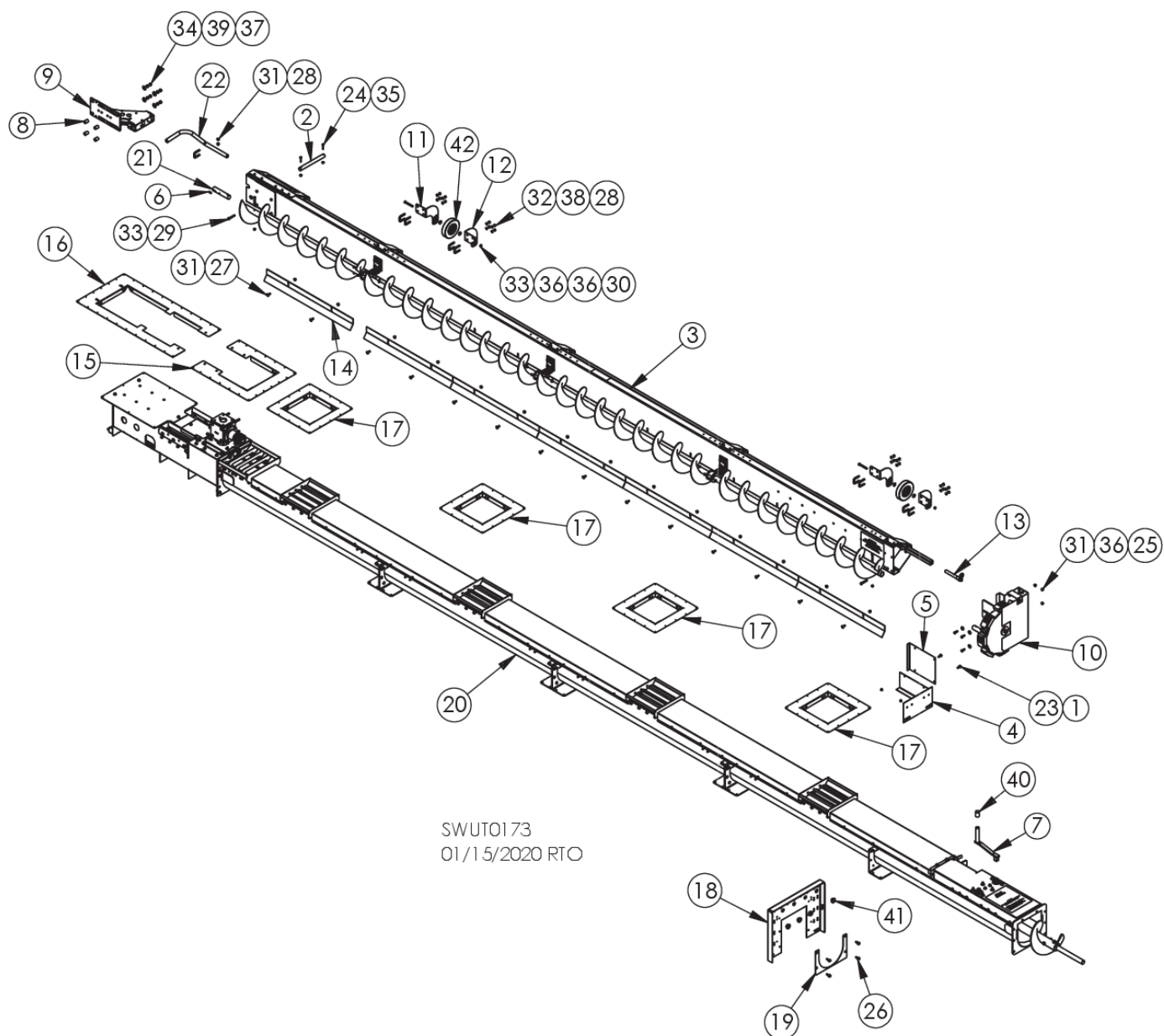
| <b>PROBLEM</b>                     | <b>REASON</b>                                | <b>SOLUTION</b>                                                                       |
|------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------|
| 1. Sweep is not moving around bin. | Scraper too close to the floor.              | Raise scrapers up.                                                                    |
|                                    | Bent edge is down by floor.                  | Turn scraper around so sharp edge is at bottom.                                       |
|                                    | Obstacles may be hindering forward movement. | Check for any obstacles that scraper could be catching on. May need to raise scraper. |
| 2. Drive chain breaking.           | Grain piling in center of bin.               | Make sure center sump gate is fully open.                                             |
| 3. Connector link coming off.      | Connector link is on backwards.              | The connector link clip needs to have the closed end leading the chain around.        |

### **LUBRICATION**

Use 140-weight gear oil in gearboxes. Gearboxes should be checked every time bin is empty. Check plugs are on back of gearboxes. Gearboxes should be about half full. Add grease to top bearing through zerk on top of each sump gearbox. Grease roller chain in sump every time bin is empty. Factory oil used in gearboxes is Mobil Gear 636, 140-weight.

