bühler

farm king

# 10" Backsaver Auger

Operator's and Parts Manual
FK306

2007-3

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# WARRANTY POLICY

Buhler Manufacturing products are warranted for a period of twelve (12) months (90 days for commercial application) from original date of purchase, by original purchaser, to be free from defects in material and workmanship under correct, normal agricultural use and proper applications.

**Buhler Manufacturing’s obligations under this warranty shall be limited to the repair or exchange, at Buhler Manufacturing’s option, of any Buhler Manufacturing product or part which proves to be defective as provided. Buhler Manufacturing reserves the right to either inspect the product at the buyer’s location or have it returned to the factory for inspection.**

The above warranty does not extend to goods damaged or subject to accident, abuse or misuse after shipment from Buhler Manufacturing’s factory, nor to goods altered or repaired by anyone other than an authorized Buhler Manufacturing representative.

Buhler Manufacturing makes no Express Warranties other than those, which are specifically described. Any description of goods, including any references and specifications in catalogues, circulars and other written material published, is for the sole purpose of identifying goods and shall conform to such descriptions. Any sample or model is for illustrative purposes only and does not create an Express Warranty that the goods conform to sample or model shown.

The purchaser is solely responsible for determining suitability of goods sold. This warranty is expressly in lieu of all other warranties expressed or implied. Buhler Manufacturing will in no event be liable for any incidental or consequential damages whatsoever. Nor for any sum in excess of the price received for the goods for which liability is claimed.

WARRANTY CLAIMS:
**Warranty requests must be prepared on Buhler Manufacturing Warranty Claim Forms with all requested information properly completed. Warranty Claims must be submitted within a thirty (30) day period from date of failure repair.**

WARRANTY LABOR:
Any labor subject to warranty **must** be authorized by Buhler Manufacturing. The labor rate for replacing defective parts, where applicable, will be credited at 100% of the dealer’s posted shop rate. Defective parts will receive an extra 10% discount to assist with freight or other incidental costs.

**GOVERNMENT LEGISLATION:**
Warranty terms and conditions are subject to Provincial or State legislation.

**IMPORTANT FACTS:**
**Buckets and Bucket Tines Carry No Warranty**
Bent Spears Carry No Warranty
Snowblower Fan Shafts Carry No Warranty
Mower Blades Carry No Warranty
Portable Auger Parts Have Two (2) Year Warranty
Loader Parts Have Two (2) Year Warranty

**IMPORTANT NOTE:**
**This warranty does not apply to rentals.**

## SAFETY INSTRUCTIONS

The safety of the operator of any piece of equipment is of prime importance to the manufacturer and the following precautions should be taken when operating, starting or doing any maintenance work on this auger.

Read and understand the operator’s manual before operating.

Always transport the auger in the down position carrying the weight of the auger on the undercarriage itself and not the hydraulic cylinder and hose. Take extreme caution in manoeuvring on or around tight corners so as not to catch the end on trees and buildings, etc.

The auger should never be towed without the safety chain securely attached to the auger hitch tube and the towing vehicle. Always check that the hitch pin holding on the hitch tube is held in place by a linch pin before towing.

When moving the auger on a road use red flag, or if absolutely necessary to move at night, accessory lights for adequate warning to operators of other vehicles.

The auger must be on a level surface and wheels free to move when raising or lowering. Everyone should be kept clear during these operations.

Empty auger before moving, to prevent upending.

10” Auger must be attached to the drawbar of the tractor at all times during operations.

Keep hands, feet and clothing away from exposed flighting and all moving parts. Do not allow children or anyone other than the operator close to the auger when in operation. Make certain everyone is clear before operating or moving machine.

Before attempting to service, adjust or unclog an auger, disengage drive and shut off tractor.

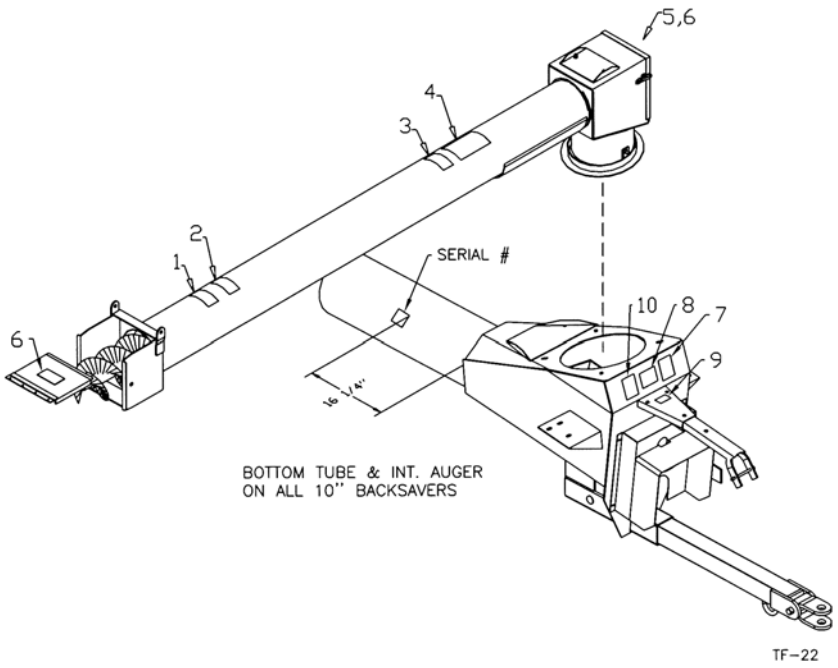
As a precaution, when storing auger, park it on level ground so that the bottom end will never be over its center of gravity.

When storing auger be sure to block the wheels so that there is no chance of auger moving and tearing jack from its moorings.

Check to see that the bolts and lock nuts that clamp the PTO to the bottom of the auger flighting are in place and firmly tightened every time you are preparing to use the auger.

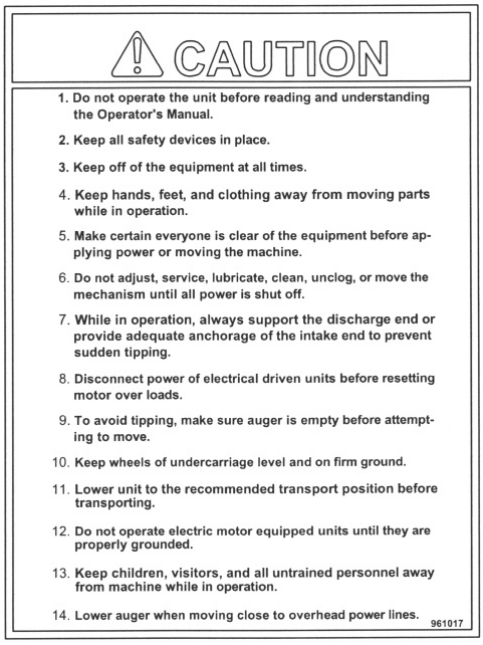
Keep all safety shields and devices in place.

## 10" AUGER SAFETY SIGNS (ON INTAKE AUGER)




Replace safety signs immediately should they become damaged, torn or illegible. Obtain replacements from your authorized dealer using the part numbers shown

#1

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## AUGER SAFETY SIGNS (ON INTAKE AUGER) – cont’d.

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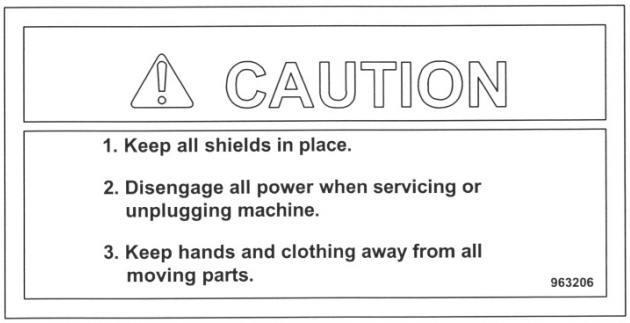


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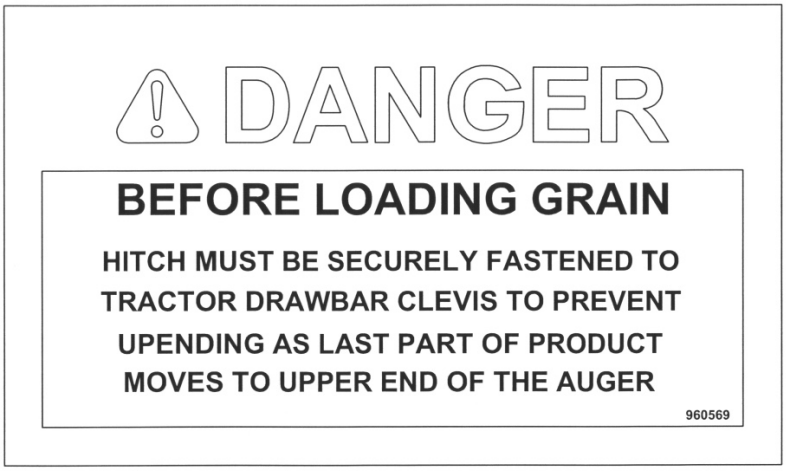


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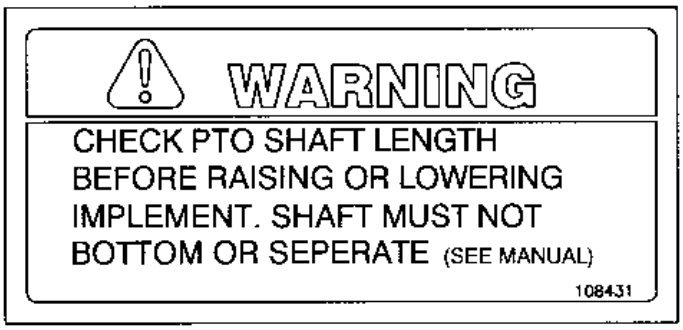


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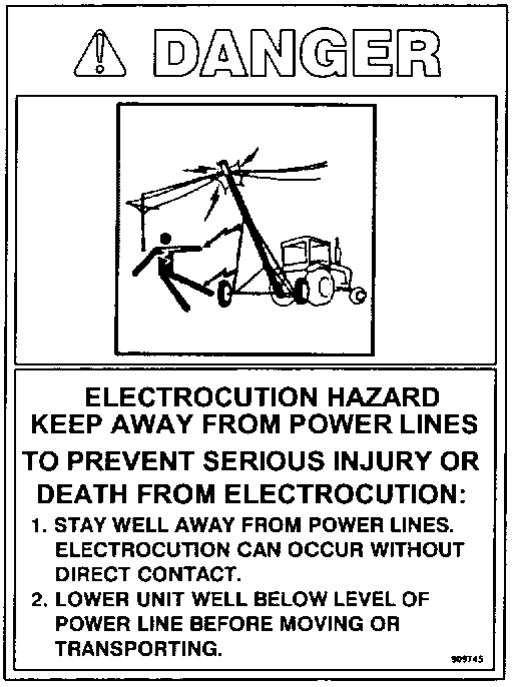



#10

## OPERATING INSTRUCTIONS

All augers may be elevated up to 45 degrees; however, for the best operating efficiency, 35 degrees should not be exceeded. At angles over 35 degrees the capacity and life of the auger decreases. Use in some types of fertilizer may cause accelerated wear and corrosion as well as added stress on lift components due to additional load. Use in fertilizer can affect warranty.

Run auger partially full until flighting becomes polished.

Never operate an empty auger for over one minute, as the flighting and housing will experience excessive wear.

To position the auger, always tow or move the auger in the down position to a point as close as possible to the bin or barn.

⚠ **ALERT**: Always keep the wheels level. Raise the auger to the desired height and back the auger into position. **Do not** support the auger on the bin. As the auger becomes full it carries a lot of weight and may cause damage to the underside of the auger or to the bin.

⚠ **ALERT:** The auger should be firmly attached to the drawbar of the tractor at all times during operation.

⚠ **ALERT:** Never place blocks under the wheels to increase the elevation of auger.

Be sure the wheels are free to move and no one is standing close to the auger when raising or lowering. Never attempt to raise or lower the auger while it is in operation.

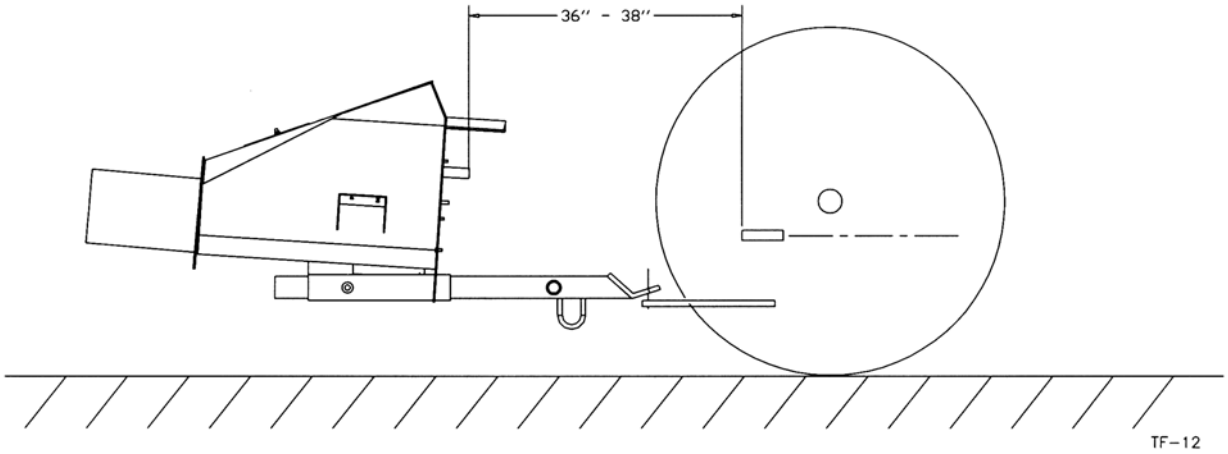
⚠ **ALERT**: Be sure winch brake is working properly before transporting. An arrow on the winch shows the proper direction of rotation. Improper rotation may cause winch failure. Never have less than three wraps of cable on the drum of the winch.

The intake auger swivels freely on the top of the input box. It can be positioned anywhere between the tractor and the side of the auger.

⚠ **CAUTION:** 10" Augers are designed for PTO drive tractors with 540 rpm only. Maximum capacity will be attained while running the main auger between 450 - 500 rpm. (Do not use 1000 rpm PTO speed on these augers)

**OPERATING INSTRUCTIONS – cont’d.**

**ALERT:** Always maintain at least a 4” lap on the PTO guards. Be sure they turn freely and make certain everyone stands clear of tractor, PTO shaft, and auger before engaging power take-off. Be sure ends are securely connected to the auger and tractor. An optional shaft is offered for extreme use.




The distance between the tractor and the auger stubs should be between 36" and 38" with the tractor and auger on level ground and the auger in full down position. This distance is obtained by either adjusting the tractor hitch, the auger hitch or both.

Before engaging power take-off, start tractor and idle engine. Engage power take-off slowly and bring PTO rpm up to recommended speed of 500 rpm for 10” augers.

Before stopping auger (except in an emergency) let all grain empty out of the auger, idle engine then disengage power take-off. Shut off tractor.

**ALERT:** Do not use the reverse kit to attempt to unplug the auger. The reverse kit is designed to be used for CLEAN-OUT ONLY!

**ALERT:** When auger is left in raised position over night, close the ball valve on the hydraulic line to the cylinder. This will prevent the auger from lowering, due to hydraulic leakage, and avoid possible damage.

One-way flow control valve (#115) can be adjusted by loosening the hex nut on the side, and turning on the screw with the machined end. Turning the screw in decreases the speed the auger lowers, while turning it out increases the speed. The approximate initial setting should be three turns out from the tight position. When set, re-tighten hex nut to set position.

## OPERATING INSTRUCTIONS – cont’d.

**ALERT:** Be sure that the valve is somewhat open before raising the first time or auger will not lower.

Be sure there is always some tension on the flighting by adjusting the end thrust bearing, at the upper end of the auger.

**ALERT:** Always lower auger before transport and allow the weight of the auger to rest on the undercarriage and not the hydraulic cylinder.

Be certain to turn jack sideways when towing auger.

