



# Sweepway®

**The power sweep unloading system**

## Owners Installation & Operation Manual

**Sukup Manufacturing Company**

1555 255th Street, Box 677

Sheffield, Iowa, USA 50475-0677

Phone: 641-892-4222

Fax: 641-892-4629

Website: [www.sukup.com](http://www.sukup.com)

E-mail: [info@sukup.com](mailto:info@sukup.com)

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## INTRODUCTION

Congratulations on your purchase of the Sweepway Unload system. Your Sukup Sweepway is 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 your convenience fill in the following information:

Sweepway: 6" \_\_\_\_\_ 8" \_\_\_\_\_ 10" \_\_\_\_\_ Bin Diameter:

With Horizontal Unload: Single Motor Drive \_\_\_\_\_ PTO Drive \_\_\_\_\_

With Vertical Unload: 16' \_\_\_\_\_ 20' \_\_\_\_\_  
2 Motor Drive (2 Motor Top \_\_\_\_\_ 2 Motor Bottom \_\_\_\_\_) Single Motor Drive \_\_\_\_\_ PTO Drive \_\_\_\_\_

25° Incline: 6" to 8" \_\_\_\_\_ 8" to 10" \_\_\_\_\_ 20° Incline: 10" to 12" \_\_\_\_\_

Date of Purchase: \_\_\_\_\_

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## Sukup Manufacturing Company

PO Box 677 Sheffield, IA 50475

Phone: 641-892-4222 Fax: 641-892-4629

E-mail: [Info@sukup.com](mailto:Info@sukup.com) Visit us at: [www.sukup.com](http://www.sukup.com)

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### LIMITED WARRANTY

**SUKUP MANUFACTURING COMPANY (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. Should any part prove defective within the warranty period, the part will be replaced without charge F.O.B. Sukup Mfg. Co., Sheffield, Iowa USA or Distribution Centers - Arcola, Illinois; Aurora, Nebraska; Cameron, Missouri; Defiance, Ohio; Jonesboro, Arkansas; Watertown, South Dakota. To obtain warranty, a copy of original invoice is required.

THE FOREGOING LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF MERCHANTABILITY, FITNESS OR PURPOSE AND OF ANY OTHER TYPE, WHETHER EXPRESSED 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 (i.e. Tires, Belts, Motors, etc.) ARE COVERED UNDER WARRANTIES OF THEIR RESPECTIVE MANUFACTURERS AND ARE EXCLUDED FROM COVERAGE UNDER THE SUKUP WARRANTY. Since the down augers are so critical to the successful operation of the stirring machine, Sukup Mfg. will not warranty any machines unless they are equipped with Sukup down augers.

**BASIC WARRANTY** - All Sukup manufactured products are warranted for one year from date of purchase.

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

**EXTENDED STIRRING AUGER WARRANTY** - Stirring Augers are warranted 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 GRAIN DRYER WARRANTY** - Sukup warrants portable grain dryers for two years from date of purchase.

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

**ELECTRIC MOTOR WARRANTY** - The manufacturers of electric motors warranty their motors through authorized service centers. 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 the motor repair shop fill out the warranty report form as if they were providing warranty service. State on the report the reason for the refusal. Send the report, motor nameplate, and proof of purchase date to Sukup. If electric motor warranty is not satisfactorily handled by motor service center, contact Sukup for assistance. Warranty may also be obtained by returning motor to Sukup Mfg. Co. or Distribution Centers with prior authorization. **NOTE:** Sukup will not be responsible for unauthorized motor replacement or repair.

**WARRANTY CERTIFICATION** - Warranty registration card should be mailed within two weeks 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 are used, or if equipment is modified or altered in any way not approved by Sukup.

©12/19/06

# RETURNED GOODS POLICY

## WARRANTY ITEMS

C.O.D. shipments will not be accepted. Warranty parts may be returned to Sukup Mfg. Co., Sheffield, Iowa or Distribution Centers - Arcola, Illinois; Aurora, Nebraska; Defiance, Ohio; Jonesboro, Arkansas; Cameron, Missouri; Watertown, South Dakota.

Warranty items may be returned without prior authorization, provided all the following information is included:

1. Part number, description of part, how it failed and date of failure.  
(Give detailed explanation of what happened - do not just write "defective".)
2. A copy of invoice, with date, on which part was originally obtained and date of installation.
3. Preferences as to whether part is to be replaced, repaired or credit issued.
4. Complete company name, address and telephone number of firm receiving replacement part or credit.
5. State name and phone number of a person that should be contacted if there are further questions.

NOTE: To obtain two-year stirring auger warranty, top 18" of down auger must be returned.  
Due to the affect that stirring augers have on bearings, motors, belts, etc, using non-Sukup stirring augers voids warranty.

## NON-WARRANTY ITEMS

C.O.D. shipments will not be accepted. Equipment returned must have proper approval by a Sukup representative through a **Return Authorization Form**.

A copy of the original invoice pertaining to item must be provided when requesting credit. Credit will be based upon original invoice price or price at time of return, whichever is lower.

There is a 25% restocking charge on all equipment authorized for return unless equipment is under warranty or was shipped incorrectly.

No new equipment may be returned for credit or exchange without advanced written authorization from Sukup Manufacturing Company.

Custom-built or obsolete equipment may not be returned.

## Returned Goods Allowance Guidelines

- 100% -----Parts under warranty.
- 75%--Restocking new merchandise; undamaged and in original carton.
- 65%----- New merchandise; requires repainting or repacking.
- 0-60% ----- Damaged new equipment (describe extent of damage)
- 0% ----- Used equipment, out of warranty, unsalable merchandise, obsolete equipment, custom-built equipment and unauthorized returns.

# SWEEPWAY SAFETY SECTION

## I. General Safety Practices

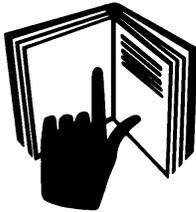
### RECOGNIZE SAFETY ALERT SYMBOL



The above safety-alert symbol means "Attention! Be Alert! Your personal safety is involved!" This symbol draws your attention to important instructions concerning your personal safety. Read the messages carefully to avoid personal injury or death.

### FOLLOW MACHINE SAFETY SIGNS & MESSAGES

Observe safe operating practices. Carefully read this manual and all safety signs on your equipment. Safety signs must be kept in good condition. Replace missing or damaged safety decals or shields; available from Sukup Manufacturing Co., Box 677, Sheffield, Iowa 50475 at no charge.



Learn how to use controls and operate equipment. Do not let anyone operate unit without thorough training of basic operating and safety procedures.

Make no unauthorized modifications to equipment. Modifications may endanger function and/or safety of unit. Periodically check all mechanical and electrical components. Keep unit in good working condition.

Have emergency numbers near your telephone in case of emergency. A place to record phone numbers is provided below.

<b>Doctor:</b> _____
<b>Emergency Medical Squad:</b> _____
<b>Ambulance Service:</b> _____
<b>Hospital:</b> _____
<b>Fire Department:</b> _____
<b>911 Address:</b> _____
<b>Written Directions to Your Location:</b> _____



### DANGER!

Never enter bin unless all power is locked off and another person is present.

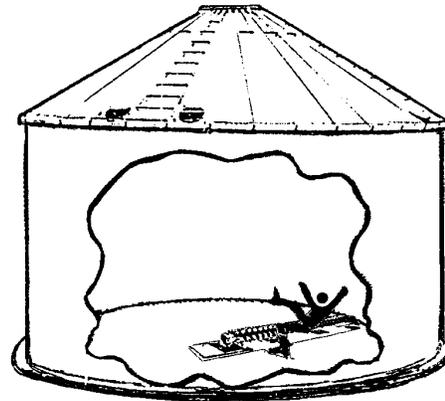
Rotating augers can kill or dismember!



### NEVER, NEVER clean out bin with augers running!

When bin is nearly empty, sweep (floor) augers travel at increasing speed; just turning around can give augers time enough to trap you. Exposed auger in sump can cause serious injury if stepped or fallen into.

Failure to follow the above precautions may cause serious injury or death.



### NEVER ENTER BIN



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

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 may cause serious injury or death.

## I. General Safety Practices (continued)



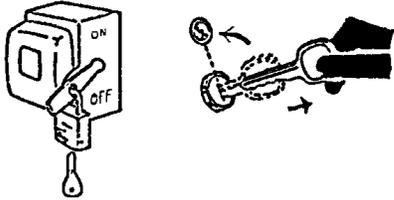
### CAUTION:

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



Have your electrician install a main power disconnect switch capable of being locked only in the OFF position. Mark disconnect clearly as to the equipment it operates.

### Service Disconnect



Always **LOCK OFF** main power disconnect switch whenever equipment is not in use or when servicing unit.

To **LOCK OFF PTO** driven units, shut off tractor, disconnect PTO shaft, and remove ignition key from tractor.



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

Failure to do so may cause serious injury or death.



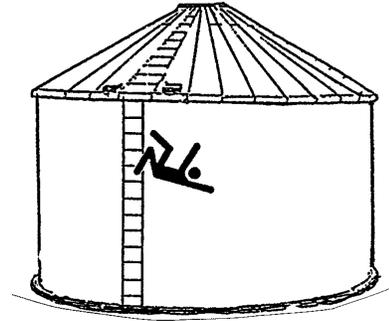
**CAUTION:** Metal edges are sharp. To avoid injury wear protective clothing and handle equipment and parts with care.

Failure to do so may cause serious injury or death.



**CAUTION:** Metal is slippery when wet. To avoid falls, never carry items while climbing on bin. Maintain secure hand and foothold when climbing on bin.

Failure to do so may cause serious injury or death.



**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 the above precautions may cause serious injury or death.



**DANGER:** Keep away from rotating drive line. Entanglement can cause serious injury or death. Keep all drive shields and guards in place and in good condition. Tractor PTO yoke must be locked in place. Adjust tractor hitch to proper dimensions.



## II. Safety Decals for Sweepway

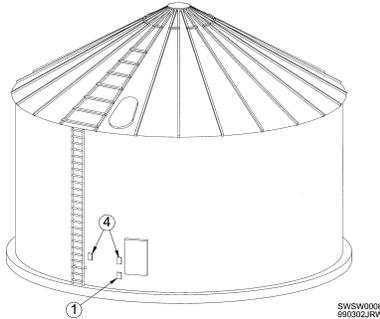
Safety decals should be mounted on your equipment as shown in this safety section. Yearly and prior to equipment use, please check that all decals and shields are in place and in good legible condition.

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

Decals #1 and #4 must be mounted on-site.  
Decals #2, #3, and #6 are factory-mounted.  
Decal #5 is factory-mounted on Power Take-offs.

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

1. **WARNING DECAL** - L0281 - Safe operation. **Mount this decal** on bin sheet near door handle.



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



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



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



5. **DANGER DECAL** - L0250 - Keep away! Rotating drive line.

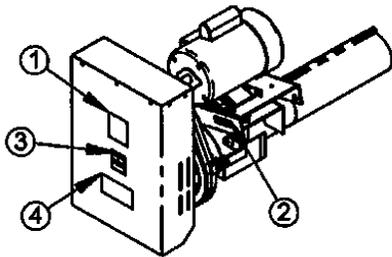


6. **DANGER DECAL** - L03061 - Keep away when auger is running!

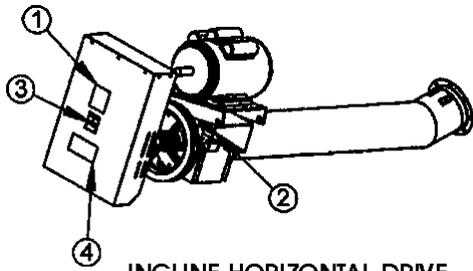


## II. Safety Decal Placement for Sweepway

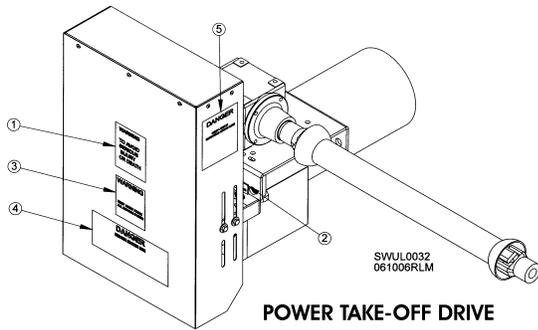
### HORIZONTAL



STANDARD ONE MOTOR DRIVE

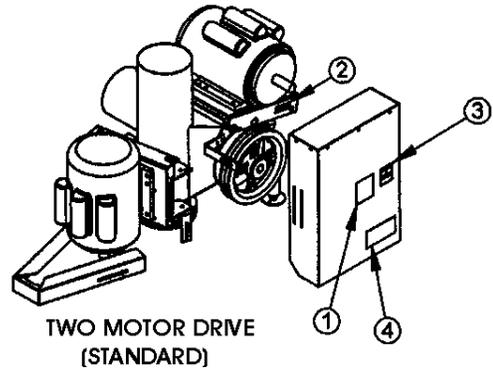


INCLINE HORIZONTAL DRIVE

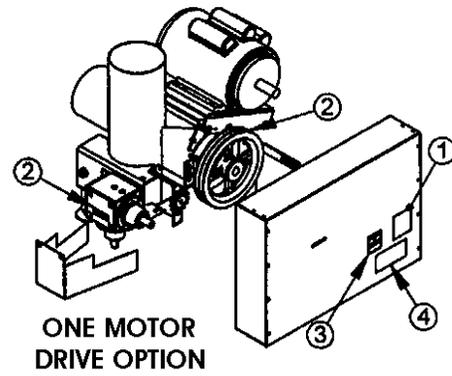


POWER TAKE-OFF DRIVE

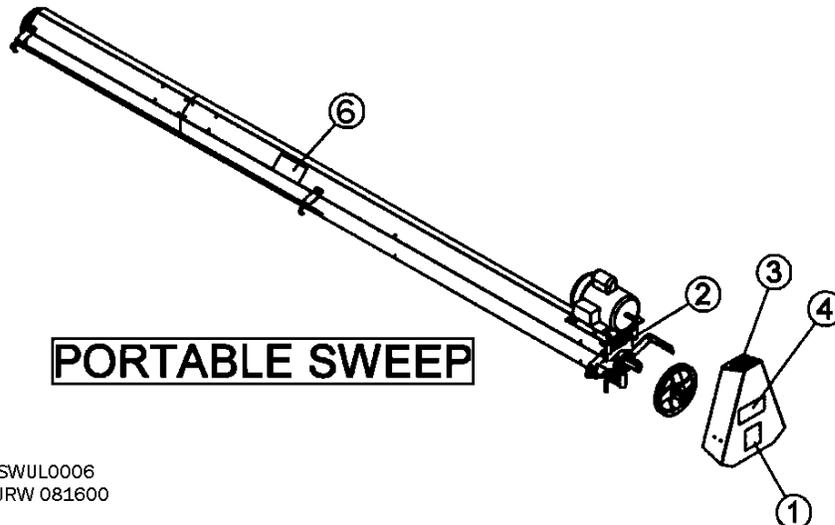
### VERTICAL BOOT



TWO MOTOR DRIVE  
(STANDARD)

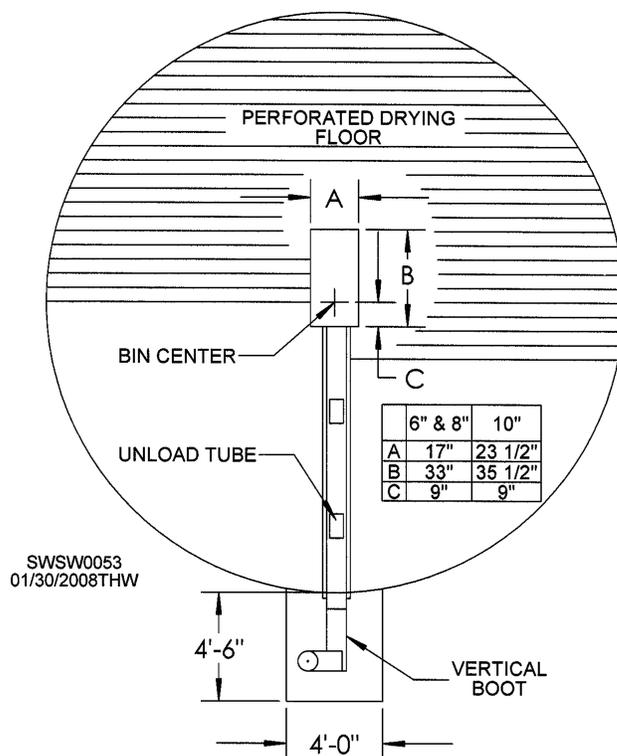


ONE MOTOR  
DRIVE OPTION



SWUL0006  
JRW 081600

# PREPARATION



**Fig. 1**

1. a. Determine side of bin from which you wish to unload. Unloading tube must have unobstructed path to center sump. Floor supports must run parallel to unloading tube; on existing systems, it may be necessary to re-install the floor. Fig. 1

b. Check floor height.

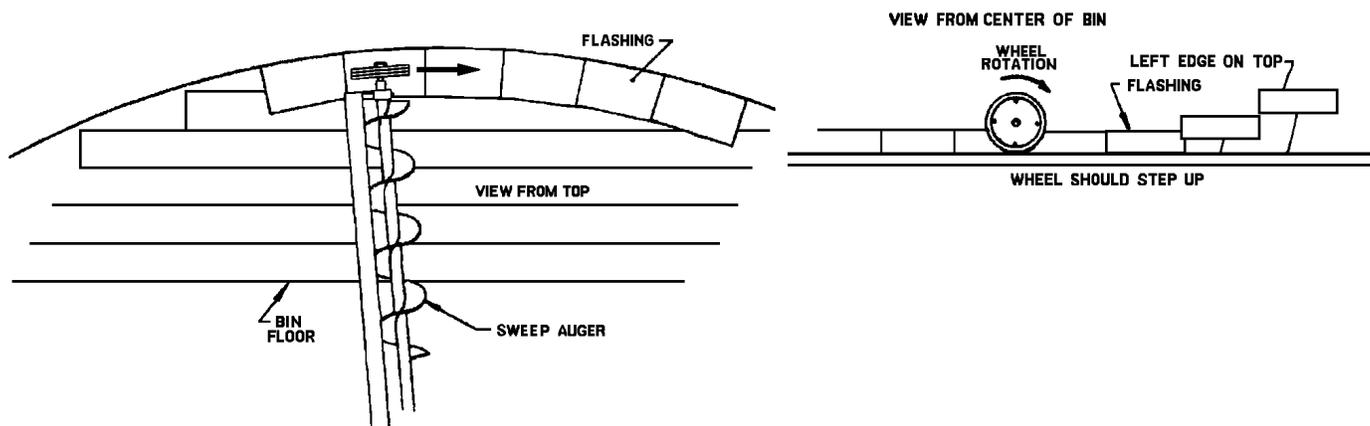
Minimum plenum height required for installation of sweep is:

6" and 8" ----- 12"  
10" ----- 13-1/4"

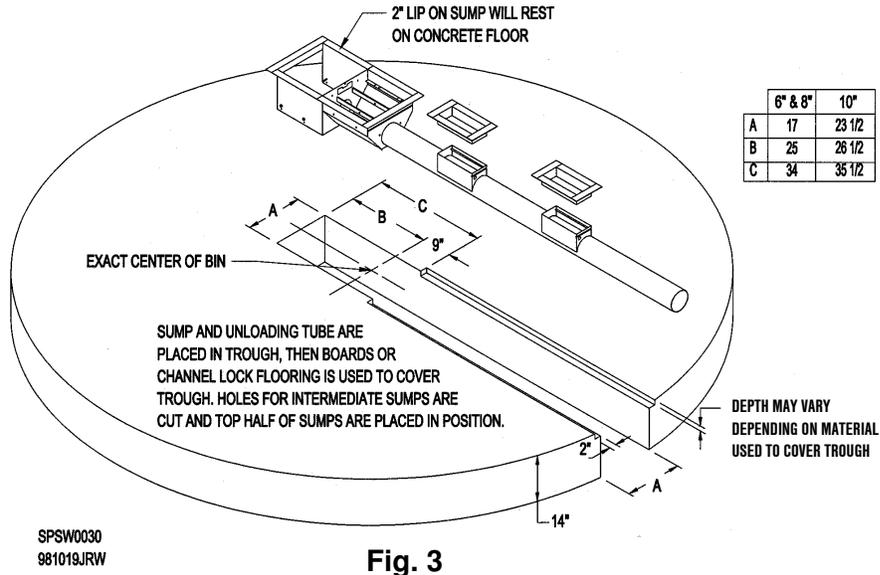
Maximum floor thickness is:

6" and 8" ----- 2-3/4"  
10" ----- 1-3/4"

c. **IMPORTANT:** Floor flashing must be installed as shown in Fig. 2 to prevent excessive wear on the drive wheel. The sweep moves in a clockwise direction so check that flashing is overlaid so the sweep wheel "steps up".



**Fig. 2**

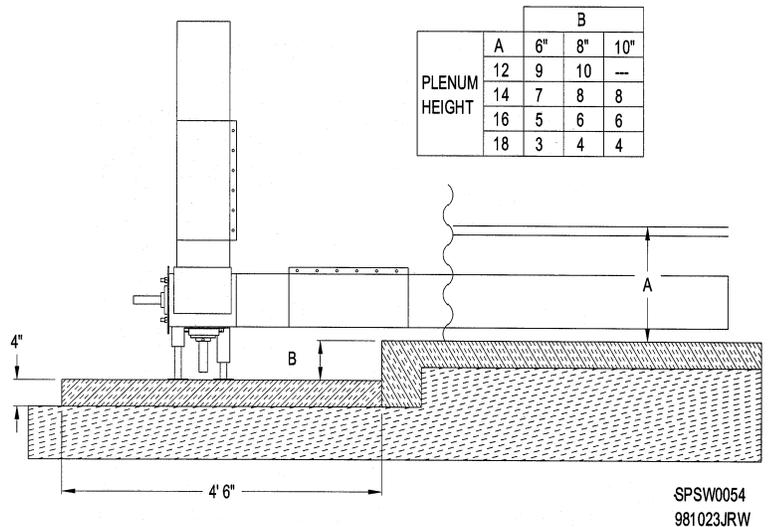


**2. FOR CONCRETE TROUGH INSTALLATION:**

Sump and unloading tube are placed in trough, because of moving slide gates and pull rods, concrete CANNOT be poured over sweep tube. Cover trough with boards or channel lock flooring. **NOTE:** Center of TOP gearbox must be in exact center of bin. Fig. 3

3. A concrete pad, 4'6" x 4' measured from bin foundation, is required on sweeps with vertical. This pad should be poured below the level of concrete floor of bin, as shown in Fig. 4.

**NOTE:** Loosen threaded support leg in winter and re-tighten in spring.



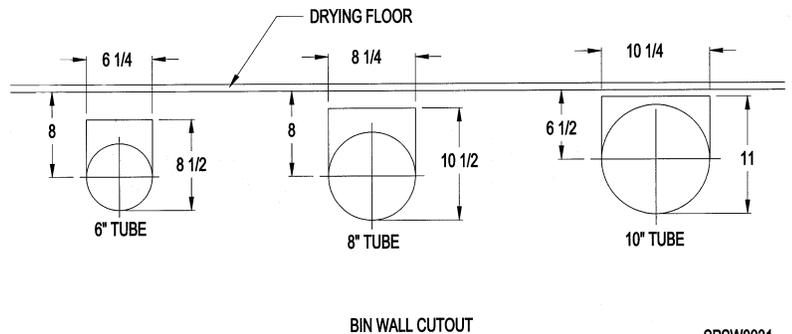
**INSTALLATION**

**NOTE: Instructions are written so that sweep can be installed in an existing system when the floor is arranged as shown in Fig. 1.**

**In new installations, check floor support spacings, making sure correct supports are used around unload tube.**

1. Cut hole in bin at desired unloading location, with center of hole located (Specified distance shown in Fig. 5) from top of drying floor. Fig. 5. The size of the hole is as shown below:

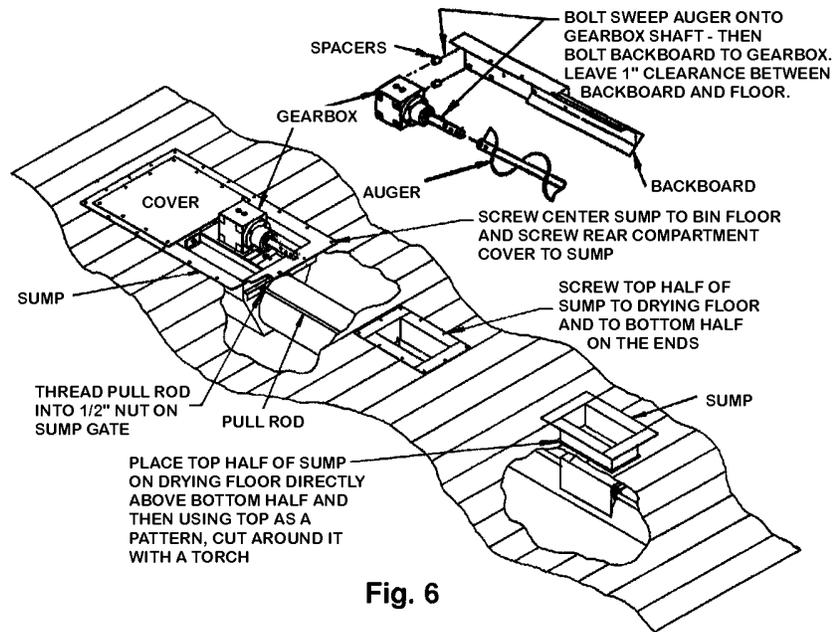
- 6" Sweep, cut 6-1/4" x 8-1/2" hole
- 8" Sweep, cut 8-1/4" x 10-1/2" hole
- 10" Sweep, cut 10-1/4" x 11" hole



2. Locate center of bin. Center sump is positioned so that center of top gearbox is exact center of bin. Center sump must align with bin wall opening.

Position sump on top of bin floor. With spray paint, mark pattern around sump on floor. Cut appropriate size hole for sump. Fig. 1.

- Lower sump into hole with unloading sump toward bin wall opening. Fig. 6. Block up center sump at bottom using non-flammable material. Place extra floor supports around sump for additional support.



**Fig. 6**

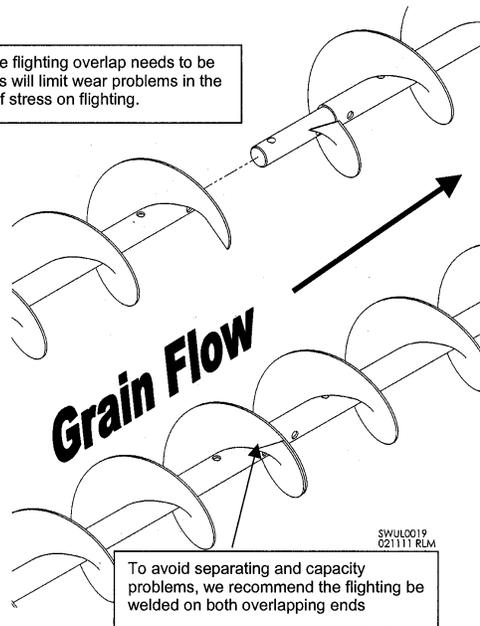
- With unloading sumps on the **top left** side of tube, slide unloading tube through bin wall and **into sump**. Rotate tube so that intermediate sumps are directly upwards and bolt tabs welded on tube to sump through holes provided in sump. Fig. 6 and 7.
- Slide unloading auger, square end first, through unloading tube and over solid shaft in sump. Fig. 7. For units with low-boy extension, it may be advisable to drill and pin through unload auger and square shaft to prevent auger from pulling out when powerhead is detached. This is necessary only if powerhead is to be changed frequently.

**NOTE: In all installation instruction, right and left shall be as you face center of bin.**

#### ADDING EXTENSIONS TO UNLOAD FLIGHTING

##### WITH OVERLAP

When adding an extension the fighting overlap needs to be on backside of grain flow. This will limit wear problems in the future and put least amount of stress on fighting.