## PARTS/ASSEMBLIES

### COMPLETE U-TROUGH

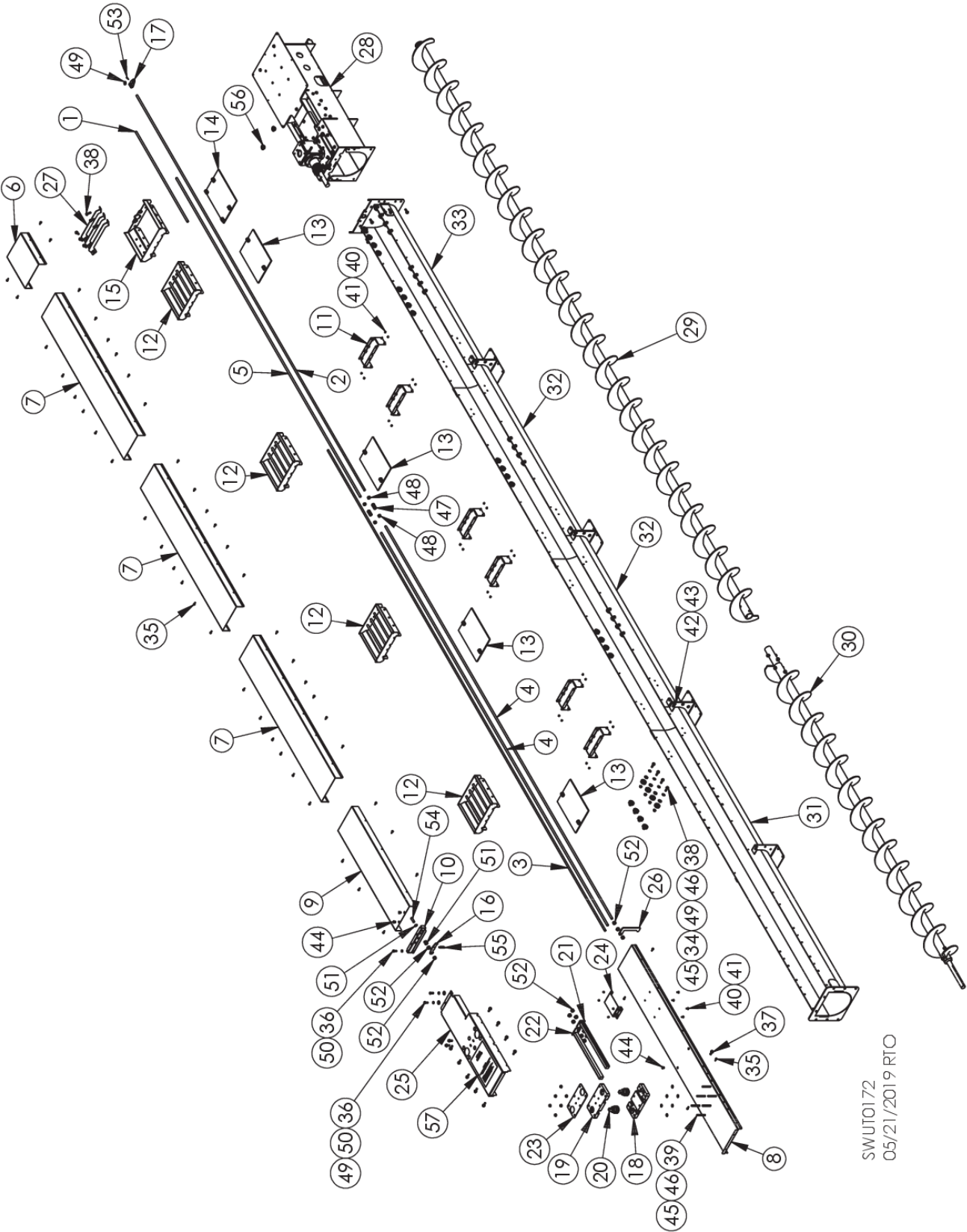


## COMPLETE U-TROUGH

| REF. # | DESCRIPTION                         | QTY. | PART # |
|--------|-------------------------------------|------|--------|
| 1      | Flange nut, 5/16" – 18              | 2    | B5922  |
| 2      | Pivot rod                           | 1    | E0107  |
| 3      | Auger/backboard                     | 1    | *      |
| 4      | Sweep stop                          | 1    | E5514  |
| 5      | Sweep stop extension                | 1    | E5515  |
| 6      | Key, 1/4" x 1"                      | 1    | E5915  |
| 7      | Opener handle                       | 1    | E5967  |
| 8      | Pipe, 1/2", 1-1/8" long             | 4    | E60143 |
| 9      | Backboard pivot mount               | 1    | E69772 |
| 10     | Drive wheel assy.                   | 1    | E7430  |
| 11     | Rear carrier wheel bracket, right   | 2    | E7740  |
| 12     | Rear carrier wheel bracket, left    | 2    | E7741  |
| 13     | Cluster Buster plug assy.           | 1    | E7985  |
| 14     | Scraper, 36"                        | *    | E8430  |
| 15     | Center sump flashing assy.          | 1    | EU0193 |
| 16     | Center sump flashing, assy., rear   | 1    | EU0194 |
| 17     | Intermediate sump flashing assy.    | *    | EU0834 |
| 18     | Bin collar, upper                   | 1    | EU0835 |
| 19     | Bin collar, lower                   | 1    | EU0836 |
| 20     | Trough                              | 1    | *      |
| 21     | Drive shaft                         | 1    | EU8210 |
| 22     | Cluster Buster center tube          | 1    | EU8217 |
| 23     | Screw, 5/16 – 18 x 1"               | 2    | J0537  |
| 24     | Screw, 5/16 – 18 x 1-1/2"           | 2    | J0565  |
| 25     | Screw, 3/8 – 16 x 1"                | 3    | J0606  |
| 26     | Screw, 3/8 – 16 x 1", self-drilling | 4    | J06062 |
| 27     | Carriage bolt, 3/8" x 1"            | *    | J06064 |
| 28     | U-bolt, 3/8 – 16 x 1-1/4"           | *    | J0644  |
| 29     | Screw, 3/8 – 16 x 2-1/4"            | 4    | J0652  |
| 30     | Screw, 3/8 - 16 x 3"                | *    | J0661  |
| 31     | Flange lock nut, 3/8" – 16          | *    | J1017  |
| 32     | Nut, 3/8" – 16                      | 16   | J1020  |
| 33     | Lock nut, 3/8" – 16                 | *    | J1025  |
| 34     | Nut, 7/16" – 14                     | 4    | J1035  |
| 35     | Nut, 5/16" - 18                     | 2    | J1110  |
| 36     | Flat washer, 3/8"                   | *    | J1117  |
| 37     | Flat washer, 7/16"                  | 4    | J1120  |
| 38     | Lock washer, 3/8"                   | 16   | J1205  |
| 39     | Split lock washer, 7/16"            | 4    | J1210  |
| 40     | Rubber cap, 1"                      | 1    | J2232  |
| 41     | Plug, 1"                            | 5    | J5086  |
| 42     | Rubber wheel, 6", 3/8" ID           | *    | J7271  |

\*Depends on bin size

U-TROUGH BODY ASSEMBLY



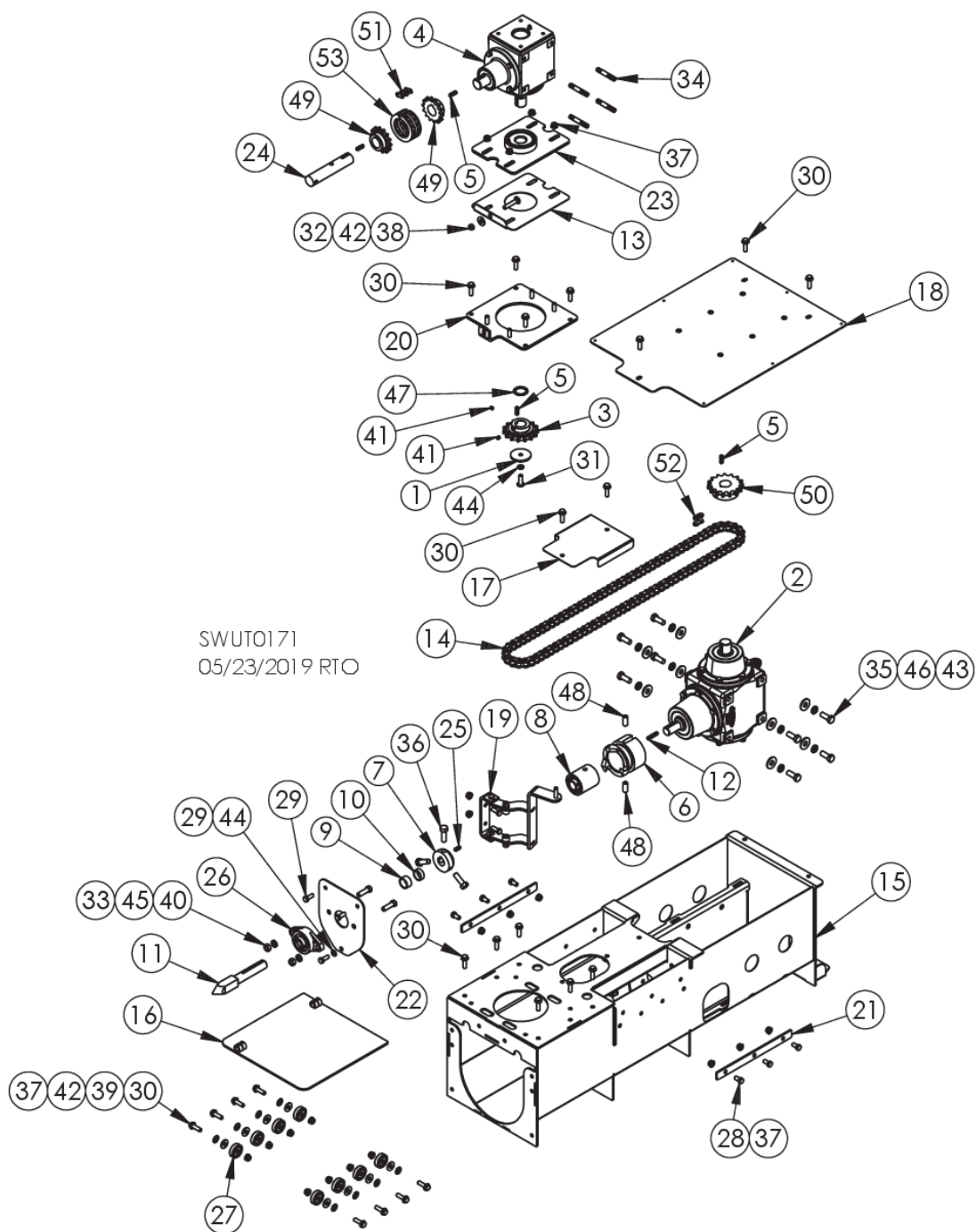
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## U-TROUGH BODY ASSEMBLY PARTS LIST

| REF. # | DESCRIPTION                            | QTY. | PART #  |
|--------|----------------------------------------|------|---------|
| 1      | Sump pull rod, 37-3/4", 1/2" OD        | 1    | EU02016 |
| 2      | Sump pull rod, 1/2" OD                 | *    | *       |
| 3      | Sump pull rod, 1/2" OD                 | *    | *       |
| 4      | Sump pull rod", 1/2" OD                | *    | *       |
| 5      | Sump pull rod, 1/2" OD                 | *    | *       |
| 6      | Trough cover, 13-5/32"                 | 1    | EU0370  |
| 7      | Trough cover, 59-15/16"                | 3    | EU0371  |
| 8      | Trough cover, 77.72", powerhead end    | 1    | EU0373  |
| 9      | Trough cover, 42", powerhead end       | 1    | EU0374  |
| 10     | Pull rod cover cap                     | 1    | EU0375  |
| 11     | Pull rod support                       | 6    | EU0700  |
| 12     | Standard intermediate sump weldment    | *    | EU0704  |
| 13     | Gate weldment, w/ collars              | *    | EU0705  |
| 14     | Center gate weldment, 1/4"             | 1    | EU0708  |
| 15     | Center sump weldment                   | 1    | EU0709  |
| 16     | Clutch engagement lever                | 1    | EU0818  |
| 17     | Clutch catch                           | 1    | EU0819  |
| 18     | Opener bearing block, bottom           | 1    | EU0820  |
| 19     | Opener bearing block, top              | 1    | EU0821  |
| 20     | Opener gear & shaft                    | 2    | EU0824  |
| 21     | Opener slide weldment, right           | 1    | EU0825  |
| 22     | Opener slide weldment, left            | 1    | EU0826  |
| 23     | Opener stiffener plate                 | 1    | EU0827  |
| 24     | Pull rod support, powerhead end        | 1    | EU0828  |
| 25     | Rack & pinion opener cover             | 1    | EU0846  |
| 26     | Clutch handle                          | 1    | EU0847  |
| 27     | Center sump grate                      | 3    | EU0849  |
| 28     | Center sump assy.                      | 1    | EU0900  |
| 29     | Auger, 10" x 20', inner                | *    | EU1460  |
| 30     | Auger, 10" x 10' 4-1/4", outer         | *    | *       |
| 31     | Rolled trough weldment, 120"           | 1    | EU5200  |
| 32     | Rolled trough weldment, 72"            | *    | EU5201  |
| 33     | Rolled trough weldment, 67-1/2"        | *    | EU5216  |
| 34     | Roller bearing, 1-1/2", 3/8" bore      | *    | J0045   |
| 35     | Screw, 1/4 – 14 x 3/4", self-drilling  | *    | J04965  |
| 36     | Screw, 3/8 – 16 x 1"                   | 3    | J0606   |
| 37     | Screw, 3/8 – 16 x 1", self-drilling    | *    | J06062  |
| 38     | Screw, 3/8 – 16 x 1-1/4"               | *    | J06112  |
| 39     | Bolt, 3/8 – 16 x 3"                    | 6    | J0660   |
| 40     | Huckbolt, 1/4" x 5/8"                  | *    | J0892   |
| 41     | Huckbolt sleeve, 1/4"                  | *    | J0893   |
| 42     | Huckbolt, 3/8" x 1/4 x 1/2"            | *    | J0894   |
| 43     | Huckbolt sleeve, 3/8"                  | *    | J0895   |
| 44     | Nut rivet, 3/8"                        | 3    | J1015   |
| 45     | Flange lock nut, 3/8" - 16             | *    | J1017   |
| 46     | Push nut, 3/8", 27/32" OD              | *    | J1028   |
| 47     | Coupling nut, 1/2" – 13 x 1-3/4"       | *    | J10371  |
| 48     | Hex nut, 1/2" – 13                     | 4    | J1040   |
| 49     | Flat washer, 3/8"                      | *    | J1117   |
| 50     | Split lock washer, 3/8"                | 3    | J1205   |
| 51     | Machine bushing, 1/2", 18ga            | *    | J1250   |
| 52     | Shaft collar, 1/2"                     | 13   | J1320   |
| 53     | Cotter pin, 1/8 x 1"                   | 1    | J1420   |
| 54     | Picker pin, 1/2 x 1-1/2"               | 1    | J1550   |
| 55     | Pawl spring                            | 1    | J2360   |
| 56     | Plug                                   | 2    | J5086   |
| 57     | Decal, U-Trough operating instructions | 1    | L03287  |