Disconnect the PTO shaft from the tractor and pin it in the PTO holder (#124 & #170) when towing or manoeuvring the auger. This will prevent possible damage to the shaft during cornering.

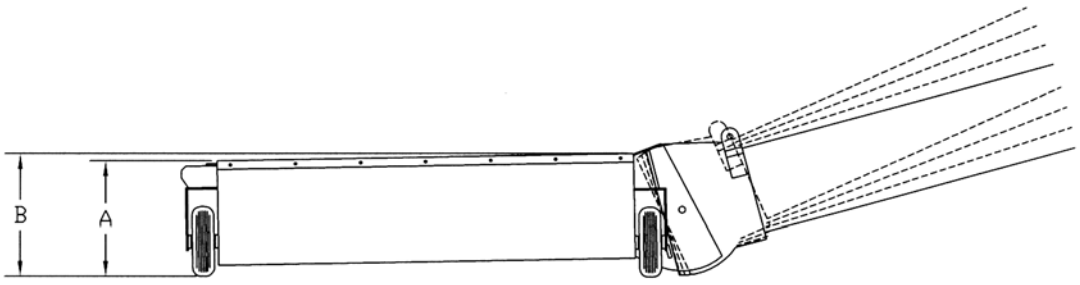
**ALERT:** If the PTO shaft angle exceeds 50° during a tight turn, the constant velocity joints will be fractured and will likely fail shortly thereafter during operation.

PTO shear bolts (2 required) - 5/16" x 1" hex bolt (grade 5)

**ALERT:** When towing the auger, never exceed 32 kilometres per hour.

Always use a flag, or at night, a signal light when towing an auger on a road. Check your local regulations for further safety devises in this regard.

### 10" BACKSAVER INTAKE AUGER PIVOT HOPPER




| DIMENSION | 10'' AUGER | 13'' AUGER |
|---|---|---|
| A | 13'' | 14 1/2'' |
| B | 14'' | 15 1/2'' |

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**ALERT:** All heights shown are for the welded hopper only. These heights remain the same at all auger working angles because of the pivot joint between the hopper and the intake auger.

## MAINTENANCE & LUBRICATION

Check condition of winch cable occasionally. Be sure it is lubricated.

Check to see that there is no downward bow in the main tubes at the start of every augering season. Re-tension cables if required as per step number four in the assembly instructions. This should also be checked immediately after hauling the auger for a long distance.

Use a high temperature grease for all lubrication.

Lubricate the PTO shaft as per instruction sheet.

Check grease on end thrust bearing to be sure it is running smoothly and freely. Remove cap and grease at the start of every season.

Check hydraulic lines frequently for leaks or damage

Grease universal joint in intake auger after 8 hours of use.

Grease the u-joint connecting the two gearboxes about every 8 hours. Do regular checks on the oil level in the gearboxes. Fill if necessary to the height of the side plug using SAE 90 oil. Because the gearbox runs in the grain, it is difficult to see any oil leaks so regular checks should be done.

⚠ **ALERT:** When replacing bearings or tightening a loose bearing collar, always tighten collar in the direction of shaft rotation using a centre punch or a similar tool.

Recommended tire pressure is 35 psi.

## STORAGE

The auger should be stored in a dry place if possible. If stored outside, lower auger to its lowest position and block up the wheels so auger will not move.

Clean auger thoroughly as dirt draws moisture and causes metal to rust. If the auger has been used to move fertilizer, clean thoroughly and apply oil or grease on entire flighting and inside the housing to stop and prevent further corrosion.

At this time check all moving parts for wear and order replacement parts from your nearest dealer.

When taking the auger out of storage, clean it thoroughly and check for obstructions at the inlet and outlet ends.

Check all bolts and set screws.

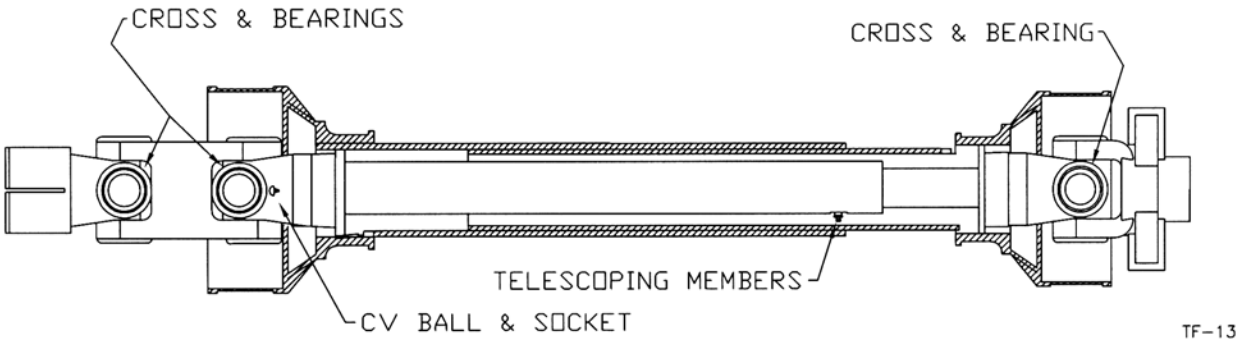
## RECOMMENDED CUSTOMER GREASING PROCEDURE FOR 50” C.V. PTO

A general purpose grease may be used, however, a grease containing 3% molybdenum disulfide will allow the lube intervals to be extended to twice as long as that listed. The first lube interval should be 16-24 hours of operation after initial start-up then follow the schedule below. Constant angle applications must have a lube interval of 4 hours.

## LUBE RECOMMENDATIONS

| INTERVAL | LOCATION | AMOUNT |
|---|---|---|
| 8 hrs. | Cross & Bearings | 1 pump |
| 8 hrs. | Telescoping Members | 4 – 8 pumps (until grease comes out of end) |
| 8 hrs. | CV Ball & Socket | 1 – 2 pumps |

Grease containing various percentages of molybdenum disulfide are available as extreme pressure greases. Please note that all E.P. greases do not contain moly. So some investigation may be necessary. The following greases all contain 3% moly.: Mobile Oil Company “Mobile Grease CMP”; Shell Oil Company “Retinax AM”; and Texaco “Molytex EP #0 and #2”.



## ASSEMBLY AND INSTRUCTIONS

1. Assemble the top section (#3) to the center section (#2) making sure the flighting is aligned and locked with a ½” x 2 ¾” (grade 8) hex bolt and lock nut. Similarly, assemble the bottom section (#1) to the center section. Use ½” x 1 ¼” hex bolts, lock washers and hex nuts to fasten the auger rings together. Fasten the input box (#158) to the bottom tube using ½” x 1 ¾” hex bolts, lock washers and hex nuts.

   ⚠ **ALERT:** There are two holes on the top stub shaft for cotter pin installation on the top flighting, which should allow a wide range of adjustment. If the top flighting is too high, there could be a shortage of room to mount the bottom bearing in the input box.

   ⚠ **ALERT:** The chain guard (#171) on the input box must be removed before you begin assembling the auger flightings. No centre section on 50’ augers.

2. Bolt bearing flanges (#16) and mount bearing (#17) at the bottom (outside) of the input box using 3/8” x 1” hex bolts, lock washers and hex nuts. Loosen cap at the top end of the auger. After locking the bottom bearing with the collar, tension the flighting by turning the 1 ¼” hex nut at the top of the auger and replace top cap.

   Loosen the chain idler assembly on the input box and mount the 15 tooth sprocket (#172) on the flighting bottom stub shaft. Assemble the chain (#173) and then slide the idler assembly into place and tighten. Attach the PTO shaft. The tractor end has a standard 6-spline end with a spring loaded locking collar. The auger end has a clamp-style yoke with a ¼” keyway. Slide the yoke onto the flighting stub shaft with the ¼” key supplied. Lock the yoke in place with two ½” x 3” bolts and lock nuts fitted through the groove in the flighting stub shaft. After tightening the bolt, insert and tighten the 3/8” socket set screw. Bolt the chain guard (#171) to the bottom of the input box using 5/16” lock washers and hex nuts.

3. The main bridging yoke (#7) is pushed up from underneath the auger and positioned between the two 5/8” square stops welded to the mounting plate. Bolt on using ½” x 1 ½” hex bolts, lock washers, hex nuts and flat washers. Attach tie rod (#8) to top of bridging yoke using 3/8” x 1 ½” hex bolts, lock washers and hex nuts. The upper bridging yoke (#9) bolts to the welded mount using ½” x 1 ½” hex bolts, lock washers and hex nuts. <u>70’ Augers Only:</u> Bolt the rod (#10) to upper bridging yoke using 3/8” x 1 ½” hex bolts, lock washers and hex nuts.

**ASSEMBLY & INSTRUCTIONS – cont’d.**

4. Mount both sets of cables (#71) and (#72). The longer cable goes from just above the input box, across both bridging yokes, to the top section. The shorter cable goes from just behind the undercarriage pivot ring, across the main bridging yoke, down to the bottom of the upper bridging yoke. Bolt the cable yokes (#144) to the bottom of each cable using ½” x 2” hex bolts, lock washers and hex nuts. Bolt the yokes to the cable brackets welded to the main tubing with the same hardware. Use the bottom hole in the yoke if possible. The other holes can be used if the cable stretches after a few years. Be sure to tighten cables before lifting the auger. The main tubes must be straight or bowed up a few inches before lifting the auger. Any downward bow will result in very loud flighting noise. Tighten cable clamps (#20) on bridging yokes after cables are tight.

⚠ **ALERT:** On the bridging yokes where the cable clamps hold two cables, do not use the cast part of the cable clamp or it will be very difficult to get the nuts on the clamps. Use 3/8” I.D. flat washers on cable clamps.

5. After raising the top end of the auger, clamp on spout (#11) using 3/8” x 2” hex bolts, lock washers and hex nuts. Lift the auger at a point just above the main bridging yoke.

6. Mount the two undercarriage arms (#75) & (#76) to the pivot rings on the bottom section.

7. Mount wheels (#88) on axle using ½” wheel bolts and torque bolts to 80 ft/lbs.

8. Position undercarriage arms on axle (#77) against the welded stop and bolt on using 3/8” x 4 ½” hex bolts, lock washers and hex nuts. A tie plate (#81) is used to connect the arms. Use 3/8” x 1” hex bolts, lock washers and hex nuts.

9. Bolt undercarriage arches (#78) and (#79) to the undercarriage using 5/8” x 1 ¾” hex bolts, lock washers and hex nuts.

⚠ **ALERT:** The arches are left and right. The bracket for attaching the brace (#80) is turned to the outside. Ends of brace bent at 30 degrees are bolted to the arch. The other end bolts to the undercarriage.

10. Bolt the lift arm cradle (#82) to the angle irons on the undercarriage using ½” x 1 ¼” hex bolts, lock washers and hex nuts.

11. Connect the lower lift arm (#74) to the undercarriage arches using 2 13/16" pins (#110) and cotter pins. The top end of the lower lift arm should rest on the cradle bolted to the undercarriage.

**ASSEMBLY & INSTRUCTIONS – cont’d.**

12. Connect the upper lift arm (#73) to the lower lift arm (#74) using the same pins. The other end of the upper lift arm is coupled to the main bridging yoke using an 11 7/8" pin (#109) and cotter pin.

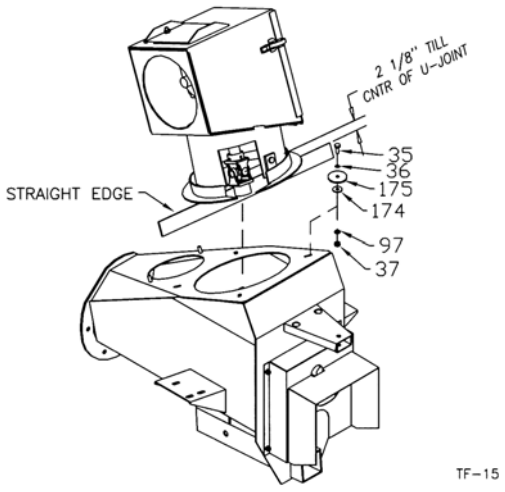
13. Insert connecting link (#106) in lower lift arm and pivot yoke (#105) in upper lift arm using pins in ends as shipped.

⚠ **ALERT:** The welded cross brace on the pivot yoke should be facing the input box end of the auger.

14. Mount base of hydraulic cylinder (#114) to the upper lift arm using cylinder pin (#112) and cotter pin. The ports on the cylinder are turned down for a 50' & 60' auger and up for a 70' auger as per drawing. The rod end of the cylinder, the connecting link and the pivot yoke are all joined with one pin (#111).

15. Connect the four-foot hydraulic hose (#133) with attached flow control (#115) and fittings from the base end of the cylinder to the hydraulic line on the main auger. The flow control valve regulates the lowering of the auger to avoid damage which could be caused by lowering the auger too quickly. Arrow should be pointing away from cylinder. Be sure that valve is open approximately 3 ½ turns before raising to full position or auger will not lower.
<u>10" x 60' only:</u> The hydraulic line on the auger must be coupled at the pipe ring between the bottom and center sections using an 18” hose (#117) as shown on drawing.

16. Using 3/8” x ½” sq. hd. set screws (#63) mount the u-joint (#167) on the intake auger gearbox. Position the u-joint by placing a straight edge along the bottom of the pipe ring on the intake auger top box (#161) and measuring exactly 2 1/8” from the top of the straight edge to the center of the u- joint as shown in drawing.



**ASSEMBLY & INSTRUCTIONS – cont’d.**

Lift the intake auger assembly onto the input box (#158). The splines on the u-joint just slide onto the splines on the input box gearbox shaft. This will probably require at least two people. Let the ring sit on the input box without forcing it to the exact centre if it is not perfectly positioned. Remove one of the clean-out covers from the input box and bolt on the ring as shown in the drawing using 3/8" x 1 ½” hex bolts. Bolt head should be facing up. A 3/8" (10 gauge) flat washer (#97) goes under the input box top cover. The 1 ¼” O.D. flat washers (#174) should be 1/8” to 3/16” from touching the edge of the ring. This is done to prevent side pressure on the u-joint. The 2 ½” O.D. flat washers (#175) act as a ring holder. Tighten using lock washers and hex nuts. The intake auger should turn freely around the input box after assembly. During actual operation the intake auger may be used on either side of the input box.

⚠ **ALERT:** If the intake auger is removed for repair or replacement, the bolt coupling the flighting to the intake auger gearbox must be replaced when the flighting is replaced. Failure to do so could cause failure of the hopper flighting.