##### WITHOUT OVERLAP

Using bolts and turning flighting 180° the extension should be lagging not leading the inside section of flighting. If working in rice and/or other small grains the bolts may be omitted and the shaft can be welded into place to match flights. Leave a slight gap between tubes to get a good weld on the connecting shaft and tube.

**Fig. 7**

6. Slide bin collar over tube protruding from bin. Rotate bin collar so clutch rod and lock assembly hole is on the lower right side. Collar clamps will be horizontal. Mark clutch hole and cut through bin wall. Using metal screws, fasten bin collar to bin wall. Caulk around collar. Do not tighten bin collar clamps yet. Fig. 9
7. Slide clutch rod through bin collar and into rear compartment of center sump. On 30' bins and larger, bolt clutch rod support clamp midway on unload tube, and slide clutch rod through support. Fig. 9 Attach clutch rod to clutch arm with 1/2" x 1-1/2" pin and hairpin clip. Fig. 8

Clutch is factory-set. However, check clutch that teeth engage and disengage properly. There should be approximately 1/4" clearance when clutch is disengaged. Fig. 8. Three-dog clutch disc may be moved by loosening bolts to allow adjustment.

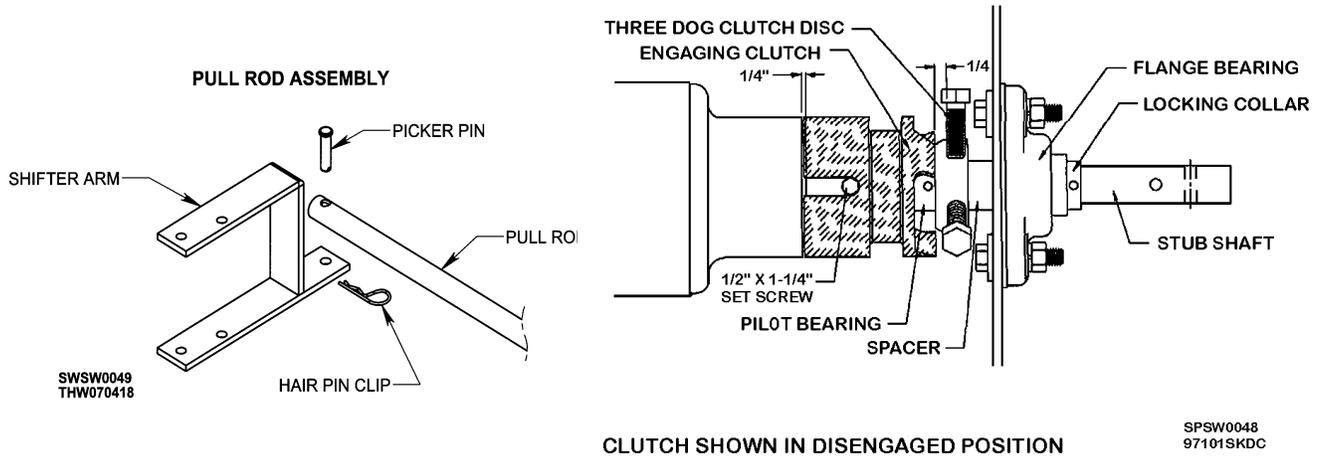
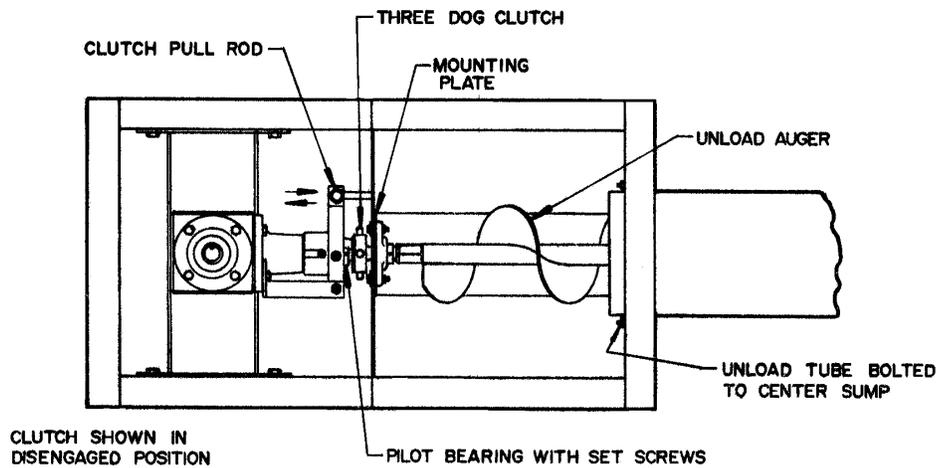


Fig. 8



8. Refer to Fig. 6. Locate sump hole positions directly above intermediate sumps on unloading tube, mark it, and cut with torch. Do this for each sump hole. Quantity of sumps varies with diameter of bin.
9. Reach through intermediate sump hole nearest the main center sump and guide center sump pull rod up to 1/2" nut welded to center sump slide. Fig. 6. Thread pull rod into nut until tight.
10. Slide 7/8" handle onto intermediate sump rod. Slide 1/2" handle over center sump pull rod. Tighten set screws. Peen ends of rods so handles cannot pull off. Check to see that all sumps open freely. Fig. 9
11. Place top half unloading sumps through hole cut in drying floor and into bottom half sump on unloading tube. Secure flange to drying floor with Tec screws. **NOTE:** If tube is not level the intermediate sump, tops may have to be trimmed so they do not interfere with sump gates. Fig. 6. Do this for each unloading sump.
12. With all unloading sumps in position, and all sump slides operating freely, tighten clamps on bin collar outside of bin. Fig. 9.
13. Slide 1" shaft collar onto pull rod with clutch disengaged (rod pushed in). Fig. 9. Push collar on all the way. Lift up on latch and slide shaft collar all the way against bin collar so that it is sandwiched between latch and bin collar. Tighten with setscrews. When latch is lifted, clutch can be engaged (rod pulled out). Latch will keep clutch firmly disengaged as well as preventing accidental engaging of equipment. Fig. 9.

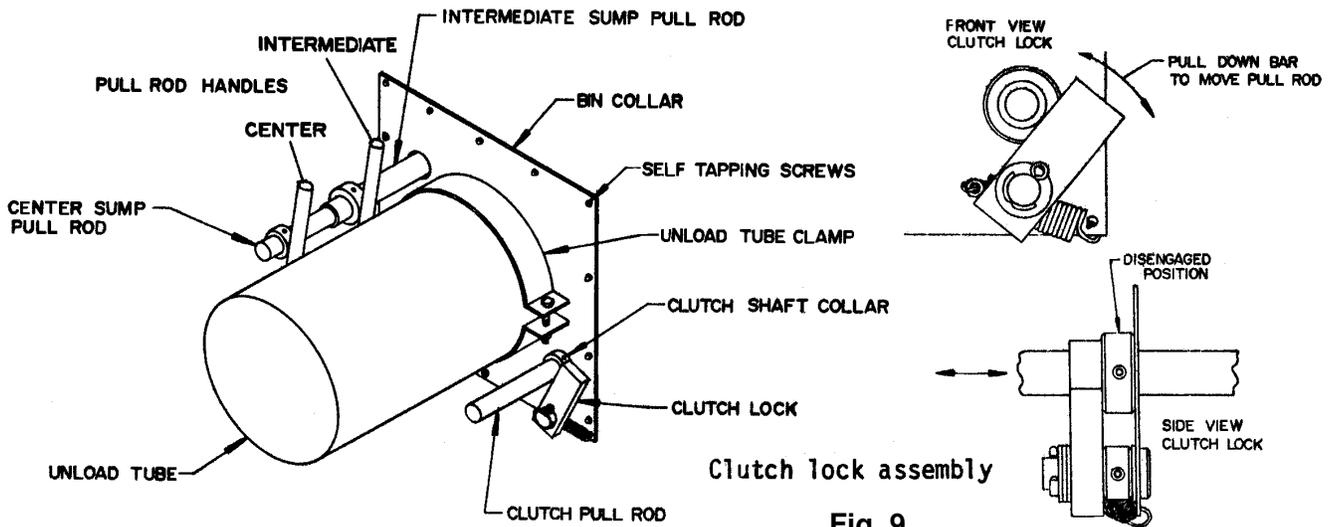


Fig. 9

14. a. Bring sweep auger and backboard into bin. Bolt sweep auger to gearbox shaft, using the two holes in gearbox shaft that allow sweep wheel to run as close to bin wall as possible, and still clear the sweep stop when it is in operating position. Position backboard bracket slots over bolt holes on right side of gearbox. Place spacers between backboard and gearbox. Bolt through bracket and spacers into gearbox. Tighten securely. Fig 6

**THERE SHOULD BE AT LEAST 1" CLEARANCE BETWEEN FLOOR AND BACKBOARD.**

- b. **FOR SPLIT BACKBOARD ASSEMBLY (OVER 60':)**

Sukup recommends that the bin is swept in stages, with the inside sweep section installed and operated for the first revolution around the bin, then adding the outside section to complete sweeping the remainder of the bin.

*The above procedure is recommended. However, bin can be swept in one pass using these specifications:*

- (1) Up to 48' bin: Regular anchor bolt and foundation as specified in manual.
- (2) 54'-60' bin: Regular bin as specified in price sheet with 1" grade 5 anchor bolts, 17" deep (for Invert-T) or deep into stemwall ring rebar zone (for T-Cap), Minimum 7.5" from anchor to outside edge of stemwall. No extra anchor is needed.

**Never enter bin while equipment is operating. Shut off complete system before adding outer section.**

After installing inside section, position inside section over top of intermediate sumps. Lay the outside section of sweep auger and backboard in line with the inside section, leaving 6" between sections for assembly. When outside sections of sweep auger and backboard are needed, unbolt sweep wheel from inside section. Line up the inside section with outside section. Connect the two backboards together by attaching splice stiffener and splice brace to the backboards and bolting together. Fig. C.

Wear plates are furnished at no charge for those who request them for split backboards.

15. Bolt stop to bin wall so that the auger will be stopped over unloading sumps. It should be mounted near the door so that it can be positioned without entering bin. Fig. 10.
16. Fasten sump cover over rear compartment of main sump with metal screws. Fig. 6.

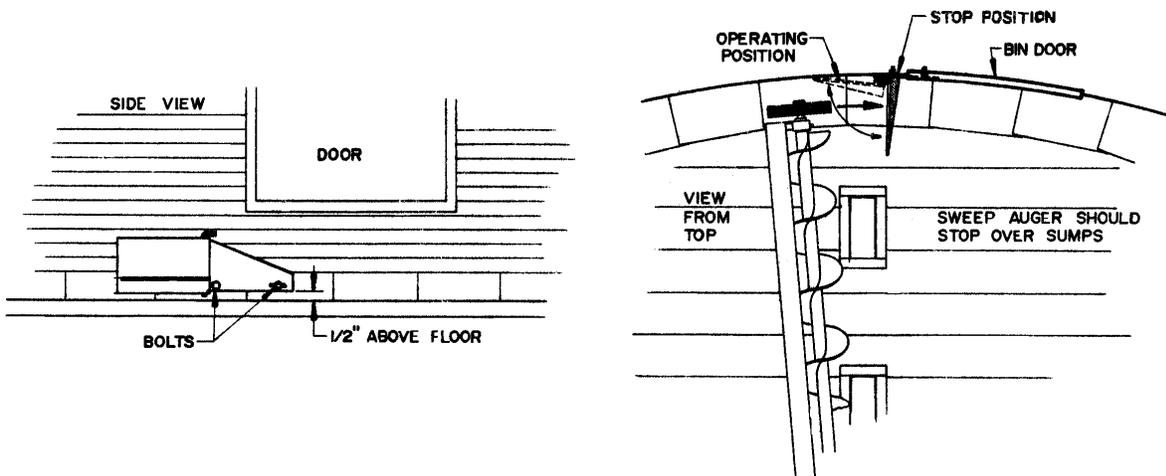


Fig. 10

# SWEEPWAY BACKBOARD SCRAPER INSTALLATION (GALVANIZED)

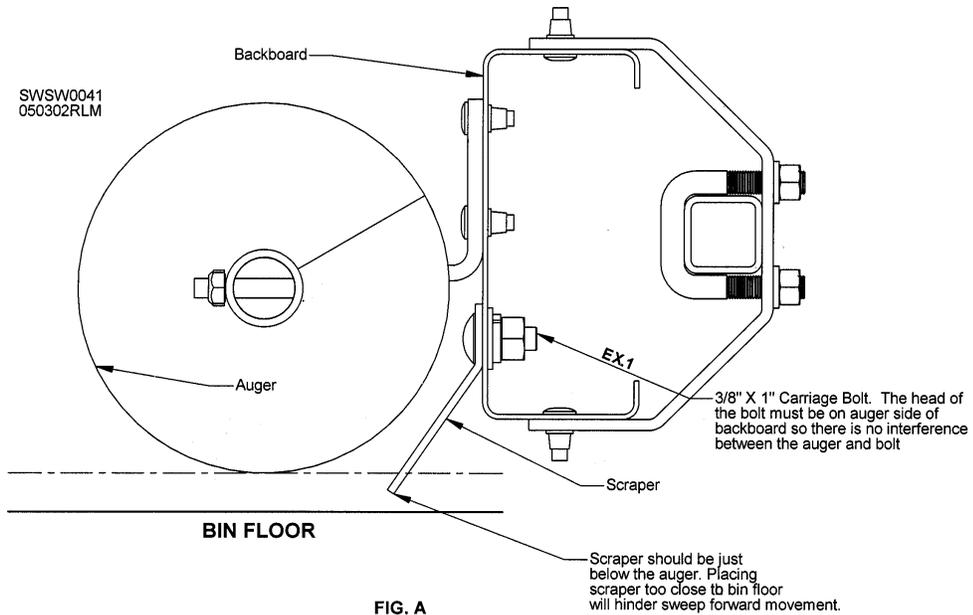


FIG. A

## Bins **LESS** than 60'

1. a. Start at drive wheel end of the backboard (Fig. B, Ex 4). Take a scraper and place short side flat against the front side of the backboard (Fig. A). Align scraper holes with slots in backboard. (Fig. B, Ex. 3) Attach using 3/8" x 1" carriage bolt, flat washer, lock washer, and nut. (Fig. A, Ex. 1)

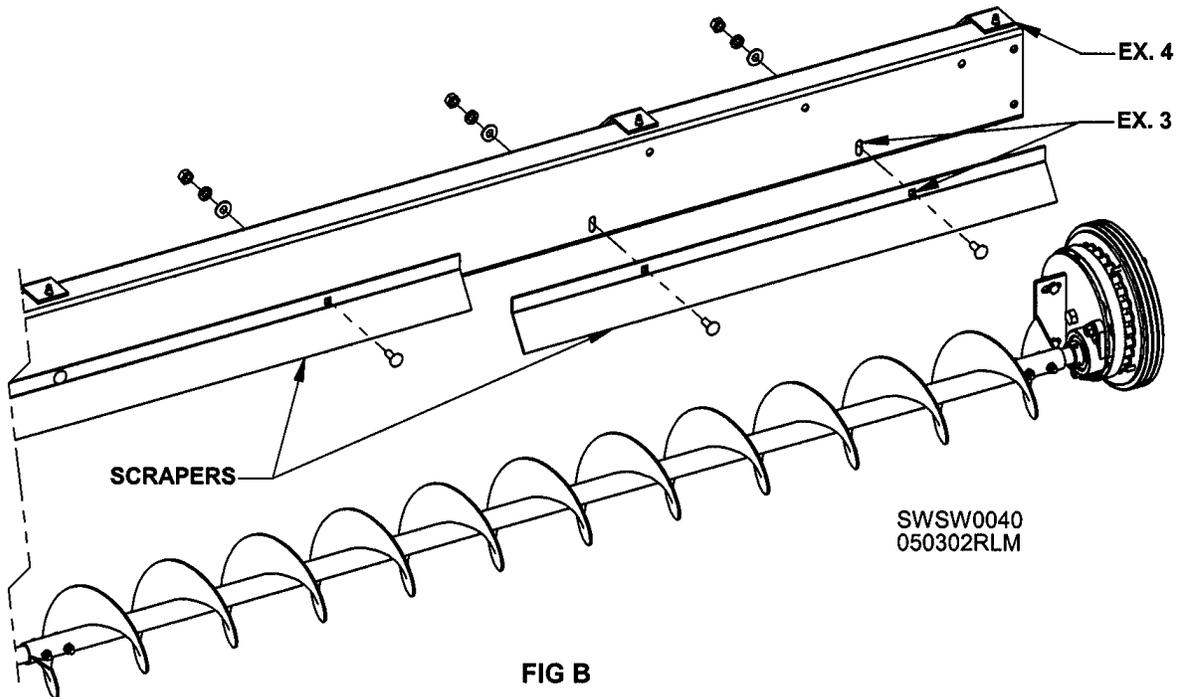
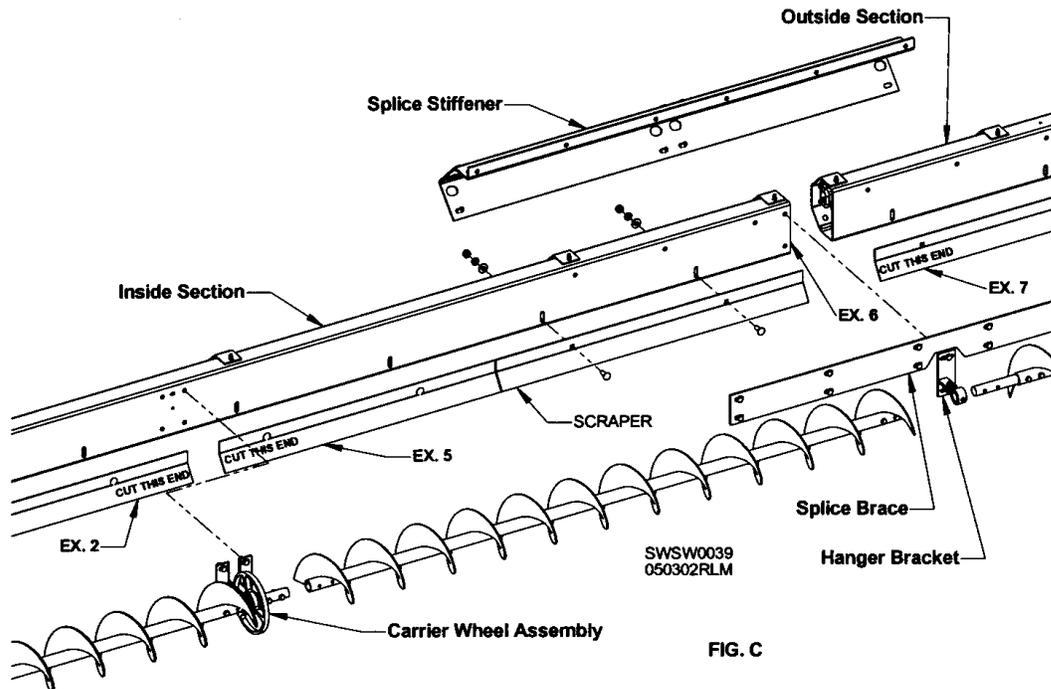


FIG B

## Bins **GREATER** than 60'

1. b. Start at splice end of the **inside section** of backboard (Fig. C, EX. 6). Take a scraper and place short side flat against the front side of the inside section of backboard (Fig. A). Align the scraper holes with the slots in the backboard. (Fig. B, EX 3). The next scraper is shorter so the scraper does not interfere with carrier wheel. The scraper (Fig. C, EX. 5) needs to be to a length of 32-1/2". Align holes in scraper with slots in backboard and attach. Following this scraper is (Fig. C, EX. 2) it needs to be cut to a length of 35-5/8". Attach last scraper on inside section using same method as 1a.

**NOTE: When cutting scrapers, be sure to cut the proper end.**



2. a. The first scraper on extension (Fig. C, EX. 7) needs to be cut to a length of 32 1/2". Place it against the front side of the extension backboard closest to splice (Fig. C, EX. 7). Align the scraper so that the holes in the scraper line up with the slots in the backboard (Fig. B, EX. 3). Attach the scraper to the backboard using the 3/8" x 1" carriage bolts with the head of the bolt on the inside (auger side) of the backboard (Fig A, EX. 1). Use the flat washer, lock washer and nut on the backside of the backboard. Adjust the scraper so they are spaced away from the floor at the desired distance and tighten. (Fig. A).
- b. Attach the extension to the inside section of the backboard with the **splice brace**. After brace has been attached to both inside and outside sections of backboards attach splice stiffener to backboard and splice brace.
- c. Attach remaining scrapers to the backboard using the same method as the first. **NOTE:** Depending on bin diameter, the last scraper on the extension could be 18" long, the slots punched in the backboard will determine which scraper should be used.

## **All bin sizes**

3. Attach the scrapers to the backboard using the 3/8" x 1" carriage bolts with the head of the bolt on the inside (auger side) of the backboard (Fig. A, EX. 1). Use the flat washer, lock washer, and nut on the backside of the scraper. Adjust the scraper so they are spaced away from the floor at the desired distance wanted and tighten. NOTE: Setting scraper too low will limit forward travel of sweep auger and reduce unload capacity.
4. Continue attaching the scrapers on the backboard until they are all installed or until all visible slots in backboard have been filled. If the scraper hits the center attachment bracket, the scraper will need to be cut. **DO NOT CUT THE BACKBOARD ATTACHMENT BRACKET.** The scraper closest to the gearbox may only be 18" long depending on bin diameter. All scrapers **may not** be used.
5. Once all the scrapers and all other equipment for the bin has been installed, **exit the bin** and engage the sweep auger and start the unload system. Allow the sweep to make one complete revolution in the bin to make sure there is nothing on the floor that will catch on the scrapers.
6. If the scrapers catch on anything stop the unload system, move the obstacle on the floor, if it cannot be moved, raise the scraper that was hitting the obstacle until it clears. Back the auger up a couple feet, **exit** the bin and resume the test.
7. Once the scrapers are adjusted so the auger can make its revolution in the bin freely, shut the power off and make sure the scrapers are tightened. Once the bin has been filled the bin floor and sweep may flex because of the weight of the grain. It may be necessary to adjust the scrapers again. Make sure sweep auger is positioned over intermediate sumps.

**TO AVOID SERIOUS INJURY OR DEATH  
NEVER ENTER BIN WHEN SWEEP IS RUNNING**

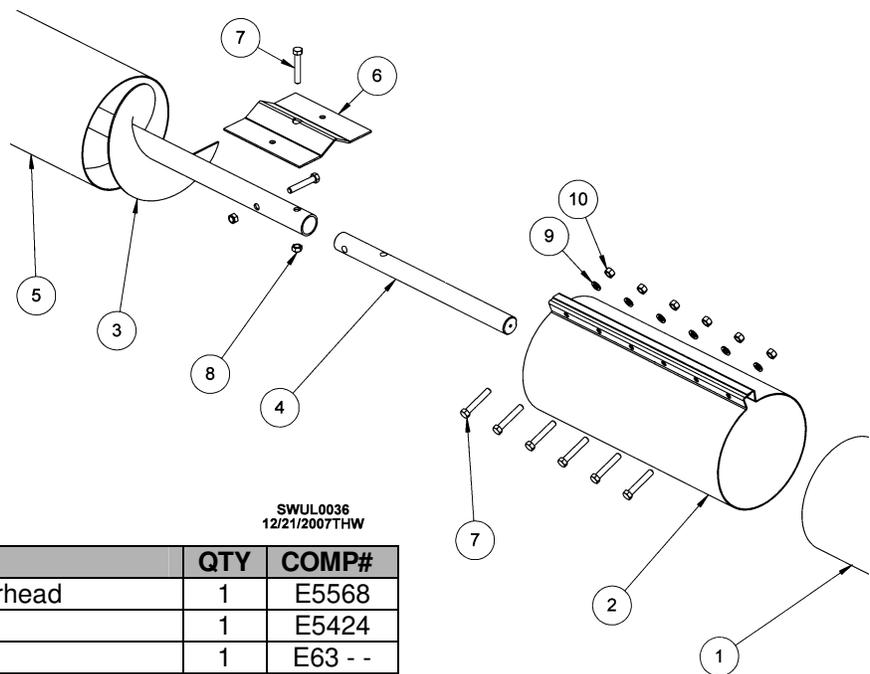
# DRIVE OPTIONS

## HORIZONTAL POWERHEAD

### Single Motor Drive and Power-Take-Off Drive

1. Slide connector sleeve onto unloading tube. Bolt lever bar to connector sleeve with 3/8" x 3" bolts, nuts, and lockwashers. Partially tighten bolts. See pages 24-26 for instructions for pull rod opener on Sweepway.
2. Remove safety shield from powerhead assembly. Slide powerhead tube into connector sleeve so unload auger shaft protrudes through flange bearing. Slide powerhead on completely so that it butts against unloading tube.
3. Rotate powerhead assembly to level position and tighten bolts on connector sleeve.
4. **IMPORTANT:** Slide locking collar over auger shaft protruding from unloading tube and lock onto flange bearing. Tighten setscrew on locking collar.
5. **FOR SINGLE MOTOR DRIVE ONLY:**
  - a. Mount 3.4" motor pulley onto motor shaft. Secure with key and setscrew.
  - b. Mount motor onto motor mount plate with 3/8" x 1-1/2" bolts, nuts, lockwashers and flat washers.
  - c. Attach pulley to shaft extending from unload tube. Place 1/4" key in slot on pulley and align with motor pulley. Tighten setscrew.
  - d. Place belts provided on pulleys. Tension may be adjusted by tightening bolt on bottom motor mount plate.
6. **FOR PTO DRIVE ONLY:**
  - a. Mount 9" double groove "B" pulley onto gearbox shaft and secure with key & setscrew.
  - b. Mount 9" double groove "B" pulley onto shaft extending from unload tube. Align pulley with gearbox pulley and secure with 1/4" key and set screw.
  - c. Place belts provided on pulleys. Tension may be adjusted by tightening bolt on bottom motor mount plate.
  - d. Mount PTO drive shaft onto other gearbox shaft and secure with 1/4" key and setscrew.
6. Place safety shield over pulleys and tighten bolts. **KEEP SHIELD IN PLACE AT ALL TIMES!**

### SLEEVE MOUNT CONNECTION



SWUL0036  
12/21/2007THW

REF#	DESCRIPTION	QTY	COMP#
1	Housing, 8" Horizontal Powerhead	1	E5568
2	Sleeve, Connector, 8" x 18"	1	E5424
3	Unload Auger, Compatible	1	E63 - -
4	Shaft, 1.25" x 15.75", w/Key	1	E54151
5	Unload Tube, Compatible	1	E66 - -
6	Flinger	1	E5689
7	Screw, 3/8-16, 2.25, PLT, GR5, HHCS	8	J0652
8	Nut, Hex, 3/8-16, PLT Lock	2	J1025
9	Washer, Lock, 3/8, PLT, Split	6	J1205
10	Nut, Hex, 3/8-16, PLT	6	J1020

# BASIC VERTICAL AUGER ASSEMBLY INSTRUCTIONS

*To aid in part identification during assembly, please refer to drawings and parts list on pages 36-37.*

1. Slide first connector sleeve (13) half way onto unloading tube. Loosely bolt lever bar (18) to connector sleeve (13) with 3/8" x 3" bolts, nuts, and lockwashers.
2. Remove safety shield(s) (16, 26) from vertical auger boot.
3. Slide boot into sleeve (13) just positioned on unloading tube so that it butts against unload auger. Slide unloading auger shaft through flange bearing of boot while sliding tube together. Boot should be tight against unload tube. Rotate boot to right for assembly of vertical auger on ground.
4. Slide second connector sleeve (13) half way up vertical tube of boot. Loosely bolt in place with 3/8" x 3" bolts, nuts and lockwashers.
5. Slide 16' vertical flighting (23) (double flighting to be at bottom) through boot so that bottom shaft extends through bearing on bottom of boot.
6. Slide 12' tube (15) over flighting into second connector sleeve so that tube butts against boot. Tighten connector sleeve.
7. Attach third connector sleeve (13) to top half of tube (15). Loosely bolt in place.
8. Slide top spout (11) over flighting while sliding auger shaft (2) through top bearing into connector sleeve (13) so that top spout is against tube. Rotate spout to be desired unloading direction and tighten third connector sleeve (13).
9. Place locking collar, located (in parts sack) over top shaft (2). Mount pulley on shaft. Drive 5/16" x 1-3/4" rollpin (1) through hole in shaft just above bearing and collar. Check to be sure that rollpin rests against pulley. Lock collar in place on flange bearing and tighten top setscrew on locking collar.
10. Mount locking collar shaft protruding from bottom end plate of vertical auger and lock in place on flange bearing. Tighten setscrew.
11. Bolt 2-1/2' truck spout (12) onto top spout (11) using 3/8" x 1-1/2" bolts, nuts and lockwashers.
12. Using existing bin bolts, attach support brackets (14) to bin wall about 10' up on vertical tube. If bin has outside stiffeners, attach brackets to stiffeners (holes may need to be drilled).
13. Using crane, raise vertical auger into position. Provide temporary blocking under boot. Clamp support bracket around vertical auger.
14. Tighten the bottom, horizontal connector sleeve.
15. Rotate threaded support jack on boot to carry load of vertical auger. Remove temporary blocking under auger. Check to see that tube and auger are aligned.
16. Adjust and tighten legs of support brackets.
17. Slide locking collar over unloading shaft from horizontal auger. Lock in place on flange bearing. Tighten setscrew.