\*Depends on bin size

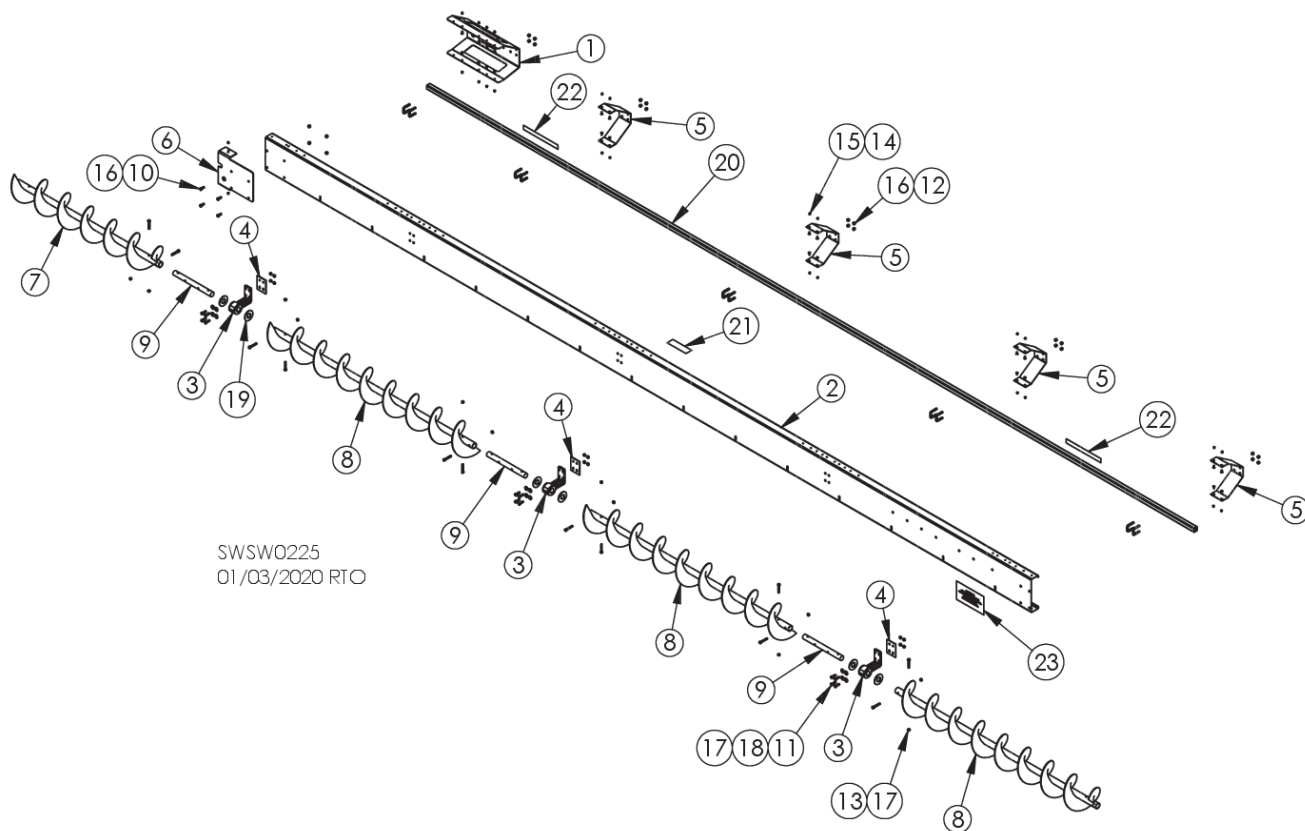
## U-TROUGH POWER SWEEP DRIVE HOUSING



## U-TROUGH POWER SWEEP DRIVE HOUSING PARTS LIST

| REF. # | DESCRIPTION                         | QTY. | PART #   |
|--------|-------------------------------------|------|----------|
| 1      | Spacer washer, 3/8" ID, 2-1/4" OD   | 1    | E5324    |
| 2      | Gearbox, lower                      | 1    | E5360    |
| 3      | Sprocket, 60B15, 1.1811 bore        | 1    | E53733   |
| 4      | Gearbox, top, 1-1/4" shaft          | 1    | E53751   |
| 5      | Key, 1/4" x 1"                      | 4    | E5915    |
| 6      | Engaging clutch, 3 teeth            | 1    | E60011   |
| 7      | Base, 3-bolt clutch                 | 1    | E6002-01 |
| 8      | Clutch bearing                      | 1    | E60031   |
| 9      | Clutch spacer                       | 1    | E60041   |
| 10     | Spacer, bottom gearbox              | 1    | E60042   |
| 11     | Shaft, square end, 10"              | 1    | E6018    |
| 12     | Key, 1/4" x 1 1/2"                  | 1    | E9007    |
| 13     | Gearbox tensioner plate             | 1    | ED1069   |
| 14     | Chain, #60, 99 links                | 1    | EU0893   |
| 15     | Center sump                         | 1    | EU0901   |
| 16     | Center sump gate                    | 1    | EU0902   |
| 17     | Chain cover                         | 1    | EU0904   |
| 18     | Center sump cover                   | 1    | EU0905   |
| 19     | Clutch shifter arm assy.            | 1    | EU0906   |
| 20     | Gearbox tensioning plate            | 1    | EU0908   |
| 21     | Center sump gate seal               | 2    | EU0909   |
| 22     | Bearing plate                       | 1    | EU0910   |
| 23     | Support bearing, top gearbox, assy. | 1    | EU1262   |
| 24     | Drive shaft                         | 1    | EU8210   |
| 25     | Key, 1/4" sq. x 3/4"                | 1    | G7508    |
| 26     | Flange bearing, 1", w/ collar       | 1    | J0003    |
| 27     | Roller bearing, 1-1/2", 3/8" bore   | 8    | J0045    |
| 28     | Screw, 3/8 – 24 x 1"                | 8    | J0605    |
| 29     | Screw, 3/8 - 16 x 1"                | 5    | J0606    |
| 30     | Screw, 3/8 – 16 x 1-1/4"            | 23   | J06112   |
| 31     | Screw, 3/8 – 16 x 1-1/4"            | 1    | J06161   |
| 32     | Carriage bolt, 3/8 x 2"             | 1    | J0651    |
| 33     | Screw, 7/16 - 14 x 1-1/2"           | 2    | J0710    |
| 34     | Stud bolt, 7/16 – 14 x 2-3/4"       | 4    | J07211   |
| 35     | Screw, 1/2 – 20 x 1-1/4"            | 8    | J0724    |
| 36     | Screw, 1/2 – 13 x 1-1/2"            | 3    | J0730    |
| 37     | Flange lock nut, 3/8" - 16          | 22   | J1017    |
| 38     | Lock nut, 3/8" – 16                 | 1    | J1025    |
| 39     | Push nut, 3/8" stud                 | 8    | J1028    |
| 40     | Hex nut, 7/16" – 14                 | 2    | J1035    |
| 41     | Setscrew, 5/16 – 18 x 5/16          | 2    | J1080    |
| 42     | Flat washer, 3/8"                   | 9    | J1117    |
| 43     | Flat washer, 1/2"                   | 8    | J1125    |
| 44     | Split lock washer, 3/8"             | 2    | J1205    |
| 45     | Split lock washer, 7/16"            | 2    | J1210    |
| 46     | Lock washer, 1/2"                   | 8    | J1215    |
| 47     | Machine bushing, 30mm ID x 40mm OD  | 1    | J1268    |
| 48     | Setscrew, 1/2 x 1-1/4, hex head     | 2    | J1390    |
| 49     | Sprocket, 50B14, 1-1/4" bore        | 2    | J1667    |
| 50     | Sprocket, 60B15, 1-1/4" bore, key   | 1    | J16941   |
| 51     | Double chain connector link, #50    | 1    | J1761    |
| 52     | Chain connector link, #60           | 1    | J1775    |
| 53     | Chain, #50, double roller, 13 links | 1    | S7023    |