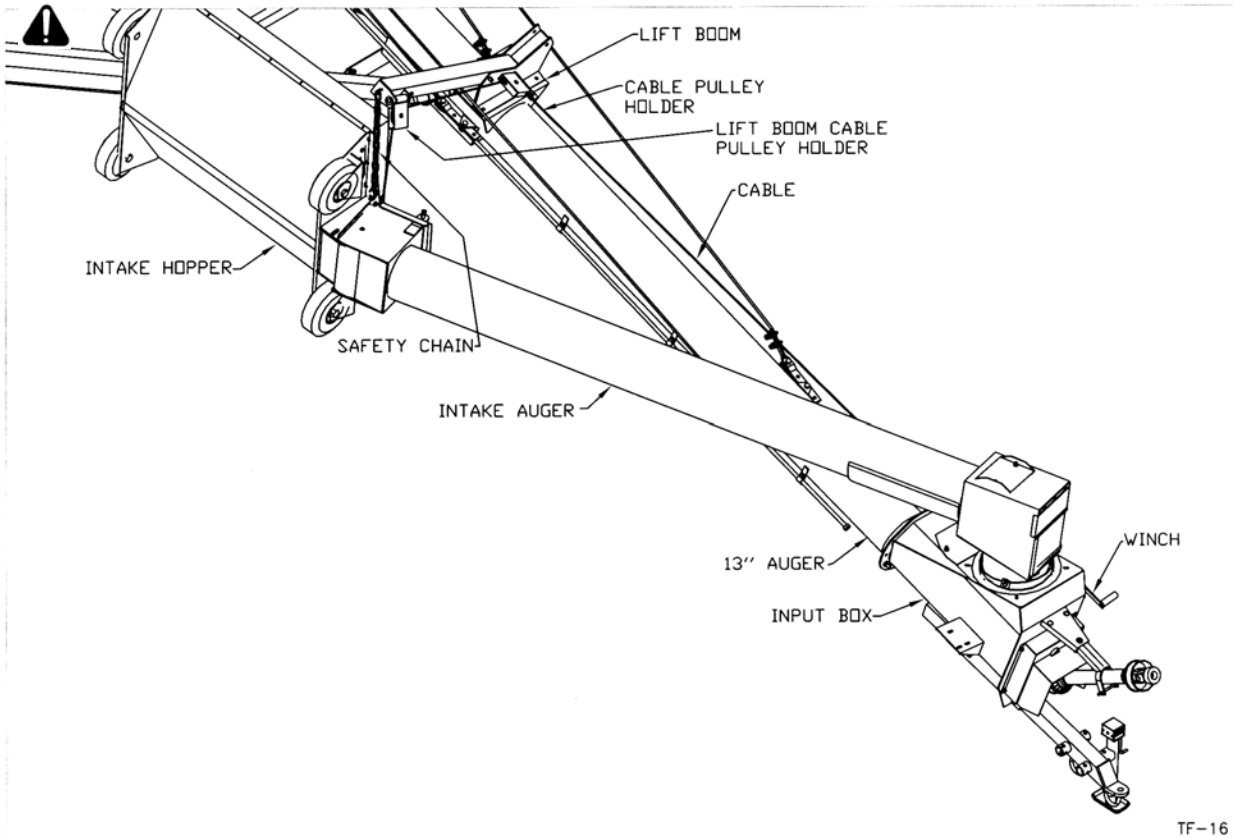
17. Using a 5/16” x 1 ½” key (#197), join the hopper (#134) and the intake auger (#159) at the universal joint. Join the hopper and intake auger using two ¾” x 1 5/8” pivot bolts and lock nuts. A flat washer goes on the nut side only. Parts must swivel freely after bolting together. Check that the cross on the U-joint is in line with the two pivot pins. The cover (#198) bolts to the front edge of the hopper using ¼” x ¾” hex bolts, lock washers and hex nuts. The cover is held down by the cover rod (#199) which is pushed through the clevises welded to the intake auger and held in place by a washer and spring clip. With the cover (#198) removed, tighten all set screws on the universal joint and be sure that it has grease.

⚠ **ALERT:** Never run the auger without this cover bolted on.

18. **Standard Hopper only:** Bolt the 6” wide rubber edging supplied to the top edge of the hopper on the inside using ¼” x 1” hex bolts, lock washers and hex nuts. The 1” side strips supplied bolt to the rubber on the inside of the hopper and help keep the rubber from tearing. The ends of the rubber strips are joined using 3” x 3” plates with ¼” x 1” hex bolts.
**Multi-flighting Hopper only:** (Page 29-30)
Bolt the rubber edging (#43) supplied to the top edge of the hopper on the inside using ¼” x 1” hex bolts, lock washers and hex nuts. One end of the rubber bolts to a welded bracket at the front of the hopper. The long 1” side strips (#19) bolt to the rubber on the inside of the hopper and help keep the rubber from tearing. Two 1” strips (#42) hold the rubber edging of the back end of the hopper. The ends of the two rubber strips are joined by two 3” x 3” connector plates (#41) at the top edge and a 1” x 8” strip (#44) at the bottom edge. All strips use the same hardware.

**ASSEMBLY & INSTRUCTIONS – cont’d.**

19. **ALL AUGER SIZES:**
The winch must be mounted on the input box on the opposite side to the intake auger. The lift boom (#51) is bolted to a bracket on top of the main tube about 8 feet from the bottom pipe ring using ½” x 1 ½” bolts, lock washers and hex nuts. Thread the 3/16" cable (#46) around the pulley at the end of the lift boom and then around a cable pulley in the bracket which swivels at the back of the lift boom. From there you go down to the winch. Clamp cable to winch before mounting the winch. There are two flat iron hooks at the front edge of the hopper. Hook the lift cable in the hook furthest away from the auger so the hopper will turn open end toward the auger. The safety chain is attached to the welded loop at the bottom of the intake auger using the hook and quick link supplied. The boom can be used on either side of the auger but the winch must be moved to the opposite side. Fasten winch to the input box on the side opposite the lift boom.




**ALERT:** When the intake auger is raised, the lift cable is hooked into the loop at the bottom of the intake auger. The open end of the hook must be turned toward the hopper. The intake auger could detach and fall if the main auger is raised with the hook turned the other way.

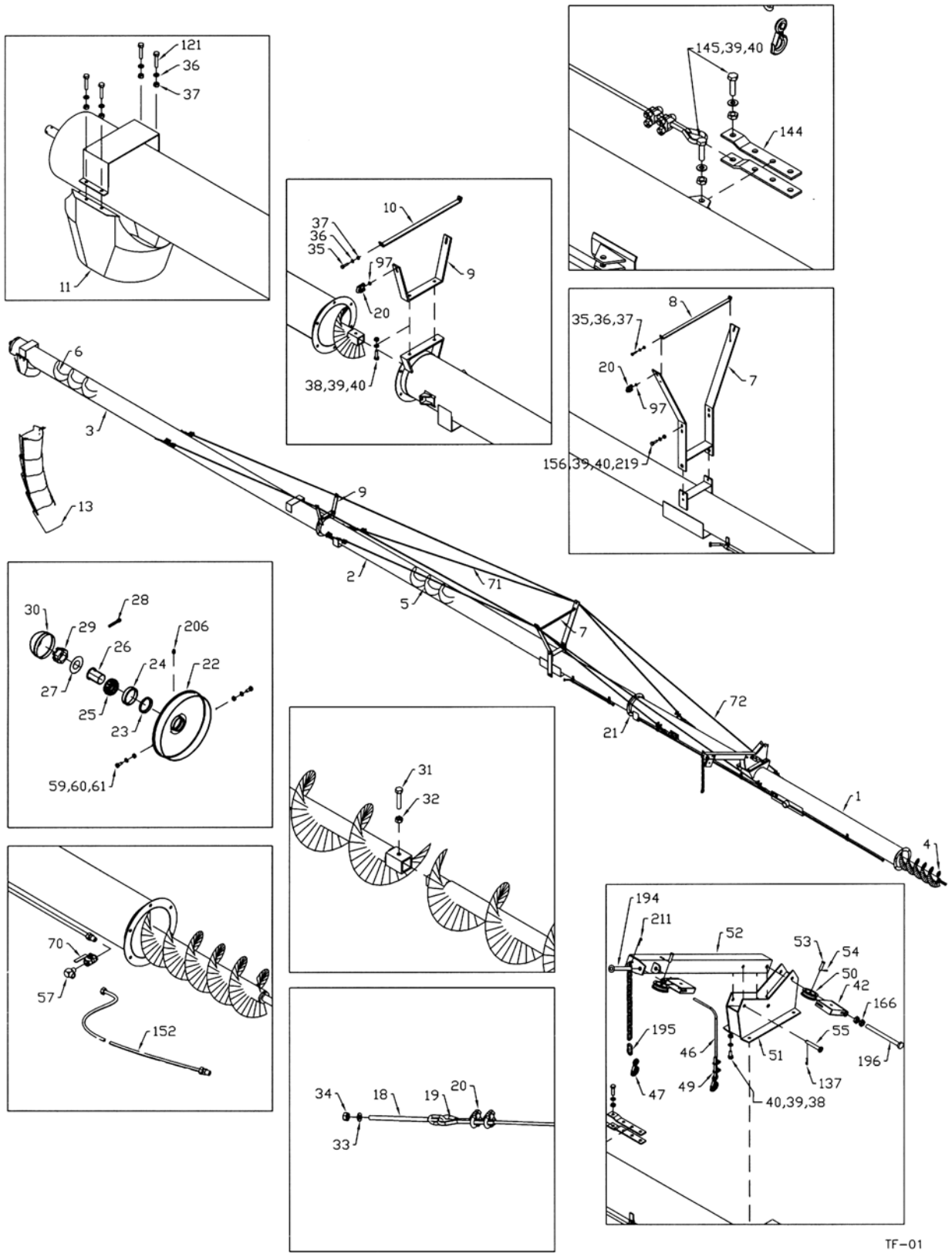
## ASSEMBLY & INSTRUCTIONS – cont’d.

20. Re-check and tighten all bolts.

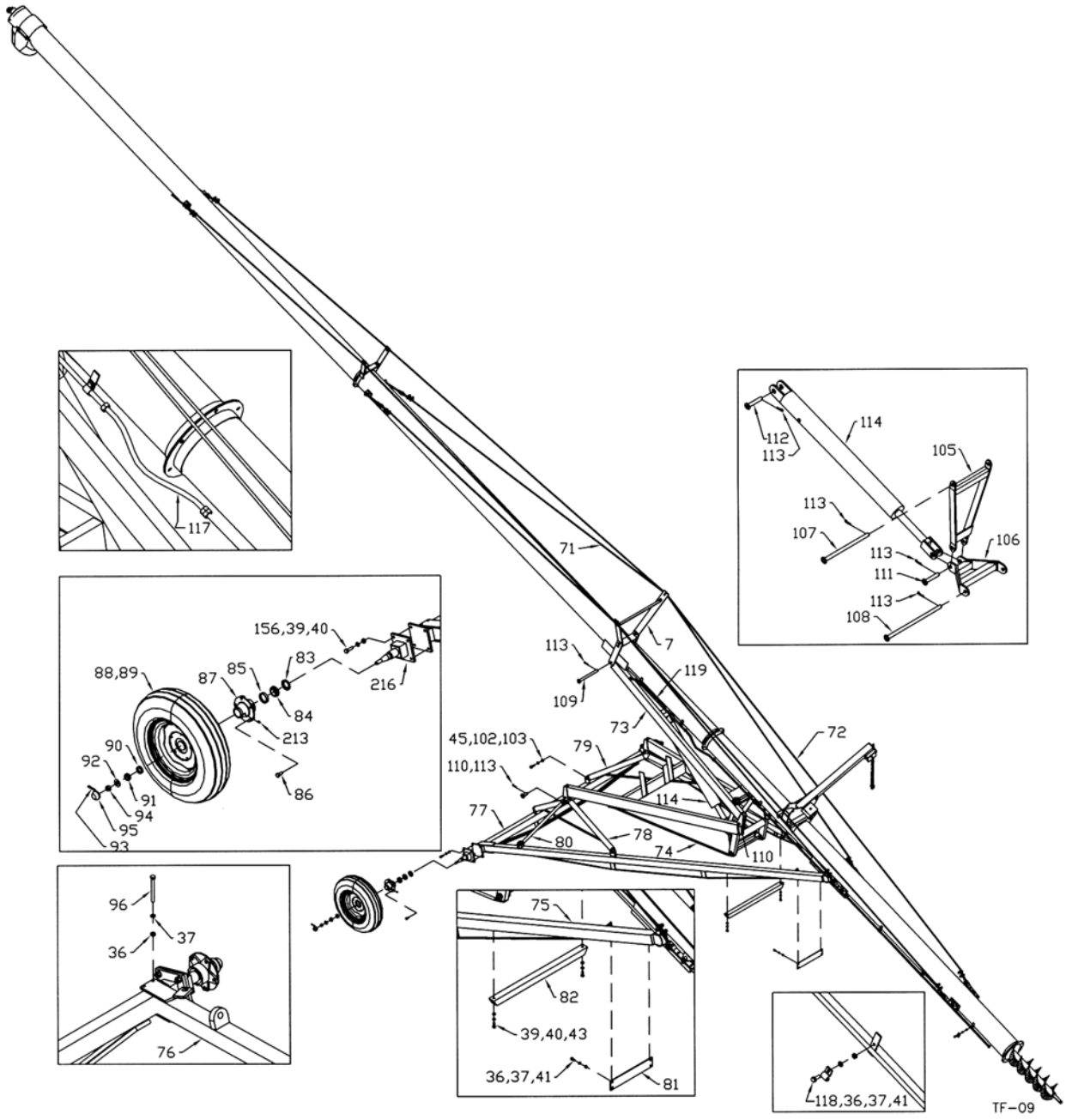
21. Immediately after setting up the auger, hook it up to a tractor. Raise and lower the auger three or four times to purge all the air out of the hydraulic line to the lift cylinder. This will help to prevent the auger from settling when you have it in working position above a bin.

⚠ **ALERT:** Always check to see that both ends of the PTO shaft are securely attached every time the auger is used. This should always be done with the tractor engine off. When transporting the auger, disconnect the PTO shaft from the tractor. The PTO holder on top of the input box is used to hold the PTO during transport. Do not run the auger with the intake auger in transport position. Doing this will damage the u-joint between the intake auger and the input box.