## **TWO MOTOR DRIVE OPTION**

### **(Standard Equipment)**

*To aid in part identification during assembly, please refer to drawings and parts lists on pages 38-39.*

1. Mount motor (motor and motor pulley not included) onto horizontal motor mount using four 3/8" x 1-1/2" bolts, nuts, washers, & flat washers. Motor uses 3.4" motor pulley.
2. Mount large pulley onto horizontal shaft. Place 1/4" key (in parts sack) in slot of pulley. Align pulley with motor pulley. Tighten setscrews.
3. Mount belts provided in hardware carton and tighten to proper tension by adjusting bolt under horizontal motor mount.
4. Mount 3.4" motor pulley onto vertical motor. Mount motor to vertical motor mount plate, using four 3/8" x 1-1/2" bolts, nuts, washers and flat washers.
5. Mount 9" pulley onto bottom vertical shaft. Place 1/4" key in slot of pulley. Align with motor pulley and tighten setscrews.
6. Place belt(s) onto pulleys and adjust to proper tension.
7. Remount all safety shields in proper position and tighten bolts.

## **ONE MOTOR DRIVE OPTION**

### **(Optional Equipment)**

*To aid in part identification during assembly, please refer to drawings and parts lists on pages 39-40.*

1. Follow steps 1-17 in Basic Vertical Installation, page 19.
2. Attach large pulley to shaft extending from horizontal unload tube with hub side of pulley out. Place 1/4" key in slot on pulley.
3. Mount 50B15 sprocket on shaft protruding from horizontal unload tube with hub side away from pulley.
4. Mount 50B15 sprockets on each shaft of gearbox and on bottom shaft of vertical auger. Place 1/4" key in slots of all sprockets and align. Tighten setscrews.
5. Place short #50 chain and 1/2" connector link on sprocket on bottom of gearbox and sprocket on bottom of vertical auger. Chain can be tightened by adjusting bolts on gearbox mounting plate. Align.
6. Mount motor onto boot plate with 3/8" x 1-1/4" bolts, nuts, washers, and flat washers. Mount 3.4" motor pulley. Align pulleys and tighten setscrews. Place belts on pulleys and adjust tension by adjusting under motor mount plate.
7. Place long #60 chain and 1/2" connector link on sprocket on side of gearbox and on sprocket on end of horizontal unload tube. Adjust tension by raising or lowering idler sprocket. Align.
8. Remount safety shields and tighten bolts.

# TOP DRIVE ASSEMBLY INSTRUCTIONS

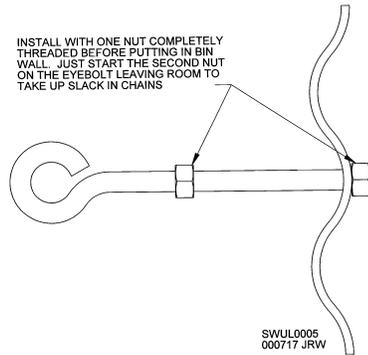
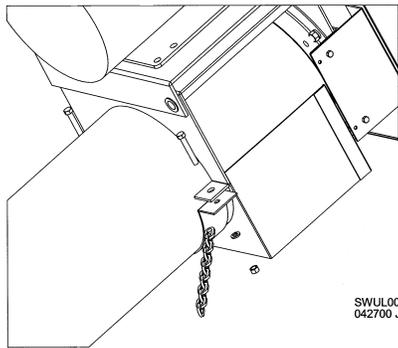
*To aid in part identification during assembly, please refer to drawings and parts list on pages 44-45.*

1. Slide first connector sleeve halfway onto unloading tube. Loosely bolt lever bar to connector sleeve with 3/8" x 3" bolts, nuts, & lockwashers.
2. Remove safety shield(s) from vertical auger boot.
3. Slide boot into sleeve, positioning on unloading tube so that it butts against unload auger. Slide unloading auger shaft through flange bearing of boot while sliding tube together. Boot should be tight against unload tube. Rotate boot to right for assembly of vertical auger on ground.
4. Slide second connector sleeve halfway up vertical tube of boot. Loosely bolt in place with 3/8" x 3" bolts nuts & lockwashers.
5. Slide 16' vertical flighting (double flighting to be at bottom) through boot so that bottom shaft extends through bearing on bottom of boot.
6. Slide 12' tube over flighting into second connector sleeve so that tube butts against boot. Tighten connector sleeve.
7. Attach third connector sleeve to top half of tube in same manner as previous connector sleeves. Loosely bolt in place.
8. Slide top spout over flighting while sliding auger shaft through top bearing into connector sleeve so that top spout is against tube. Rotate spout to desired unloading direction and tighten third connector sleeve.
9. Place locking collar (from parts sack) over top shaft. Add spacer (provided). Mount pulley on shaft. Drive 5/16" x 1-3/4" rollpin through hole in shaft just above pulley. Check to be sure that rollpin rests against pulley. Lock collar in place on locking collar.
10. Mount locking collar on shaft protruding from bottom end plate of vertical auger and lock in place on flange bearing. Tighten setscrew.
11. Bolt 2-1/2" truck spout onto top spout using 3/8" x 1-1/2" bolts, nuts & lockwashers.
12. Using existing bin bolts, attach support bracket to bin wall about 10' up on vertical tube.
13. Using crane, raise vertical auger into position. Provide temporary blocking under boot. Clamp support bracket around vertical auger.
14. Tighten the bottom, horizontal connector sleeve.
15. Rotate threaded support jack on boot to carry load of vertical auger. Remove temporary blocking under auger. Check to see that tube and auger are aligned.
16. Adjust and tighten legs of support bracket.
17. Slide locking collar over unloading shaft from bearing. Tighten setscrew.

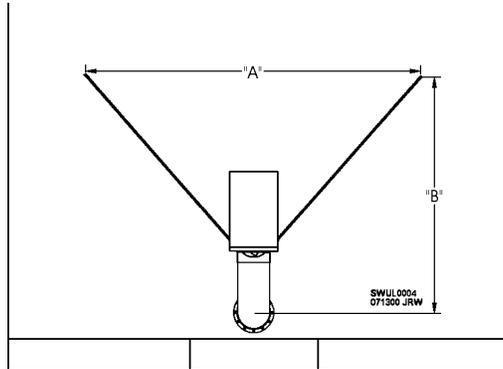
# INCLINE INSTALLATION INSTRUCTIONS

*To aid in part identification during assembly, please refer to drawings and parts lists on pages 42-43.*

1. Remove the motor mount (7) and shield (15) from the top of the incline.



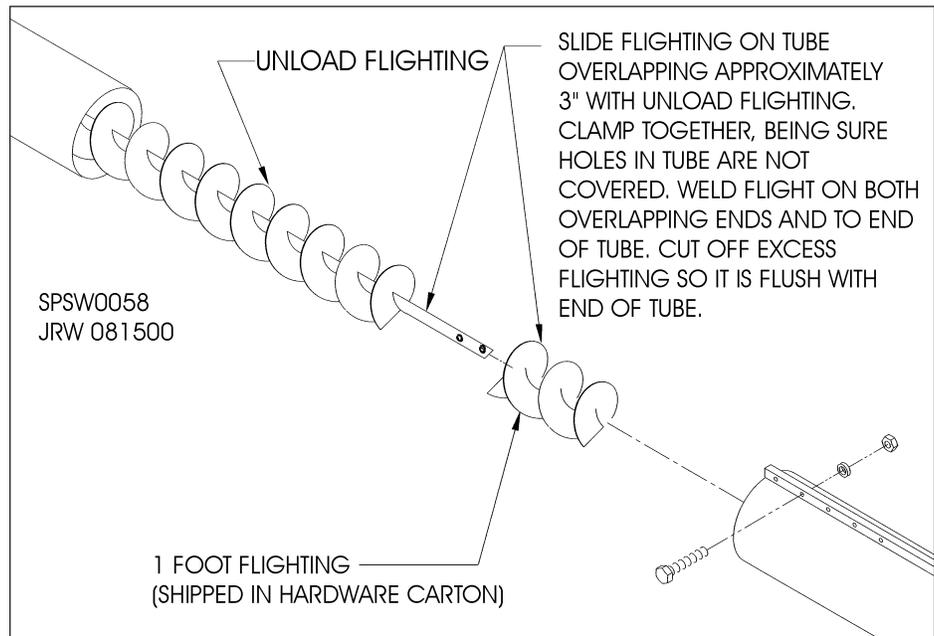
2. Remove the bolts holding the motor mount base to the incline tube. Connect one end of the support chains to the motor mount with the bolt removed.



3. Remove two bin bolts spaced equally away from the unload tube ("A" = 80-100") along the seam with the second and third ring of bin sheets ("B" = 60-80").

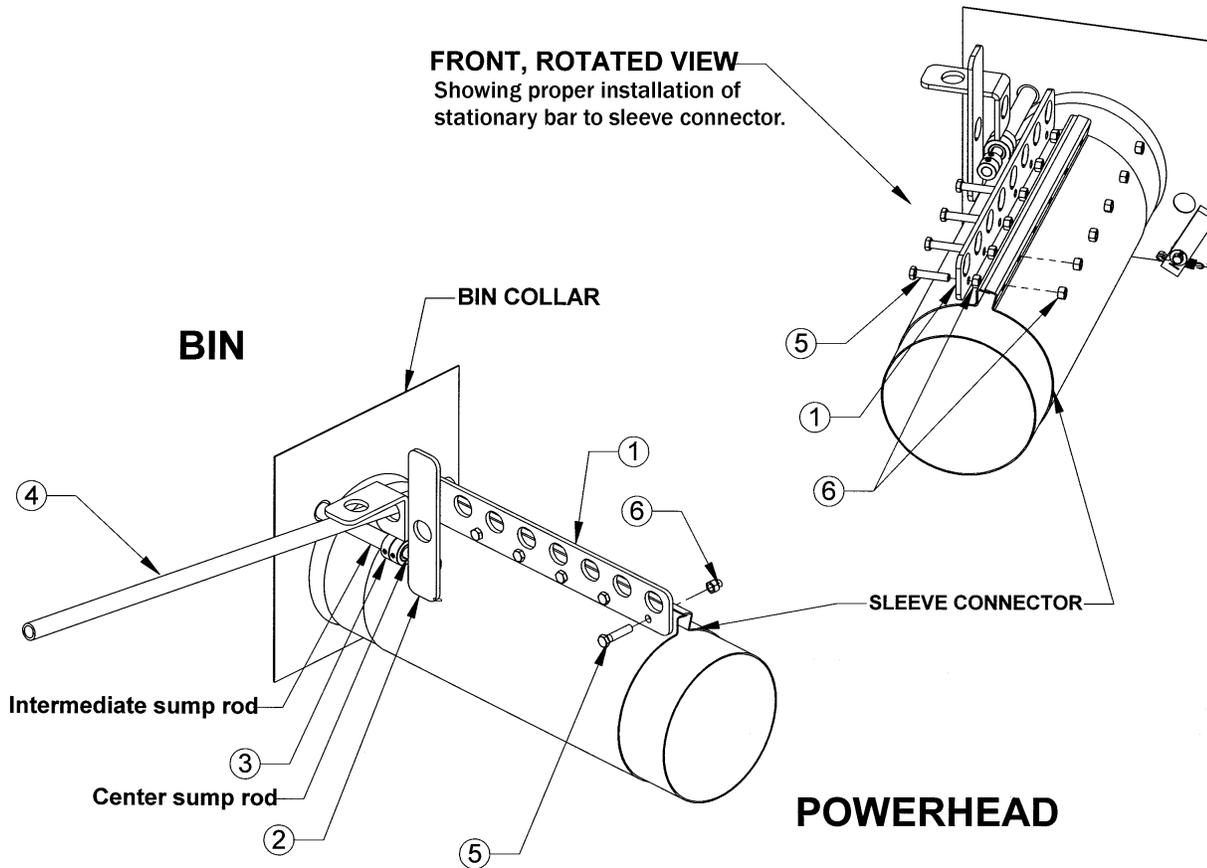
4. For tube and well installations:

- a. Remove the shaft and corn flipper from the end of the unload auger. Weld 1' piece of flight to unload flighting. (See drawing.)
- b. Slide the sleeve connector (25) half way over the end of the unload tube.
- c. Slide the sleeve adapter (19) into the open end of the sleeve connector.
- d. Loosely install six 3/8" x 3" bolts (37) and nuts (52) on sleeve connector.
- e. Rotate the sleeve adapter to match the hole pattern of the angle ring on the incline.
- f. Tighten all of the bolts on the sleeve connector.



5. Attach the adapter plate (18) to the unload tube angle ring / sleeve adapter using eight 5/16" x 1-1/4" bolts (31), lock washers (45), and flat washers (42).
6. After sliding the horizontal unload flighting out to attach to incline, temporarily support the incline. Slide the incline shaft (3) into the horizontal flighting and bolt into place using two 7/16" x 2-1/2" bolts (38) and nuts (54).
7. Bolt the incline to the adapter plate using eight 5/16" x 1-1/4" bolts (31), nuts (50), lock washers (45), and flat washers (42).
8. Attach chain to the eyebolts and tighten the nuts on the inside of the bin to tighten the chains.
9. Bolt the motor to the motor mount using four 3/8 x 1-1/2" bolts, flat washers, and lock washers and reattach the motor mount to the incline.
10. Attach the 14" pulley (29) from the hardware carton to the power shaft (4) extending from the top of the powerhead. Align the pulley with the motor pulley, insert 1/4" key in key slot, and tighten the setscrew.
11. Place belts (28) onto the pulleys and tighten using the motor mount adjustment bolt (41). Belts tension should be as low as possible without allowing the belts to slip.
12. Replace the safety shield (15). Recheck the belt tension before operation. **NEVER OPERATE UNIT WITHOUT SAFETY SHIELDS SECURELY IN PLACE.** Make sure that all safety decals have been installed and are in good legible condition. See the safety section in this manual for the correct location and descriptions of the safety decals.

# INSTRUCTIONS FOR 6" PULL ROD OPENER

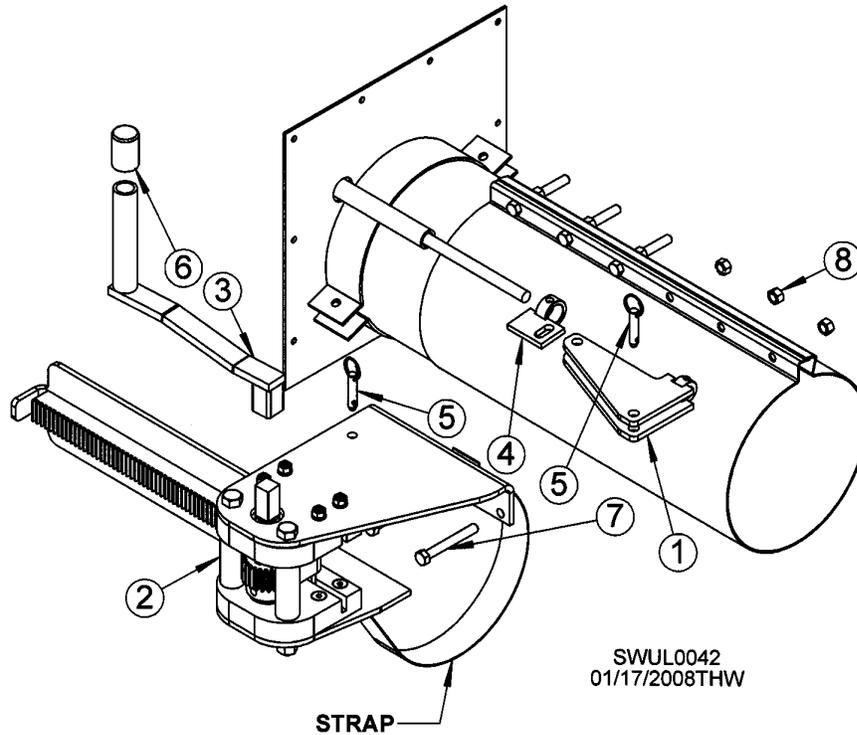


SWUL0023  
030730RLM

REF #	DESCRIPTION	QTY	6" COMP #
	Complete Opener Pull Rod Assembly	1	E5432
1	Stationary Bar	1	E5884
2	Handle, L, <b>Center</b> Sump Weldment	1	E5889
3	Handle, L, <b>Intermediate</b> Sump Weldment	1	E5888
4	Pivoting Arm	1	E5885
5	Bolt, 3/8-16, 3 PLT, Gr. 5, Tap	6	J0660
6	Nut, Hex, 3/8-16, PLT	12	J1020

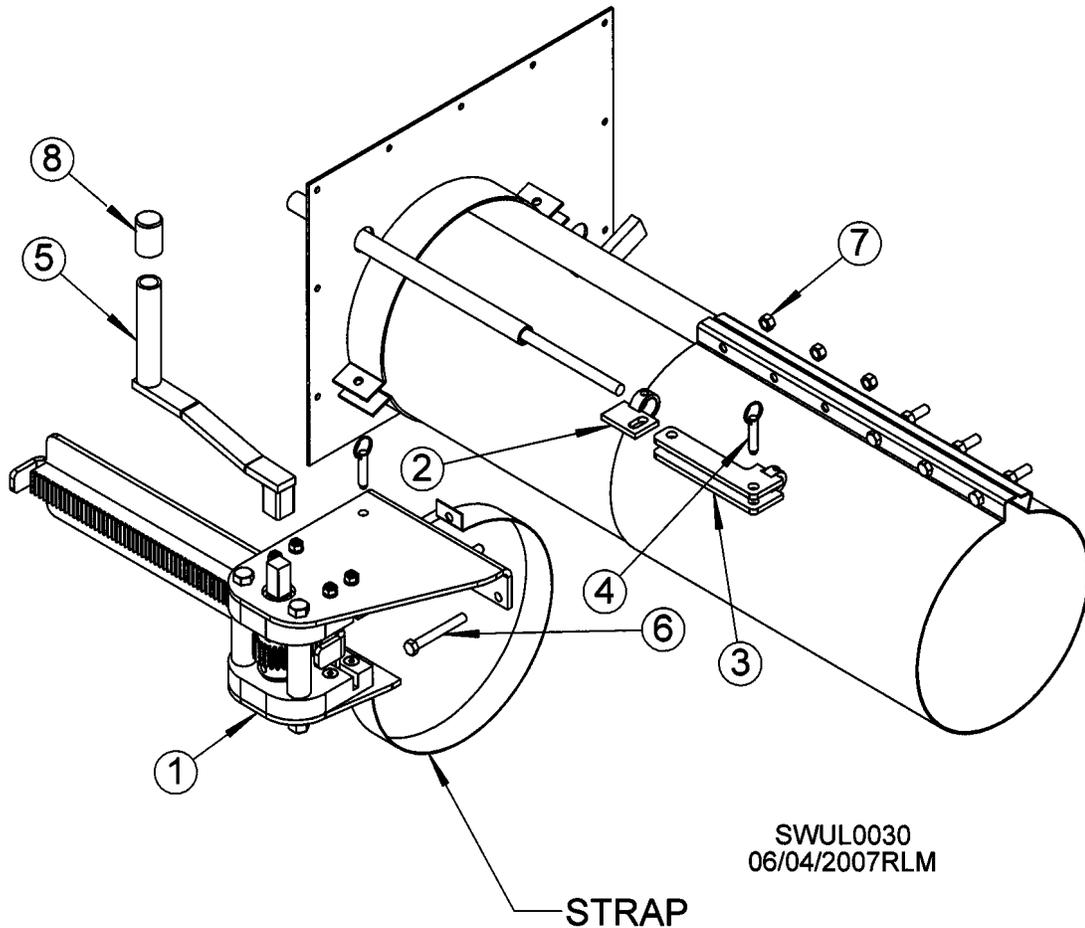
1. Bolt bar (1) to Sleeve Connector using double nuts as shown above.
2. Line up last hole on bar (1) with hole in Intermediate sump handle (3) with sumps fully closed. The connector sleeve can be slid on the tube for proper alignment.
3. Slide lever arm (4) through hole in center sump handle (2) and through hole in bar (1). Pull arm away from bin to open sumps and push arm toward bin to close the sumps. (The drawing shows opening the intermediate sumps for drawing detail purposes. **Note: Always open and unload from center sump first, never open intermediate sumps until grain stops flowing from center sump.**)

## 8" Pull Rod Opener



REF #	DESCRIPTION	QTY	8" COMP #
	Complete Rack & Pinion Pull Rod Assembly	1	E5443
1	Connector, Center Sump, Weldment	1	E5914
2	Rack & Pinion Opener Assy 10"	1	E5919
3	Opener Handle	1	E5967
4	Connector, Int. Sump, Weldment	1	E5998
5	Pin, Quick-Release, 3/8" x 1"	2	J1554
6	Cap, 1" Rubber	1	J2232
7	Screw, 3/8-16, 3, PLT GR5	6	J0660
8	Nut, Hex, 3/8-16, PLT	6	J1020

## 10" Pull Rod Opener



REF #	DESCRIPTION	QTY	10" COMP #
	Complete Rack & Pinion Pull Rod Assembly	1	E5444
1	Rack & Pinion Opener Assy 10"	1	E5969
2	Connector, Int. Sump, Weldment	1	E5998
3	Connector, Center Sump, Weldment	1	E5997
4	Pin, Quick-Release, 3/8" x 1"	2	J1554
5	Opener Handle	1	E5967
6	Screw, 3/8-16, 3, PLT GR5	6	J0660
7	Nut, Hex, 3/8-16, PLT	6	J1020
8	Cap, 1" Rubber	1	J2232

### INSTRUCTIONS FOR 10" PULL ROD OPENER

1. Attach intermediate sump and center sump connectors to proper pull rod. (2) & (3)
2. Bolt rack and pinion opener assembly (1) to sleeve connector, using 3 bolts closest to bin wall.
3. Connect center sump connector (3) to opener using 3/8" x 1" quick release pin (4).
4. Attach handle (5) to opener and open sump gates by rotating handle clockwise. Sump gates should open and close fully.

## SWEEPWAY OPERATING INSTRUCTIONS

### Make Sure Sweep Auger is Placed Over Unloading Sumps before Bin is Filled (For Single Piece Backboards)



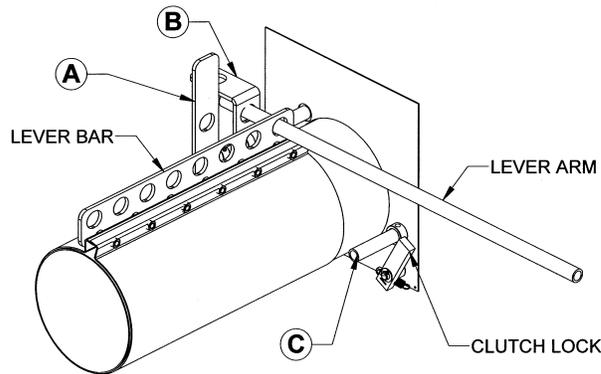
#### TO REMOVE GRAIN:

1. Start vertical and horizontal unload auger. Pull center sump rod (A) to open center sump cover. Unload grain from center until gravity flow stops.
2. After flow stops, re-position lever arm to pull intermediate sump rod (B) allowing additional gravity flow into bottom unloading auger.
3. When grain flow stops, shut off power to system. Engage sweep auger by pulling clutch pull rod. **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 while sweep auger is operating. If a slower flow of grain is desired, (e.g. grinding) a larger pulley should be used on unload auger. Remove remaining grain.

If grain starts to pile up in center of bin when power sweep is engaged and center sump is fully open, the sweep may need to be slowed down. To slow the sweep down, the 15-tooth sprocket on bottom gearbox should be changed to a 12-tooth sprocket. The Sukup Manufacturing Comp. # is J1660.

**Note:** When changing sprockets, chain links may need to be removed.

5. Place sweep auger over intermediate sumps and check that stop is retracted before filling bin.



SWUL0029  
RLM051129



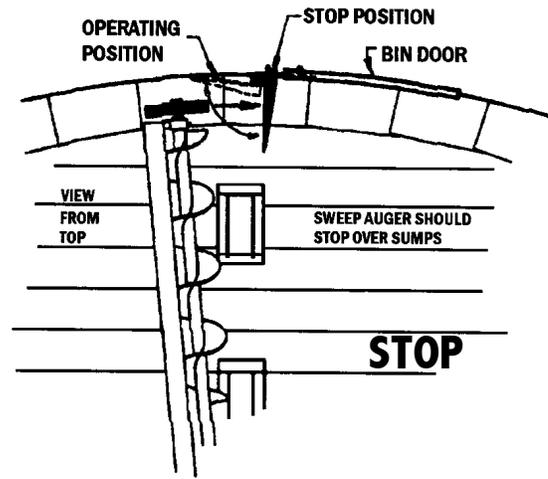


**CAUTION:** When the last amount of grain has been removed from the bin, the sweep auger will travel around the bin at an extremely fast rate of speed.

For this reason, we have designed a STOP, which should be installed as shown on page 14.

This STOP is manually operated by swinging the stop plate out perpendicular to the bin wall. This will put the stop plate into the path of the revolving sweep auger and allow only one revolution of the sweep auger to occur.

Mount the stop near the bin door so that it can be positioned without entering the bin. Make sure to swing the stop back against the wall after loading is completed, before re-filling the bin with grain.



## LUBRICATION

In gearboxes, use 140-weight gear oil. Gearboxes should be checked every time bin is empty. Check plugs are on back of gearboxes. Gearbox should be about half full. Add grease to top bearing through grease zerk on top of gearboxes for the two sump gearboxes. On single motor vertical drive, add oil through fill plug. Grease roller chains in sump every time bin is empty. Factory oil, used in gearboxes, is Mobil Gear 636, 140-weight.

## FOR SPLIT BACKBOARDS – OVER 60'

**NOTE:** Sweep augers over 60' are built in two sections.

Sukup recommends that the bin is swept in stages, with the inside sweep section installed and operated for the first revolution around the bin, then adding the outside section to complete sweeping the remainder of the bin.

*The above procedure is recommended. However, bin can be swept in one pass using these specifications:*

- (1) Up to 48' bin: Regular anchor bolt and foundation as specified in manual.
- (2) 54'-60' bin: Regular bin as specified in price sheet with 1" grade 5 anchor bolts, 17" deep (for Invert-T) or deep into stemwall ring rebar zone (for T-Cap), Minimum 7.5" from anchor to outside edge of stemwall. No extra anchor is needed.