## BACKBOARD



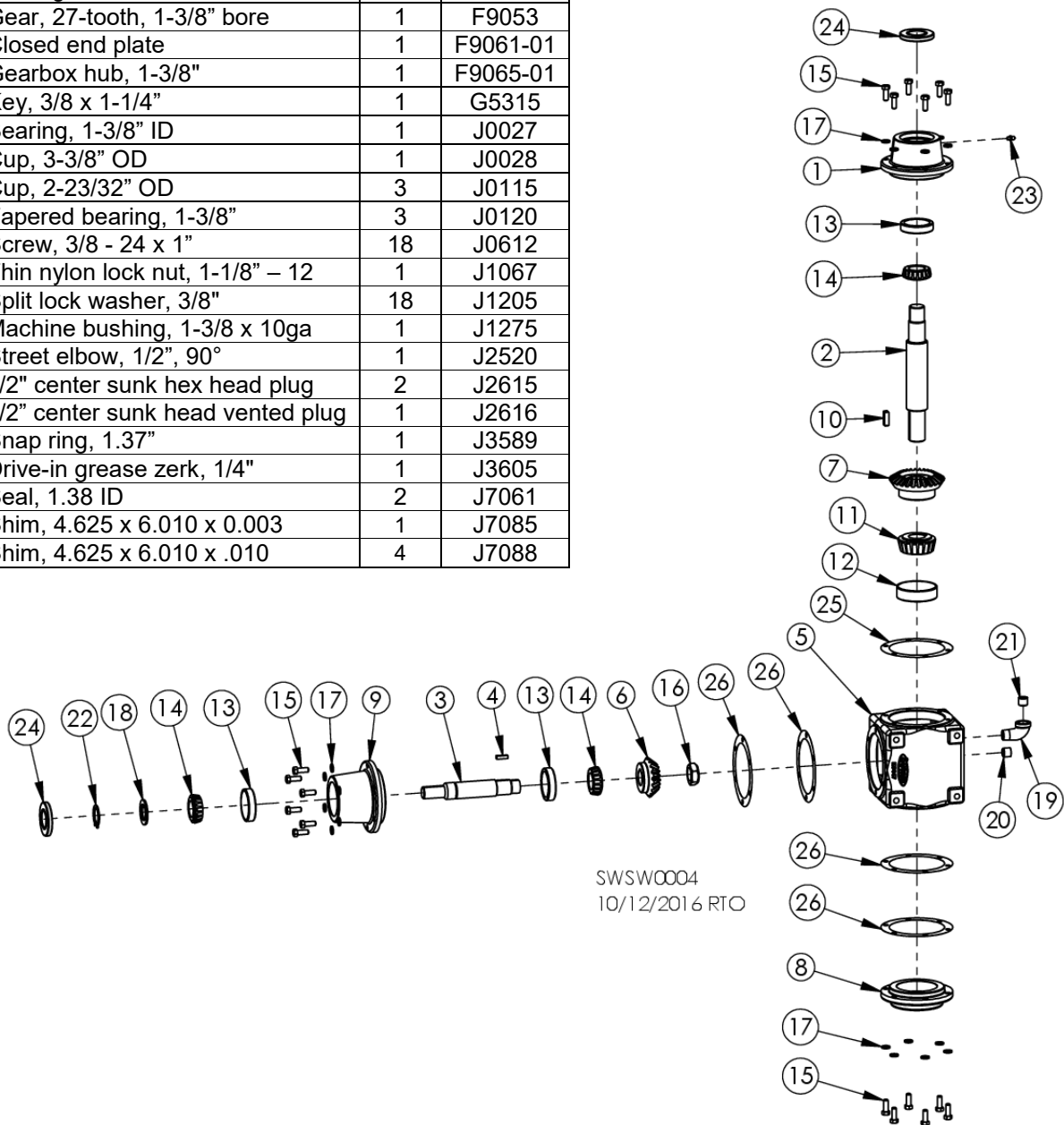
SWSW0225  
01/03/2020 RTO

| REF. # | DESCRIPTION                                | QTY. | PART # |
|--------|--------------------------------------------|------|--------|
| 1      | Torsion bar pivot bracket                  | 1    | E0104  |
| 2      | Backboard                                  | 1    | *      |
| 3      | Auger support bushing assy.                | *    | E60911 |
| 4      | Bearing support spacer                     | *    | E60914 |
| 5      | Torsion bar bracket, split                 | *    | E6789  |
| 6      | Backboard pivot mount                      | 1    | EU8200 |
| 7      | Auger, 49.5'                               | 1    | EU8205 |
| 8      | Auger, 69.5'                               | *    | EU8222 |
| 9      | Auger connector shaft, 1-1/4" OD, 13" long | *    | EU9044 |
| 10     | Screw, 3/8 – 16 x 1"                       | 4    | J0606  |
| 11     | Bolt, 3/8 - 16 x 1-1/4"                    | *    | J0616  |
| 12     | Square U-bolt, 3/8" - 16                   | *    | J0644  |
| 13     | Screw, 3/8 – 16 x 2-1/4"                   | *    | J0652  |
| 14     | Huckbolt, 1/4" x 5/8"                      | *    | J0892  |
| 15     | Huckbolt sleeve, 1/4"                      | *    | J0893  |
| 16     | Lock nut, 3/8" – 16, nylon                 | *    | J1024  |
| 17     | Lock nut, 3/8" - 16                        | *    | J1025  |
| 18     | Flat washer, 3/8"                          | *    | J1117  |
| 19     | Flat washer, 1-1/8"                        | *    | J1157  |
| 20     | Tubing, 1-1/4" sq.                         | *    | *      |
| 21     | Decal, Danger, Auger Running               | 1    | L03061 |
| 22     | Decal, Mount Carrier Wheel                 | 2    | L0918  |
| 23     | Decal, Important:3/8" dia. bolts           | 1    | L0919  |

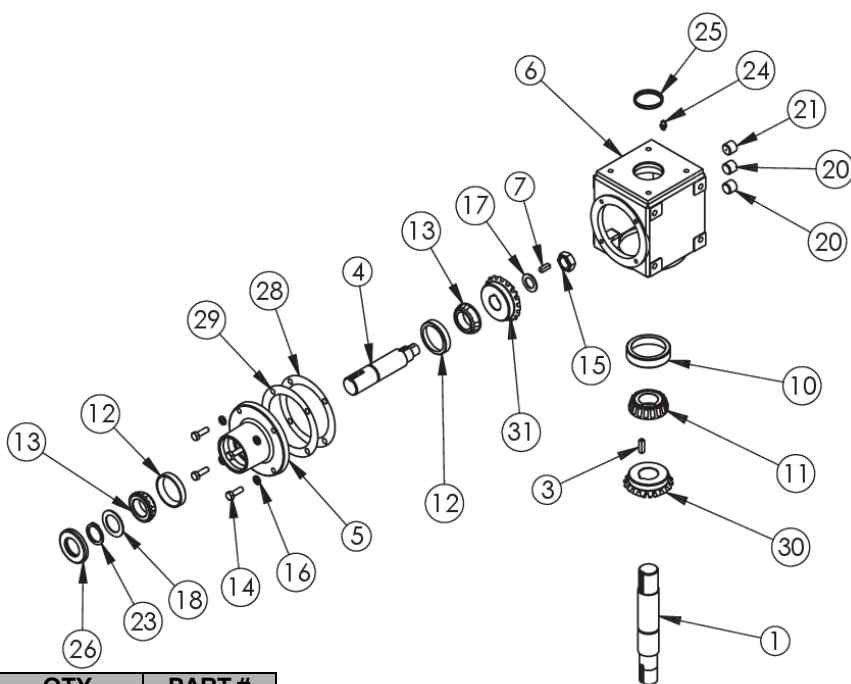
\*Depends on bin size

## LOWER GEARBOX (EU0808), PARTS LIST

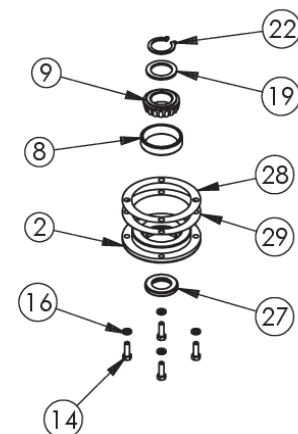
| REF. # | DESCRIPTION                       | QTY. | PART #   |
|--------|-----------------------------------|------|----------|
| 1      | Hub casting, 1-3/8"               | 1    | E5365    |
| 2      | Gearbox shaft                     | 1    | E5366    |
| 3      | Shaft, 8-5/16"                    | 1    | E5367    |
| 4      | Key, 1/4" sq. x 1"                | 1    | E5915    |
| 5      | Lower gearbox casting, 3 hole     | 1    | F9051    |
| 6      | Bevel gear, 18 tooth, 1-1/4" bore | 1    | F9052    |
| 7      | Gear, 27-tooth, 1-3/8" bore       | 1    | F9053    |
| 8      | Closed end plate                  | 1    | F9061-01 |
| 9      | Gearbox hub, 1-3/8"               | 1    | F9065-01 |
| 10     | Key, 3/8 x 1-1/4"                 | 1    | G5315    |
| 11     | Bearing, 1-3/8" ID                | 1    | J0027    |
| 12     | Cup, 3-3/8" OD                    | 1    | J0028    |
| 13     | Cup, 2-23/32" OD                  | 3    | J0115    |
| 14     | Tapered bearing, 1-3/8"           | 3    | J0120    |
| 15     | Screw, 3/8 - 24 x 1"              | 18   | J0612    |
| 16     | Thin nylon lock nut, 1-1/8" - 12  | 1    | J1067    |
| 17     | Split lock washer, 3/8"           | 18   | J1205    |
| 18     | Machine bushing, 1-3/8 x 10ga     | 1    | J1275    |
| 19     | Street elbow, 1/2", 90°           | 1    | J2520    |
| 20     | 1/2" center sunk hex head plug    | 2    | J2615    |
| 21     | 1/2" center sunk head vented plug | 1    | J2616    |
| 22     | Snap ring, 1.37"                  | 1    | J3589    |
| 23     | Drive-in grease zerk, 1/4"        | 1    | J3605    |
| 24     | Seal, 1.38 ID                     | 2    | J7061    |
| 25     | Shim, 4.625 x 6.010 x 0.003       | 1    | J7085    |
| 26     | Shim, 4.625 x 6.010 x .010        | 4    | J7088    |