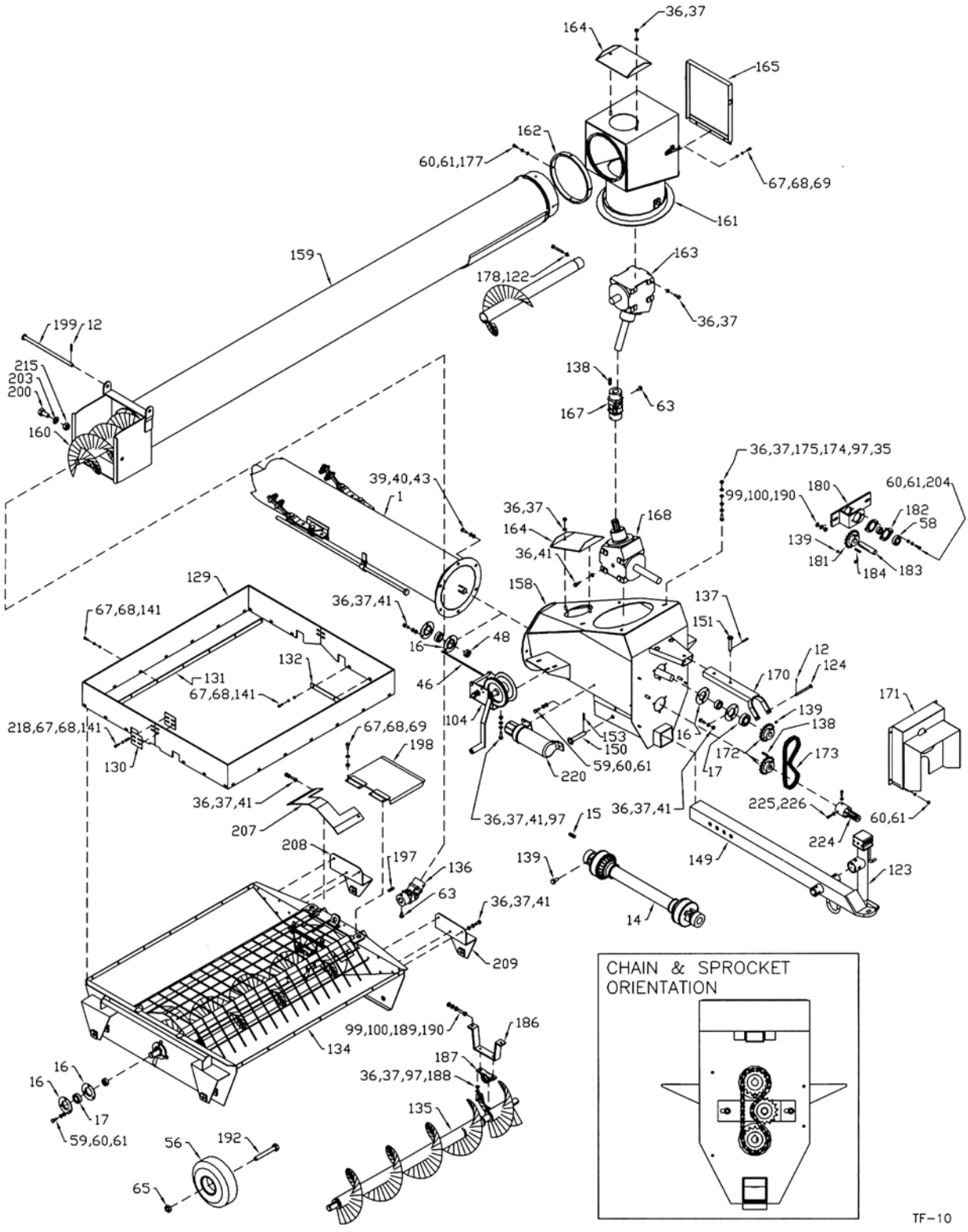
## 10” BACKSAVER AUGER



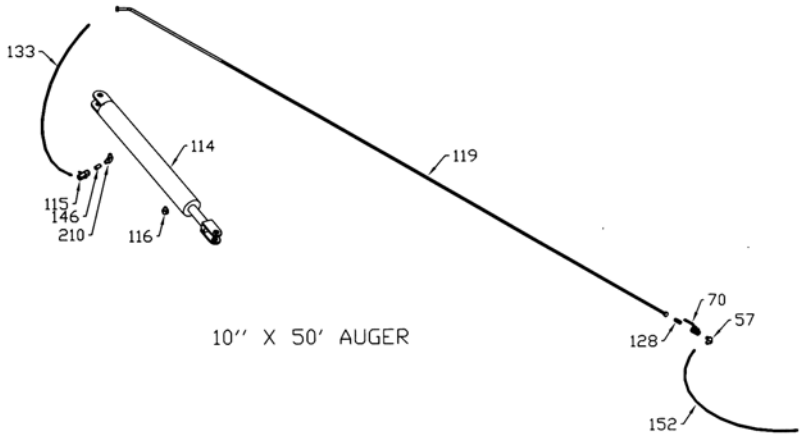
## 10” BACKSAVER AUGER



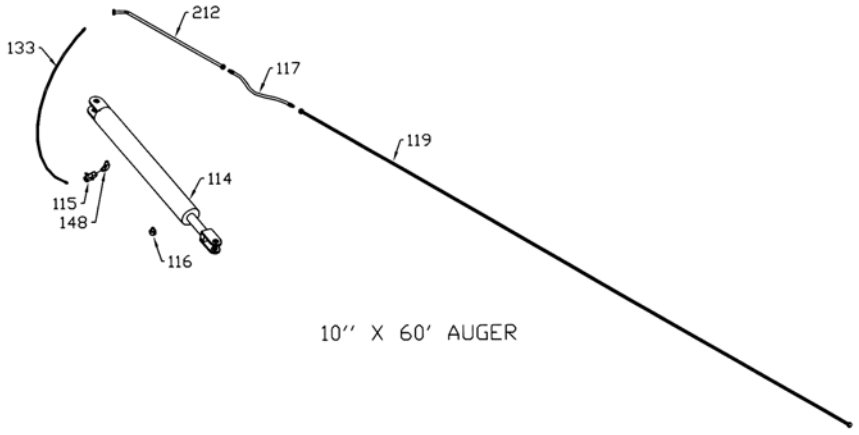
## 10” BACKSAVER AUGER



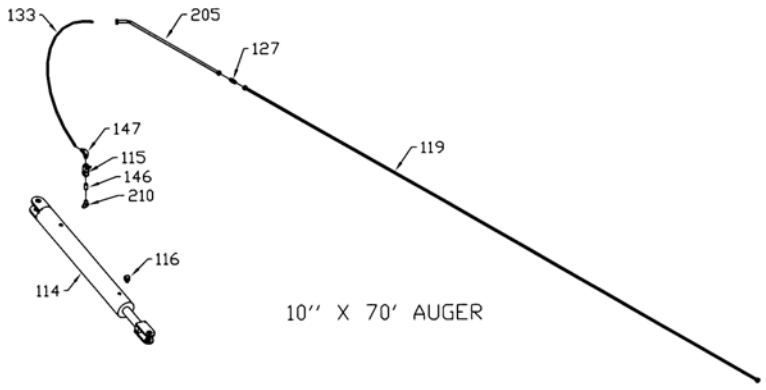
## 10” AUGER – TOP FEED HYDRAULIC SYSTEMS




10'' X 50' AUGER




10'' X 60' AUGER




10'' X 70' AUGER

TF-11

## WHEN ORDERING PARTS

Always give your dealer the Model, Color and Serial Number of your machine to assist him in ordering and obtaining the correct parts. Use the exploded view and tabular listing of the area of interest to exactly identify the required part.

### 10" BACKSAVER AUGER PARTS LIST

| Item # | Part # | Description |
|---|---|---|
| 1 | 905644 | 27'4" Bottom Tube, 50' |
| | 905645 | 17'4" Bottom Tube, 60' |
| | 905646 | 27'4" Bottom Tube, 70' |
| 2 | 960004 | 20' Center Tube, 60' |
| | 960005 | 20' Center Tube, 70' |
| 3 | 960006 | 20' Top Tube, 50' |
| | 960007 | 20' Top Tube, 60' |
| | 960008 | 20' Top Tube, 70' |
| 4 | 960538 | 30' Bottom Flighting, 50' & 70' |
| | 960543 | 20' Bottom Flighting, 60' |
| 5 | 960011 | 20' Center Flighting, 60' & 70' |
| 6 | 960012 | 20' Top Flighting, All Sizes |
| 7 | 960014 | Main Bridging Yoke, 50' & 60' |
| | 960015 | Main Bridging Yoke, 70' |
| 8 | 960016 | Main Bridging Tie Rod, 50' & 60' |
| | 960017 | Main Bridging Tie Rod, 70' |
| 9 | 960018 | Upper Bridging Yoke, 50' & 60' |
| | 960019 | Upper Bridging Yoke, 70' |
| 10 | 960020 | Upper Bridging Tie Rod, 70' |
| 11 | F9047 | Discharge Spout |
| 12 | 12780 | #7 Hair Pin Clip |
| 13 | F3004 | Discharge Flex. Spout (Option) |
| 14 | F9042 | PTO Shaft W/CV Joint |
| | 936166 | Tractor Half PTO, 10" (6 Spl End) |
| | 936317 | Auger Half PTO, 10" |
| | F9043 | PTO Shaft, CV-10" (2-6 Spl Ends)(Rev Model) |
| | 936166 | Tractor Half PTO, 10" (6 Spl End) |
| | 908718 | Auger Half PTO, 10" (6 Spl End)(Rev Model) |
| 15 | 960172 | 1/4" x 1/4" x 1 3/4" Key (Alloy) |
| 16 | 961675 | Flange Bearing (72MS) Pair Pl |
| 17 | 961676 | 1 1/4" Bearing w/ Collar |
| 18 | 960031 | 1/2" x 7 7/8" Cable Tightener, 50' & 60' |
| | 960032 | 3/4" x 7 7/8" Cable Tightener, 70' |
| 19 | 964267 | 3/8" Cable Thimble, 50' & 60' |
| | 964587 | 1/2" Cable Thimble, 70' |

| | | |
|---|---|---|
| 20 | 964264 | 3/8" Cable Clamp, 50' & 60' - Upper Brdg |
| | 964565 | 1/2" Cable Clamp, 70' & 50'/60' Main Brdg. |
| 21 | 960033 | 10" Connection Ring |
| 22 | 960034 | Top End Plate |
| 23 | 960125 | Oil Seal (CR14939) |
| 24 | 967709 | Inner Bearing Cup (LM29710) |
| 25 | 967708 | Inner Bearing Cone (LM29749) |
| 26 | 960035 | Sleeve |
| 27 | 9812442 | Washer |
| 28 | 812435 | Cotter Pin - 1/4" x 1 3/4" |
| 29 | 960037 | 1 1/4" Slotted Hex Nut (Fine Thread) |
| 30 | 967209 | Dust Cap (DC 15) |
| 31 | 9812368 | 1/2" x 2 3/4" (Grade 8) Hex Bolt |
| 32 | 812364 | 1/2" Lock Nut |
| 33 | 81638 | 1/2" Flat Washer, 50' & 60' |
| | 84050 | 3/4" SAE Flat Washer, 70' |
| 34 | 81636 | 1/2" Hex Nut, 50' & 60' |
| | 81700 | 3/4" Hex Nut, 70' |
| 35 | 811792 | 3/8" x 1 1/2" Hex Bolt |
| 36 | 81593 | 3/8" Lock Washer |
| 37 | 81592 | 3/8" Hex Nut |
| 38 | 84277 | 1/2" x 1 1/2" Hex Bolt |
| 39 | 81637 | 1/2" Lock Washer |
| 40 | 81636 | 1/2" Hex Nut |
| 41 | 86170 | 3/8" x 1" Hex Bolt |
| 42 | 905602 | Pulley Holder Weld't |
| 43 | 81620 | 1/2" x 1 1/4" Hex Bolt |
| 44 | 81678 | 5/8" Flat Washer |
| 45 | 81676 | 5/8" Hex Nut |
| 46 | 960040 | Intake Lift Cable, 3/16" x 28' (Assembled) |
| | 960206 | 3/16" x 28' Cable Only |
| 47 | 960041 | Lift Cable Hook |
| 48 | 960749 | 1 1/4" Bearing w/ Collar |
| | | * This Bearing Has a Triple Lip Seal |
| 49 | 965806 | 3/16" Cable Clamp |
| 50 | 961846 | Cable Pulley, 1/2" Bore |
| 51 | 905601 | Side Plate Weld't |
| 52 | 905604 | Lift Boom Arm Weld't |
| 53 | 960913 | 1/2" x 1 13/16" Clevis Pin |
| 54 | 9812430 | 1/8" x 1" Cotter Pin |
| 55 | 905568 | Pin Weld't 5/8" x 4 1/4" Lg |
| 56 | 960048 | 2 1/2" x 8" Wheels |
| | 960400 | Wheel Bearing Only |
| 57 | 960585 | 1/2" x 90 Deg Street Elbow (Steel) |
| 58 | 961627 | 1" Bearing |

| | | |
|---|---|---|
| 59 | 81549 | 5/16" x 3/4" Hex Bolt |
| 60 | 81569 | 5/16" Lock Washer |
| 61 | 81568 | 5/16" Hex Nut |
| 63 | 9812378 | 3/8" x 3/4" Sq. Hd. Set Screw (SER) |
| 65 | 812482 | 5/8" Lock Nut |
| 67 | 81545 | 1/4" Lock Washer |
| 68 | 81544 | 1/4" Hex Nut |
| 69 | 81525 | 1/4" x 3/4" Hex Bolt |
| 70 | 960057 | 1/2" Ball Valve |
| 71 | 960219 | 3/8" x 21'-3" Cable (50' Assembled) |
| | 960220 | 3/8" x 22'-11" Cable Only |
| | 960221 | 3/8" x 26'-8" Cable (60' Assembled) |
| | 960222 | 3/8" x 28'-4" Cable Only |
| | 960223 | 1/2" x 30'-11" Cable (70' Assembled) |
| | 960224 | 1/2" x 32'-7" Cable Only |
| 72 | 960225 | 3/8" x 36' Cable (50' Assembled) |
| | 960226 | 3/8" x 37'-8" Cable Only |
| | 960227 | 3/8" x 43'-2" Cable (60' Assembled) |
| | 960228 | 3/8" x 44'-10" Cable Only |
| | 960229 | 1/2" x 54'-7" Cable (70' Assembled) |
| | 960230 | 1/2" x 56'-3" Cable Only |
| 73 | F9021 | 82 1/4" Upper Lift Arm, 50' |
| | F9022 | 95" Upper Lift Arm, 60' |
| | F9023 | 108" Upper Lift Arm, 70' |
| 74 | F9024 | 82 1/4" Lower Lift Arm, 50' |
| | F9025 | 95" Lower Lift Arm, 60' |
| | F9026 | 108" Lower Lift Arm, 70' |
| 75 | F9253 | 153" R.H. Und. Arm 50' |
| | F9251 | 184" R.H. Und. Arm 60' |
| | F9249 | 202" R.H. Und. Arm 70' |
| 76 | F9252 | 153" L.H. Undercarriage Arm 50' |
| | F9250 | 184" L.H. Undercarriage Arm 60' |
| | F9248 | 202" L.H. Und. Arm 70' |
| 77 | F0171 | 96" Axle Weldment 50' |
| | F0172 | 108" Axle Weldment 60' |
| | F0173 | 132" Axle Weldment 70' |
| 78 | 960079 | 54 1/2" RH Undercarriage Arch, 50' |
| | 960080 | 80" RH Undercarriage Arch, 60' |
| | 960081 | 85" RH Undercarriage Arch, 70' |
| 79 | 960082 | 54 1/2" LH Undercarriage Arch, 50' |
| | 960083 | 80" LH Undercarriage Arch, 60' |
| | 960084 | 85" LH Undercarriage Arch, 70' |
| 80 | 960085 | 19 1/2" Arch Brace, 50' |
| | 960086 | 30" Arch Brace, 60' |
| | 960087 | 35" Arch Brace, 70' |

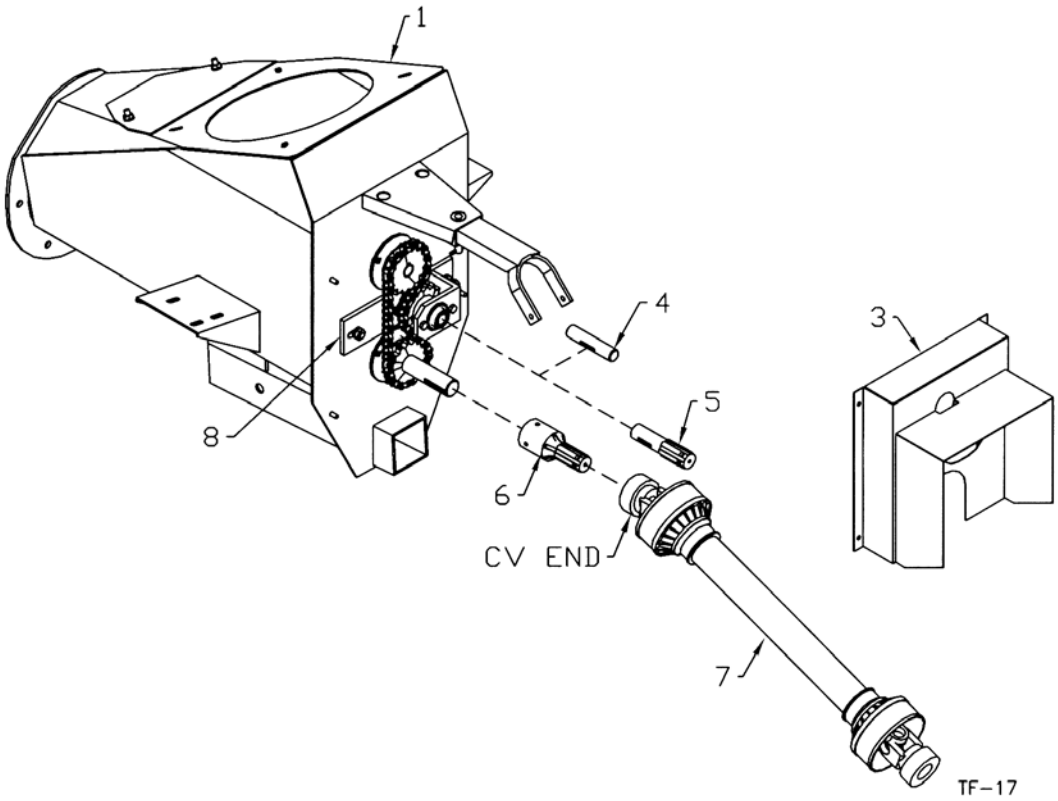
| | | |
|---|---|---|
| 81 | 960088 | 16" Tie Plate, 50' & 60' |
| | 960089 | 18" Tie Plate, 70' |
| 82 | 904980 | 33 1/4" Lift Arm Cradle, 50' |
| | 904981 | 36' Lift Arm Cradle, 60' |
| | 904982 | 41' Lift Arm Cradle, 70' |
| 83 | 968430 | Oil Seal (SE 14) |
| 84 | 967208 | Inner Bearing Cone (LM48548) |
| 85 | 968412 | Inner Bearing Cup (LM48510) |
| 86 | 968404 | 1/2" Wheel Bolt |
| 87 | 968403 | 5 Bolt Hub w/ Bearing Cups |
| | 968431 | 5 Bolt Hub CTD H516 Complete Assembly |
| 88 | F0110 | 15" x 5" x 5 Bolt Wheel |
| 89 | 959203 | 6.70 x 15 x 4 Ply Tire |
| | 959202 | 7.60 x 15 x 4 Ply Tire |
| 90 | 968405 | Outer Bearing Cup (LM11910) |
| 91 | 968406 | Outer Bearing Cone (LM11949) |
| 92 | 9812416 | Washer (3/4" S.A.E.) |
| 93 | 9812486 | 1/8" x 1 1/2" Cotter Pin |
| 94 | 81834 | 3/4" Slotted Hex Nut |
| 95 | 968409 | Dust Cap (DC 12) |
| 96 | 81588 | 3/8" x 4 1/2" Hex Bolt |
| 97 | 84000 | 3/8" Flat Washer |
| 98 | 81598 | 7/16" x 1 1/4" Hex Bolt |
| 99 | 81615 | 7/16" Lock Washer |
| 100 | 81614 | 7/16" Hex Nut |
| 101 | 811796 | 1/2" x 2 1/2" Hex Bolt |
| 102 | 84270 | 5/8" x 1 3/4" Hex Bolt |
| 103 | 81677 | 5/8" Lock Washer |
| 104 | 960150 | Winch (K1050) |
| 105 | 960093 | Pivot Yoke, 50' |
| | 960094 | Pivot Yoke, 60' |
| | 960095 | Pivot Yoke, 70' |
| 106 | 960096 | Connecting Link, 50' |
| | 960097 | Connecting Link, 60' |
| | 960098 | Connecting Link, 70' |
| 107 | 960099 | 1" x 16 1/8" Yoke Pin, 50' |
| | 960100 | 1" x 17 7/8" Yoke Pin, 60' |
| | 960101 | 1 1/4" x 22" Yoke Pin, 70' |
| 108 | 960102 | 1" x 20" Connecting Link Pin, 50' |
| | 960103 | 1" x 22" Connecting Link Pin, 60' |
| | 960104 | 1 1/4" x 26" Connecting Link Pin, 70' |
| 109 | 960105 | 1" x 11 7/8" Lift Arm Pivot Pin, 50' & 60' |
| | 960106 | 1 1/4" x 12 1/4" Lift Arm Pivot Pin, 70' |
| 110 | 960107 | 1" x 2 13/16" Lift Arm Clevis Pin, 50' & 60' |
| | 960108 | 1 1/4" x 2 13/16" Lift Arm Clevis Pin, 70' |