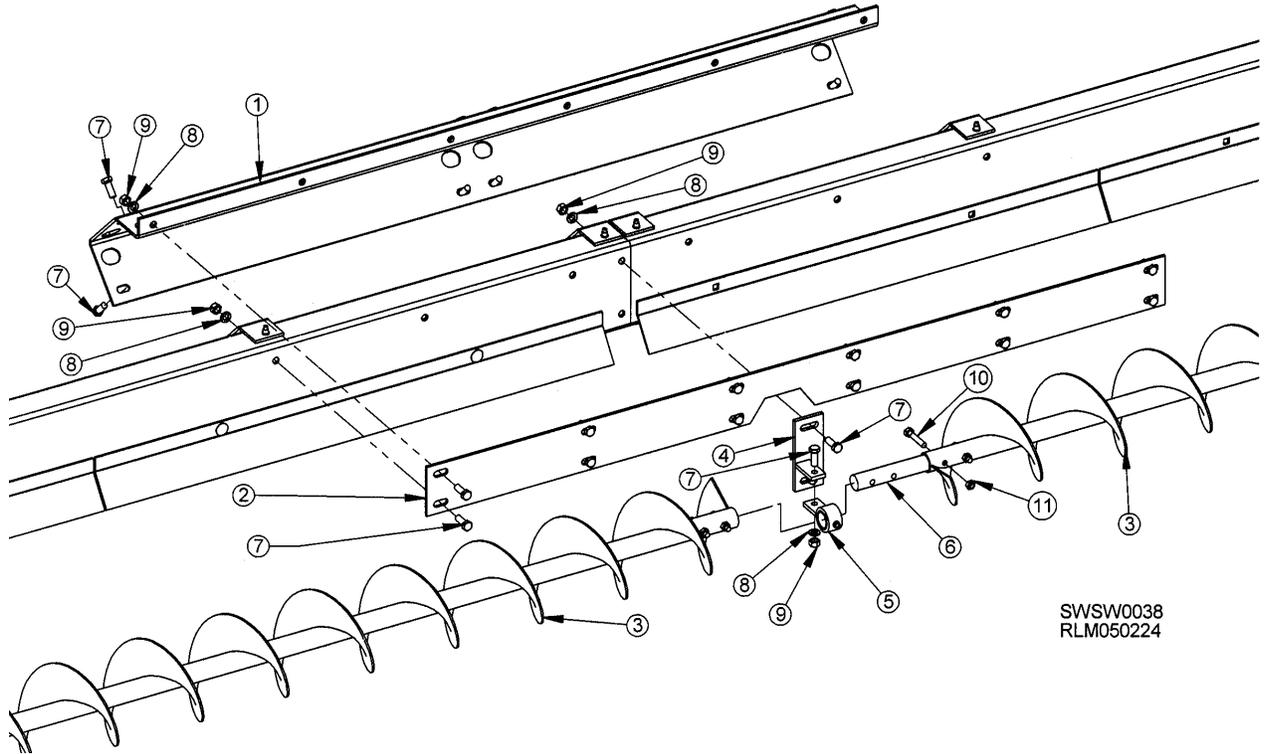


**CAUTION:** Never enter bin while equipment is operating. Shut off complete system before adding outer section.

1. Start vertical and horizontal unload auger. Pull center sump rod to open center sump cover. Unload grain from center until gravity flow stops.
2. After flow stops, re-position lever arm to pull intermediate pull rod allowing additional gravity flow into bottom unloading auger.
3. When grain flow stops, shut off power to equipment. Engage sweep auger by pulling clutch pull rod. **POWER MUST BE SHUT OFF BEFORE ENGAGING SWEEP AUGER TO PREVENT DAMAGE TO CLUTCH ASSEMBLY!!**
4. Turn power on. Sweep auger will not be used. On first pass of auger around bin, only the inside section of sweep will be used. Remove remaining grain. Center sump slide gate must remain open while sweep auger is operating. If a slower flow of grain is desired, (e.g. grinding), a larger pulley should be used on unload auger.
5. When last of grain has been removed by inside section, shut off power and LOCK OFF so no one will accidentally turn on power while someone is in the bin. Connect the two sections of sweep as described on page 14.
6. Unload the remainder of the grain, using both sections.
7. Before filling bin again, remove the channel iron spacer and 6" auger splice and bolt sweep wheel back onto inside section. Outside section can be left in bin. Make sure sweep is over intermediate sumps when taking apart and before filling. Make sure stop is retracted before filling.

# PARTS ASSEMBLIES

## SPLICE - SPLIT BACKBOARD (GALVANIZED)

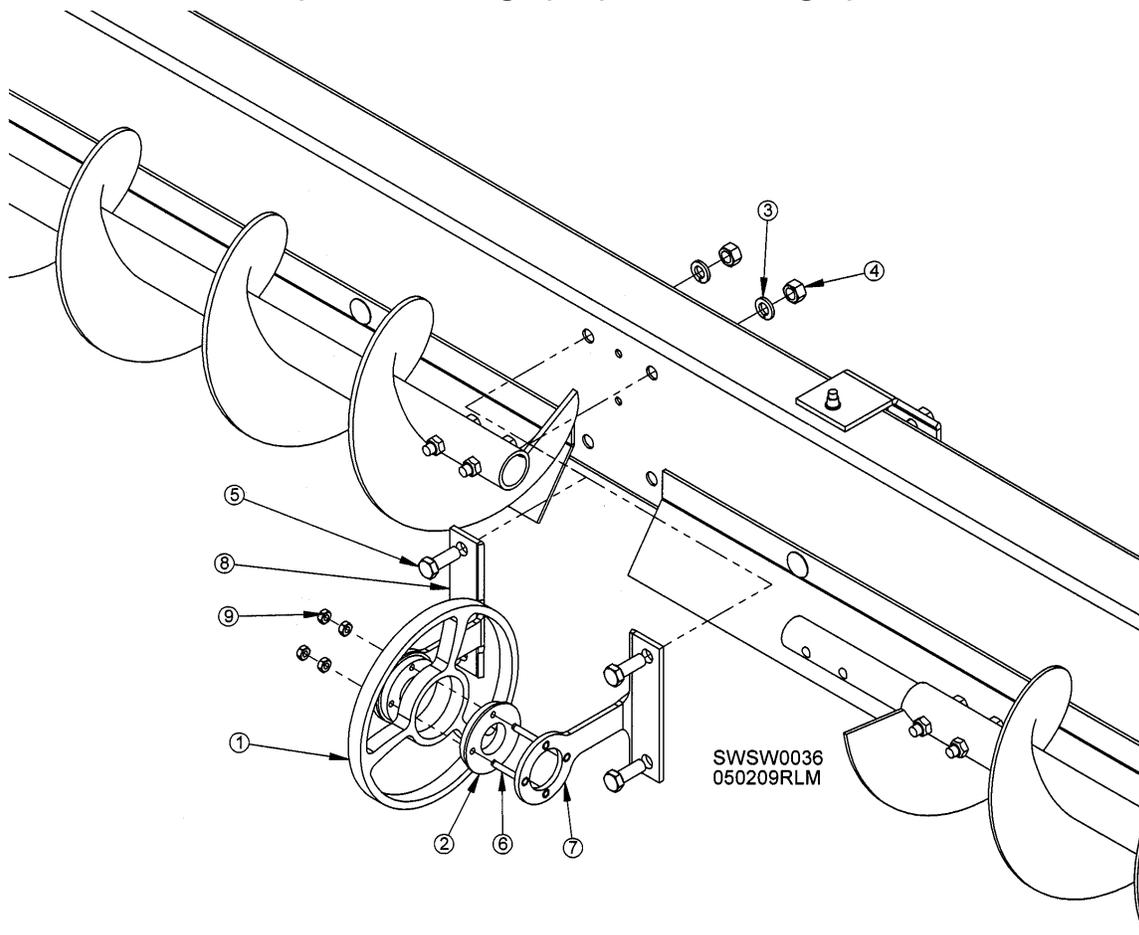


SWSW0038  
RLM050224

REF #	DESCRIPTION	QTY	8" COMP #	10" COMP #
1	Stiffener, Splice	1	E7029	E7027
2	Brace, Splice	1	E7028	E7026
3	Flighting	----	E81--	E81--
4	Support, Bushing Extension	1	E60811	E680821
5	Support Weldment, with Brass Bushing	1	E6065	E6065
6	Shaft, Connecting, 1" x 8.5"	1	E6704-03	E6704-03
7	Screw, 3/8" - 16, 1, PLT, Gr. 5	23	J0606	J0606
8	Washer, Lock, 3/8", PLT	23	J1205	J1205
9	Nut, Hex, 3/8" - 16, PLT	15	J1020	J1020
10	Screw, 5/16", 1.75, PLT, Gr. 5	4	J0570	J0570
11	Nut, Lock, 5/16" - 18, PLT	4	J1010	J1010

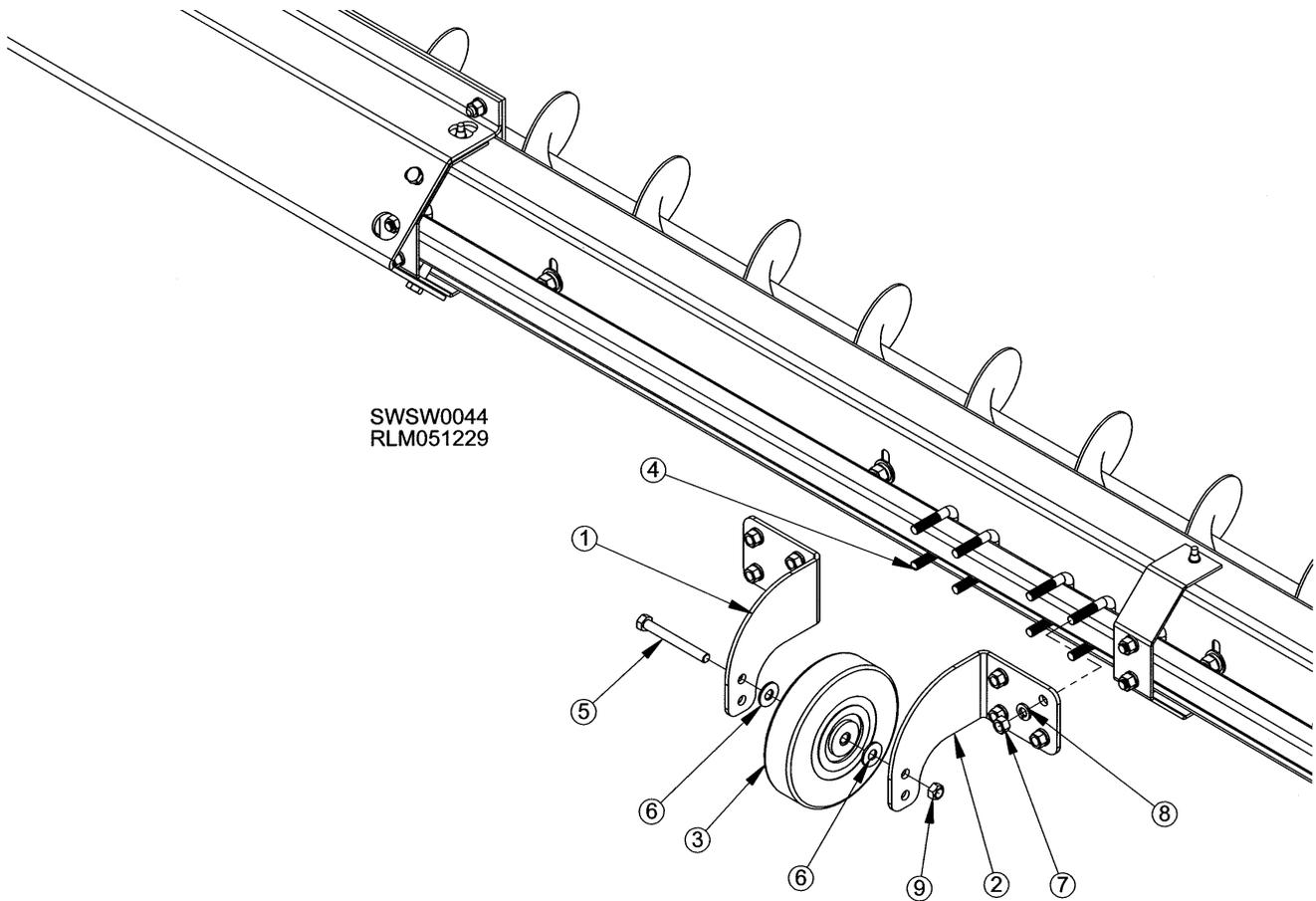
## FRONT CARRIER WHEEL ASSEMBLY (GALVANIZED)

**8" E7723 --- 10" E7725**  
**(For 60' & Larger) (For 60' & Larger)**



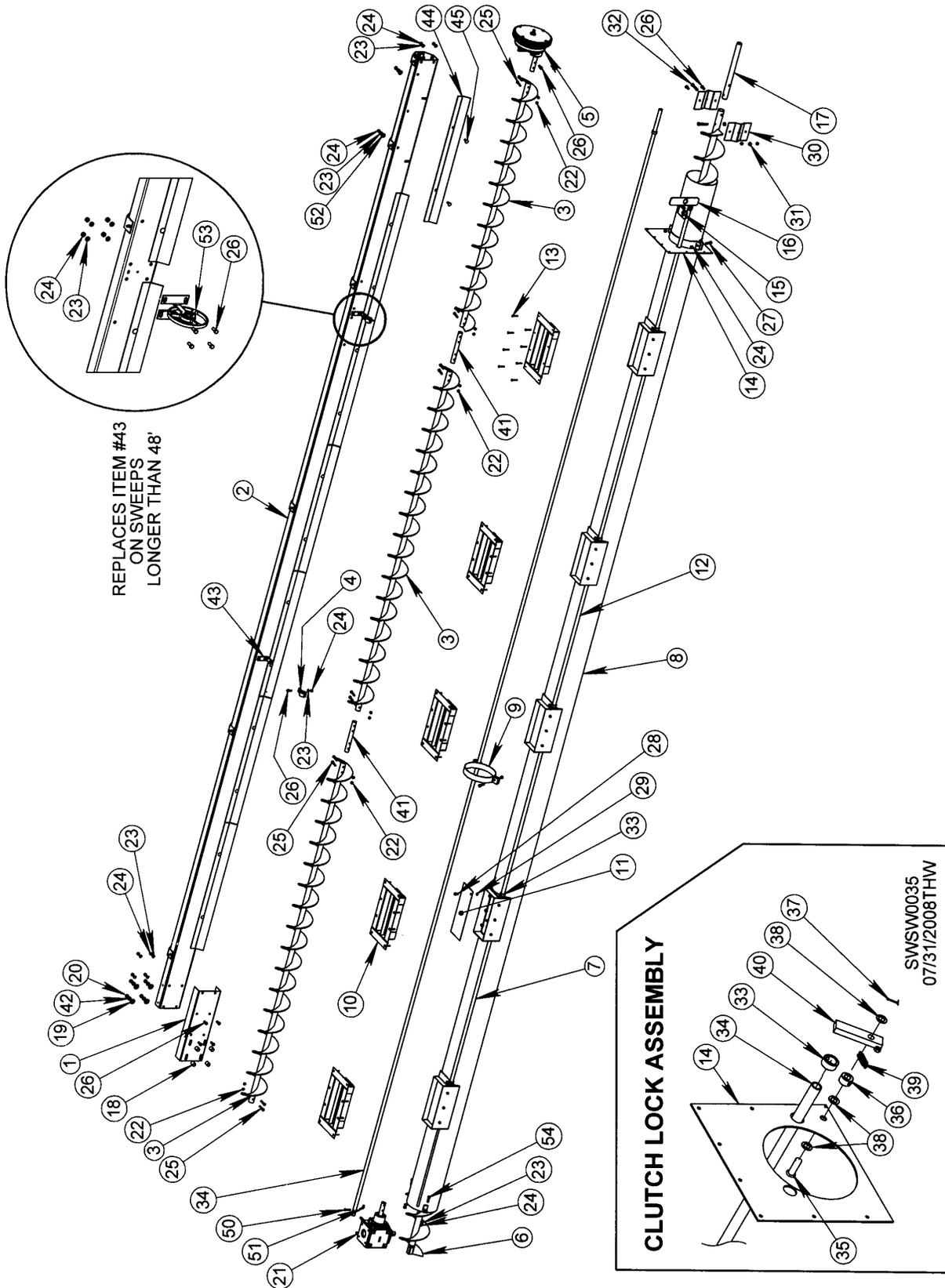
REF #	DESCRIPTION	QTY	8" COMP #	10" COMP #
1	Wheel, Carrier	1	E7734	E7704
2	Bushing, Carrier	2	E7705	E7705
3	Washer, Lock, 3/8"	4	J1205	J1205
4	Nut, Hex, Plat, 3/8" - 16	4	J1020	J1020
5	Screw, 3/8" - 16, 1, PLT, Gr. 5	4	J0606	J0606
6	Screw, Clinch Stud, #10 - 32, 1-1/4"	4	J0490	J0490
7	Hanger, Carrier Wheel, Right Side	1	E7738	E7707
8	Hanger, Carrier Wheel, Left Side	1	E7737	E7708
9	Nut, Hex, 10 - 32, Lock, Jam	4	J0977	J0977

**REAR CARRIER WHEEL (GALVANIZED)  
(For 40' & Larger)**



REF #	DESCRIPTION	QTY	COMP #
1	Rear Carrier Wheel Bracket, Left	1	E7741
2	Rear Carrier Wheel Bracket, Right	1	E7740
3	Rubber Wheel with Bushing, 6"	1	J7271
4	U-Bolt, Square, 3/8" - 16	4	J0644
5	Bolt, 3/8" - 16 x 3.25", PLT, HHCS	1	J0663
6	Washer, Flat, 3/8"	2	J1117
7	Nut, Hex, 3/8" -16, PLT	8	J1020
8	Washer, Lock, Split, 3/8", PLT	8	J1205
9	Nut, Lock, 3/8" - 16, PLT	1	J1025

**TUBE, AUGERS, & SWEEP  
(GALVANIZED BACKBOARDS)  
6", 8", & 10"**



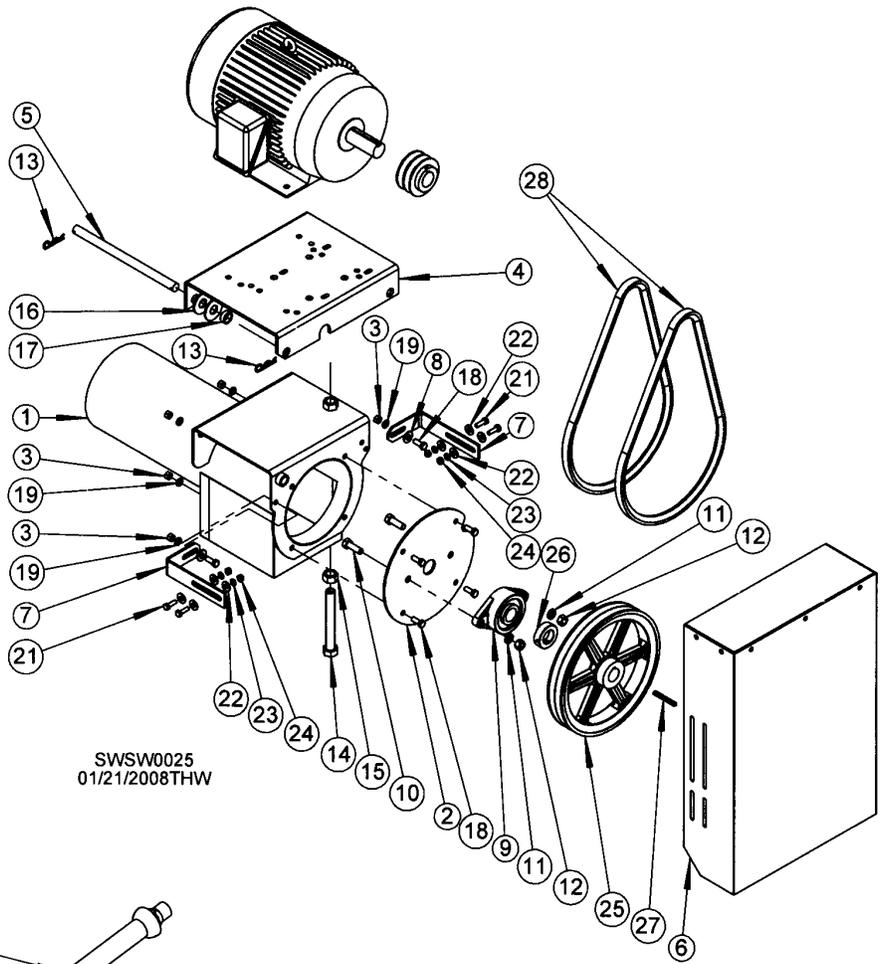
**TUBE, AUGERS, & SWEEP (GALVANIZED BACKBOARDS) 6", 8", & 10", Parts List**

REF #	DESCRIPTION	QTY	6" COMP #	8" COMP #	10" COMP #
1	Extension Bracket	1	E6976	E6977	E6979
2	Decal, DANGER, Keep Away when auger is running	1	L03061	L03061	L03061
3	Sweep Auger * (Need bin diameter, pitch, and length)	**	----	----	----
4	Support Bushing	**	E6065	E6065	E6065
5	Reduction Wheel	1	E6094	E6092	E6093
6	Unload auger assembly - See page 62	**	E64--	E64--	E64--
7	Center Sump Gate Pull Rod *	1	E61--	E61--	E61--
8	Unload Tube *	1	E65--	E65--	E65--
9	Clutch Rod Support Clamp	1	E5314	E5315	E53162
10	Top Half Intermediate Sump	**	E5410	E5410	E5411
11	Intermediate Slide Gate	**	E5409	E5409	E5409
12	Intermediate Sump Gate Pull Rod *	1	E62--	E62--	E62--
13	Tek Screw, #10 - 16 x 1-1/2"	**	J0502	J0502	J0502
14	Bin Collar w/ Clutch Lock Assy	1	E5405	E5406	E5362
15	Handle, Intermediate Sump Rod 7/8"	1	E5404	E5404	E5404
16	Handle, Center Gate 1/2"	1	E5403	E5403	E5403
17	Auger Shaft 1998	1	E90061	E54151	E54142
18	Spacer, 6 & **, 1/2ID x 1", 10" 1/2ID x 1-3/8"	4	E6014	E6014	E6013
19	Washer, Flat, 7/16"	4	J1120	J1120	J1120
20	Hex Nut, 7/16 x 14, PLT	4	J1035	J1035	J1035
21	Bolt, Stud, 7/16-14, 2-3/4", PLT, Gr. 5	4	J07211	J07211	J07211
22	Locknut, 5/16-18	**	J1010	J1010	J1010
23	Lockwasher, Split, 3/8"	**	J1205	J1205	J1205
24	Nut, Hex, 3/8-16, PLTD	**	J1020	J1020	J1020
25	Bolt, 5/16-18 x 1-1/2" Gr. 5	**	J0565	J0565	J0565
26	Bolt, 3/8-16 x 1" Gr. 5	**	J0606	J0606	J0606
27	Bolt, Threaded, 3/8-16 x 1-3/4" Gr. 5 FL	**	J0640	J0640	J0640
28	Bolt, 5/16 - 18 x 3/4" Gr. 5	**	J0520	J0520	J0520
29	Nut, Hex, 5/16- 18 PLTD	**	J1002	J1002	J1002
30	Corn Flipper Only	2	E5689	E5689	E5689
31	Locknut, 5/16 - 18	**	J1010	----	----
	Locknut, 7/16 - 14	**	----	J1034	J1034
32	Bolt, 5/16 - 18 x 2: Gr. 5	**	J0585	----	----
	Bolt, 7/16 - 14 x 2-1/2"	**	----	J0720	----
	Bolt, 7/16 - 14 x 3"	**	----	----	J0722
33	Shaft Collar, 7/8"	**	J1330	J1330	J1330
34	Clutch Pull Rod *	1	E61--	E61--	E61--
35	Picker Pin, 1/2 x 1-1/2"	2	J1550	J1550	J1550
36	Shaft Collar, 1/2"	1	J1320	J1320	J1320
37	Cotter, 1/8 x 1"	1	J1420	J1420	J1420
38	Bushing Machine, 1/2" x 18 Ga.	3	J1250	J1250	J1250
39	Pawl Spring	1	J2360	J2360	J2360
40	Clutch Latch	1	E5408	E5408	E5408
41	Connecting Shaft	**	E6704-03	E6704-03	E6704-03
42	Lock Washer, Split, 7/16, PLT	4	J1210	J1210	J1210
43	Assembly Bushing Support	**	E6089	E6090	E6091
44	Scraper Galvanized Back Board 36" long	**	E8430	E8430	E8430
	Scraper Galvanized Back Board 18" long	**	E8431	E8431	E8431
45	Bolt, 3/8" x 1, Carriage	**	J06064	J06064	J06064
46-49	Not used in this drawing		----	----	----
50	Picker Pin 3/8 x 1 1/2"	**	J1541	J1541	J1541
51	Clip, Hair Pin	**	J5410	J5410	J5410
52	Washer, Flat, 3/8	**	J1117	J1117	J1117
53	Wheel, Carrier, 8" and 10" Assembly, 2005	**	----	E7734	E7725
54	Bolt, 3/8-16 X 1.25	**	J0616	J0616	J0616