## TOP GEARBOX

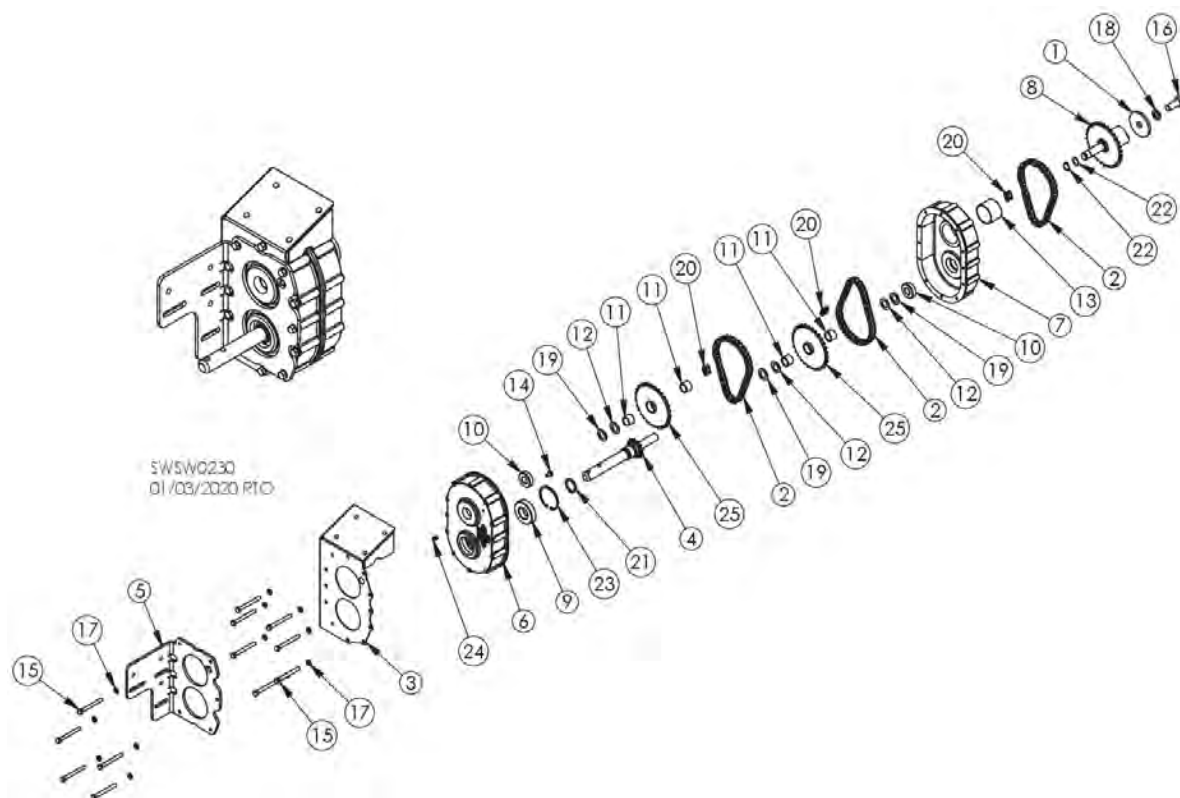


SWSW0229  
01/08/2020 RTO



| REF. # | DESCRIPTION                         | QTY.      | PART #   |
|--------|-------------------------------------|-----------|----------|
| 1      | Sprocket shaft                      | 1         | E5379    |
| 2      | Plate, open end                     | 1         | E5902-01 |
| 3      | Key, 1/4" x 1"                      | 1         | E5915    |
| 4      | Shaft, 8"                           | 1         | EU0839   |
| 5      | Output hub, 1-1/4" shaft            | 1         | EU0840   |
| 6      | Gearbox case                        | 1         | F9004    |
| 7      | Key, 1/4" sq. x 3/4"                | 1         | G7508    |
| 8      | Bearing cup, 2-23/32 OD             | 1         | J0115    |
| 9      | Tapered bearing, 1-3/8"             | 1         | J0120    |
| 10     | Bearing cup                         | 1         | J0125    |
| 11     | Tapered bearing, 1-1/4", .94        | 1         | J0130    |
| 12     | Bearing cup                         | 2         | J0133    |
| 13     | Tapered bearing, 1-1/4"             | 2         | J0134    |
| 14     | Screw, 5/16 - 18 x 1                | 8         | J0527    |
| 15     | Lock nut, 3/4" - 16                 | 1         | J1055    |
| 16     | Split lock washer, 5/16"            | 8         | J1200    |
| 17     | Machine bushing, 3/4 x 1-1/4", 14ga | 1         | J1260    |
| 18     | Machine bushing, 1-1/4", 14ga       | 1         | J1273    |
| 19     | Machine bushing, 1-3/8", 10ga       | 1         | J1275    |
| 20     | 1/2" center sunk hex head plug      | 2         | J2615    |
| 21     | 1/2" center sunk head vented plug   | 1         | J2616    |
| 22     | Snap ring, 1.37"                    | 1         | J3589    |
| 23     | Snap ring, 1-3/4"                   | 1         | J35981   |
| 24     | Drive-in grease zerk, 1/4"          | 1         | J3605    |
| 25     | Soft plug, 1-7/8"                   | 1         | J6980    |
| 26     | Seal, 1-1/4 2.378                   | 1         | J7005    |
| 27     | Seal, 1-3/8" x 2.129, r/c           | 1         | J7010    |
| 28     | Plastic shim, 0.003" thick          | As needed | J7090    |
| 29     | Plastic shim, 0.010 thick           | As needed | J70901   |
| 30     | Beveled gear, 18-tooth, 1-1/4" bore | 1         | J8528    |
| 31     | Beveled gear, 18-tooth, 1" bore     | 1         | J8529    |

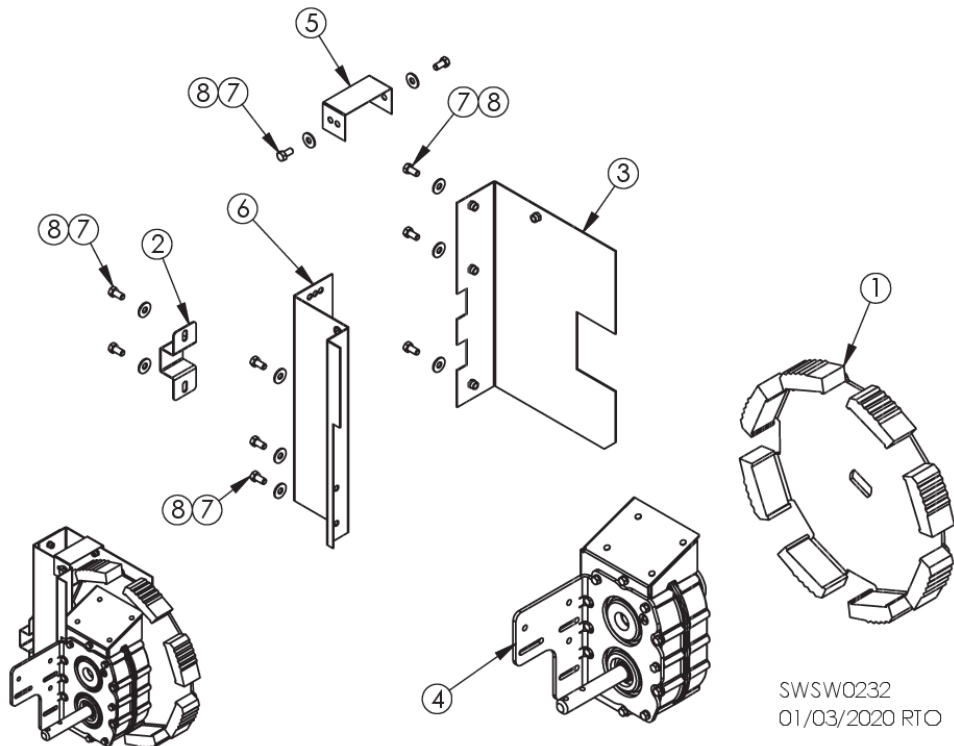
## 16-TO-1 REDUCTION DRIVE WHEEL GEARBOX



| REF. # | DESCRIPTION                         | QTY. | 10" PART # |
|--------|-------------------------------------|------|------------|
| 1      | Flat washer, 11/16"                 | 1    | E7322      |
| 2      | Chain, # 40, 37 links               | 3    | E7327      |
| 3      | Grain deflector                     | 1    | E7413      |
| 4      | Input shaft                         | 1    | EU8249     |
| 5      | Mounting bracket                    | 1    | E7411      |
| 6*     | Input side of gearbox               | 1    | EU8247     |
| 7*     | Output side of gearbox              | 1    | EU8248     |
| 8      | Output shaft                        | 1    | EU8250     |
| 9      | Bearing, 1-1/4" ID, 2-1/2" OD       | 1    | J0060      |
| 10     | Bearing, 3/4" ID, 1-5/8" OD         | 2    | J00703     |
| 11     | Bushing, 3/4" ID, 1-3/4" OD         | 4    | J00745     |
| 12     | Thrust washer, 3/4" ID, 1-1/4" OD   | 3    | J00746     |
| 13     | Bushing, 1-15/16" ID, 2-1/8" OD     | 1    | J00817     |
| 14     | Screw, 1/4 - 20 x 1/2"              | 1    | J05083     |
| 15     | Screw, 5/16 - 18 x 3"               | 12   | J05952     |
| 16     | Screw, 5/8 - 11 x 1-1/2"            | 1    | J0781      |
| 17     | Split lock washer, 5/16"            | 12   | J1200      |
| 18     | Split lock washer, 5/8"             | 1    | J1218      |
| 19     | Machine bushing, 3/4 x 1-1/4", 14ga | 3    | J1260      |
| 20     | Connector link, #40 chain           | 3    | J1745      |
| 21     | Snap ring, 1-3/4"                   | 1    | J35981     |
| 22     | Snap ring, 3/4"                     | 2    | J35983     |
| 23     | Snap ring, 2-1/2"                   | 1    | J35984     |
| 24     | Grease zerk, drive-in, 1/4"         | 1    | J3605      |
| 25     | Sprocket                            | 2    | J7312      |