| | | |
|---|---|---|
| 111 | 960109 | 1" x 5 1/2" Cylinder Swivel Pin, 50' & 60' |
| | 960110 | 1 1/4" x 5 1/2" Cylinder Swivel Pin, 70' |
| 112 | 960111 | 1" x 6 3/8" Cylinder Base Pin, 50' |
| | 960112 | 1" x 6 7/8" Cylinder Base Pin, 60' |
| | 960113 | 1 1/4" x 7 3/4" Cylinder Base Pin, 70' |
| 113 | 9812433 | 3/16" x 1 1/2" Cotter Pin, 50' & 60' |
| | 81210 | 1/4" x 2" Cotter Pin, 70' |
| 114 | F9183 | 3 1/2" x 30" Hydraulic Cylinder, 50' |
| | F9184 | 4" x 36" Hydraulic Cylinder, 60' |
| | F9185 | 4" x 40" Hydraulic Cylinder, 70' |
| 115 | 960118 | 1/2" One Way Flow Control Valve |
| 116 | 967908 | Vented Plug (3/4 - 16ORB) |
| 117 | 960162 | 1/2" x 18" Hydraulic Hose<br>(Both Ends Solid - Both End JIC) - 60' |
| 118 | 960140 | Hydraulic Clamp |
| 119 | 960469 | 5/8" O.D. x 16'-2" Hydraulic Line, 50' |
| | 960467 | 5/8" O.D. x 15'-10" Hydraulic Line, 60' |
| | 960468 | 5/8" O.D. x 13'-4" Hydraulic Line, 70' |
| 120 | 81634 | 1/2" x 5 1/2" Hex Bolt |
| 121 | 967291 | 3/8" x 2" Hex Bolt Full Thread |
| 122 | 812363 | 3/8" Lock Nut |
| 123 | 960327 | Jack |
| 124 | 961539 | 3/8" x 4 1/2" PTO Holder Pin |
| 127 | 812711 | JIC Male to Male Coupler |
| 128 | 960152 | JIC to 1/2" NPT Male to Male Adapter |
| 129 | 960780 | Hopper Rubber Edging (3/16"x6"x90" - 2/Hopper) |
| 130 | 903483 | Rubber Connector Plate (3" x 3") |
| 131 | 960155 | Side Rubber Rein, (1" x 45 1/2") |
| 132 | 960661 | End Rubber Rein. (1" x 13 1/2") |
| 133 | 960160 | 1/2" x 4' Hyd. Hose (One Swivel End)<br>(One End 1/2" NPT)(One End JIC) |
| 134 | 960940 | Intake Hopper Weldment |
| 135 | 960723 | Intake Hopper Flighting |
| 136 | 960547 | Universal Joint (1140 Series) |
| | 936079 | Repair Kit Only For U-Joint |
| 137 | 961012 | #16 Hair Pin Clip |
| 138 | 900930 | 1/4" x 1 1/2" Key (Alloy) |
| 139 | 988999 | 3/8" x 3/8" Socket Set Screw |
| 141 | 81527 | 1/4" x 1" Hex Bolt |
| 144 | 960244 | Cable Yoke |
| 145 | 811791 | 1/2" x 2" Hex Bolt |
| 146 | 811469 | 1/2" Nipple (Steel) |
| 147 | 960330 | 1/2" x 45 Deg Street Elbow (Steel) |
| 148 | 906541 | Elbow 90 Deg 3/4" MORB x 1/2" MNPT |

| | | |
|---|---|---|
| 149 | 905065 | 3" Sq. x 48" Hitch Tube |
| | 960923 | 3" Sq. x 45" Hitch Weld't (Option) |
| | 960927 | Clevis (Option - Req'd w/ 45" Hitch) |
| 150 | 960336 | 3/4" x 4 1/4" Hitch Pin |
| 151 | 961010 | 1/2" x 2 1/8" Clevis Pin |
| 152 | 960466 | 1/2" x 112" Hydraulic Hose (B.E. Solid & 1/2" NPT) |
| 153 | 12779 | #9 Hair Pin Clip |
| 156 | 87553 | 1/2" x 1 3/4" Hex Bolt |
| 158 | 909631 | Input Box |
| 159 | 960754 | Intake Auger Tube |
| 160 | 960941 | Intake Auger Flighting |
| | 903214 | Splined Coupler Only |
| 161 | 905663 | Intake Auger Top Box |
| 162 | 960481 | Ring (10 1/16" I.D.) |
| 163 | 960952 | Intake Auger Gearbox |
| 164 | 960483 | Intake Auger & Input Box Clean-Out Lid |
| 165 | 905665 | Door Weldment 14 1/8" x 15 1/4" |
| 166 | 86111 | 3/4" Jam Nut (pl) |
| 167 | 960393 | U-Joint |
| | 906546 | Extended Life Repair Kit (Standard) |
| | 936224 | Repair Kit (Optional) |
| 168 | 960953 | Input Box Gearbox |
| 170 | 960459 | PTO Holder - 14" |
| | 960181 | PTO Holder -19" (Reverse Model) |
| 171 | 960926 | Chain Cover |
| 172 | 961684 | 15T Sprocket. #60, 1 1/4" Bore |
| 173 | 960493 | #60 Chain x 38 Links |
| 174 | 960494 | 1 1/4" OD 13/32" ID Washer |
| 175 | 960495 | 2 1/2" OD 13/32" ID Washer |
| 177 | 967163 | 5/16" x 3/4" Flat Hd. Socket Cap Screw |
| 178 | 967906 | 3/8" x 2 3/4" Hex Bolt (Gr 8) |
| 180 | 960531 | Idler Arm Weldment |
| | 960183 | Idler Assembly (Arm, Sprocket Bearings,Shaft,Etc.) |
| | 906579 | Idler Assembly (W/ Reverse Shaft) |
| 181 | 960532 | 15T Sprocket, #60, 1" Bore |
| 182 | 963009 | 1" Bearing Flange Set |
| 183 | 960533 | 1" x 4 1/2" Idler Shaft |
| | 960182 | Reverse Idler Shaft 8 3/4" x 6 Spl. |
| 184 | 960177 | 1/4" x 1 1/4" Key (Alloy) |
| 186 | 960164 | Bearing Hanger |
| 187 | 960658 | 1 1/4" Wooden Bearing & Flange Set |
| | 960659 | 1 1/4" Wooden Bearing Only |
| 188 | 86171 | 3/8" x 1 1/4" Hex Bolt |
| 189 | 81600 | 7/16" x 1 3/4" Hex Bolt |
| 190 | 981616 | 7/16" Flat Washer |

| | | |
|---|---|---|
| 192 | 81672 | 5/8" x 4 1/2" Hex Bolt |
| 194 | 905570 | 3/4" x 6 3/8" Lg Pin Weld't |
| 195 | 960167 | 5/16" Quick Link |
| 196 | 811803 | 3/4" x 10" Hex Bolt (pl) |
| 197 | 960180 | 5/16" x 1 3/8" Key (4140 Alloy) |
| 198 | 960348 | Hopper Lid |
| 199 | 960349 | Hopper Lid Rod (5/8" x 15") |
| 200 | 967437 | 3/4" x 1 5/8" Bolt |
| 202 | 812365 | 3/4" Lock Nut |
| 204 | 967183 | 5/16" x 1" Flat Hd. Bolt |
| 205 | 960144 | 5/8" O.D. x 11' Hydraulic Line - 70' |
| 206 | 967164 | Drive-In Grease Zerk |
| 207 | 960929 | Deflector Extension |
| 208 | 903925 | Wheel Bracket (R.H.) |
| 209 | 903924 | Wheel Bracket (L.H.) |
| 210 | 812693 | Elbow 45 Deg 3/4" MORB x 1/2" SWFNPT |
| 211 | 9812433 | 3/16" x 1 1/2" Cotter Pin |
| 212 | 960143 | 5/8" O.D. x 36" Hydraulic Line - 60' |
| 213 | 967900 | 1/4" Grease Fitting |
| 215 | 81700 | 3/4" Hex Nut |
| 216 | 906437 | Stub Axle Weldment |
| 218 | 81546 | 1/4" Flat Washer |
| 219 | 81638 | 1/2" Flat Washer |
| 220 | 909277 | Manual Holder |
| 223 | 905620 | Clean Out Lid Weldment |
| 224 | 904123 | Adaptor Assy, Pump 1 1/4" (6 Spl) |
| 225 | 81213 | Setscrew Sqhdcup 3/8" x 1" |
| 226 | 986045 | 3/8" Nut Hex Jam Gr. 2 |

## 10” MECHANICAL DRIVE AUGER REVERSE KIT

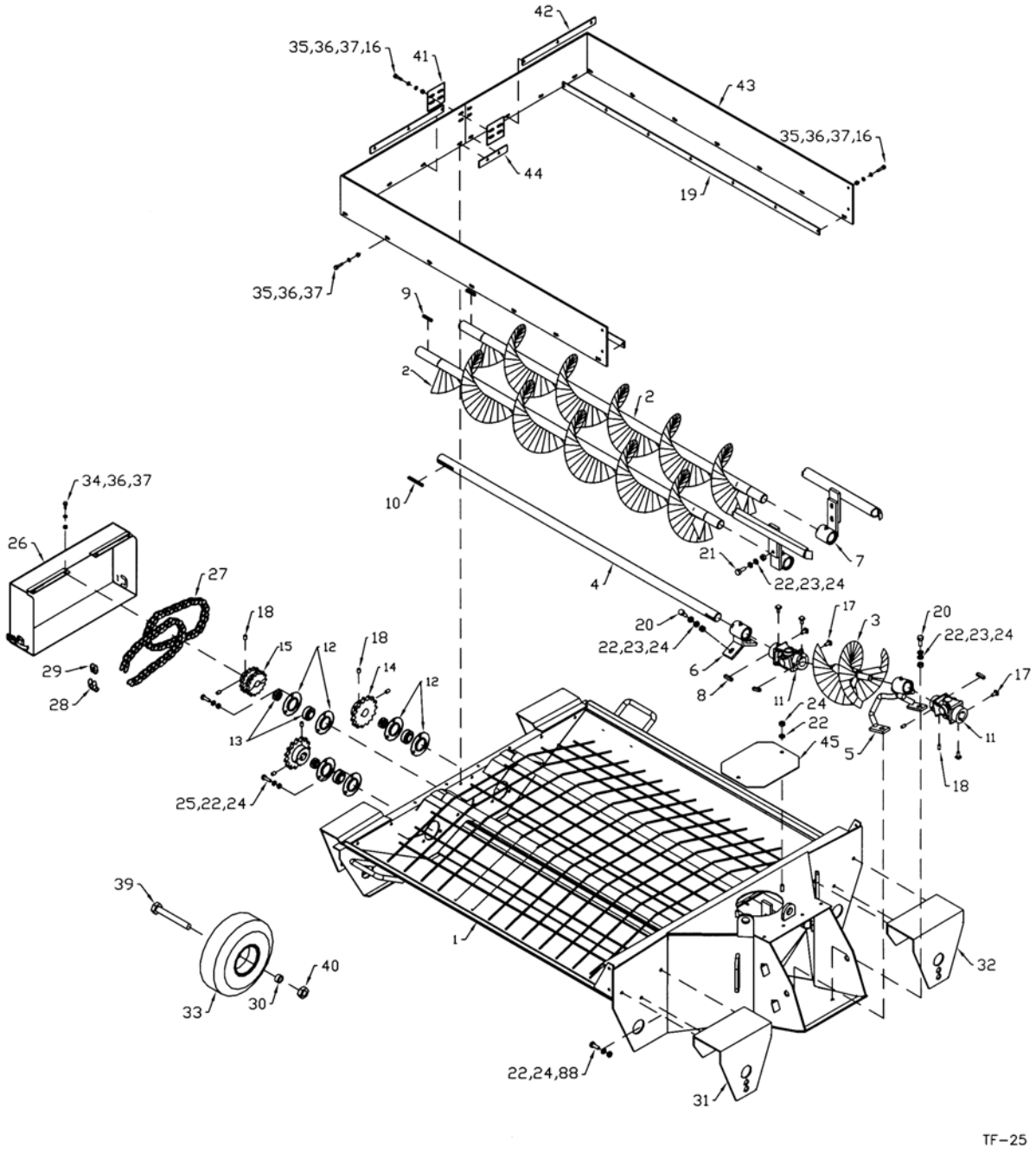



### 10" Mechanical Drive Auger Reverse Kit Parts List

| Item # | Part # | Description |
|---|---|---|
| 1 | 909631 | Input Box |
| 2 | 960181 | PTO Holder (19" Long) |
| 3 | 960926 | Chain Cover |
| 4 | 960533 | 1" x 4 1/2" Idler Shaft |
| 5 | 960182 | 6-Splined Shaft (8 3/4" Long) |
| 6 | 960539 | 1 1/4" I.D. Pump Adapter |
| 7 | 936218 | 6-Spline End Yoke |
| | F9043 | PTO Shaft, CV-10" (2-6 Spl. Ends)(Rev Model) |
| | 936166 | Tractor Half PTO, 10" (6 Spl End) |
| | 908718 | Auger Half PTO, 10" (6 Spl End)(Rev Model) |
| 8 | 906579 | * Idler Assembly W/ Rev. (Arm, Sprocket, Bearings, Shaft, etc.) |

- The Reverse Kit cannot be used without the idler assembly. The idler assembly is standard on all ’92 and up Mechanical Drive Augers.