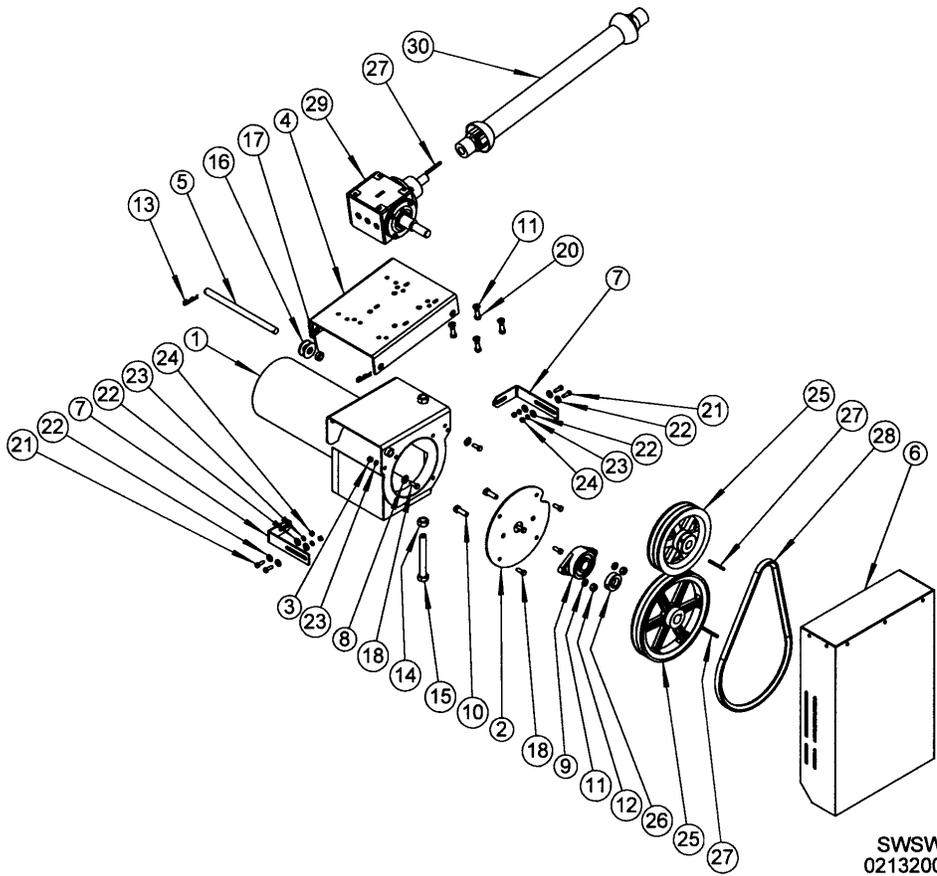
\* Specify Bin Size

\*\* Quantities May Vary with Bin Size

# HORIZONTAL POWERHEAD MOTOR DRIVE



SWSW0025  
01/21/2008THW

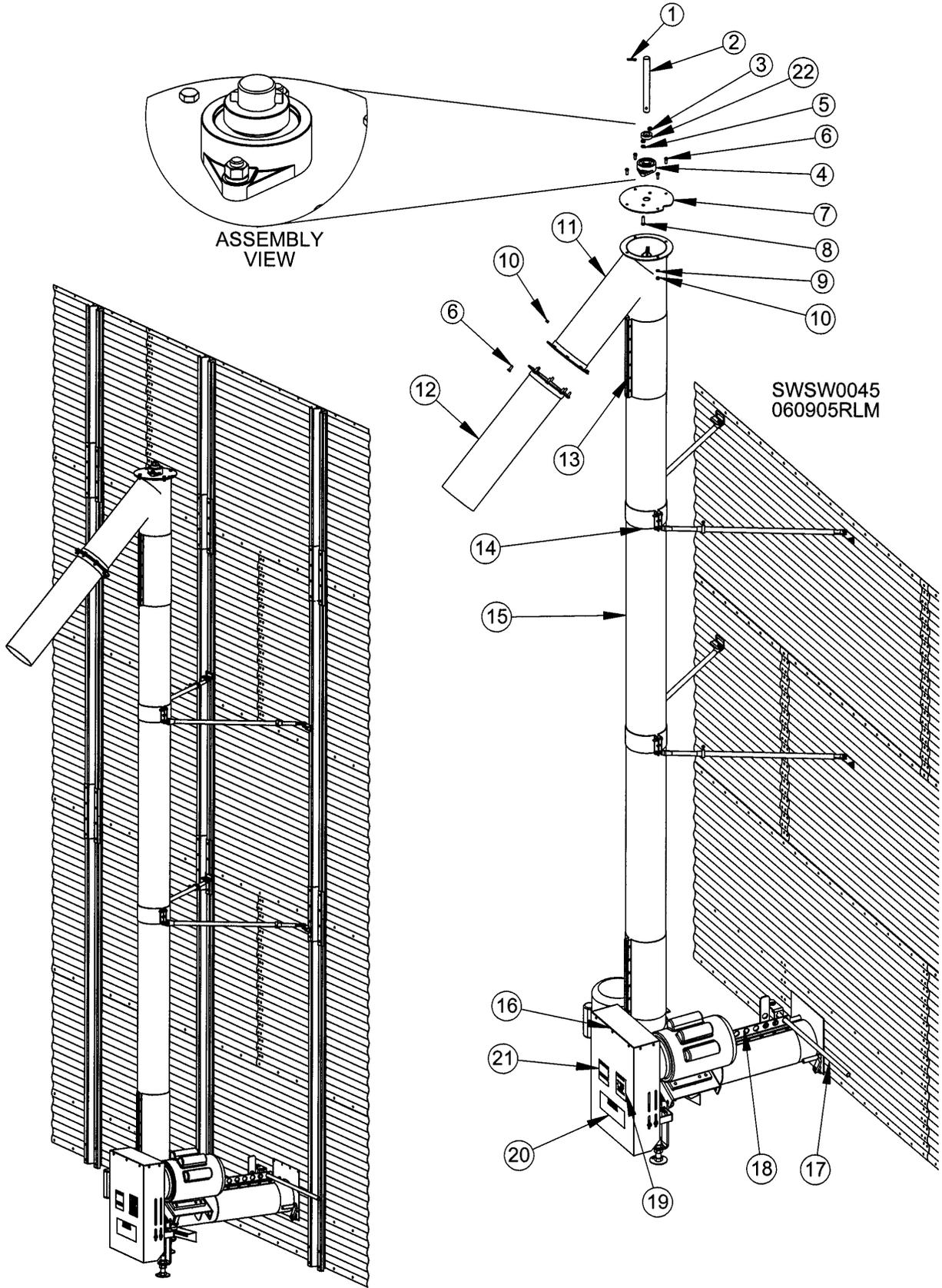


SWSW0029  
02132009THW

## HORIZONTAL POWERHEAD MOTOR DRIVE, Parts List

REF#	DESCRIPTION	STD	PTO	6" COMP#	8" COMP#	10" COMP#
	Powerhead w/Shield & Bearing	1	1	E5600	E5601	E5602
	HPH w/bearing, Shield, Lrg motor mnt.	1	1	-----	E5599	E5611
1	Powerhead Housing Only STD	1	1	E5567	E5568	E5569
2	Bearing Plate 6"	1	1	E5676	-----	-----
	Bearing Plate 8"	1	1	-----	E5776	-----
	Bearing Plate 10"	1	1	-----	-----	E5659
3	Nut, 3/8-16 PLT	10-14	4-6	J1020	J1020	J1020
4	Hinged Motor Mount, "Small"	1	1	E5746	E5746	E5746
	Hinged Motor Mount, "Large"	1	1	-----	E5765	E5765
5	Pivot Rod Small	1	1	E5744	E5744	E5744
	Pivot Rod Large	1	1	-----	E57441	E57441
6	Horizontal Motor Shield	1	1	E5748	E5748	E5748
7	Shield Bracket	2	2	E5870	E5870	E5870
8	Flatwasher, 3/8 PLT	2	2	J1117	J1117	J1117
9	Bearing 1" Flange w/ Locking Collar	2	2	J0003	-----	-----
	Bearing 1-1/4" Flange w/Locking Collar	2	2	-----	J0010	J0010
	Bearing Spacer (Not Shown)	1	1	E5791	E5792	E5792
10	Bearing Bolt w/Tab	2	2	E5570	-----	-----
	Bolt, 1/2-13 x 1-1/2 PLT	2	2	-----	J0730	J0730
11	Lockwasher, 7/16 PLT Split	2	2	J1210	-----	-----
	Lockwasher, 1/2 PLT Split	2	2	-----	J1215	J1215
12	Nut, 7/16-14 PLT	2	2	J1035	-----	-----
	Nut, 1/2-13 PLT	2	2	-----	J1040	J1040
13	Hair Pin Clip	2	2	J5412	J5412	J5412
14	Bolt, 3/4-10 x 6" PLT Tap	1	1	J0824	J0824	J0824
15	Nut, 3/4-10 PLT	1	1	J1051	J1051	J1051
16	Bushing, Machine, 3/4 x 1-1/4", 14 Ga.	1-20	1-20	J1260	J1260	J1260
17	Spacer, Long, 3/8"	1	1	E5739	E5739	E5739
	Spacer, Longer, 2-7/16	1	1	-----	E5740	E5740
18	Bolt, 3/8-16 x 1 PLT	6-8	6-8	J0606	J0606	J0606
19	Lockwasher, 3/8" PLT Split	6-8	6-8	J1205	J1205	J1205
20	Bolt, 7/16-14 x 3/4	0	4	J0695	J0695	J0695
21	Bolt, 5/16-18 x 1 PLT	4	4	J0527	J0527	J0527
22	Flatwasher, 5/16" PLT	8	8	J1111	J1111	J1111
23	Lockwasher, 5/16 PLT Split	4	4	J1200	J1200	J1200
24	Nut, 5/16-18 PLT	4	4	J1002	J1002	J1002
25	Pulley, 12x1" Sngl Groove A-B	1	0	J0375	-----	-----
	Pulley, 12x1" DBL Groove B	1	0	J0380	-----	-----
	Pulley, 12x1-1/4" DBL Groove B	1	0	-----	J0385	-----
	Pulley, 12 x1-1/4" Triple Groove B	1	0	-----	J0391	J0391
	Pulley, 12x1-1/4" Sngl Groove A-B	1	0	-----	J0388	-----
	Pulley, 9 x 1" DBL Groove B	0	1	J0365	J0365	J0365
	Pulley, 9x1-1/4" DBL Groove B	0	1	-----	J0366	J0366
26	Locking Collar, 1"	1	1	J0067	-----	-----
	Locking Collar, 1-1/4"	1	1	-----	J0068	J0068
27	Key, 1/4 x 2-1/2"	1	1	E5720	E5720	E5720
28	Belt, BX-48 BX50	1-2	2	J0220	J0220	J0224
	Belt, B52 "3 drive belt"	3	0	-----	-----	J0227
29	Gearbox Complete ( 1 : 1-1/2)	0	1	E5822	E5822	E5822
30	PTO Drive Shaft	0	1	J7205	J7205	J7205

# BASIC VERTICAL AUGER



SWSW0052  
10/19/2007THW

Farm Stiffened Bin

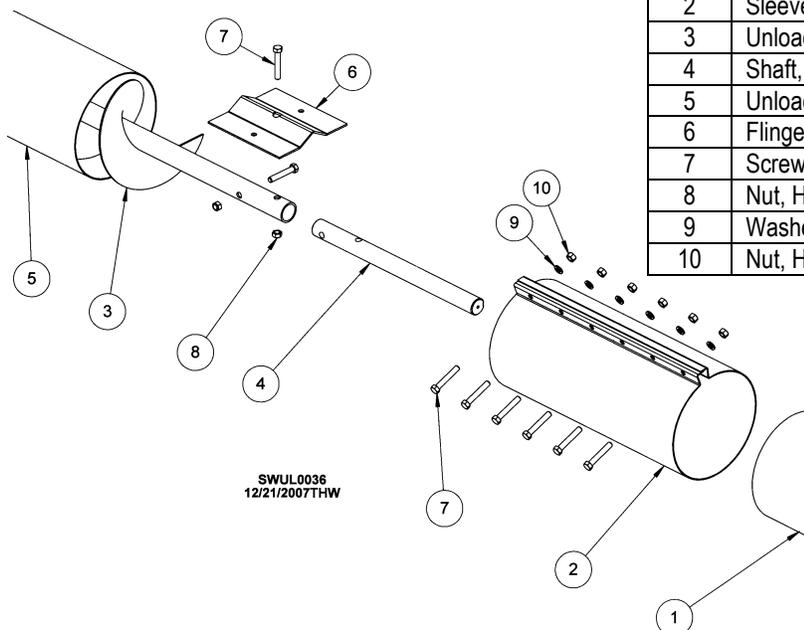
Fig. 14

Farm Bin

## BASIC VERTICAL AUGER, Parts List

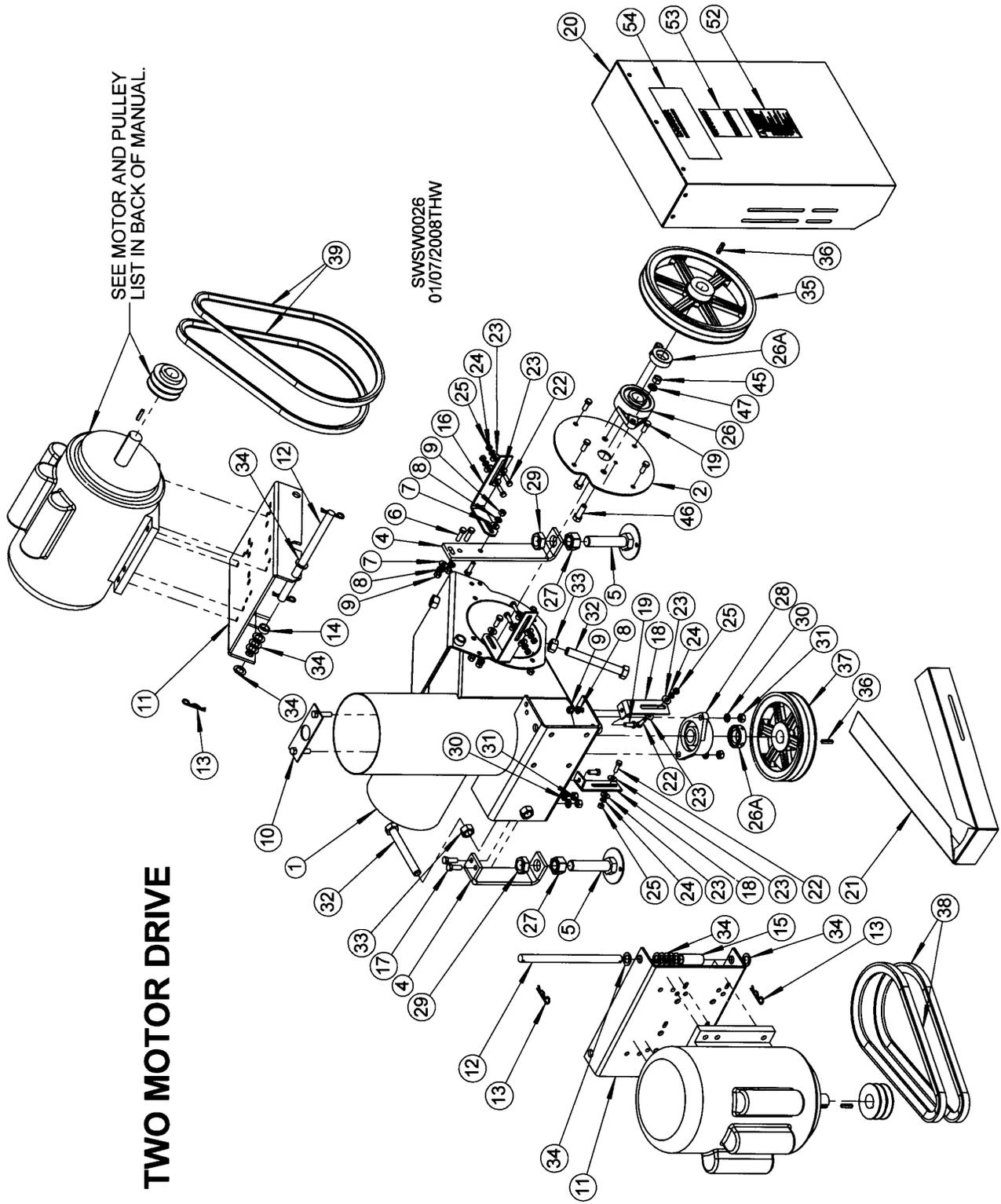
REF #	DESCRIPTION	QTY	6"	8"	10"
1	Rollpin, 5/16" x 1-3/4"	1	J1495	J1495	J1495
2	Top shaft	1	E58091	E97711	E58243
3	Nut, Hex 7/16" -14, PLT	2	J1035	-----	-----
	Nut, Hex 1/2" - 13, PLT	2	-----	J1040	J1040
4	Flange Bearing, 1" w/lock collar	1	J0003	-----	-----
	Flange Bearing, 1-1/4" w/lock collar	1	-----	J0010	J0010
5	Lockwasher, 7/16" split, PLT	2	J1210	J1210	-----
	Lockwasher, 1/2", split, PLT	2	-----	-----	J1215
6	Bolt, 3/8" - 16 x 1", GR 5, PLT	12	J0606	J0606	-----
	Bolt, 7/16" - 14 x 1", GR5, PLT	12	-----	-----	J0695
7	Bearing end plate	1	E5676	E5776	E5659
8	Bolt, 7/16" - 14 x 1.25" GR 5, PLT	2	J0700	-----	-----
	Bolt, 1/2" - 13 x 1.5", GR5, PLT	2	-----	J0730	J0730
9	Lockwasher, 3/8" split, PLT	2	J1205	J1205	-----
	Lockwasher, 7/16" split, PLT	2	-----	-----	J1210
10	Nut, Hex 3/8" - 16, PLT	12	J1020	J1020	-----
	Nut, Hex 7/16" - 14, PLT	12	-----	-----	J1035
11	Top outlet spout	1	E5812	E5813	E5785
12	2-1/2" Truck spout	1	E5814	E5815	E5787
13	Connector Sleeve	3	E5423	E5424	E5425
14	30" Support bracket (bipod)	2	E5800	E5801	E5786
15	Auger tube, 12' galvanized	1	E5842	E5843	E57842
16	Shield, horizontal	1	E5748	E5748	E5578
17	Unload lever arm	1	E5885	E5885	-----
18	Unloading lever bar	1	E5884	E5884	-----
19	Decal, Moving Parts	1	L0284	L0284	L0284
20	Decal, DANGER, Keep Away when auger is running	1	L03061	L03061	L03061
21	Decal, Safe Operation	1	L0281	L0281	L0281
22	Locking collar 1"	1	J0067	-----	-----
	Locking collar 1-1/4"	1	-----	J0068	J0068
23	16' vertical auger w/flinger & shafts (not shown) (See page 61 for flighting & shafts & tubes & flipper)	1	E5846	E5847	E57833
24	Bottom shaft, w/keyway (not shown)	1	E58081	E9751	E58252
25	Decal, Shield Missing (not shown behind shield)	1	L0271	L0271	L0271
26	Shield, vertical (not shown)	1	E5745	E5745	E5745

## SLEEVE MOUNT CONNECTION



REF#	DESCRIPTION	QTY	COMP#
1	Housing, 8" Horizontal Powerhead	1	E5568
2	Sleeve, Connector, 8" x 18"	1	E5424
3	Unload Auger, Compatible	1	E63 --
4	Shaft, 1.25" x 15.75", w/Key	1	E54151
5	Unload Tube, Compatible	1	E66 --
6	Flinger	1	E5689
7	Screw, 3/8-16, 2.25, PLT, GR5, HHCS	8	J0652
8	Nut, Hex, 3/8-16, PLT Lock	2	J1025
9	Washer, Lock, 3/8, PLT, Split	6	J1205
10	Nut, Hex, 3/8-16, PLT	6	J1020

# TWO MOTOR DRIVE



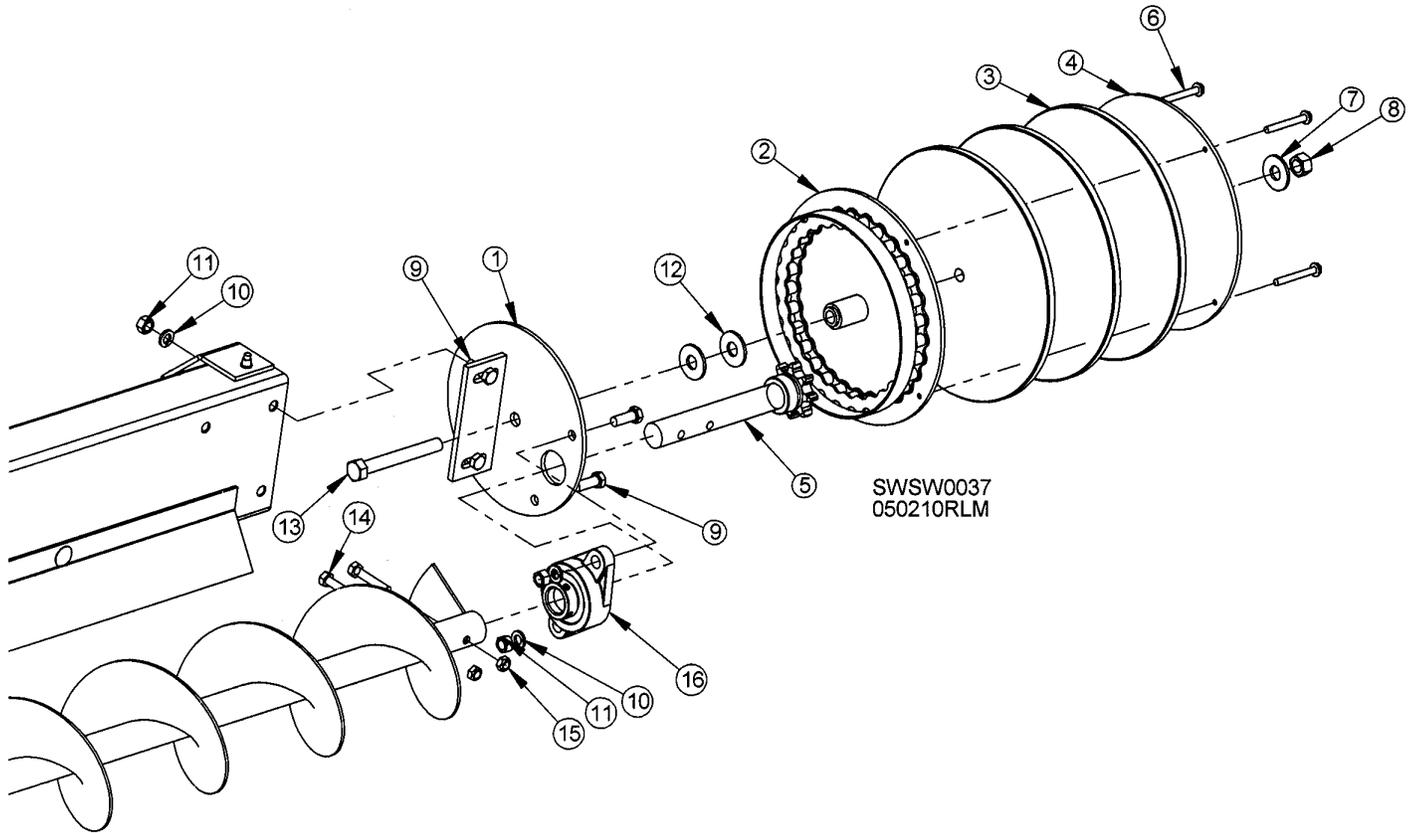
## VERTICAL BOOT OPTIONS

REF#	DESCRIPTION	6"	8"	10"
36	Key, 3/4" x 1-1/4"	G7499	G7499	-----
37	Key, 1/2" x 2-3/4" 3 belt drive	-----	-----	E5721
	Pulley, 9" OD x 1" Dbl Grv. (2 motor drv.)	J0365	-----	-----
	Pulley, 9" OD x 1-1/4" Dbl Grv	-----	J0366	J0366
38	Belt, BX 42	J0200	J0200	-----
	Belt, BP 46	-----	-----	J0215
39	Belt, BX 48 - BX50	J0220	J0220	J0224
	Belt, B52, "3 belt drive"	-----	-----	J0227
40	Nut, 5/16" - 18	J1009	J1009	-----
41	Bolt, Carriage, 5/16" - 18 x 1	J0535	J0535	-----
42	Washer, Lock, 1/2", PLT, Split	J1215	J1215	-----
43	Bushing, Machine, 1/2" - 18 Ga.	J1250	J1250	-----
44	Nut, 1/2" - 13, PLT	J1040	J1040	-----
45	Nut, 1/2" - 13, PLT	-----	J1040	J1040
	Nut, 7/16" - 14, PLT	J1035	-----	-----
46	Bolt, 1/2 - 13 x 1-1/2", PLT, Gr. 5	-----	J0730	J0730
	Bolt, 7/16 - 14 x 1-1/2", PLT, Gr. 5	J0710	-----	-----
47	Lockwasher, 1/2", PLT, Split	-----	J1215	J1215
	Lockwasher, 7/16", PLT, Split	J1210	-----	-----
48	Bolt, 1/2-13 x 2 PLT Gr 5	J0737	J0737	-----
49	Flatwasher, 1/2 PLT	J1125	J1125	-----
50	Bolt, 7/16-14 x 1" PLT	J0695	J0695	-----
51	Shield Bracket Long	E9786	E9786	-----
52	Decal, Safe Operation	L0281	L0281	L0281
53	Decal, Keep Away From Moving Parts	L0284	L0284	L0284
54	Decal, Auger Running	L03061	L03061	L03061
55	Key, 1-1/4 x 2-3/4 Long	E5721	E5721	-----
56	Sprocket, 50B15 1" Bore	J1665	J1665	-----
	Sprocket, 60B15 1" Bore (Single Motor)	J1694	J1694	-----
	Sprocket, 60B15 1.25" Bore (Sngl Motor)	-----	J1694	-----
57	Gear Box	E5822	E5822	-----
58	Gear Box Shield	E5576	E5576	-----
59	Chain, #50, 71 Links	-----	E58311	-----
	Chain, #50, 65 Links	E5832	-----	-----
	Chain, #60, 57 Links (Single and Motor)	E58321	-----	-----
60	Chain, #60, 61 Links (Single and Motor)	-----	E58310	-----
	Chain, #50, 43 Links	F4492	F4492	-----
61	Idler Bracket - (Single Motor)	E5779	E5779	-----
62	Sprocket, 50B15, 1.25" Bore	-----	J1664	-----
	Sprocket, 50B15, 1" Bore	J1665	-----	-----
63	Large Front Shield, Horizontal	E5826	E5826	-----
64	Sprocket Idler, 50-13	J1685	J1685	-----
	Sprocket Idler, 60-13 (Single Motor)	J1687	J1687	-----
65	Idler Bracket	E5742	E5742	-----

REF#	DESCRIPTION	6"	8"	10"
	Vertical Boot Drive 2 motor	E5816	E5817	E5782
	Vertical Boot Drive 1 motor	E5820	E5821	-----
1	Vertical Boot Housing	E5767	E5768	E5769
2	Bearing Plate	E5676	E5776	E5659
3	Slide Door "Not Shown"	E5771	E5771	E5771
4	Bolt on Leg Bracket (front)	E5869	E5869	E5869
	Bolt on Leg Bracket (back)	E5868	E5868	E5868
5	Adjustable Leveling Foot	F4564	F4564	F4564
6	Bolt, 3/8-16 x 1-1/4 PLT Gr 5	J0616	J0616	J0616
7	Flat Washer, 3/8 PLT	J1117	J1117	J1117
8	Lock Washer, 3/8 PLT, Split	J1205	J1205	J1205
9	Nut, 3/8-16 PLT	J1020	J1020	J1020
10	Bearing Holder	E5840	E5731	E5731
11	Motor Mount Hinged Plate "Small"	E5746	E5746	E5746
	Motor Mount Hinged "3 belt drive"	-----	-----	E5765
12	Pivot Rod "Small"	E5744	E5744	E5744
	Pivot Rod "3 belt drive"	-----	E57441	E57441
13	Hair Pin Clip	J5412	J5412	J5412
14	Spacer "Small" 3/8" Long	E5739	E5739	E5739
15	Spacer "Large" 2-5/8" Long	E5740	E5740	E5740
16	Shield Bracket	E5571	E5571	E5571
17	Screw, 7/16-14 x 1.25, PLT	J0700	J0700	J0700
18	Vertical Shield Bracket	E5747	E5747	E5747
19	Bolt, 3/8-16 x 1" PLT Gr 5	J0606	J0606	J0606
20	Front Motor Shield (Horizontal)	E5748	E5748	E5748
21	Vertical Motor Shield	E5745	E5745	E5745
22	Bolt, 5/16-18 x 1" PLT Gr 5	J0527	J0527	J0527
23	Flat Washer, 5/16, PLT	J1111	J1111	J1111
24	Lockwasher, 5/16, PLT, Split	J1200	J1200	J1200
25	Nut, 5/16-18 PLT	J1002	J1002	J1002
26	Flange Bearing, 1" w/LC	J0003	-----	-----
	Flange Bearing, 1-1/4" w/LC	-----	J0010	J0010
26A	Locking Collar, 1"	J0067	-----	-----
	Locking Collar, 1-1/4"	-----	J0068	J0068
27	Nut, 1" - 8, PLT	J1060	J1060	J1060
28	Flange Bearing, 1" w/LC for 2 bolt	J00031	-----	-----
	Flange Bearing, 1-1/4" w/LC for 2 bolt	-----	J00102	J00102
29	Nut, Jam, 1" - 8	J1063	J1063	J1063
30	Lockwasher 7/16" PLT, Split	J1210	J1210	J1210
31	Nut, 7/16" - 14 PLT	J1035	J1035	J1035
32	Bolt, 3/4-10 x 6", PLT, Gr 5	J0824	J0824	J0824
33	Nut, 3/4 - 10 PLT, Gr 5	J1051	J1051	J1051
34	Flatwasher, 3/4 PLT	J1130	J1130	J1130
35	Pulley, 12" OD x 1" B Single Groove	J0375	-----	-----
	Pulley, 12" OD x 1-1/4" B Double Groove	-----	J0385	J0385
	Pulley, 12", 1.25, TRP, B Grve, 3 belt dr.	-----	-----	J0391