\*Must be replaced together if replacement necessary

## 16:1 DRIVE WHEEL & RECLAIM SHIELD



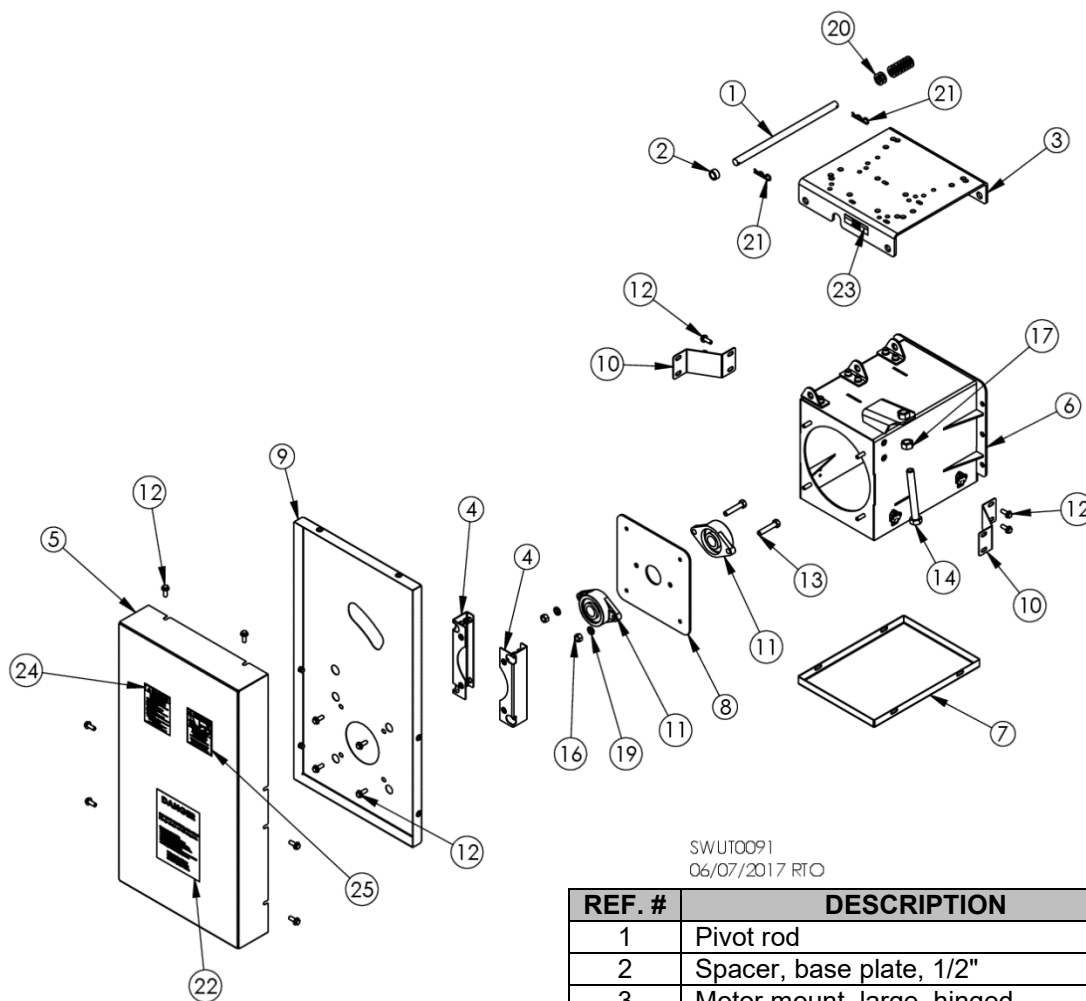
| ITEM # | DESCRIPTION                    | 10" PART # | QTY. |
|--------|--------------------------------|------------|------|
| 1      | Drive wheel, w/ green tread*   | E73491     | 1    |
| 2      | Shield bracket                 | E7381      | 1    |
| 3      | Reclaim shield extension plate | E7397      | 1    |
| 4      | Gearbox, w/ mount              | EU8246     | 1    |
| 5      | Brace                          | E7412      | 1    |
| 6      | Reclaim shield                 | E7416      | 1    |
| 7      | Screw, 3/8 – 16 x 3/4"         | J0605      | 10   |
| 8      | Flat washer, 3/8"              | J1117      | 10   |

**\*Order E73492 for wheel w/ black rubber treads**

**Order E7414 for kit of eight green poly treads or E73491-01 for a single green poly tread.  
Order E7415 for kit of 8 black rubber treads or E73492-01 for a single black rubber tread.**

**NOTE:** Green poly tread is for use on Hawk Cut flashing. Black rubber tread is for use on perforated flashing.

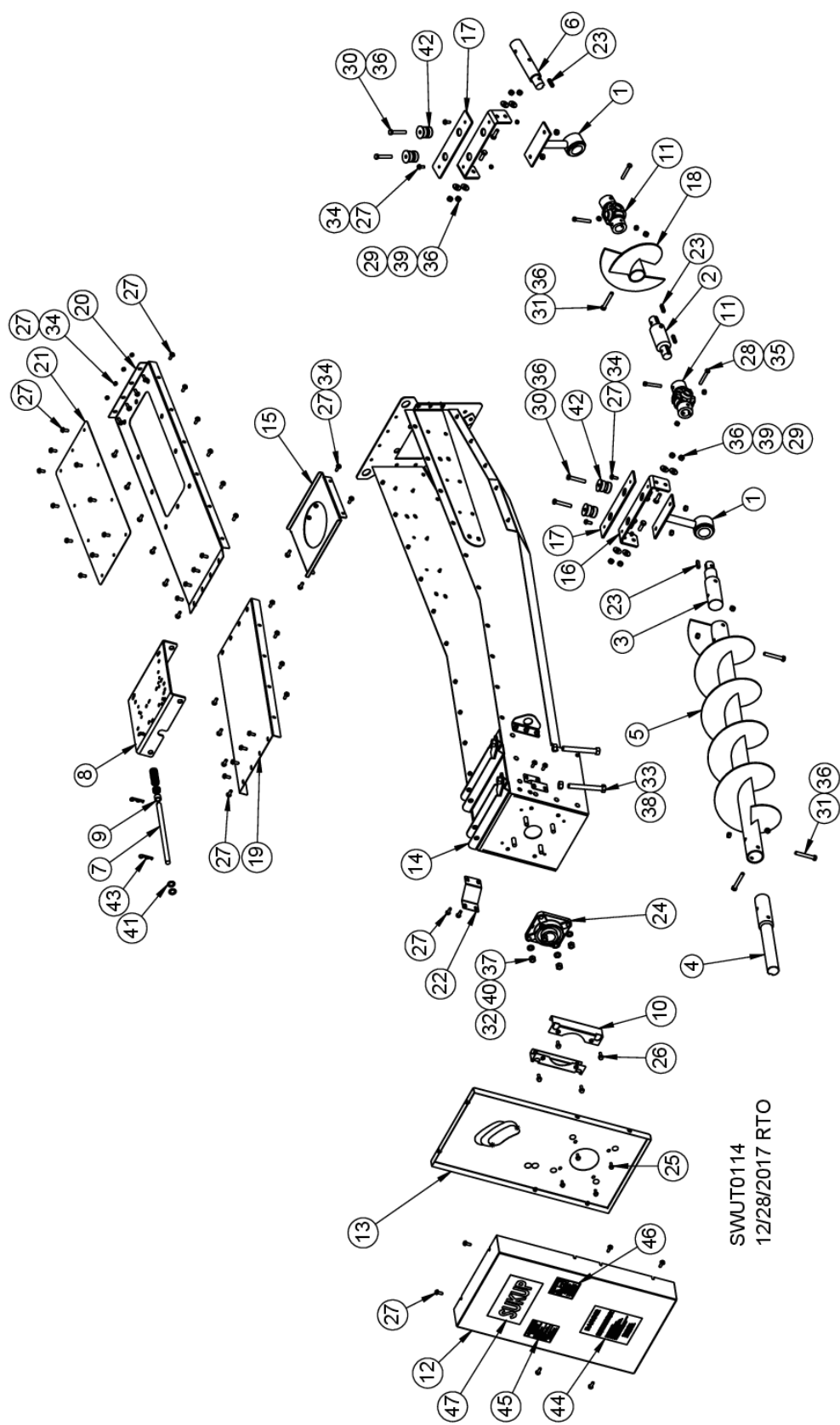
## U-TROUGH HORIZONTAL POWERHEAD (EU1170)