## 10” MULTI-FLIGHTING HOPPER




## 10" MULTI-FLIGHTING HOPPER

| Item # | Part # | Description |
|---|---|---|
| 1 | 905341 | Hopper Weldment |
| 2 | 905346 | Outside Flighting Weldment |
| 3 | 905352 | Center Flighting Weldment |

| | | |
|---|---|---|
| 4 | 905353 | Center Flighting Shaft |
| 5 | 905840 | Center Flighting Holder |
| 6 | 905842 | Center Shaft Holder |
| 7 | 905844 | Outside Flighting Holder |
| 8 | 960180 | Hopper U-Joint Keys 5/16'' x 1 3/8'' |
| 9 | 963026 | Outside Sprocket Key 1/4'' x 1 1/2'' |
| 10 | 905369 | Inside Sprocket Key 1/4'' x 2 1/2'' |
| 11 | 960547 | U-Joint 1 1/4'' Both Ends w/ 5/16'' Keyway |
| 12 | 961637 | Flange Brg. (62MS) Pair |
| 13 | 965818 | 1 1/4'' Bearing W/ Collar |
| 14 | 960492 | Spkt 17T #60 1 1/4'' Bore |
| 15 | 905562 | Spkt 14T #60 1 1/4'' Bore |
| 16 | 81546 | 1/4'' B.S. Flat Washer (pl) |
| 17 | 812037 | 3/8'' x 3/4'' Setscrew Sq Head (pl) |
| 18 | 812490 | 3/8'' x 3/8'' Setscrew Sckt Ser (pl) |
| 19 | 960155 | Rubber Reinf. 1'' x 45 1/2'' |
| 20 | 86171 | 3/8'' x 1 1/4'' Hex Bolt (pl) |
| 21 | 811792 | 3/8'' x 1 1/2'' Hex Bolt (pl) |
| 22 | 81593 | 3/8'' Lock Washer (pl) |
| 23 | 84000 | 3/8'' Flat Washer (pl) |
| 24 | 81592 | 3/8'' Hex Nut (pl) |
| 25 | 86170 | 3/8'' x 1'' Hex Bolt (pl) |
| 26 | 904584 | Chain Guard Weldment |
| 27 | 906480 | Chain Assy #60H x 31L Including Connector & Offset |
| 28 | 912300199 | Connector Link #60 |
| 29 | 912300198 | Chain #60 Offset Link |
| 30 | 960839 | Spacer 1'' O.D. x 1 1/2'' Lg |
| 31 | 905365 | Std. Wheel Brkt. 9'' x 17 7/8'' x 7 Ga - L |
| 32 | 905366 | Std. Wheel Brkt. 9'' x 17 7/8'' x 7 Ga - R |
| 33 | 960714 | Wheel W/ Tire 4.10/3.50 |
| 34 | 81525 | 1/4'' x 3/4'' Hex Bolt (Pl) |
| 35 | 81527 | 1/4'' x 1'' Hex Bolt (Pl) |
| 36 | 81701 | 1/4'' Lock Washer (Pl) |
| 37 | 81544 | 1/4'' Hex Nut (Pl) |
| 38 | 86170 | 3/8'' x 1'' Hex Bolt (Pl) |
| 39 | 812114 | 3/4'' x 5 1/2'' Hex Bolt (Pl) |
| 40 | 812365 | 3/4'' Lock Nut (Pl) |
| 41 | 903483 | 3'' x 3'' x 14 Ga Connector Plates |
| 42 | 960661 | 1'' x 13'' x 10 Ga Rubber Rein. |
| 43 | 905605 | 1/4'' x 6'' x 68 3/4'' Lg Rubber Strips W/ Holes |
| 44 | 960834 | 3/16'' x 1'' x 5'' Long Rubber Rein. |
| 45 | 905364 | Top Cover 71/2'' x 9 1/2'' |

## 10” X 10’ AUGER EXTENSION – ASSEMBLY INSTRUCTIONS

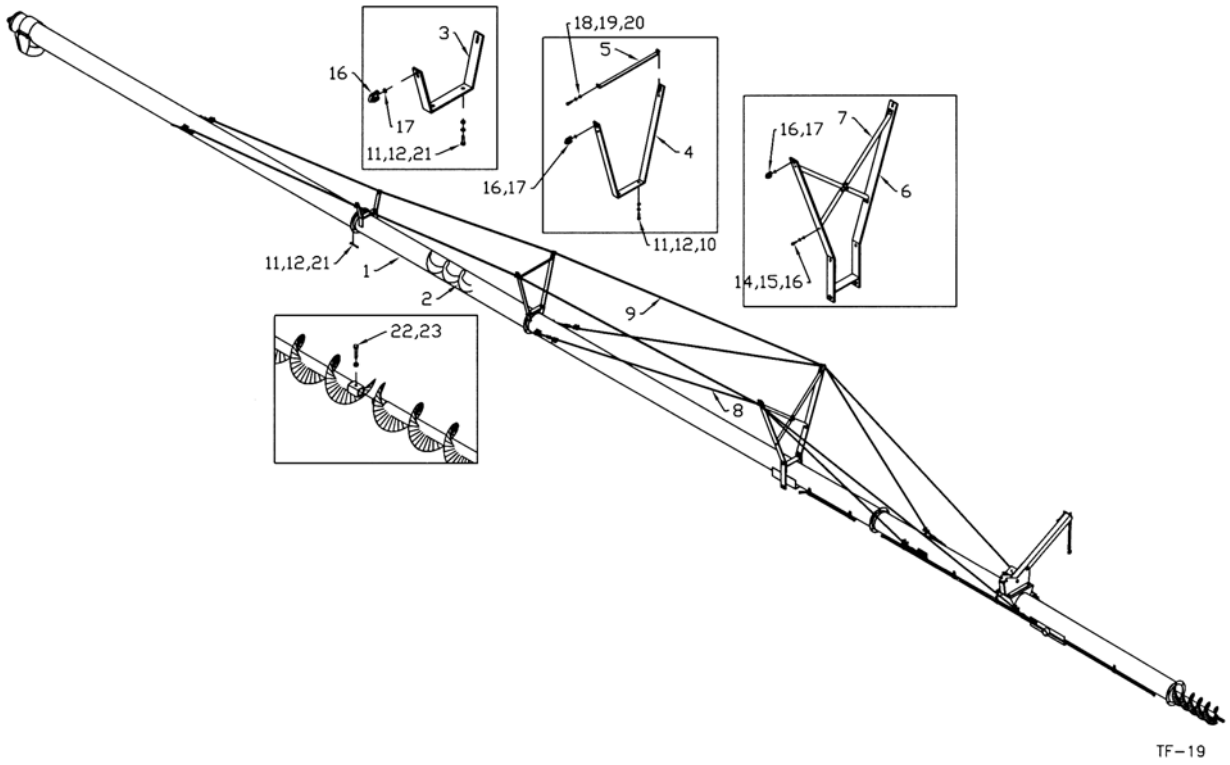
**NOTE:** This extension can be used to extend the 70’ Auger to 80’ only. It is not made to be used on any other size of auger.

1. The 10” Backsaver manual should be used for assembly instructions. The extension (#1) is mounted between the centre and the top sections of the 70’ auger. Align all four sections before tightening the pipe ring bolts.

2. The main bridging yoke (#6) is about 12” higher for an 80’ vs. a 70’ auger. The 80’ auger also has two braces (#7) for the main yoke instead of one. The centre section bridging yoke (#4) is about 6” higher than the 70’ auger. The 10’ extension also has a bridging yoke (#3).

3. Both sets of cables are also longer on a 80’ auger than a 70’. The short cables #8 mount at the same place as on the 70’ but are a bit longer because of the higher main yoke (#6). The long cables (#9) mount as per the 70’ except they are attached to the extra bridging yoke (#3).

4. The rest of the assembly is exactly the same as for a standard 70’ auger as described in the 10” Backsaver manual.

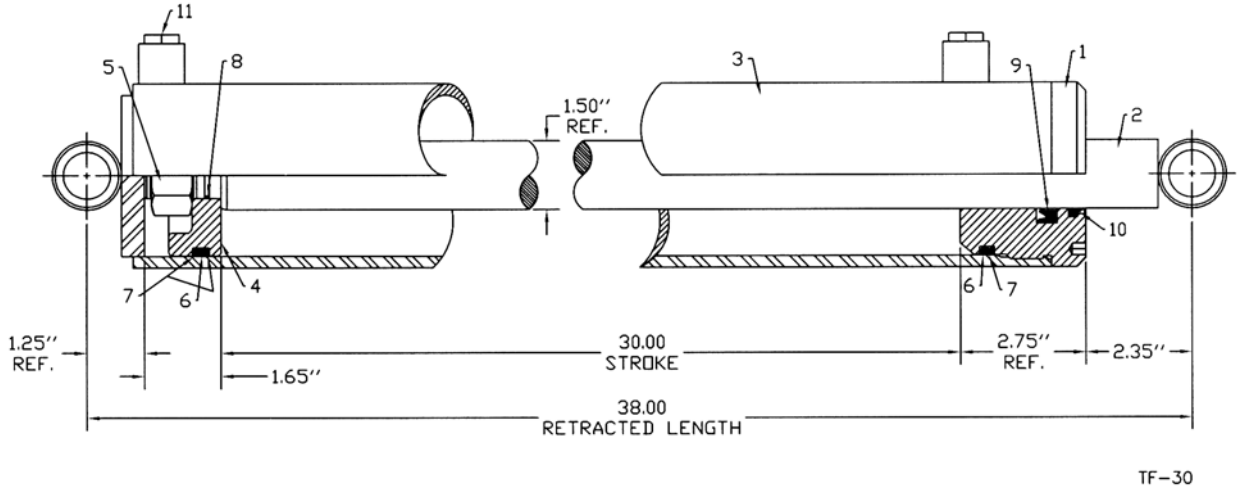


## 10'' x 10' Extension Parts List

| Item # | Part # | Description |
|---|---|---|
| 1 | 960401 | 10'' x 10' Tube Weldment |
| 2 | 960402 | 10'' x 10' Flighting |
| 3 | 960018 | Upper Bridging Yoke (31 1/2'') |
| 4 | 960403 | Center Bridging Yoke (69'') |
| 5 | 960404 | Center Bridging Tie Rod (26 3/4'') |
| 6 | 960405 | Main Bridging Yoke (64'') |
| 7 | 960608 | Main Bridging Brace (43 1/2'') |
| 8 | 960406 | 1/2'' x 31'-9'' Cable Assembled |
| | 960407 | 1/2'' x 33'-5'' Cable Only |
| 9 | 960408 | 1/2'' x 64'-10'' Cable Assembled |
| | 960409 | 1/2'' x 66'-6'' Cable Only |
| 10 | 84277 | 1/2'' x 1 1/2'' Hex Bolt |
| 11 | 81637 | 1/2'' Lock Washer |
| 12 | 81636 | 1/2'' Hex Nut |
| 13 | 81598 | 7/16'' x 1 1/4'' Hex Bolt |
| 14 | 81615 | 7/16'' Lock Washer |
| 15 | 81614 | 7/16'' Hex Nut |
| 16 | 964565 | 1/2'' Cable Clamp |
| 17 | 964001 | 3/8'' Flat Washer (10 Ga) |
| 18 | 811792 | 3/8'' x 1 1/2'' Hex Bolt |
| 19 | 81593 | 3/8'' Lock Washer |
| 20 | 81592 | 3/8'' Hex Nut |
| 21 | 81620 | 1/2'' x 1 1/4'' Hex Bolt |
| 22 | 9812368 | 1/2'' x 2 3/4'' (Gr.8) Hex Bolt |
| 23 | 812364 | 1/2'' Lock Nut |

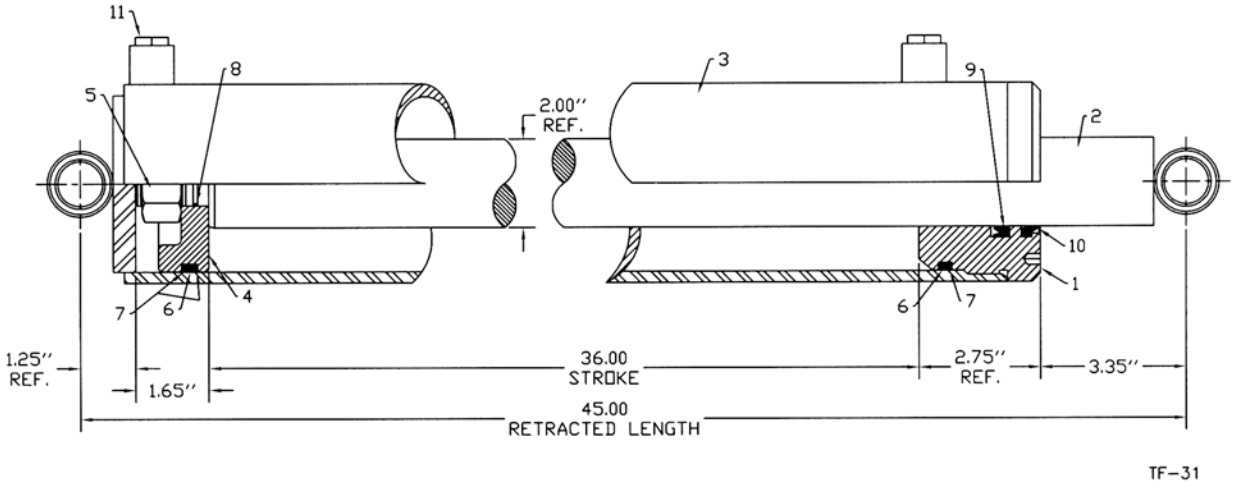
## Cylinder Assembly - 3.50 Dia. x 30.00

| Item # | Part # | Description |
|---|---|---|
| | F9183 | Cylinder Complete |
| 1 | 24676 | 3.50 Dia. Headplate |
| 2 | 108143 | 1.50 Dia. X 36.75 Lg Shaft Weldment |
| 3 | 24883 | 3.50 Dia. Tube Weldment |
| 4 | 105398 | 3.50 Dia. Piston |
| 5 | 813407 | Locknut 1.0 Unf |
| 6 | 82338 | O Ring 3.125 ID x 3.50 OD x 0.19 |
| 7 | 83338 | Backup 3.125 ID x 3.50 OD x 0.06 |
| 8 | 82020 | O Ring 0.875 ID x 1.00 ID x 0.06 |
| 9 | 810811 | U-Cup 1.50 ID x 2.125 OD x 0.313 |
| 10 | 812976 | Wiper Seal1.50 ID x 1.875 OD (Snap-In) |
| 11 | 812081 | Plug s MORB Steel |
| 12 | 22370 | Hydraulic Cylinder Decal |
| 13 | 105420 | Reference Plate JBI/FK Serial # |



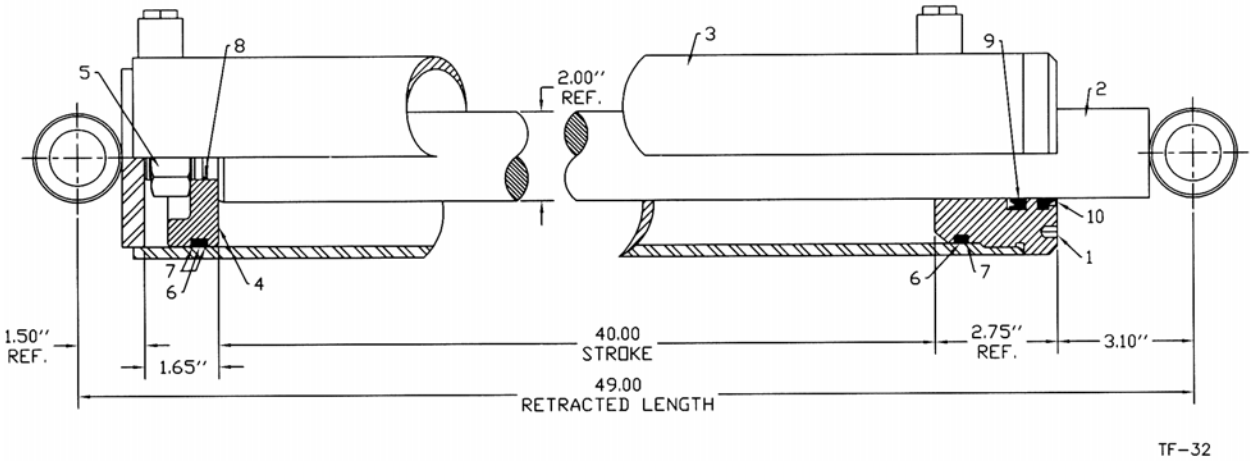
## Cylinder Assembly - 4.00 Dia. x 36.00

| Item # | Part # | Description |
|---|---|---|
| | F9184 | Cylinder Complete |
| 1 | 24865 | 4.0 Dia. Headplate |
| 2 | 105422 | Shaft Weld't 2.00 OD x 43.75 Lg |
| 3 | 24884 | 4.0 Dia. Tube Weldment |
| 4 | 105152 | 4.0 Dia. Piston |
| 5 | 813407 | Locknut 1.0 UNF |
| 6 | 82342 | O-Ring 3.625 ID x 4.0 x 0.19 |
| 7 | 83342 | Backup 3.625 ID x 4.0 OD x 0.06 |
| 8 | 82020 | O-Ring -.875 ID x 1.00 x 0.06 |
| 9 | 812967 | U-Cup 2.00 ID x 2.50 OD x 0.375 |
| 10 | 812978 | Wiper Seal 2.00 ID x 2.50 OD (Snap-In) |
| 11 | 812081 | Plug s MORB Steel |
| 12 | 22370 | Hydraulic Cylinder Decal |
| 13 | 105420 | Reference Plate JBI/FK Serial # |