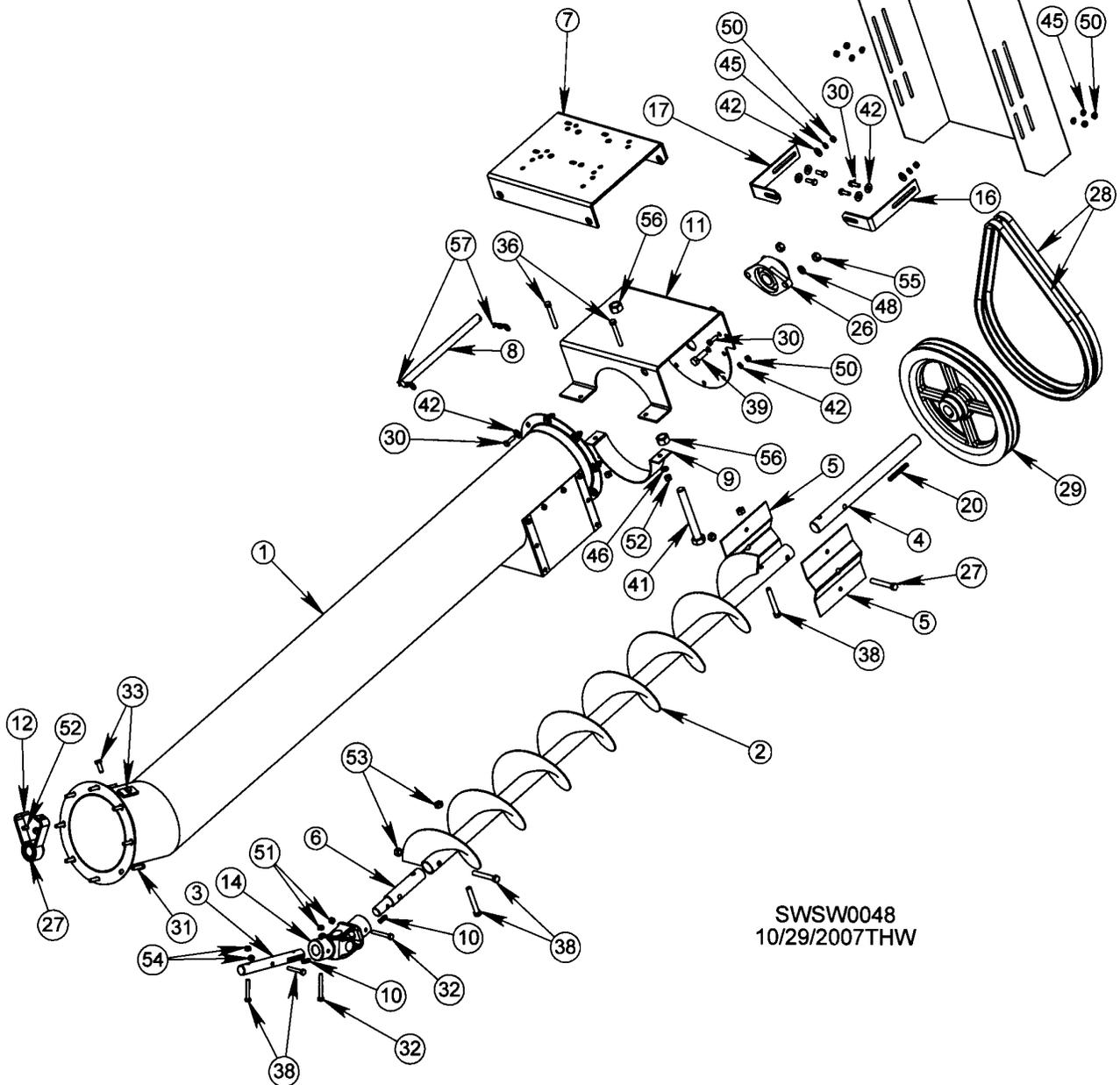
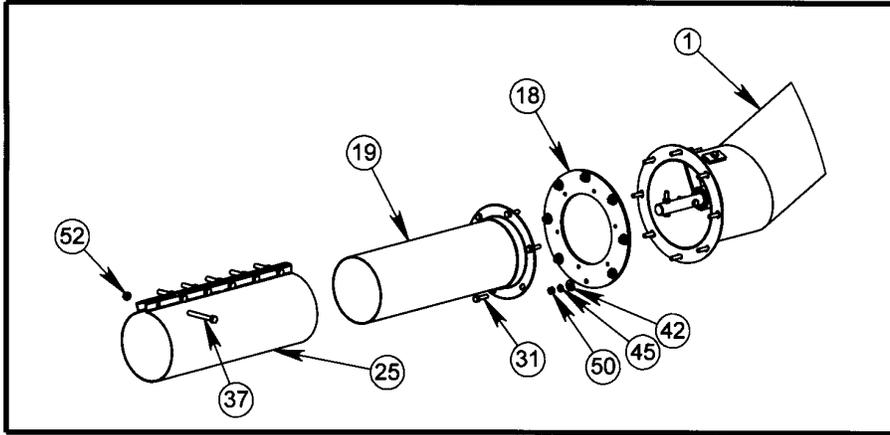


## REDUCTION DRIVE (GALVANIZED)



REF #	DESCRIPTION	QTY	6" COMP #	8" COMP #	10" COMP #
	Complete Wheel		E6094	E6092	E6093
1	Mount, Assembly, 6", 2010	1	E6095	-	-
	Mount, Assembly, 8", Split, w/Brg, 2010	1	-	E6096	-
	Mount, Assembly, 10", Split, w/Brg, 2010	1	-	-	E6097
2	Plate, Back, with Roller, 2010	1	E6087	E6087	E6087
3	10" Rubber Ring, 2000	3	E60121-01	E60121-01	E60121-01
4	Back Plate, 9.25" Dia., 2010	1	E6088	E6088	E6088
5	Shaft, Drive, w/8-Tooth Sprocket	1	E6049	E6049	E6049
6	Screw, 1/4-14, 2.25, PLT, Selfdrill	6	J05041	J05041	J05041
7	Washer, Flat, 3/4, PLT	1	J1130	J1130	J1130
8	Nut, Lock, 3/4 -10 Grade B	1	J1057	J1057	J1057
9	Screw, 3/8 - 16, 1, PLT, Gr. 5	4	J0606	J0606	J0606
10	Washer, Lock, 3/8", PLT, Split	4	J1205	J1205	J1205
11	Nut, Hex, 3/8" - 16, PLT	4	J1020	J1020	J1020
12	Bush, Mach, 3/4 x 1 1/4 -14 Ga, Reg Rim	2	J1260	J1260	J1260
13	Screw, 1/2 - 13, 4, PLT, Gr. 5	1	J0756	J0756	J0756
14	Screw, 5/16 - 18, 1.75, PLT, Gr. 5	2	J0570	J0570	J0570
15	Nut, Lock, 5/16 - 18, PLT	2	J1010	J1010	J1010
16	Bearing, 1", Flange, with Locking Collar	1	J0003	J0003	J0003

**5' INCLINE COMPLETE**  
**6" to 8" and 8" to 10"**

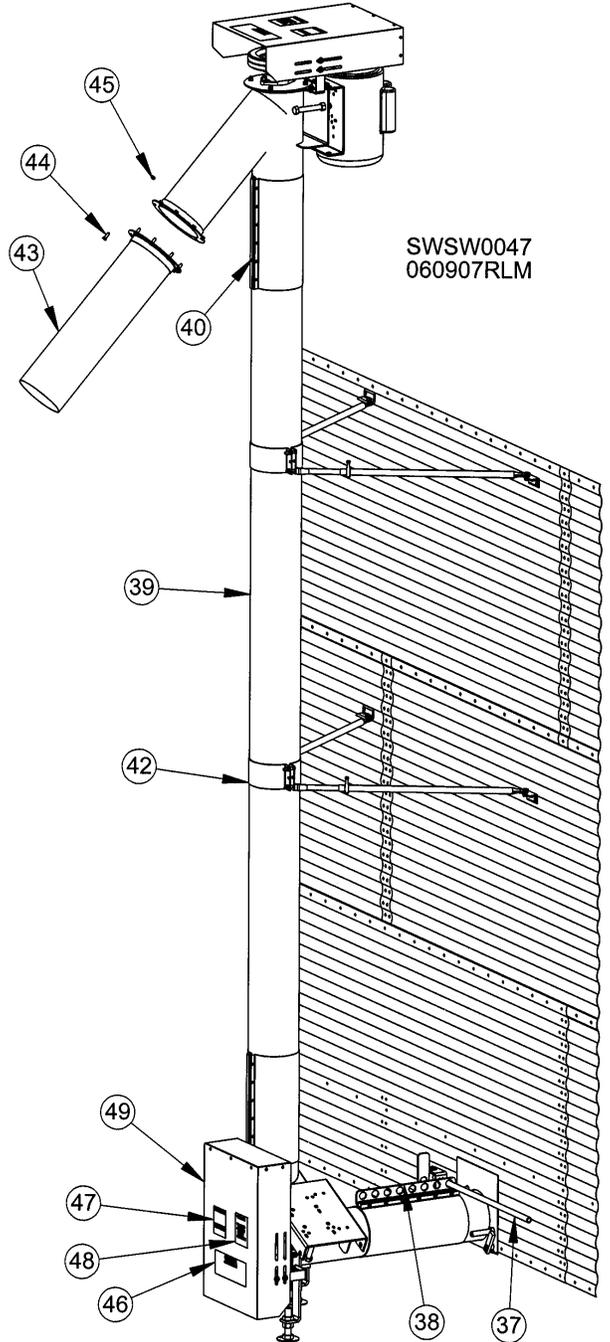
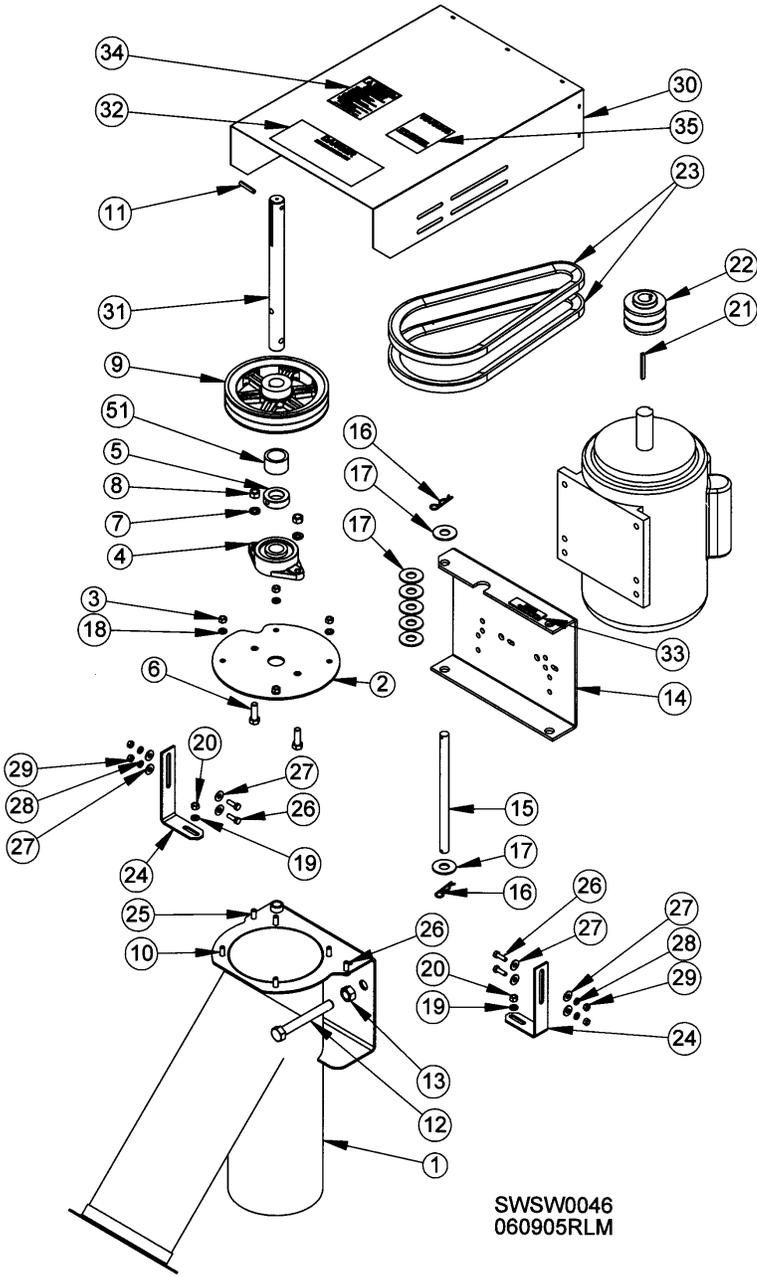


SWSW0048  
 10/29/2007THW

## 5' INCLINE COMPLETE, Parts List

REF #	DESCRIPTION	QTY	COMP# 6-8"	COMP# 8-10"
1	Basic Incline, 5'	1	E5950	E5940
2	Flighting & Auger Tube	1	E5622	E5623
3	Shaft, 1-1/4" x 1" x 8-3/4" long w/Keyway	1	E56421	E5624
4	Shaft	1	E54151	E54142
5	Flinger	1	E54161	E5689
6	Shaft, Auger to Knuckle	1	E56411	E56571
7	Hinged Motor Mount	1	E5746	E5746
8	Small Pivot Rod PLT	1	E5744	E5744
9	10" Clamp Band "Narrow"	1	E97161	E5797
10	Keystock, 1/4" x 1" long	2	E5913	E5915
11	Tube Mount	1	E5958	E5948
12	Bushing Support	1	E5956	E5947
14	Knuckle	1	E5970	E5980
15	Motor Shield	1	E5748	E5748
16	Shield Bracket "Left"	1	E5750	E5750
17	Shield Bracket "Right"	1	E5752	E5752
18	Adaptor Plate	1	E5953	E5943
19	Adaptor Sleeve	1	E5954	E5944
20	Key, 1/4" x 2-3/4"	1	E5721	E5721
25	Connector Sleeve	1	E5423	E5424
26	Flange Bearing w/Locking collar 1-1/4"	1	J0010	J0010
27	Bushing, 1" x 1-1/4" x 1-1/4"	1	J00811	J00811
28	Belt, BX 54	2	J0227	J0222
29	Pulley, 14 x 1-1/4", Double "B" Groove	1	J03951	J03951
30	Bolt, 5/16-18 x 1", PLT, Gr. 5	12	J0527	J0527
31	Bolt, 5/16-18 x 1-1/4" PLT, Gr. 5	16	J0550	J0550
32	Bolt, 5/16-18 x 2-1/2, PLT, Gr. 5	2	J0594	J0594
33	Bolt, 3/8-16 x 1" PLT, Gr. 5	2	J0606	J0606
36	Bolt, 3/8-16 x 2-3/4, PLT, Gr. 5	2	J0657	J0657
37	Bolt, 3/8-16 x 3, PLT, Gr. 5	6	J0660	J0660
38	Bolt, 7/16-14, 3, PLT, Gr. 5	1	J0722	---
	Bolt, 7/16-14, 3, PLT, Gr. 5	2-6	---	J0722
	Bolt, 5/16-18, 2, PLT, Gr. 5 (6" only)	0-2	J0585	---
39	Bolt, 1/2-13 x 1-1/2, PLT, Gr. 5	2	J0739	J0739
41	Bolt, 3/4 - 10 x 6 PLT, Gr. 5	1	J0824	J0824
42	Flatwasher, 5/16, PLT	16	J1111	J1111
45	Lockwasher, 5/16 PLT, Split	12	J1200	J1200
46	Lockwasher, 3/8, PLT, Split	2	J1205	J1205
47	Lockwasher, 7/16, PLT, Split	1-6	J1210	J1210
48	Lockwasher, 1/2, PLT, Split	2	J1215	J1215
50	Nut, 5/16-18, PLT	20	J1002	J1002
51	Nut, 5/16-18, PLT, Nylon Lock Nut	2	J1003	J1003
52	Nut, 3/8-16, PLT	10	J1030	J1030
53	Nut, 7/16-14, PLT	1-6	J1035	J1035
54	Nut, 5/16-18, PLT, Locknut (6" only)	0-2	J1010	---
55	Nut, 1/2 - 13, PLT	2	J1040	J1040
56	Nut, 3/4 - 10, PLT	1	J1051	J1051
57	Hair Pin Clip	1	J5412	J5412

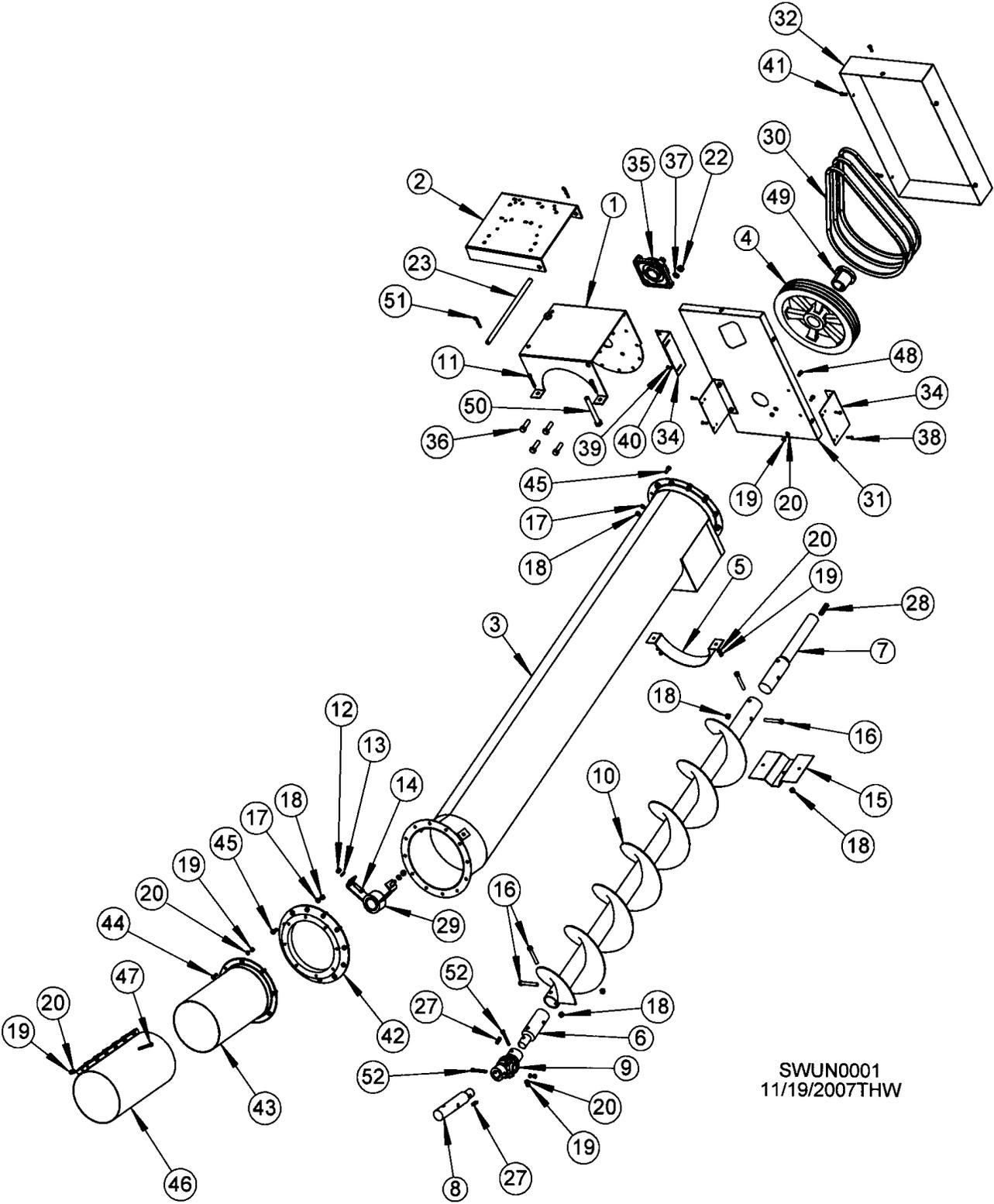
# TOP DRIVE ASSEMBLY



## TOP DRIVE ASSEMBLY, Parts List

REF #	DESCRIPTION	QTY	6" COMP#	8" COMP#	10" COMP#
1	Power Top Spout Housing Weldment	1	E5929	E5933	E57851
2	Bearing Plate	1	E5676	E5776	E5659
3	Nut, Hex, 3/8" – 16, PLT	4	J1020	J1020	-----
	Nut, Hex, 7/16" – 14, PLT	4	-----	-----	J1035
4	Flange Bearing	2	J0003	J0010	J0010
5	Locking Collar	1	J0067	J0068	J0068
6	Bolt, 7/16 - 14 x 1.25" GR5, PLT	2	J0700	-----	-----
	Bolt, 1/2 - 13 x 1.5" GR5, PLT	2	-----	J0730	J0730
7	Lock Washer, 7/16", Split, PLT	2	J1210	-----	-----
	Lock Washer, 1/2", Split, PLT	2	-----	J1215	J1215
8	Nut, Hex, 7/16" – 14, PLT	2	J1035	-----	-----
	Nut, Hex, 1/2" – 13, PLT	2	-----	J1040	J1040
9	Pulley, 9" OD 2 groove	1	J0365	J0366	J0366
10	Bolt, 3/8" – 16 x 1", GR5, PLT	4	J0606	J0606	-----
	Bolt, 7/16" – 14 x 1", GR5, PLT	4	-----	-----	J0695
11	Roll Pin, 5/16 x 1-3/4, PLT	1	J1495	J1495	J1495
12	Bolt, 3/4-10 x 6, GR5, PLT	1	J0824	J0824	J0824
13	Nut, Hex, 3/4-10 PLT	1	J1051	J1051	J1051
14	Hinged Motor Mount, Small	1	E5746	E5746	E5746
15	Pivot Rod, Small	1	E5744	E5744	E5744
16	Hair Pin Clip	1	J5412	J5412	J5412
17	Flat Washer, 3/4 PLT	2	J1130	J1130	J1130
18	Lock Washer, 3/8", Split, PLT	4	J1205	J1205	-----
	Lock Washer, 7/16", Split, PLT	4	-----	-----	J1210
19	Lock Washer, 3/8", Split, PLT	6	J1205	J1205	J1205
20	Nut, Hex, 3/8-16, GR5, PLT	5	J1020	J1020	J1020
21	Key, 1/4" Square x 2-1/2"	1	E5720	E5720	E5721
22	Pulley, 3/2 P.D., 1-1/8 DBL, Cast	1	J0317	J0317	J0317
23	Belt, BX42 (6 & 8") - BX46 (10")	2	J0200	J0200	J0215
24	Shield Bracket	2	E5870	E5870	E5870
25	Bolt, 3/8-16x1 PLT	2	J0606	J0606	J0606
26	Bolt, 5/16-18x1, GR5, PLT	4	J0527	J0527	J0527
27	Flat Washer, 5/16", PLT	8	J1111	J1111	J1111
28	Lock Washer, 5/16" Split, PLT	4	J1200	J1200	J1200
29	Nut, Hex, 5/16-18 PLT	4	J1002	J1002	J1002
30	Shield	1	E5748	E5748	E5748
31	Shaft, power top	1	E58092	E54153	E58244
32	Decal, Danger Auger is Running	1	L03061	L03061	L03061
33	Decal, Danger Replace Missing Shield	1	L0271	L0271	L0271
34	Decal, Caution, Safety Instruction	1	L0281	L0281	L0281
35	Decal, Warning Keep Away	2	L0284	L0284	L0284
36	Decal, Sukup Logo (Not shown)	1	L0317	L0317	L0317
37	Unload lever arm	1	E5885	E5885	-----
38	Unloading lever bar	1	E5884	E5884	-----
39	Auger tube (for 16' vert.)	1	E5842	E5843	E57842
40	Connector sleeve	3	E5423	E5424	E5425
41	16' Vert. Auger w/flngr & shafts (Not shown)	1	F4750	E58471	E57836
42	Support bracket, 30" (bipod)	1	E5800	E5801	E5786
43	Truck Spout, 2-1/2'	1	E5814	E5815	E5787
44	Bolt, 3/8-16 x 1 GR5	6-8	J0606	J0606	J0606
45	Nut, 3/8-16 Hex	6-8	J1020	J1020	J1020
46	Decal, Danger Auger is Running	1	L03061	L03061	L03061
47	Decal, Moving Parts	1	L0284	L0284	L0284
48	Decal, Safe Operation	1	L0281	L0281	L0281
49	Shield - Small Horiz.	1	E5575	E5575	E5748
50	Decal, Shield Missing (Not shown)	1	L0271	L0271	L0271
51	Spacer, Top Drive	1	E57415	E57415	E57415
52	Shaft, bottom (Not shown)	1	F48101	G73291	F48342

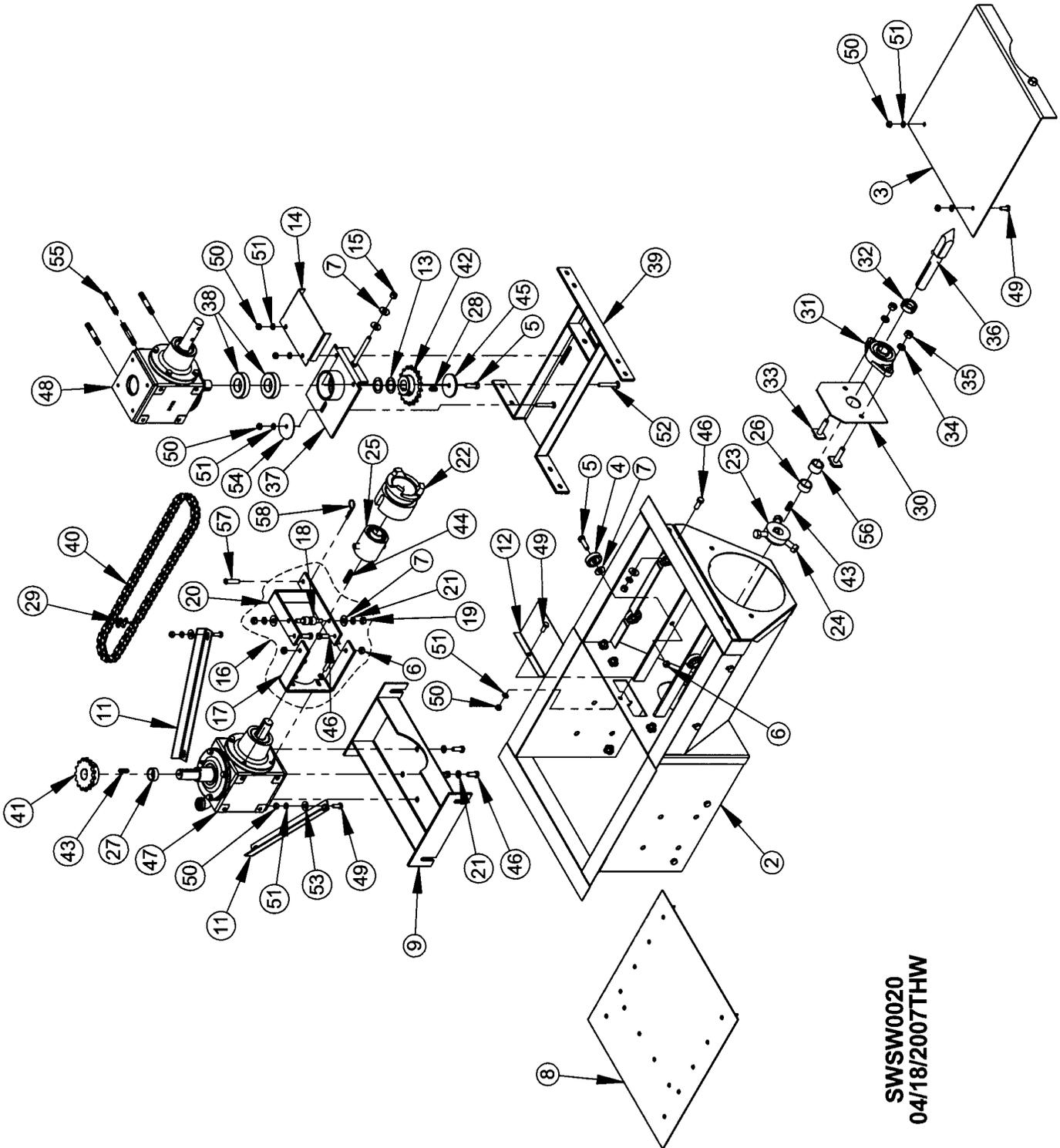
INCLINE AUGER 10-12" - 20°



## INCLINE AUGER 10-12" - 20°, Parts List

REF #	DESCRIPTION	QTY	COMP #
1	Tube Mount	1	E5993
2	Motor Mount	1	E5992
3	12" Horizontal Tube Weldment	1	E5991-01
4	Pulley, 15.4", Triple, B Groove	1	J0396
5	Half Band, 12" Galvanized	1	EE412
6	Auger to Knuckle Shaft	1	E56572
7	Unload Shaft	1	E54143
8	Support Shaft	1	E56241
9	U-Joint, 12" Incline	1	E5985
10	Flight, 12"	1	E56231
11	Screw, Hex, 3/8-16, 2.5" PLT	2	J0655
12	Lock Nut, 1/2-13	2	J1042
13	Washer, Lock 1/2 PLT	2	J1215
14	Screw, 1/2-13, 3.25"	14	J0730
15	Flinger, 12" Incline	1	E5688
16	Screw, 1/2-13	4	J0752
17	Washer, Lock, 7/16-14, PLT, Split	26	J1210
18	Nut, Hex, 7/16-14, PLT, Split	28	J1035
19	Nut, Hex, 3/8-16, PLT	20	J1020
20	Washer, Lock, 3/8, PLT	14	J1205
21	Screw, 3/4-10, 6", Gr.5, HHCS (Not Shown)	1	J0819
22	Nut, 3/4-10, PLT	6	J1051
23	Pivot Rod	1	E57441
24	Pin, Cotter, 3/16, 2", PLT	1	J1432
25	Bushing, Machine, 3/4-14 Ga, Regular Rim	1	J1260
27	Key, 3/8 Sq. x 2	2	S11627
28	Keystock, 1/2" x 2-1/2"	1	D1681
29	Bushing, Support Assembly	1	E59471
30	Belt, BX63, COG	3	J0239
31	Inner Shield	1	E57482
32	Outer Shield, 12" Incline	1	E57481
33	Shield Mount, Auger	2	E57484
34	Shield Mount, Shield	2	E57483
35	Bearing, 2", 4 Bolt Flange	1	J0049
36	Screw, 3/4-10, 2", PLT, Gr. 5	4	J0812
37	Lock Washer, 3/4"	4	J1220
38	Screw, 1/4-20, 1", PLT	4	J0508
39	Nut, Hex, 1/4-20	4	J0990
40	Washer, Lock, 1/4, PLT	4	J1195
41	Bolt, 5/16-18, 3/4" Bin	5	J0536
42	Adapter Ring, 12"	1	E59431
43	Connector Sleeve	1	E59441
44	Screw, 3/8-16, 1", PLT	8	J0606
45	Screw, 7/16-14 x 1.5, PLT Gr. 5	12	J0695
46	Clamp Band	1	E5425
47	Screw, 3/8-16 x 3, PLT, Gr. 5	6	J0660
48	Screw, 3/8-16, 3/4, PLT	4	J0605
49	Bushing, 2", SK, Taper Lock	1	J04310
50	Screw, 3/4-10 x 6, PLT, GR5, HHCS	1	J0819
51	Clip, Hair Pin, .120 x 2.50, 107-20	2	J5412
52	Screw, 3/8-16 x 3, PLT, GR5, HHCS	2	J0661