SWUT0091  
06/07/2017 RTO

| REF. # | DESCRIPTION                           | QTY. | PART #   |
|--------|---------------------------------------|------|----------|
| 1      | Pivot rod                             | 1    | E57441   |
| 2      | Spacer, base plate, 1/2"              | 1    | E5761-02 |
| 3      | Motor mount, large, hinged            | 1    | E5765    |
| 4      | Shield bracket                        | 2    | E5974    |
| 5      | Outer shield                          | 1    | EU0015   |
| 6      | Powerhead body weldment               | 1    | EU1172   |
| 7      | Powerhead discharge cover             | 1    | EU1173   |
| 8      | Bearing plate                         | 1    | EU1174   |
| 9      | Inner shield                          | 1    | EU1175   |
| 10     | Shield brace                          | 2    | EU1176   |
| 11     | Flange bearing w/ lock collar, 1-1/4" | 2    | J0010    |
| 12     | Screw, 3/8 – 16 x 1"                  | 14   | J0611    |
| 13     | Screw, 1/2 – 13 x 2-1/2"              | 2    | J0746    |
| 14     | Screw, 3/4 – 10 x 6"                  | 1    | J0824    |
| 15     | Hex nut, 3/8" – 16                    | 4    | J1020    |
| 16     | Hex nut, 1/2" - 13                    | 2    | J1040    |
| 17     | Hex nut, 3/4" – 10                    | 1    | J1051    |
| 18     | Lock washer, 3/8"                     | 4    | J1205    |
| 19     | Lock washer, 1/2"                     | 2    | J1215    |
| 20     | Washer, 3/4 x 1-1/4", 14ga            | 9    | J1260    |
| 21     | Hairpin clip, .12 x 2-1/2"            | 2    | J5412    |
| 22     | Decal, Do Not Enter Bin               | 1    | L0258A   |
| 23     | Decal, Replace Missing Shield         | 1    | L0271    |
| 24     | Decal, Avoid Serious Injury or Death  | 1    | L0281    |
| 25     | Decal, Keep Away from Moving Parts    | 1    | L0284    |

U-TROUGH 20° INCLINE POWERHEAD (EU1180)

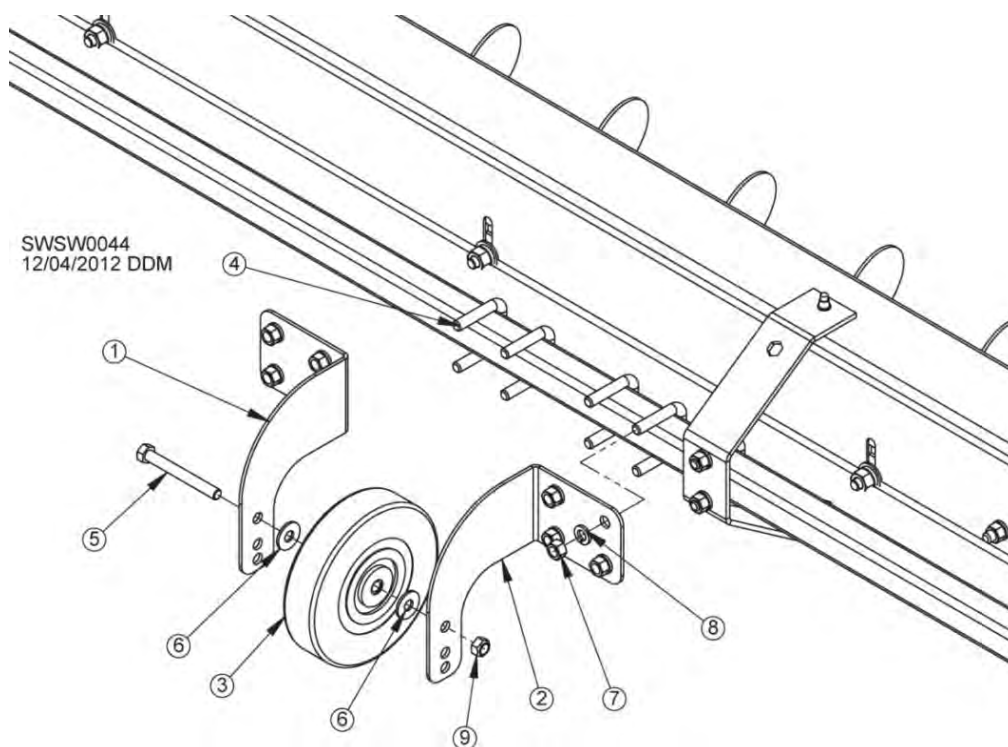


SWUT0114  
12/28/2017 RTO

**U-TROUGH 20° INCLINE POWERHEAD (EU1180) PARTS LIST**

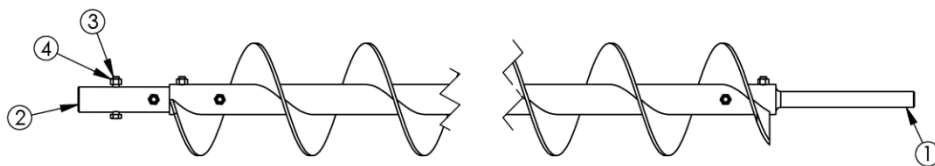
| REF. # | DESCRIPTION                          | QTY. | PART #    |
|--------|--------------------------------------|------|-----------|
| 1      | Shaft bearing                        | 2    | E5013     |
| 2      | Intermediate auger shaft             | 1    | E5016     |
| 3      | Incline auger shaft                  | 1    | E5017     |
| 4      | Unload shaft                         | 1    | E54143    |
| 5      | Incline auger, 5'                    | 1    | E56233    |
| 6      | Support shaft                        | 1    | E56241    |
| 7      | Pivot rod                            | 1    | E57441    |
| 8      | Hinged motor mount, large            | 1    | E5765     |
| 9      | Base plate spacer                    | 1    | E5768-03  |
| 10     | Shield bracket                       | 2    | E5974     |
| 11     | U-joint                              | 2    | E5985     |
| 12     | Outer shield                         | 1    | EU0015    |
| 13     | Inner shield                         | 1    | EU1175    |
| 14     | Incline trough                       | 1    | EU1181    |
| 15     | Sides stiffener                      | 1    | EU1181-10 |
| 16     | Bearing support                      | 2    | EU1183    |
| 17     | Damper spacer                        | 2    | EU1184    |
| 18     | Auger, 11" OD, 5" long               | 1    | EU1185    |
| 19     | Trough cover, upper                  | 1    | EU1186    |
| 20     | Trough cover, lower                  | 1    | EU1187    |
| 21     | U-joint cover                        | 1    | EU1188    |
| 22     | Shield brace                         | 2    | EU1189    |
| 23     | Key, 3/8" x 1-5/8"                   | 4    | G5316     |
| 24     | Four-bolt flange bearing, 2"         | 1    | J00493    |
| 25     | Screw, 5/16 – 18 x 1"                | 4    | J0537     |
| 26     | Screw, 3/8 – 16 x 1", self-drilling  | 4    | J06062    |
| 27     | Screw, 3/8 – 16 x 1"                 | 56   | J0611     |
| 28     | Screw, 7/16 - 14 x 3"                | 4    | J0722     |
| 29     | Screw, 1/2 – 13 x 1-1/2"             | 8    | J0730     |
| 30     | Screw, 1/2 – 13 x 3"                 | 4    | J0750     |
| 31     | Screw, 1/2 – 13 x 3-1/2"             | 5    | J0754     |
| 32     | Screw, 5/8 – 11 x 2"                 | 4    | J0791     |
| 33     | Screw, 3/4 - 10 x 6"                 | 2    | J0824     |
| 34     | Lock nut, 3/8" – 16                  | 8    | J1025     |
| 35     | Lock nut, 7/16" – 14                 | 4    | J1034     |
| 36     | Lock nut, 1/2" – 13                  | 17   | J1042     |
| 37     | Hex nut, 5/8" – 11                   | 4    | J1046     |
| 38     | Hex nut, 3/4" – 10                   | 2    | J1051     |
| 39     | Flat washer, 1/2"                    | 8    | J1125     |
| 40     | Split lock washer, 5/8"              | 4    | J1218     |
| 41     | Machine bushing, 3/4 x 1-1/4", 18ga  | 12   | J1261     |
| 42     | Rubber bushing, 1/2" ID              | 4    | J5021     |
| 43     | Hairpin clip, .12 x 2-1/2"           | 2    | J5412     |
| 44     | Decal, Do Not Enter Bin              | 1    | L0258A    |
| 45     | Decal, Avoid Serious Injury or Death | 1    | L0281     |
| 46     | Decal, Keep Away from Moving Parts   | 1    | L0284     |
| 47     | Sukup logo                           | 1    | L03161    |

## REAR CARRIER WHEEL



| REF. # | DESCRIPTION                       | QTY. | PART # |
|--------|-----------------------------------|------|--------|
|        | Rear carrier wheel kit            | -    | E6099  |
| 1      | Rear carrier wheel bracket, left  | 1    | E7741  |
| 2      | Rear carrier wheel bracket, right | 1    | E7740  |
| 3      | Rubber wheel, 6", w/ bushing      | 1    | J7271  |
| 4      | U-bolt, 3/8" - 16                 | 4    | J0644  |
| 5      | Bolt, 3/8 - 16 x 3-1/4"           | 1    | J0663  |
| 6      | Flat washer, 3/8"                 | 2    | J1117  |
| 7      | Hex nut, 3/8" -16                 | 8    | J1020  |
| 8      | Split lock washer, 3/8"           | 8    | J1205  |
| 9      | Lock nut, 3/8" - 16               | 1    | J1025  |

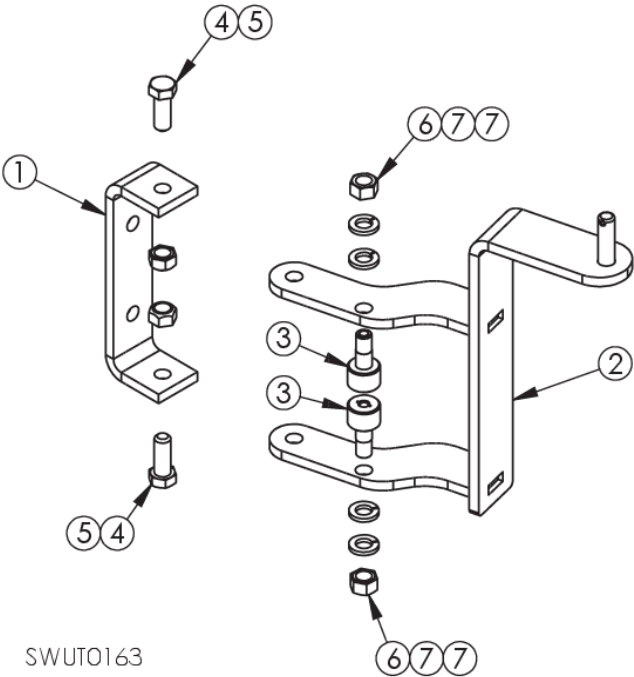
## UNLOAD AUGER OUTER SECTION



SWUTO111  
06/19/2017 RTO

| REF. # | DESCRIPTION           | QTY. | PART # |
|--------|-----------------------|------|--------|
| 1      | Shaft 2 x 18"         | 1    | E54142 |
| 2      | Connecting shaft, 10" | 1    | F48412 |
| 3      | Screw, 1/2 - 13 x 3"  | 6    | J0750  |
| 4      | Lock nut, 1/2" - 13   | 6    | J1042  |