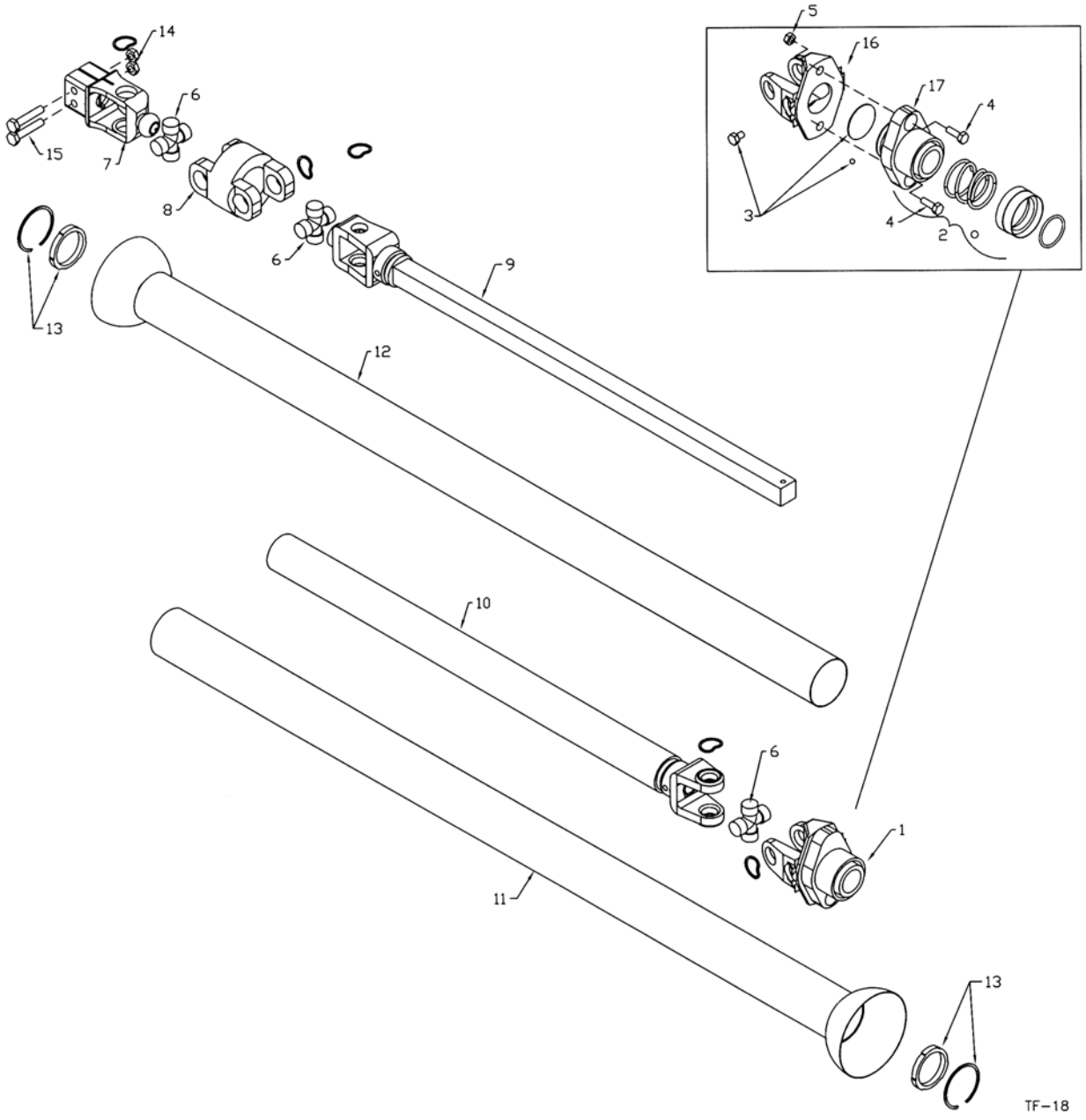


## Cylinder Assembly - 4.0 Dia. x 40.00

| Item # | Part # | Description |
|---|---|---|
| | F9185 | Cylinder Complete |
| 1 | 24865 | 4.0 Dia. Headplate |
| 2 | 105426 | Shaft Weld't 2.0 OD x 47.50 Lg |
| 3 | 24885 | 4.0 Dia. Tube Weldment |
| 4 | 105152 | 4.0 Dia. Piston |
| 5 | 813407 | Locknut 1.0 UNF |
| 6 | 82342 | O-Ring 3.625 ID x 4.0 OD x 0.19 |
| 7 | 83342 | Backup 3.625 ID x 4.0 OD x 0.06 |
| 8 | 82020 | O-Ring 0.875 ID x 1.00 x 0.06 |
| 9 | 812967 | U-Cup 2.00 ID x 2.50 OD x 0.375 |
| 10 | 812978 | Wiper Seal 2.00 ID x 2.50 OD (Snap In) |
| 11 | 812081 | Plug s MORB Steel |
| 12 | 22370 | Hydraulic Cylinder Decal |
| 13 | 105420 | Reference Plate JBI/FK Serial # |



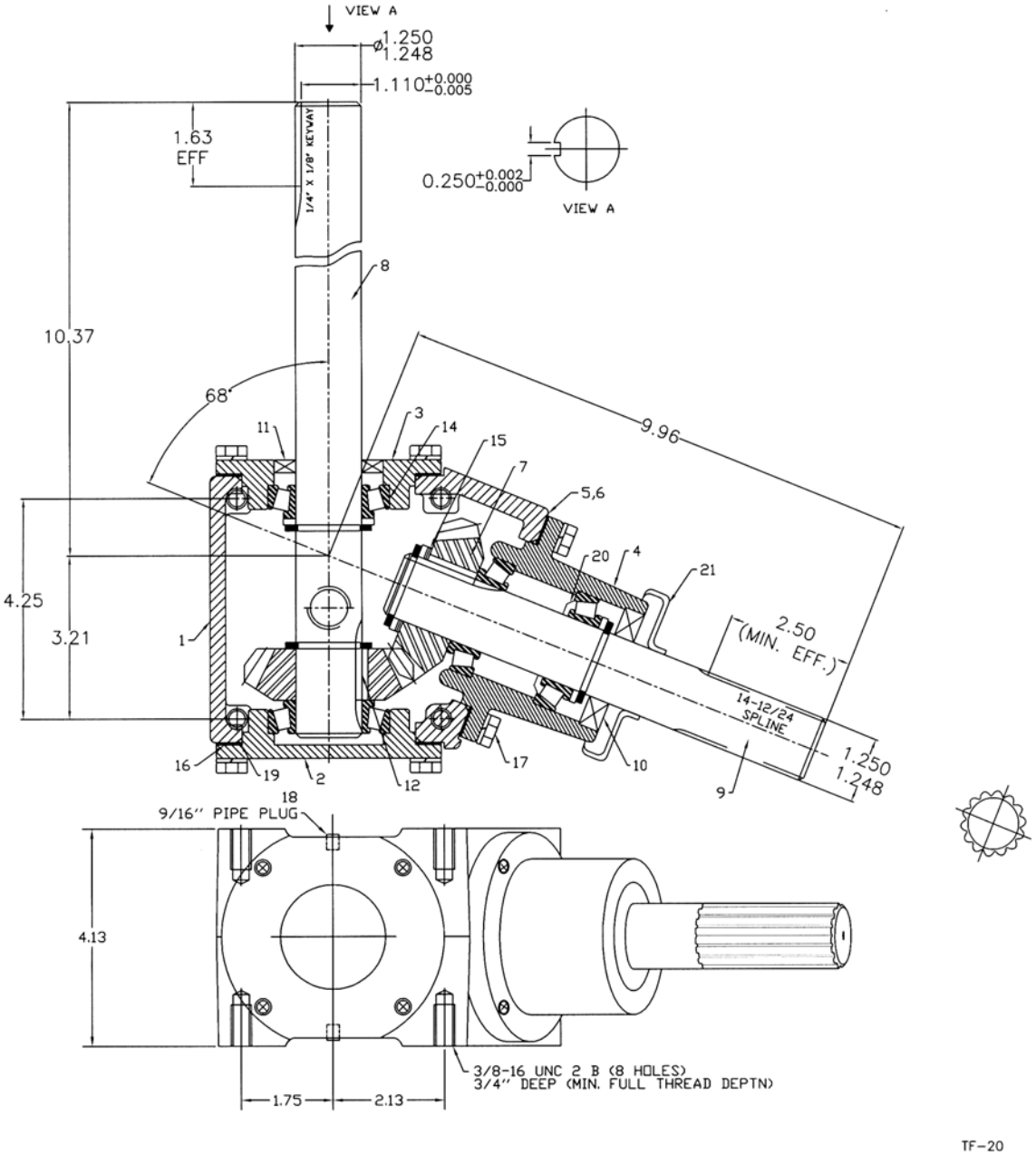
## 10” BACKSAVER AUGER PTO SHAFT



## 10" BACKSAVER AUGER PTO SHAFT PARTS LIST

| Item # | Part # | Description |
|---|---|---|
| | F9042 | Shaft Complete |
| | 936166 | Tractor Half of PTO (W/Shear) |
| | 936317 | Implement Half of PTO (W/CV) |
| 1 | 936167 | Ball Shear Assembly |
| 2 | 936168 | Spring Lock Repair Kit<br>(Ret. Ring, Collar, Spring 2-3/8" Balls) |
| 3 | 936248 | Shear Assembly Repair Kit<br>(3/8" x 1/2" Bolt, Blank, 24-1/4" Balls |
| 4 | 903296 | Shear bolt - 5/16" x 1" (Gr. 5) (Pack of 10) |
| 5 | 812362 | 5/16" Lock Nut |
| 6 | 906503 | Repair Kit - Extended Life (std.) |
| | 936093 | Repair Kit - Optional |
| 7 | 936318 | Clamp Yoke |
| 8 | 936181 | CV Centre Housing |
| 9 | 936180 | Yoke & Shaft |
| 10 | 936173 | Yoke & Tube |
| 11 | 936176 | Inner Guard |
| 12 | 936178 | Outer Guard |
| 13 | 936319 | Nylon Repair Kit (Brg. & Snap Ring) |
| 14 | 812364 | 1/2" Lock Nut |
| 15 | 81627 | 1/2" x 3" Hex Bolt |
| 16 | 936172 | Shear Flange Yoke |
| 17 | 936169 | Shear Flange Hub |

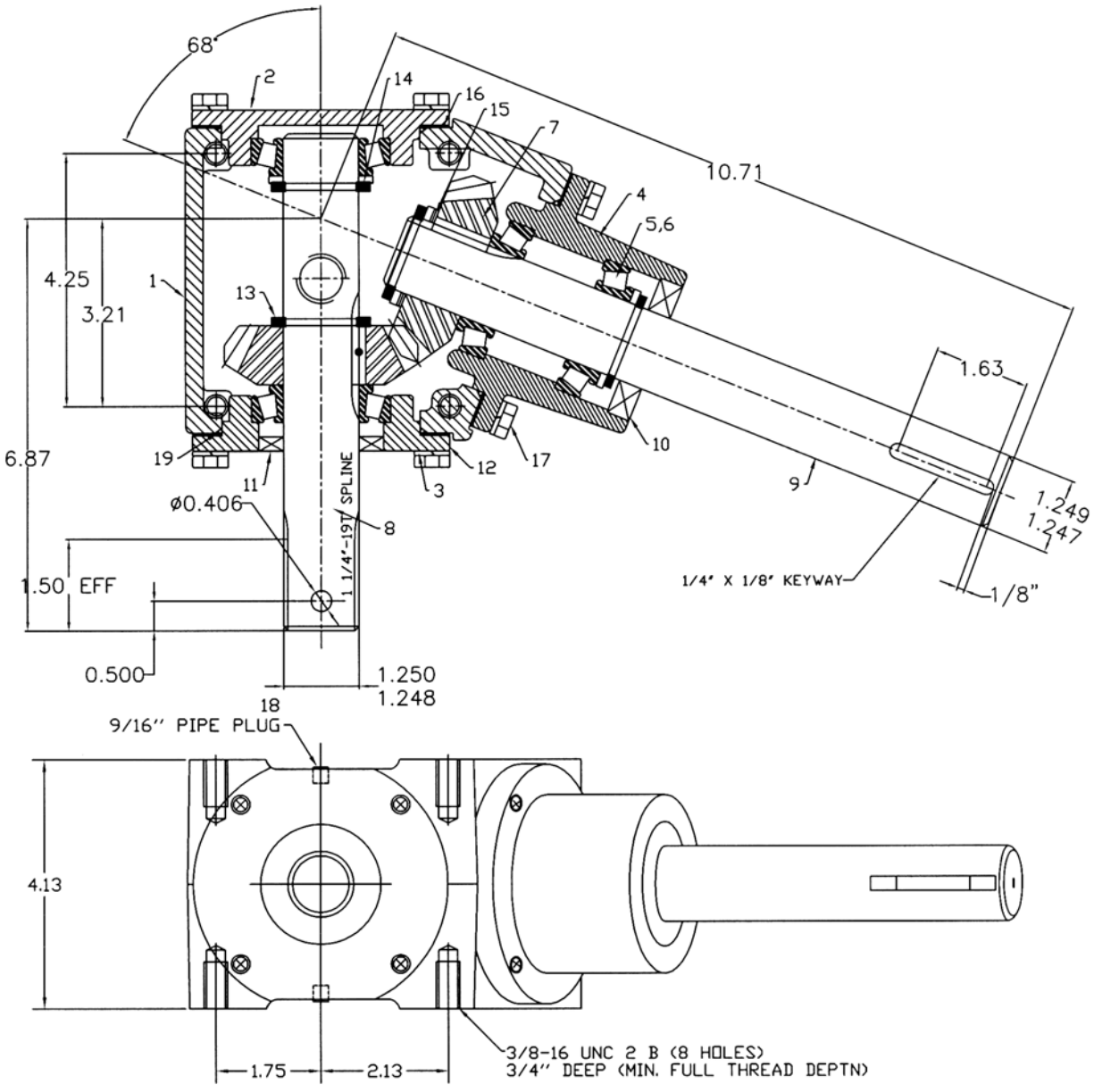
## 10” MECHANICAL DRIVE – INPUT BOX GEARBOX



## 10'' MECHANICAL DRIVE - INPUT BOX GEARBOX

| Item # | Part # | Description |
|---|---|---|
| | 960953 | Gearbox Complete |
| 1 | 960496 | Case |
| 2 | 960802 | End Cap |
| 3 | 960498 | End Cap |
| 4 | 960497 | Quill |
| 5 | 967712 | Bearing Cone LM67048 |
| 6 | 967711 | Bearing Cup LM67010 |
| 7 | 960505 | Gear, DP 6 Teeth 19 |
| 8 | 960512 | Shaft, Cross |
| 9 | 960955 | Shaft, Quill 14T |
| 10 | 960509 | Seal, (1.25x2.374x0.315) |
| 11 | 960510 | Seal, (1.25x2.00x0.315) |
| 12 | 960513 | Square Key, 1/4'' x 0.9'' |
| 13 | 966769 | Snap Ring |
| 14 | 9812442 | Spacer |
| 15 | 960504 | Spacer |
| 16 | 93009 | Gasket |
| 17 | 9812351 | Hex Bolt, 5/16'' - 18UNC x 3/4'' |
| 18 | 960818 | 9/16'' Pipe Plug w/ O-Ring |
| 19 | 906444 | O-Ring, 71mm x 1.8 |
| 20 | 960514 | Grease Washer |
| 21 | 960747 | Shield |