# 6" & 8" CENTER SUMP

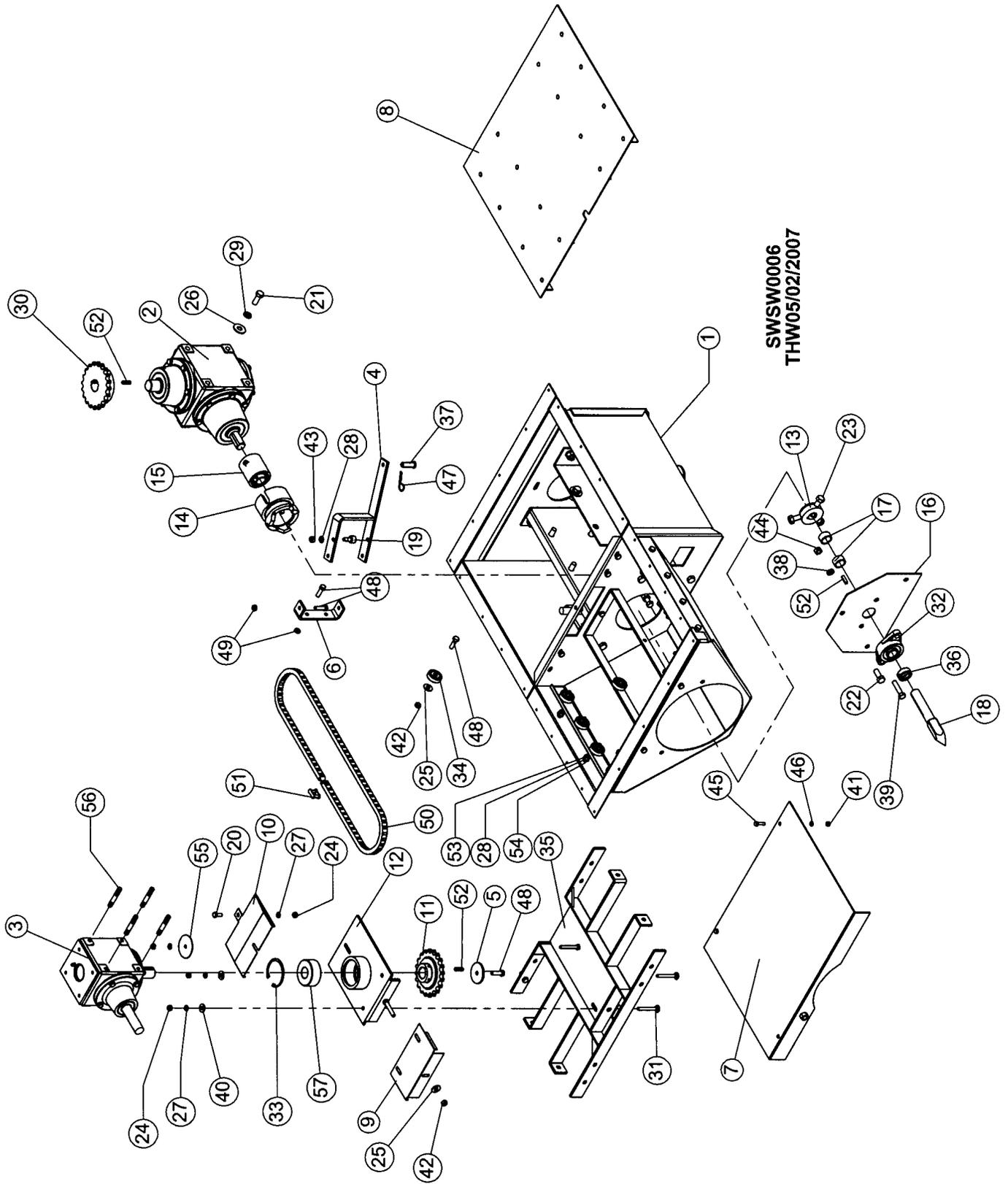


SWSW0020  
04/18/2007THW

## Center Sump 6" & 8", Parts List

REF #	DESCRIPTION	QTY	6" COMP #	8" COMP #
1	Sweep sump & gearboxes Complete	1	E5331	E5332
2	Center sump shell	1	E5300	E5301
3	Center Slide Gate	1	E5303	E5304
4	Roller bearing 1-1/2" 6203RS6C3	6	J0045	J0045
5	Bolt, 3/8-16 x 1-1/4" GR 5	8	J0616	J0616
6	Locknut, 3/8-16	6	J1025	J1025
7	Washer, 3/8" PLT flat	19	J1117	J1117
8	Center sump cover	8	E5306	E5306
9	Rear gearbox support bracket	1	E5307	E5307
11	Center sump brace	2	E5308	E5308
12	Chain Cover	1	E5309	E5309
13	Bushing, Machine, 1-18, Ga.	2	J1266	J1266
14	Cover gearbox support	1	E5312	E5312
15	Nut, 3/8-16 PLT hex	20	J1020	J1020
16	Clutch shifter arm complete assembly	1	E5313	E5313
17	Clutch shifter arm support bracket	1	E5311	E5311
18	Bearing .75 (cam follower)	2	J0035	J0035
19	Nut, 3/8-24 hex	2	J1030	J1030
20	Clutch shifter arm weldment	1	E53131	E53131
21	Lockwasher, 3/8" split	19	J1205	J1205
22	Engaging clutch, three tooth	1	E60011	E60011
23	3 Dog clutch disc.	1	E6002	E6002
24	Bolts, 1-1/2 x 1/2"	3	J0730	J0730
25	Clutch base w/set & pilot bearing, 2 bolt	1	E6003	E6003
26	Spacer, 3/4" long for 6" & 8"	1	E60041	E60041
27	Spacer, 7/16" long	1	E60042	E60042
28	Key, 1/4" x 3/4"	1	G7508	G7508
29	Chain, Link, #50, Connector	1	J1760	J1760
30	Mounting plate	1	E6005	E6005
31	Flange bearing, 1"	1	J0003	J0003
32	Locking collar, 1"	1	J0067	J0067
33	Bolt, 7/16-14 x 1-1/2", Gr. 5	2	E5570	E5570
34	Lockwasher, 7/16" split	6	J1210	J1210
35	Nut, 7/16-14 hex	2	J1035	J1035
36	Square end auger shaft	1	E6006	E6006
37	Top gearbox bearing support slide plate, w/bearings	2	E5317	E5317
38	Sealed bearing, 1-1/4, 1654-2Rs	2	J0060	J0060
39	Top gearbox support bracket	1	E5318	E5318
40	Chain, #50, (73 links & 1 connector)	1	E5319	E5319
41	Sprocket, 1" bore, #50B15	1	J1665	J1665
42	Sprocket, 1" bore, #50A18	1	E5837	E5837
43	Key, 1/4" Sq x 1"	2	E5915	E5915
44	Key, 1/3" x 1-1/2"	1	E9007	E9007
45	Spacer washer, 3/8"	1	E5324	E5324
46	Bolt, 3/8-16 x 1 Gr. 5	10	J0606	J0606
47	Rear gearbox complete (See gearbox section)	1	E5320	E5320
48	Top gearbox complete (See gearbox section)	1	E5325	E5325
49	Bolt, 5/16-18 x 3/4" Gr. 5	8-12	J0520	J0520
50	Nut, 5/16-18 PLT Hex	10-14	J1002	J1002
51	Lockwasher, 5/16" split	9	J1200	J1200
52	Bolt, 5/16- 18 x 2-1/4" Carriage, Tap	2	J0588	J0588
53	Washer, 5/16, Flat, PLT	4	J1111	J1111
54	Washer, 2-1/2" OD x 3/8" ID	1	J1140	J1140
55	Stud Bolt, 7/16-14, 2-3/4 PLT, Gr. 5	4	J07211	J07211
56	Spacer, 3/4" Long	1	E6004	E6004
57	Pin, Picker, 3/8 x 1 1/2	1	J1541	J1541
58	Clip, Hair Pin	1	J5410	J5410

# 10" SWEEPWAY CENTER SUMP



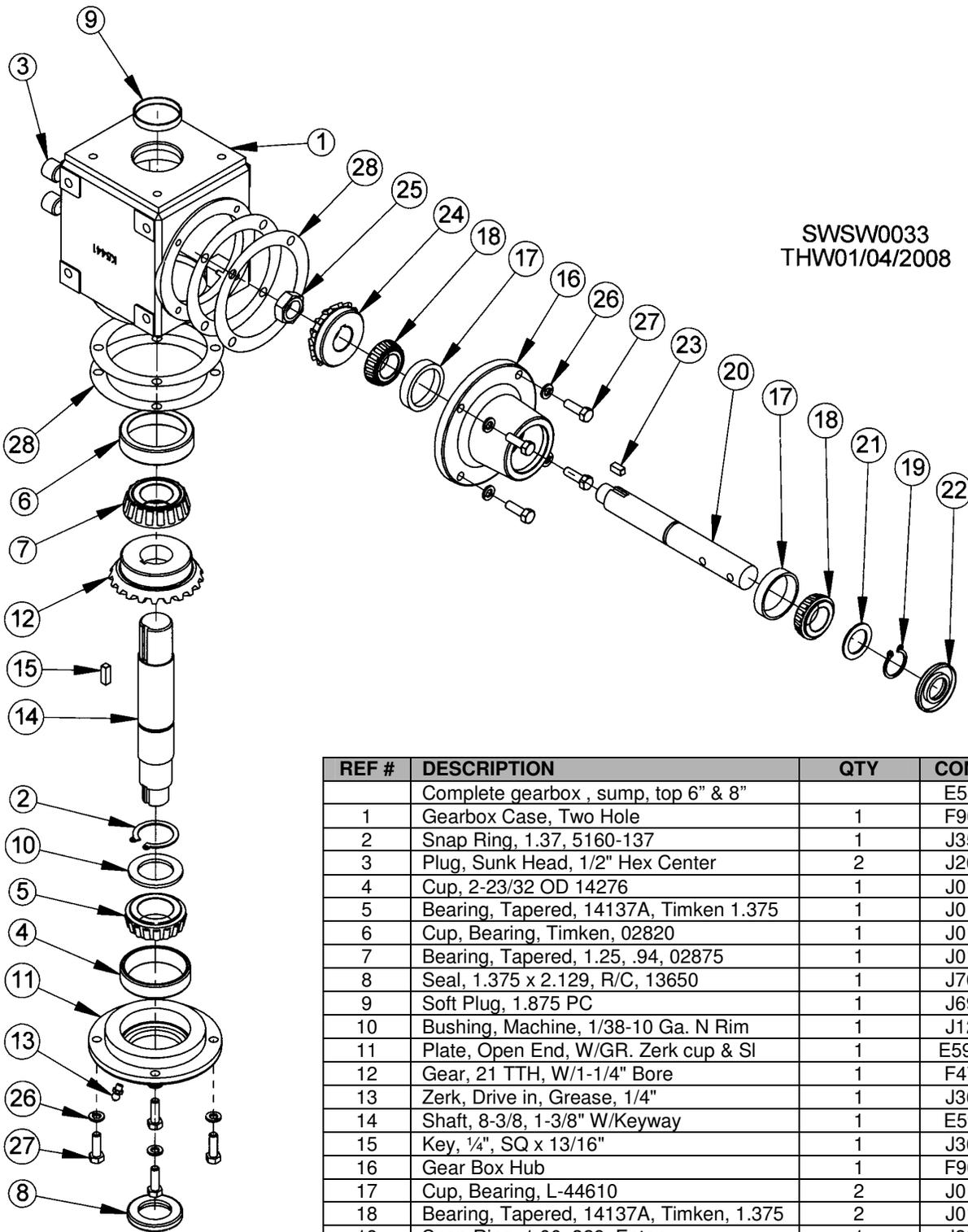
SWSW0006  
THW05/02/2007

## 10" SWEEPWAY CENTER SUMP, Parts List

REF #	DESCRIPTION	QTY	COMP #
1	10" Sweepway Sump	1	E5350
2	Gearbox, Lower, Complete 10", 1998	1	E5360
3	Gearbox, Top, Complete 10", 2007 w/Snap Ring	1	E5375
4	Clutch Arm, 10"	1	E5351
5	Washer, Spacer, 3/8" ID 2.25 OD	1	E5324
6	Clutch Bracket 10"	1	E5352
7	Slide Gate Weldment	1	E5353
8	Sump Cover	1	E5354
9	Gearbox Support Cover	1	E5357
10	Chain Cover	1	E5358
11	Sprocket, Machined, 60B20, W 1.181 Bore	1	E5373
12	Bearing Support Plate, w/bearing	1	E5339
13	Base, Clutch, 3 bolt, 2.5 x 1-7/8	1	E6002-01
14	Clutch, Engaging, 3 teeth	1	E60011
15	Clutch, BS & Pilot bearing, 2 bolt	1	E6003
16	Mounting Plate	1	E60051
17	Clutch Spacer	2	E60041
18	Shaft, 8 3/16, W/KW & Solid Square End	1	E6018
19	Bearing, .75, Cam Follower, CF	2	J0035
20	Screw, 5/16 - 18, 3/4" PLT	1	J0520
21	Screw, 1/2- 20, 1.25", PLT	8	J0724
22	Screw, 1/2 - 13, 1.25, PLT	1	J0728
23	Screw, 1/2 - 13, 1.5, GR 5 HHCS	3	J0730
24	Nut, Hex, 5/16 - 18 PLT	4	J1002
25	Washer, Flat, 3/8, PLT	11	J1117
26	Washer, Flat, 1/2"	8	J1125
27	Washer, Lock, 5/16, PLT, Split	4	J1200
28	Washer, Lock, 3/8, PLT	14	J1205
29	Washer, Lock, 1/2, PLT	8	J1215
30	Sprocket, 60B20, 1-1/4" Bore	1	J1695
31	Bolt, Carriage, 5/16 - 18, 2.5	2	J0589
32	Bearing, Flange, 1", with collar	1	J0003
33	Snap Ring 2.047	1	J3597
34	Bearing, Roller, 1.5", 3/8" Bore	10	J0045
35	Upper Gearbox Support Bracket	1	E5356
36	Locking Collar, 1"	1	J0067
37	Pin, Picker, 3/8 x 1-1/2, PLT	1	J1541
38	Washer, Lock, 7/16, PLT, Split	2	J1210
39	Screw, 7/16 - 14, 2" PLT	2	J0718
40	Washer, Flat, 5/16, PLT	3	J1111
41	Nut, Hex, 1/4 -20, PLT, Split	2	J0990
42	Nut, Hex, 3/8 - 16, PLT, Split	11	J1025
43	Nut, Lock, 3/8 -24, PLT, Split	2	J1030
44	Nut, Hex, 7/16 - 14, PLT, Split	2	J1035
45	Screw, 1/4 - 20, 1" PLT	2	J0508
46	Washer, Lock, 1/4", PLT	2	J1195
47	Clip, Hair Pin, .09 x 2"	1	J5410
48	Screw, 3/8 - 16, 1.25", PLT	15	J0616
49	Nut, Jam, 3/8 -16, PLT	4	J1016
50	Chain, #60, 73 Links	1	E5359-01
51	Chain, Connector, #60	1	J1775
52	Key, 1/4" Square x 1"	3	E5915
53	Nut, Hex, 3/8 - 16, PLT	12	J1020
54	Screw, 3/8-16, 1", PLT	12	J0606
55	Washer, 2.5" O.D. x 3/8" I.D., 14 gauge	1	J1140
56	Stud Bolt, 7/16-14, 2-3/4" PLT, Gr. 5	4	J07211
57	Bearing, 1.181 ID, 2.8346 OD	1	J00599

## 6" & 8" SWEEPWAY TOP GEARBOX

SWSW0033  
THW01/04/2008

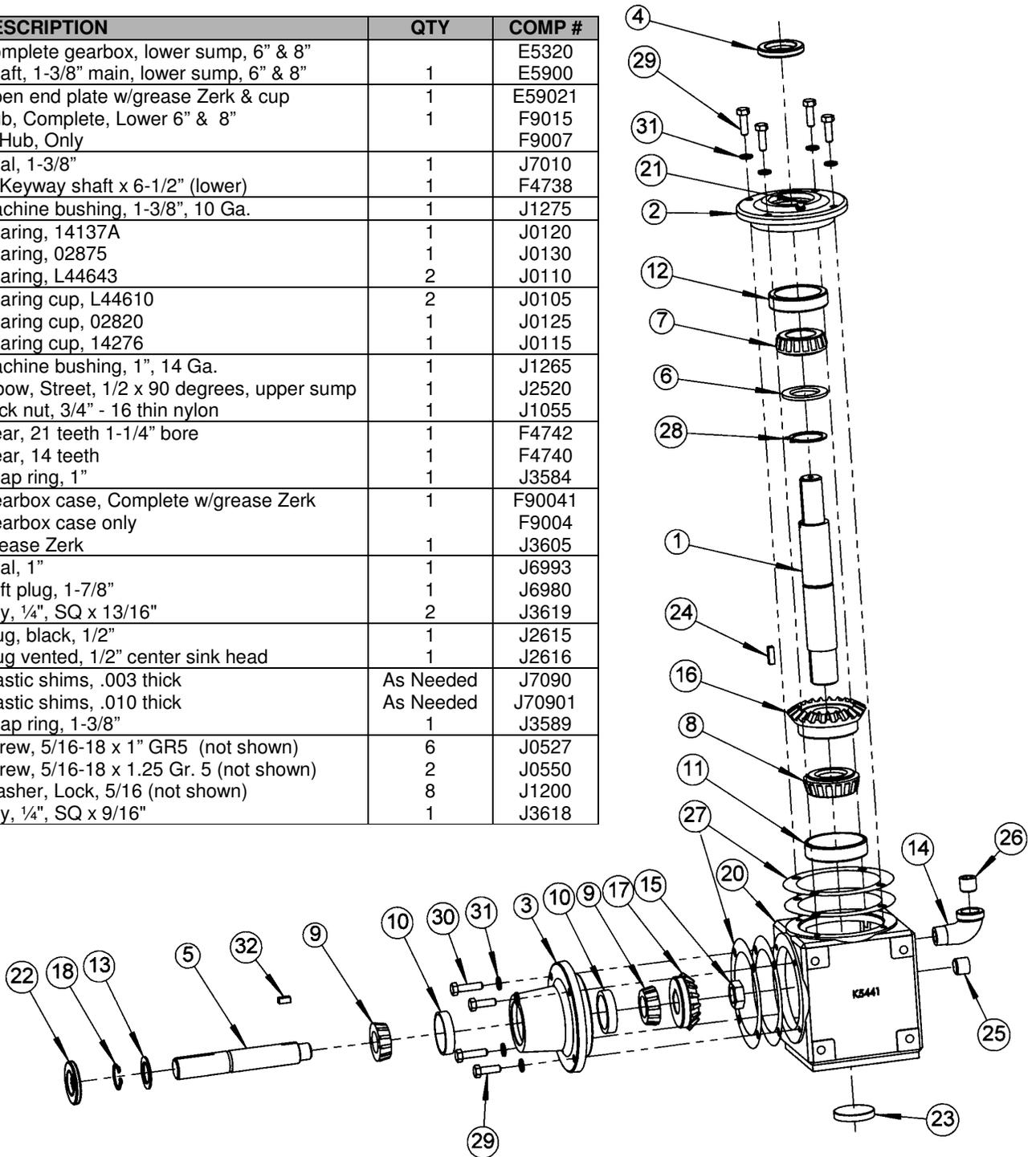


REF #	DESCRIPTION	QTY	COMP #
	Complete gearbox , sump, top 6" & 8"		E5325
1	Gearbox Case, Two Hole	1	F9004
2	Snap Ring, 1.37, 5160-137	1	J3589
3	Plug, Sunk Head, 1/2" Hex Center	2	J2615
4	Cup, 2-23/32 OD 14276	1	J0115
5	Bearing, Tapered, 14137A, Timken 1.375	1	J0120
6	Cup, Bearing, Timken, 02820	1	J0125
7	Bearing, Tapered, 1.25, .94, 02875	1	J0130
8	Seal, 1.375 x 2.129, R/C, 13650	1	J7010
9	Soft Plug, 1.875 PC	1	J6980
10	Bushing, Machine, 1/38-10 Ga. N Rim	1	J1275
11	Plate, Open End, W/GR. Zerk cup & SI	1	E59021
12	Gear, 21 TTH, W/1-1/4" Bore	1	F4742
13	Zerk, Drive in, Grease, 1/4"	1	J3605
14	Shaft, 8-3/8, 1-3/8" W/Keyway	1	E5901
15	Key, 1/4", SQ x 13/16"	1	J3619
16	Gear Box Hub	1	F9007
17	Cup, Bearing, L-44610	2	J0105
18	Bearing, Tapered, 14137A, Timken, 1.375	2	J0111
19	Snap Ring, 1.00, 329, Eaton	1	J3584
20	Shaft, Upper Gearbox. Conn, 1x8	1	E5903
21	Bushing, Machine, 1-1Ga, N-Rim	1	J1265
22	Seal, 1.000 x 2.004, R/C, 10124	1	J6993
23	Key, 1/4", SQ x 9/16"	1	J3618
24	Gear, Small, (14 Teeth)	1	F4740
25	Nut, Lock, 3/4-16, PLT, Thin, Nylon	1	J1055
26	Washer, Lock, 5/16, PLT, Split	8	J1200
27	Screw, 5/16-18, 1, PLT, Gr. 5, HHCS	8	J0527
28	Shim, 3.88 x 5.12 x 0.003	As Needed	J7090
	Shim, 3.88 x 5.12 x 0.010	As Needed	J70901

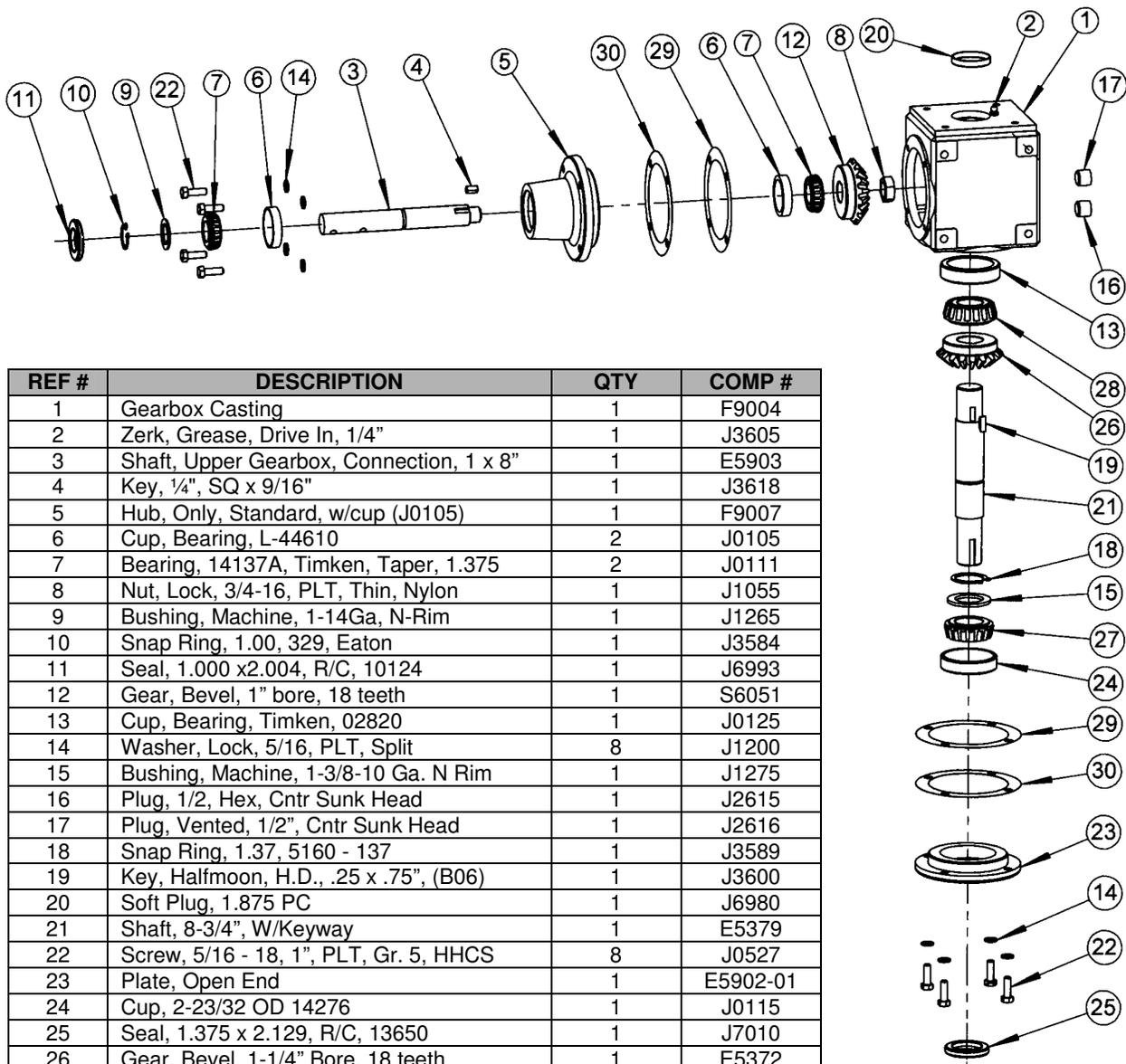
# 6" & 8" SWEEPWAY LOWER GEARBOX

SWSW0002  
THW01/07/2007

REF #	DESCRIPTION	QTY	COMP #
1	Complete gearbox, lower sump, 6" & 8"	1	E5320
	Shaft, 1-3/8" main, lower sump, 6" & 8"	1	E5900
2	Open end plate w/grease Zerk & cup	1	E59021
3	Hub, Complete, Lower 6" & 8"	1	F9015
	Hub, Only		F9007
4	Seal, 1-3/8"	1	J7010
5	1" Keyway shaft x 6-1/2" (lower)	1	F4738
6	Machine bushing, 1-3/8", 10 Ga.	1	J1275
7	Bearing, 14137A	1	J0120
8	Bearing, 02875	1	J0130
9	Bearing, L44643	2	J0110
10	Bearing cup, L44610	2	J0105
11	Bearing cup, 02820	1	J0125
12	Bearing cup, 14276	1	J0115
13	Machine bushing, 1", 14 Ga.	1	J1265
14	Elbow, Street, 1/2 x 90 degrees, upper sump	1	J2520
15	Lock nut, 3/4" - 16 thin nylon	1	J1055
16	Gear, 21 teeth 1-1/4" bore	1	F4742
17	Gear, 14 teeth	1	F4740
18	Snap ring, 1"	1	J3584
20	Gearbox case, Complete w/grease Zerk	1	F90041
	Gearbox case only		F9004
21	Grease Zerk	1	J3605
22	Seal, 1"	1	J6993
23	Soft plug, 1-7/8"	1	J6980
24	Key, 1/4", SQ x 13/16"	2	J3619
25	Plug, black, 1/2"	1	J2615
26	Plug vented, 1/2" center sink head	1	J2616
27	Plastic shims, .003 thick	As Needed	J7090
	Plastic shims, .010 thick	As Needed	J70901
28	Snap ring, 1-3/8"	1	J3589
29	Screw, 5/16-18 x 1" GR5 (not shown)	6	J0527
30	Screw, 5/16-18 x 1.25 Gr. 5 (not shown)	2	J0550
31	Washer, Lock, 5/16 (not shown)	8	J1200
32	Key, 1/4", SQ x 9/16"	1	J3618