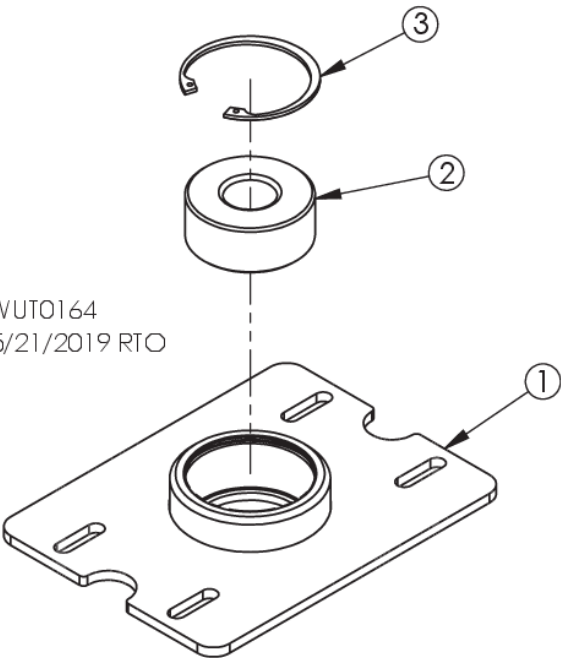
CLUTCH SHIFTER ARM ASSEMBLY (EU0906)



| REF. # | DESCRIPTION                 | QTY. | PART # |
|--------|-----------------------------|------|--------|
| 1      | Clutch bracket              | 1    | E5352  |
| 2      | Clutch shifter arm weldment | 1    | EU0907 |
| 3      | Bearing, 3/4", cam follower | 2    | J0035  |
| 4      | Screw, 3/8 - 16 x 1"        | 2    | J0606  |
| 5      | Lock nut, 3/8" – 16         | 2    | J1025  |
| 6      | Hex nut, 3/8" – 24          | 2    | J1030  |
| 7      | Split lock washer, 3/8"     | 4    | J1205  |

SWUT0163  
05/20/2019 RTO

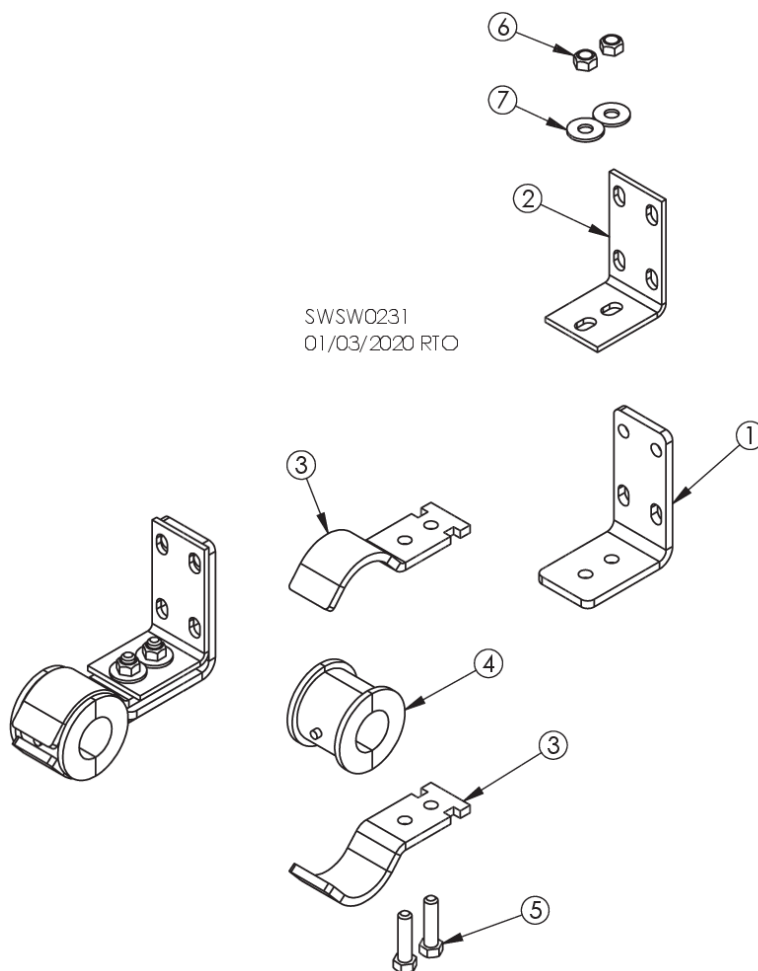
TOP GEARBOX BEARING ASSY. (EU1262)



| REF. # | DESCRIPTION                     | QTY. | PART # |
|--------|---------------------------------|------|--------|
| 1      | Bearing support weldment        | 1    | EU1261 |
| 2      | Bearing, 1.1811" ID, 2.8346" OD | 1    | J00599 |
| 3      | Snap ring, 2.047"               | 1    | J35991 |

SWUT0164  
05/21/2019 RTO

## SWEEP AUGER SUPPORT BUSHING



| REF. # | DESCRIPTION               | QTY. | 10" PART # |
|--------|---------------------------|------|------------|
| 1      | Bearing support bracket   | 1    | E60912     |
| 2      | Bearing support stiffener | 1    | E60913     |
| 3      | Bearing keeper            | 2    | EU8204     |
| 4      | Bushing, wood, 1-1/4" ID  | 1    | J0096      |
| 5      | Screw, 3/8 - 16 x 1-1/2"  | 2    | J0627      |
| 6      | Lock nut, 3/8" - 16       | 2    | J1025      |
| 7      | Flat washer, 3/8"         | 2    | J1117      |

## QUICK REFERENCE PARTS LISTS

### MOTORS

#### OPTIONAL - FARM-DUTY MOTORS (1750)

| HP  | PH | FRAME | SHAFT  | LBS. | PART # |
|-----|----|-------|--------|------|--------|
| 2   | 1  | E182T | 1-1/8" | 67   | H2175  |
|     | 3  | F145T | 7/8"   | 50   | H2475  |
| 3   | 1  | J184T | 1-1/8" | 113  | H2845  |
|     | 3  | E182T | 1-1/8" | 60   | H3345  |
| 5   | 1  | L184T | 1-1/8" | 122  | H3675  |
|     | 3  | F184T | 1-1/8" | 72   | H4190  |
| 7.5 | 1  | K215T | 1-3/8" | 130  | H4900  |
|     | 3  | 213T  | 1-3/8" | 84   | H4910  |
| 10  | 1  | 215T  | 1-3/8" | 143  | H5300  |
|     | 3  | 215T  | 1-3/8" | 94   | H5310  |
| 15  | 3  | 254T  | 1-5/8" | 141  | H6110  |
| 20  | 3  | 256T  | 1-5/8" | 188  | H6610  |

All motors are TEFC (Totally enclosed, fan cooled).

### MOTOR PULLEYS

| DIA.      | BORE   | GROOVE | SINGLE | DOUBLE  | TRIPLE |
|-----------|--------|--------|--------|---------|--------|
| 3-1/2" OD | 5/8"   | B      | J0309  | ---     | ---    |
|           | 7/8"   | B      | J0310  | J0315   | ---    |
|           | 1-1/8" | B      | J0312  | J0317   | ---    |
|           | 1-3/8" | B      | J0313  | J0318   | J0331  |
| 3-3/4" OD | 1-5/8" | B      | ---    | J03211* | J0332* |

\*Requires split-taper bushing to obtain bore size. Order "SH" for 3-3/4".

### SPLIT TAPER BUSHINGS

| BUSHING | 1-1/8" BORE | 1-3/8" BORE | 1-5/8" BORE | 1-7/8" BORE |
|---------|-------------|-------------|-------------|-------------|
| SD      | J04191      | J04264      | J04263      | J04284      |
| SDS     | J04194      | J04241      | ---         | ---         |
| SH      | ---         | ---         | J04242      | ---         |

### **CONTACT INFORMATION**

Owner's manuals are available from Sukup and additional copies can be requested at the address, phone number or e-mail address shown below. Please indicate manual number L143541 when requesting U-Trough Power Sweep with Extended Center Sump Owner's Installation & Operation Manual.

#### **Sukup Dealer Information**

|                            |
|----------------------------|
| <b>Dealer name:</b> _____  |
| <b>Address:</b> _____      |
| <b>Cell phone:</b> _____   |
| <b>Office phone:</b> _____ |
| <b>Fax:</b> _____          |

#### **In Case of Emergency**

Have emergency numbers and written directions to your location near a phone, and arrange and practice a safety plan.

|                                         |
|-----------------------------------------|
| <b>Ambulance • Fire • Police: 9-1-1</b> |
| <b>Bin rescue team:</b> _____           |
| <b>Local EMS team:</b> _____            |
| <b>911 address of work site:</b> _____  |
| <b>Directions to work site:</b> _____   |



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