# 10" SWEEPWAY TOP GEARBOX

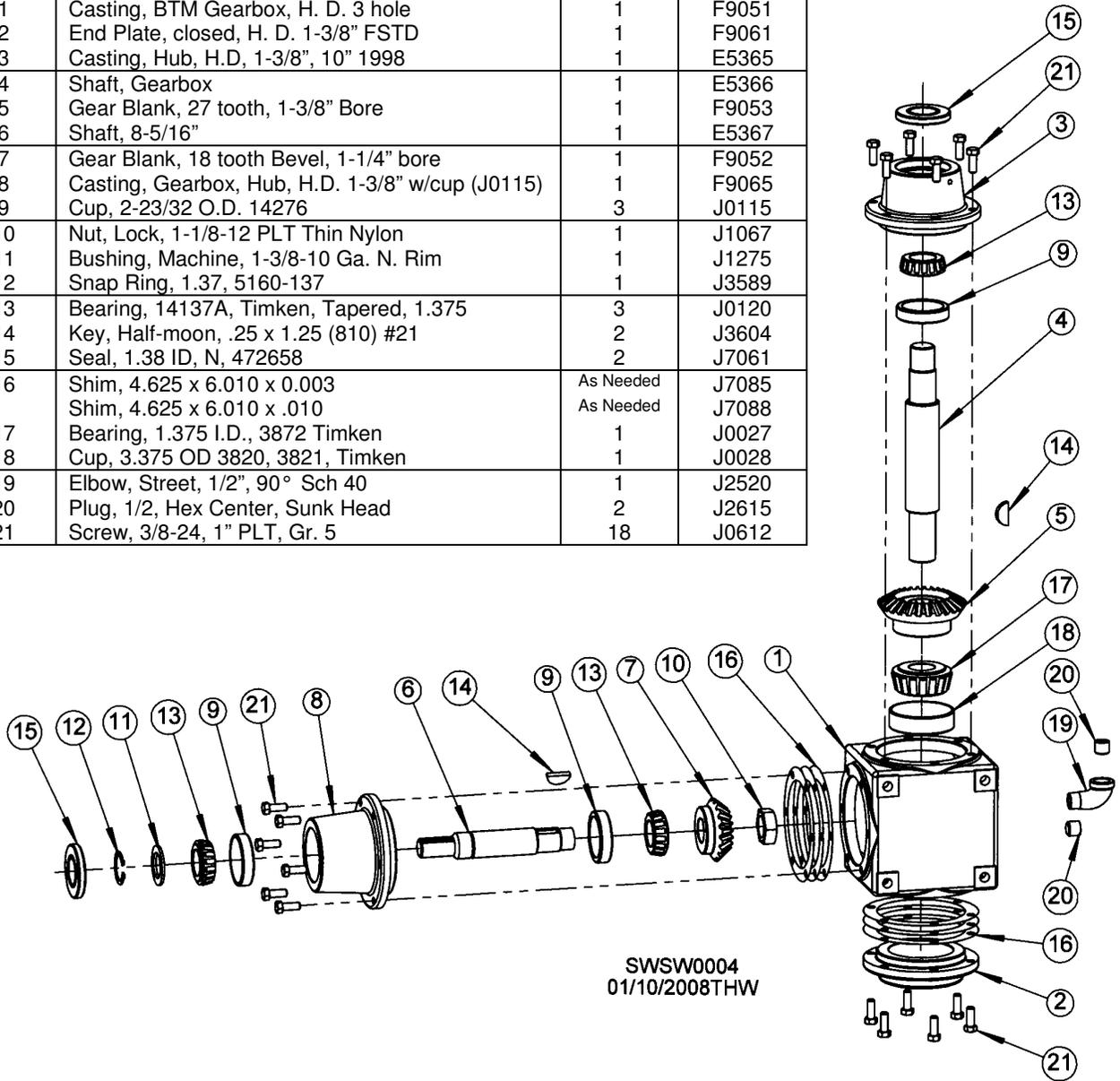


REF #	DESCRIPTION	QTY	COMP #
1	Gearbox Casting	1	F9004
2	Zerk, Grease, Drive In, 1/4"	1	J3605
3	Shaft, Upper Gearbox, Connection, 1 x 8"	1	E5903
4	Key, 1/4", SQ x 9/16"	1	J3618
5	Hub, Only, Standard, w/cup (J0105)	1	F9007
6	Cup, Bearing, L-44610	2	J0105
7	Bearing, 14137A, Timken, Taper, 1.375	2	J0111
8	Nut, Lock, 3/4-16, PLT, Thin, Nylon	1	J1055
9	Bushing, Machine, 1-14Ga, N-Rim	1	J1265
10	Snap Ring, 1.00, 329, Eaton	1	J3584
11	Seal, 1.000 x2.004, R/C, 10124	1	J6993
12	Gear, Bevel, 1" bore, 18 teeth	1	S6051
13	Cup, Bearing, Timken, 02820	1	J0125
14	Washer, Lock, 5/16, PLT, Split	8	J1200
15	Bushing, Machine, 1-3/8-10 Ga. N Rim	1	J1275
16	Plug, 1/2, Hex, Cntr Sunk Head	1	J2615
17	Plug, Vented, 1/2", Cntr Sunk Head	1	J2616
18	Snap Ring, 1.37, 5160 - 137	1	J3589
19	Key, Halfmoon, H.D., .25 x .75", (B06)	1	J3600
20	Soft Plug, 1.875 PC	1	J6980
21	Shaft, 8-3/4", W/Keyway	1	E5379
22	Screw, 5/16 - 18, 1", PLT, Gr. 5, HHCS	8	J0527
23	Plate, Open End	1	E5902-01
24	Cup, 2-23/32 OD 14276	1	J0115
25	Seal, 1.375 x 2.129, R/C, 13650	1	J7010
26	Gear, Bevel, 1-1/4" Bore, 18 teeth	1	E5372
27	Bearing, 14137 A, Timken, Tapered, 1.375	1	J0120
28	Bearing, 1.25, .94 Tapered, 02875	1	J0130
29	Shim, 3.88 x 5.12 x 0.003	As needed	J7090
30	Shim, 3.88 x 5.12 x 0.010	As needed	J70901

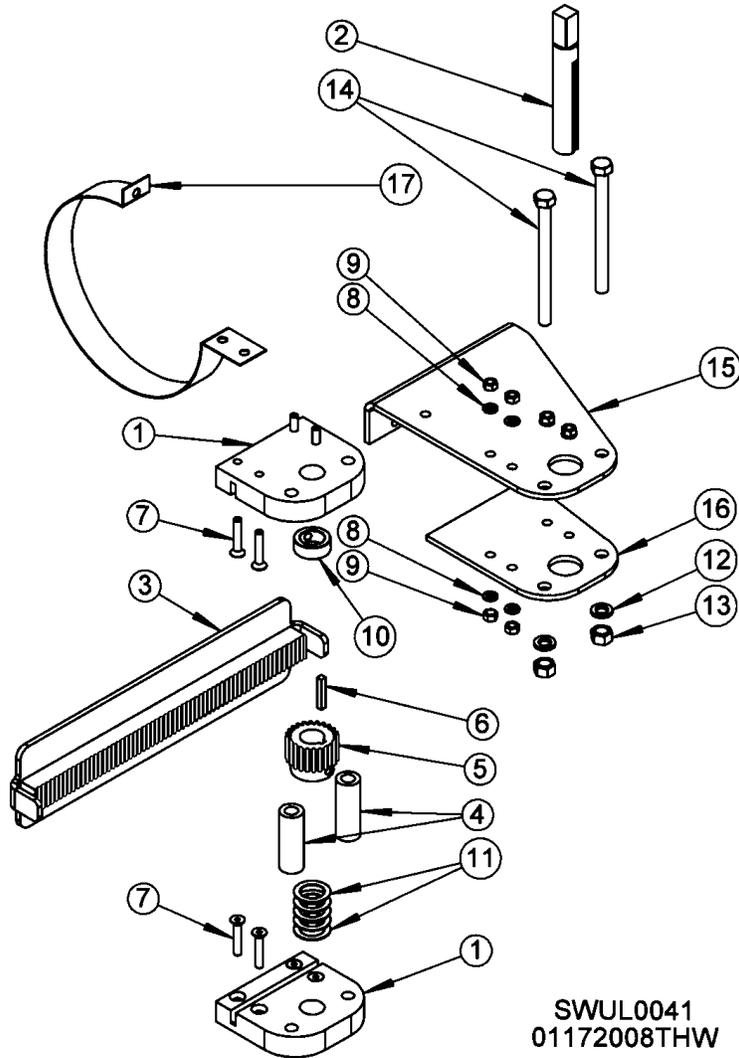
SWSW0050  
THW01/04/2008

# 10" SWEEPWAY LOWER GEARBOX

REF #	DESCRIPTION	QTY	COMP #
1	Casting, BTM Gearbox, H. D. 3 hole	1	F9051
2	End Plate, closed, H. D. 1-3/8" FSTD	1	F9061
3	Casting, Hub, H.D, 1-3/8", 10" 1998	1	E5365
4	Shaft, Gearbox	1	E5366
5	Gear Blank, 27 tooth, 1-3/8" Bore	1	F9053
6	Shaft, 8-5/16"	1	E5367
7	Gear Blank, 18 tooth Bevel, 1-1/4" bore	1	F9052
8	Casting, Gearbox, Hub, H.D. 1-3/8" w/cup (J0115)	1	F9065
9	Cup, 2-23/32 O.D. 14276	3	J0115
10	Nut, Lock, 1-1/8-12 PLT Thin Nylon	1	J1067
11	Bushing, Machine, 1-3/8-10 Ga. N. Rim	1	J1275
12	Snap Ring, 1.37, 5160-137	1	J3589
13	Bearing, 14137A, Timken, Tapered, 1.375	3	J0120
14	Key, Half-moon, .25 x 1.25 (810) #21	2	J3604
15	Seal, 1.38 ID, N, 472658	2	J7061
16	Shim, 4.625 x 6.010 x 0.003	As Needed	J7085
	Shim, 4.625 x 6.010 x .010	As Needed	J7088
17	Bearing, 1.375 I.D., 3872 Timken	1	J0027
18	Cup, 3.375 OD 3820, 3821, Timken	1	J0028
19	Elbow, Street, 1/2", 90° Sch 40	1	J2520
20	Plug, 1/2, Hex Center, Sunk Head	2	J2615
21	Screw, 3/8-24, 1" PLT, Gr. 5	18	J0612



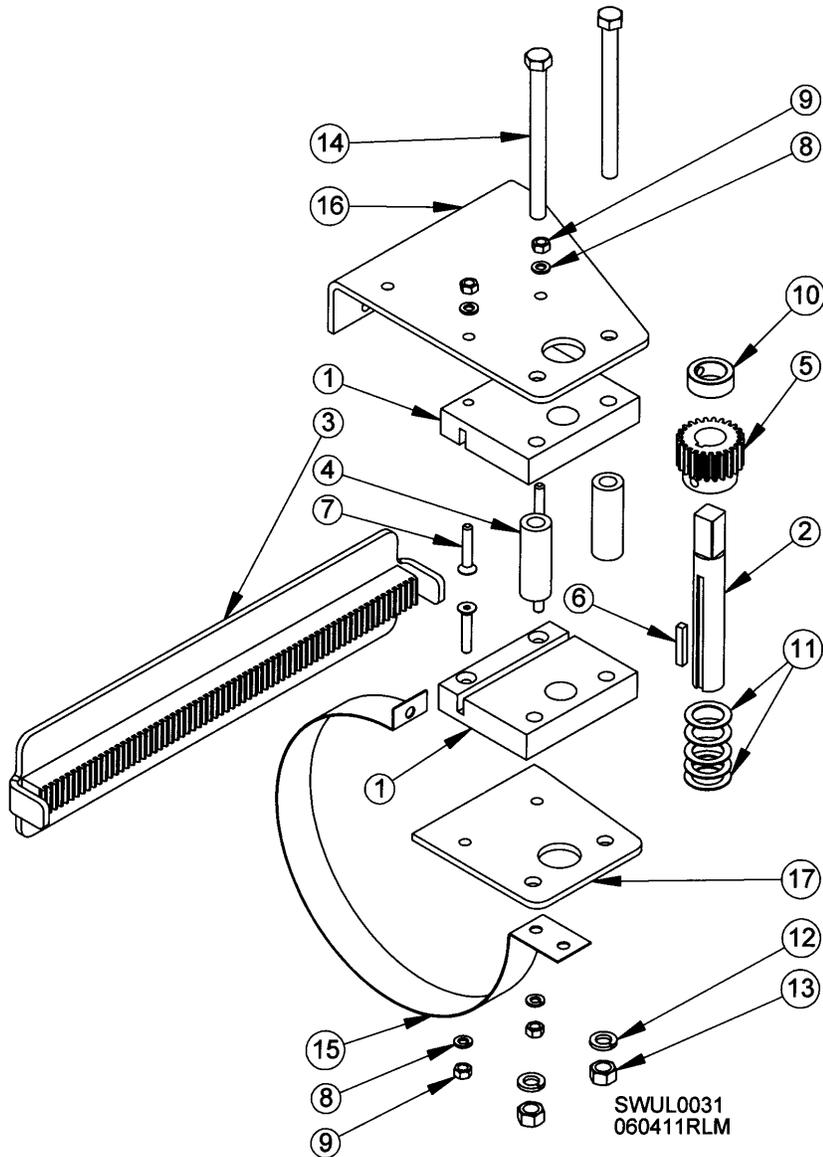
## 8" OPENER BREAKDOWN



SWUL0041  
01172008THW

REF #	DESCRIPTION	QTY	COMP #
1	Guide, Opener Slide	2	E5962
2	Shaft, Crank, Opener	1	E5964
3	Rack, Slide Plate, 8", Weldment	1	E5916
4	Spacer, Opener	2	E5966
5	Pinion Gear, Opener	1	E5961
6	Key Stock, 1/4 x 1-1/2"	1	E9007
7	Screw, Cap, 5/16" x 1.75", FH, Socket	8	J0579
8	Washer, Lock, 5/16, PLT, Split	8	J1200
9	Nut, Hex, 5/16 -18, PLT	8	J1002
10	Collar, Shaft, 1"	1	J1335
11	Bushing, Machine, 1-18 Ga.	5	J1266
12	Washer, Lock, 1/2", PLT	2	J1215
13	Nut, Hex, 1/2-13, PLT	2	J1040
14	Screw, 1/2-13 x 6, PLT, Gr. 5	2	J0762
15	Frame, Top, 8"	1	E5918
16	Frame, Bottom, 8"	1	E5917
17	Strap, Support, 8" Opener (For assembly drawing)	1	E5913

## 10" OPENER BREAKDOWN

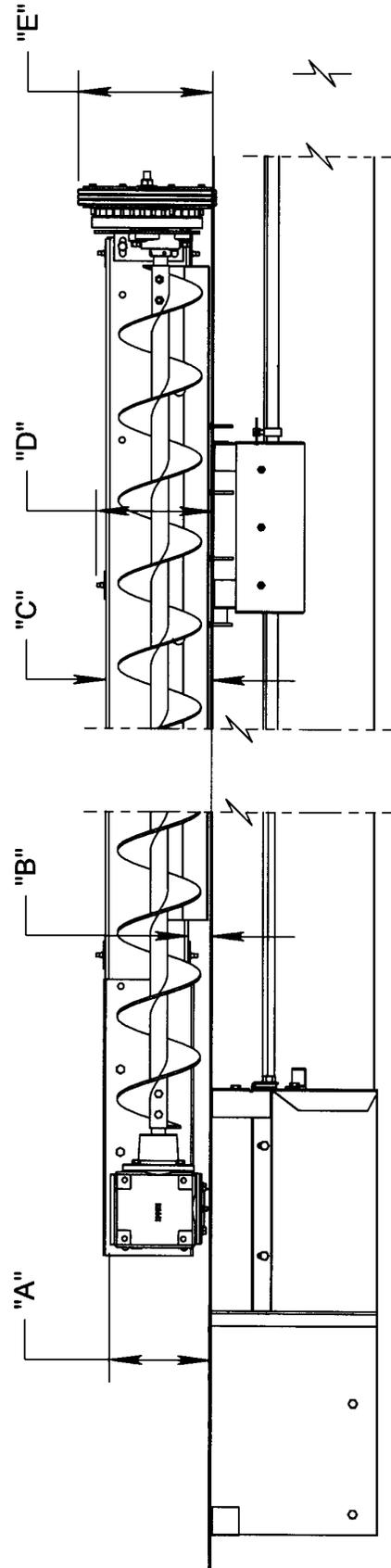


REF #	DESCRIPTION	QTY	COMP #
1	Frame, Bottom	2	E5962
2	Shaft, Crank, Opener	1	E5964
3	Racks Slide Plate Weldment	1	E5963
4	Spacer, Opener	2	E5966
5	Pinion Gear, Opener	1	E5961
6	Key	1	E9007
7	Screw, Cap, 5/16" x 1.75", FH, Socket	4	J0579
8	Washer, Lock, 5/16, PLT, Split	4	J1200
9	Nut, Hex, 5/16 - 18, PLT	4	J1002
10	Shaft Collar, 1"	1	J1335
11	Machine Bushing, 1-18 Ga.	5	J1266
12	Washer, Lock, 1/2", PLT	2	J1215
13	Nut, Hex, 1/2-13, PLT	2	J1040
14	Screw, 1/2-13 x 6, PLT, Gr. 5, HHCS	2	J0762
15	Strap, Support, 10" Opener	1	E5968
16	Frame, Top	1	E5965-02
17	Frame, Bottom	1	E5965-01

## TROUBLESHOOTING GUIDE

PROBLEM	REASON	SOLUTION
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 to bottom.
	Obstacles may be hindering forward movement.	Check for any obstacles that the scraper could be catching on, may need to raise scraper.
	Grain is keeping sweep from moving into the pile.	Remove front carrier wheels (on sweeps larger than 39') to allow easier forward movement.
2. Sweep is not filling the unload auger to capacity. (10" Sweepway)	Sweep is not going fast enough.	Increase the sweep auger capacity by increasing the size of the <b>lower</b> gearbox 20-tooth sprocket to a 24 tooth sprocket, (Part # J16957). May have to lengthen chain with 24-tooth sprocket. It will increase the speed by 20%.
3. Drive chain breaking. (8" Sweepway)	Grain piling in center of bin.	Make sure center sump gate is fully opened.
		The sweep can be slowed down by decreasing the size of the sprocket on the <b>lower</b> gearbox from a 15 tooth to a 12-tooth sprocket, (Part # J1660). May have to shorten chain using a 12-tooth sprocket. It will decrease the speed by 20%.
4. When using an incline auger the capacity is cut dramatically.	Moving very small grains or hard flowing grains. Example: rice, wheat, soybeans, etc.	Weld a piece of flighting, (6-8" incline use Part #E5638, 8-10" incline use Part #E5639) on the end of the unload auger to get flighting extended fully to U-joint. This will decrease the amount of gap the grain has to flow through and increase capacity.
5. Connector link coming off.	Chain is too high & rubbing on top of sump.	On units prior to 2003 the chain can be lowered by replacing the old sprocket on the top gearbox with a new sprocket (E5837). The old spacer (E60041 on the lower gearbox must also be replaced with a new spacer (E60042).
	Connector link is on backwards.	The connector link clip needs to have the closed end leading the chain around.

		<b>6"</b>	<b>8"</b>	<b>10"</b>
"A"	BIN FLOOR TO TOP OF GEARBOX	7 1/2"	7 1/2"	8 1/2"
"B"	BIN FLOOR TO BOTTOM OF BACKBOARD	2"	2"	2 1/2"
"C"	BIN FLOOR TO TOP OF BACKBOARD	8 1/4"	8"	12 1/2"
"D"	BIN FLOOR TO TOP OF HUCKBOLT SLEEVE	8 3/4"	8 1/2"	13"
"E"	BIN FLOOR TO TOP OF REDUCTION WHEEL	10"	10"	10"



SWSW0059  
07/31/2008THW

# QUICK REFERENCE PARTS LISTS

## MOTORS

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

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

\*TEFC, 312 locked rotor amps, 63 full load amps.

## MOTOR PULLEYS

DIAM.	BORE	GRV.	SINGLE	DOUBLE	TRIPLE
3.5" OD	5/8"	B	J0309	---	---
3.5" OD	7/8"	B	J0310	J0315	---
3.5" OD	1-1/8"	B	J0312	J0317	---
3.5" OD	1-3/8"	B	J0313	J0318	J0331
3.75" OD	1-5/8"***	B	---	J03211**	J0332**

\*\*Requires split taper bushing to obtain bore size, order "SH" for 3.75", "SD" for 4.88" and "SDS" for 6" double groove, "SD" for 6" triple groove.

## 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	---

# REPLACEMENT VERTICAL FLIGHTING, SHAFTS AND TUBES FOR STANDARD BOTTOM DRIVE

**NOTE: Vertical flight numbers include flipper and top and bottom shafts.**

## FLIGHTING FOR VERTICAL AUGER

DESCRIPTION	6"	8"	10"
14' w/dbl flight 1"	E5806	-----	-----
14' w/dbl flight 1-1/4"	-----	E58071	E5783
16' w/dbl flight 1"	E5846	-----	-----
16' w/dbl flight 1-1/4"	-----	E5847	E57833
18' w/dbl flight 1"	E5848	-----	-----
18' w/dbl flight 1-1/4"	-----	E5849	E57832
20' w/dbl flight 1-1/4"	-----	E58541	E57834

## VERTICAL TOP SHAFT

DESCRIPTION	6"	8"	10"
1" x 12-1/8" w/hole	E58091	-----	-----
1" X 10" w/hole (Prior 1990)	E5809	E5809	-----
1 5/8" x 13-5/8" w/hole (Prior 1990)	-----	-----	E58241
1-1/4" x 12-3/8" w/hole	-----	E97711	-----
1 x 1-1/4" x 12-3/8" repl w/hole	-----	E9753	-----
2" x 15-5/8" w/hole (1998)	-----	-----	E58243
Flipper	E5416	E5689	E5689

## BOTTOM SHAFT

DESCRIPTION	6"	8"	10"
1" x 10-7/8" w/keyway	E58081	-----	-----
1" x 14-1/4" w/keyway (Prior 1990)	E5808	E5808	
1-1/4" x 12-1/8" w/keyway	-----	E9751	-----
1" x 1-1/4" x 10-1/8" repl w/keyway	-----	E9752	-----
2" x 1-1/4" x 13-7/8" w/keyway (1998)	-----	-----	E58252

## GALVANIZED TUBE

DESCRIPTION	6"	8"	10"
10' long for 14' Vertical Auger	E5804	E5805	E57842
8' long for 14' Vertical Auger	-----	-----	E5784
12' long for 16' Vertical Auger	E5842	E5843	E57841
14' long for 18' Vertical Auger	E5844	E5845	E57843
16' long for 20' Vertical Auger	F4801	F4915	-----

# UNLOAD FLIGHTING

## 6" SWEEPWAY

BIN DIAMETER	COMP #
*15'-15' 6"	E6430
16' 5" (5M)	E64301
*18'-18' 7"	E6431
19' 8" (6M)	E64310
*21'-21' 8"	E6432
22' 11" (7M)	E64320
*24'-24' 9"	E6433
26' 3" (8M)	E64331
*27'-27' 10"	E6434
29' 6" (9M)	E64341
*30'-31'	E6435
*33'-34'	E6436
36' (11M)	E6417
37' 1"	E6437

\*In larger bin dia. listed, order #E5328 extension to extend sweep. No charge if ordered with sweep.

## 8" SWEEPWAY

BIN DIA.	COMP #	COMP #
*15'-15' 6"	-	E6450
16' 5" (5M)	-	E6449
*18'-18' 7"	-	E6451
19' 8" (6M)	-	E64510
*21'-21' 8"	-	E6452
22' 11" (7M)	-	E64521
*24'-24' 9"	-	E6453
26' 3" (8M)	-	E64531
*27'-27' 10"	-	E6454
29' 6" (9M)	-	E64541
*30'-31'	-	E6455
*33'-34'	-	E6456
36' (11M)	-	E6457
37' 1"	-	E6457
42'	E6472	E64582
42' 8" (13M)	E6472	E64584
43' 3"	E6472	E64591
48'	E6472	E64602
49' 3" (15M)	E6472	E64611
54'	E6472	E64621
55' 8"	E6472	E64631
60'	E6472	E64641
61' 10"	E6472	E64651

\*In larger bin dia. listed, order #E5328 extension to extend sweep. No charge if ordered with sweep.

## 10" SWEEPWAY

BIN DIA.	COMP #	COMP #
*21'-21' 8"	-	E6482
22' 11" (7M)	-	E64821
*24'-24' 9"	-	E6483
26' 3" (8M)	-	E64831
*27'-27' 10"	-	E6484
29' 6" (9M)	-	E64841
*30'-31'	-	E6485
*33'-34'	E6497	E64861
36' (11M)	E6497	E64871
37' 1"	E6497	E64871
42'	E6497	E64883
42' 8" (13M)	E6497	E64884
43' 3"	E6497	E64891
48'	E6497	E64901
49' 3" (15M)	E6497	E64911
54'	E6497	E64922
55' 8"	E6497	E64932
60'	E6497	E64941
61' 10"	E6497	E64951

\*In larger bin dia. listed, order #E5328 extension to extend sweep. No charge if ordered with sweep.

## **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 L1435 when requesting the Sweepway Owner's Installation & Operation Manual.

### **Sukup Dealer Information**

Dealer Name:

Address:

Cell phone:

Office phone:

Fax:

### **In Case of Emergency**

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

<b>Doctor:</b> _____
<b>Emergency Medical Squad:</b> _____
<b>Ambulance Service:</b> _____
<b>Hospital:</b> _____
<b>Fire Department:</b> _____
<b>911 Address:</b> _____
<b>Written Directions to Your Location:</b> _____



**Sukup Manufacturing Company**

**1555 255th Street, Box 677**

**Sheffield, Iowa, USA 50475-0677**

**Phone: 641-892-4222**

**Fax: 641-892-4629**

**Website: [www.sukup.com](http://www.sukup.com)**

**Email: [info@sukup.com](mailto:info@sukup.com)**