## 10” MECHANICAL DRIVE – INTAKE AUGER GEARBOX

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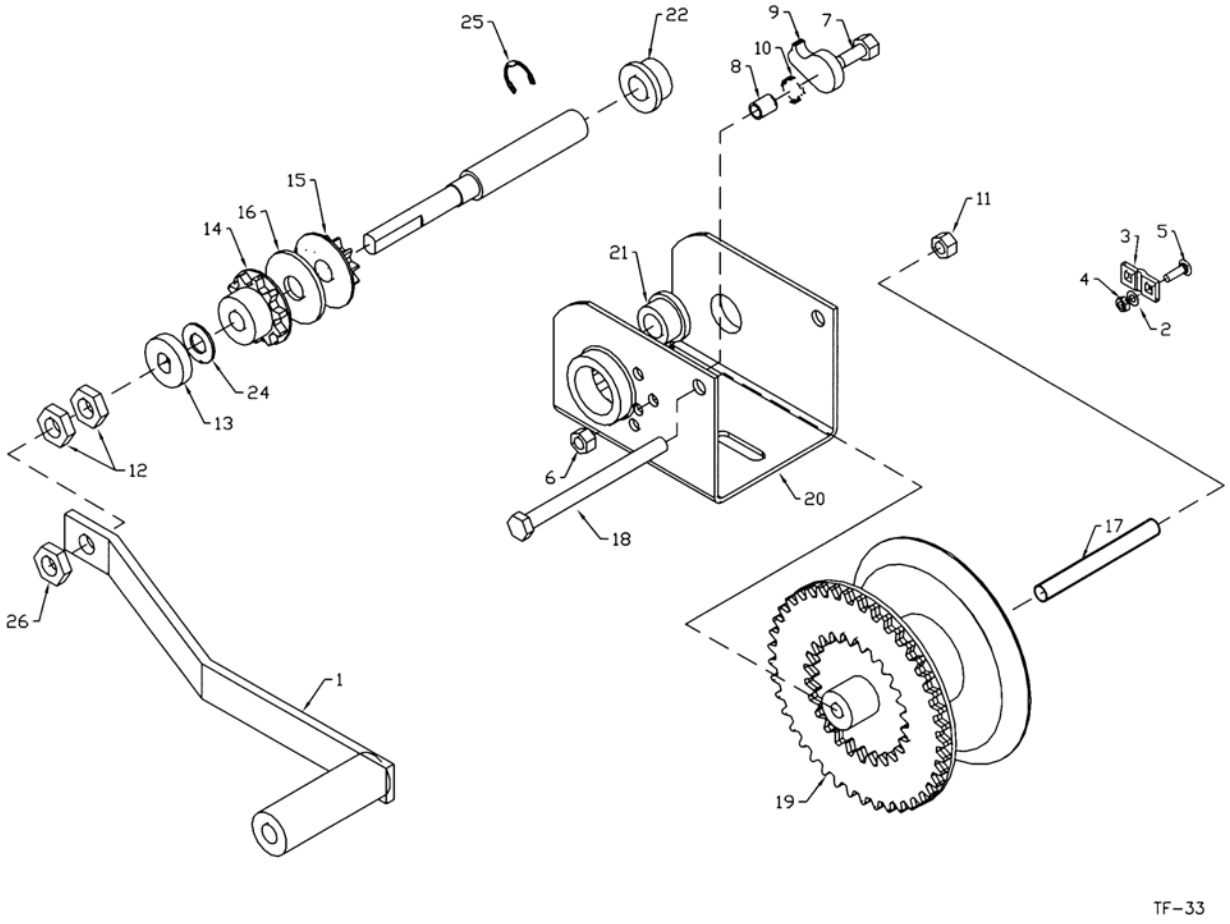
## 10" MECHANICAL DRIVE - INTAKE AUGER GEARBOX

| Item # | Part # | Description |
|---|---|---|
| | 960952 | Gearbox Complete |
| 1 | 960496 | Case |
| 2 | 960802 | End Cap |
| 3 | 960498 | End Cap |
| 4 | 960497 | Quill |
| 5 | 967712 | Bearing Cone LM67048 |
| 6 | 967711 | Bearing Cup LM67010 |
| 7 | 960505 | Gear, DP 6 Teeth 19 |
| 8 | 960944 | Shaft, Cross |
| 9 | 960954 | Shaft, Quill |
| 10 | 960509 | Seal, (1.25x2.374x0.315) |
| 11 | 960510 | Seal, (1.25x2.00x0.315) |
| 12 | 960513 | Square Key, 1/4" x 0.9" |
| 13 | 966769 | Snap Ring |
| 14 | 9812442 | Spacer |
| 15 | 960504 | Spacer |
| 16 | 93009 | Gasket |
| 17 | 9812351 | Capscrew, 5/16"-18UNCx3/4" |
| 18 | 960818 | 9/16" Pipe Plug w/ O-Ring |
| 19 | 906444 | O-Ring, 71mm x 1.8 |

## 1051 WINCH - #960150



## No. 1051 WINCH PARTS LIST - 960150

| Item # | Part # | Description |
|---|---|---|
| 1 | 2461S01 | Handle Assembly |
| | 5621S01 | CABLE KEEPER KIT |
| 2 | | Lockwasher #10 |
| 3 | | Cable Clamp |
| 4 | | Nut - #10-24, Hex |
| 5 | | Carriage Bolt #10-24 x .69Lg |
| | 6731S00 | RATCHET KIT |
| 6 | | Lock Nut - 5/16-18 |
| 7 | | Hex Bolt - 5/16-18 x 1.00 Lg Gr.5 |
| 8 | | Ratchet Spacer |
| 9 | | Ratchet Pawl |
| 10 | | Ratchet Spring |
| 11 | * | Lock Nut - 3/8-16 |
| 12 | * | Lock Nut - 1/2-13 |
| 13 | * | Disc - Brake |
| 14 | * | Ratchet Assembly |
| 15 | * | Pinion Gear Assembly |
| 16 | * | Friction Disc |
| 17 | * | Spacer - Drum, 3.81 Lg |
| 18 | * | Hex Bolt - 3/8-16 x 4.50 Lg Gr.2 |
| 19 | * | Drum Weldment |
| 20 | * | Frame - K1051 |
| 21 | * | Bushing - 1.25 ID x .50 Lg |
| 22 | * | Bushing - .758 ID x .50 Lg |
| 23 | * | Pinion Shaft |
| 24 | * | Nylon Washer |
| 25 | * | Retaining Ring - 3/4 |
| 26 | | Lock Nut - 1/2-13, Nylon |
| | | * Not Available |

## SHIPPING BUNDLES – FARM KING BACKSAVER AUGERS

| | | |
|---|---|---|
| (Options available) | F3004 | 10" Flexible Spout (Galvanized) |
| | F214 | 10" Poly Spout (Oval) |
| | Y208 | Set of 2 7.60 x 15 x 4 ply tires (non-highway rated) |
| | F7346 | Reverse Kit |
| | F9042 | PTO Shaft |
| | F9550 | Extreme–use PTO shaft (high moisture corn, peas, beans) |
| | F9043 | PTO Shaft for Reverse Kit (2 – 6 spline ends) |
| | F0331 | CE Approved CV PTO Shaft |
| | Y1105 | Multi-flighting hopper conversion |
| | Y1104 | Hopper Mover (hydraulic) |
| | F0017 | Safety Light Kit |
| | F0420 | Safety Chain Assembly |
| | Y120 | 10” x 10’ Extension Kit (for extending 10” x 70’ only) |
| | F0014 | Reflective Safety Decal Kit |
| | F0389 | Clevis Hitch |

| QUANTITY REQUIRED | BUNDLE NUMBER | DESCRIPTION |
|---|---|---|

### 10" x 50' BACKSAVER AUGER (Y1050TM)

| | | |
|---|---|---|
| 1 only | F9070 | Top Section, 10" x 50' |
| 1 only | F0205 | Bottom Section, 10" x 50' |
| 1 only | F0171 | Axle, 10" x 50' |
| 1 only | F9253 | Right Arm, 10" x 50' |
| 1 only | F9252 | Left Arm, 10" x 50' |
| 1 only | F9021 | Upper Lift Arm, 10" x 50' |
| 1 only | F9024 | Lower Lift Arm, 10" x 50' |
| 1 only | F0101 | Intake Auger |
| 1 only | F9181 | Intake Hopper |
| 1 only | F9042 | PTO Shaft |
| 1 only | F0629 | Crate of Parts |
| 1 only | F0802 | Input Box |
| 2 only | F0110 | 15" x 5" x 5 Bolt Wheels Only |
| 1 only | F0067 | Carton of Parts |

**10" x 50' BACKSAVER AUGER W/REVERSE KIT - (Y1050TMR)**

| | | |
|---|---|---|
| 1 only | F9070 | Top Section, 10" x 50' |
| 1 only | F0205 | Bottom Section, 10" x 50' |
| 1 only | F0171 | Axle, 10" x 50' |
| 1 only | F9253 | Right Arm, 10" x 50' |
| 1 only | F9252 | Left Arm, 10" x 50' |
| 1 only | F9021 | Upper Lift Arm, 10" x 50' |
| 1 only | F9024 | Lower Lift Arm, 10" x 50' |
| 1 only | F0101 | Intake Auger |
| 1 only | F9181 | Intake Hopper |
| 1 only | F9043 | PTO Shaft |
| 1 only | F0629 | Crate of Parts |
| 1 only | F0803 | Input Box |
| 2 only | F0110 | 15" x 5" x 5 Bolt Wheels Only |
| 1 only | F0067 | Carton of Parts |

**10" x 50' BACKSAVER AUGER W/MULTI-FLIGHTING INTAKE HOPPER (Y1050TMM)**

| | | |
|---|---|---|
| 1 only | F9070 | Top Section, 10" x 50' |
| 1 only | F0205 | Bottom Section, 10" x 50' |
| 1 only | F0171 | Axle, 10" x 50' |
| 1 only | F9253 | Right Arm, 10" x 50' |
| 1 only | F9252 | Left Arm, 10" x 50' |
| 1 only | F9021 | Upper Lift Arm, 10" x 50' |
| 1 only | F9024 | Lower Lift Arm, 10" x 50' |
| 1 only | F0101 | Intake Auger |
| 1 only | F0193 | Multi-Flighting Hopper |
| 1 only | F9042 | PTO Shaft |
| 1 only | F0629 | Crate of Parts |
| 1 only | F0802 | Input Box |
| 2 only | F0110 | 15" x 5" x 5 Bolt Wheels Only |
| 1 only | F0070 | Carton of Parts |

## 10" x 50' BACKSAVER AUGER W/MULTI-FLIGHTING INTAKE HOPPER AND REVERSE KIT (Y1050TMMR)

| | | |
|---|---|---|
| 1 only | F9070 | Top Section, 10" x 50' |
| 1 only | F0205 | Bottom Section, 10" x 50' |
| 1 only | F0171 | Axle, 10" x 50' |
| 1 only | F9253 | Right Arm, 10" x 50' |
| 1 only | F9252 | Left Arm, 10" x 50' |
| 1 only | F9021 | Upper Lift Arm, 10" x 50' |
| 1 only | F9024 | Lower Lift Arm, 10" x 50' |
| 1 only | F0101 | Intake Auger |
| 1 only | F0193 | Multi-Flighting Hopper |
| 1 only | F9043 | PTO Shaft |
| 1 only | F0629 | Crate of Parts |
| 1 only | F0803 | Input Box |
| 2 only | F0110 | 15" x 5" x 5 Bolt Wheels Only |
| 1 only | F0070 | Carton of Parts |

## 10" x 60' BACKSAVER AUGER (Y1060TM)

| | | |
|---|---|---|
| 1 only | F9071 | Top Section, 10" x 60' |
| 1 only | F9073 | Center Section, 10" x 60' |
| 1 only | F0206 | Bottom Section, 10" x 60' |
| 1 only | F0172 | Axle, 10" x 60' |
| 1 only | F9251 | Right Arm, 10" x 60' |
| 1 only | F9250 | Left Arm, 10" x 60' |
| 1 only | F9022 | Upper Lift Arm, 10" x 60' |
| 1 only | F9025 | Lower Lift Arm, 10" x 60' |
| 1 only | F0101 | Intake Auger |
| 1 only | F9181 | Intake Hopper |
| 1 only | F9042 | PTO Shaft |
| 1 only | F0630 | Crate of Parts |
| 1 only | F0802 | Input Box |
| 2 only | F0110 | 15" x 5" x 5" Bolt Wheels Only |
| 1 only | F0067 | Carton of Parts |

## 10" x 60' BACKSAVER AUGER W/REVERSE KIT (Y1060TMR)

| | | |
|---|---|---|
| 1 only | F9071 | Top Section, 10" x 60' |
| 1 only | F9073 | Center Section, 10" x 60' |
| 1 only | F0206 | Bottom Section, 10" x 60' |
| 1 only | F0172 | Axle, 10" x 60' |
| 1 only | F9251 | Right Arm, 10" x 60' |
| 1 only | F9250 | Left Arm, 10" x 60' |
| 1 only | F9022 | Upper Lift Arm, 10" x 60' |
| 1 only | F9025 | Lower Lift Arm, 10" x 60' |
| 1 only | F0101 | Intake Auger |
| 1 only | F9181 | Intake Hopper |
| 1 only | F9043 | PTO Shaft |
| 1 only | F0630 | Crate of Parts |
| 1 only | F0803 | Input Box |
| 2 only | F0110 | 15" x 5" x 5" Bolt Wheels Only |
| 1 only | F0067 | Carton of Parts |

## 10" x 60' BACKSAVER AUGER W/MULTI-FLIGHTING INTAKE HOPPER (Y1060TMM)

| | | |
|---|---|---|
| 1 only | F9071 | Top Section, 10" x 60' |
| 1 only | F9073 | Center Section, 10" x 60' |
| 1 only | F0206 | Bottom Section, 10" x 60' |
| 1 only | F0172 | Axle, 10" x 60' |
| 1 only | F9251 | Right Arm, 10" x 60' |
| 1 only | F9250 | Left Arm, 10" x 60' |
| 1 only | F9022 | Upper Lift Arm, 10" x 60' |
| 1 only | F9025 | Lower Lift Arm, 10" x 60' |
| 1 only | F0101 | Intake Auger |
| 1 only | F0193 | Multi-Flighting Hopper |
| 1 only | F9042 | PTO Shaft |
| 1 only | F0630 | Crate of Parts |
| 1 only | F0802 | Input Box |
| 2 only | F0110 | 15" x 5" x 5" Bolt Wheels Only |
| 1 only | F0070 | Carton of Parts |

**10" x 60' BACKSAVER AUGER W/MULTI-FLIGHTING INTAKE HOPPER AND REVERSE KIT (1060TMMR)**

| | | |
|---|---|---|
| 1 only | F9071 | Top Section, 10" x 60' |
| 1 only | F9073 | Center Section, 10" x 60' |
| 1 only | F0206 | Bottom Section, 10" x 60' |
| 1 only | F0172 | Axle, 10" x 60' |
| 1 only | F9251 | Right Arm, 10" x 60' |
| 1 only | F9250 | Left Arm, 10" x 60' |
| 1 only | F9022 | Upper Lift Arm, 10" x 60' |
| 1 only | F9025 | Lower Lift Arm, 10" x 60' |
| 1 only | F0101 | Intake Auger |
| 1 only | F0193 | Multi-Flighting Hopper |
| 1 only | F9043 | PTO Shaft |
| 1 only | F0630 | Crate of Parts |
| 1 only | F0803 | Input Box |
| 2 only | F0110 | 15" x 5" x 5" Bolt Wheels Only |
| 1 only | F0070 | Carton of Parts |

**10" x 70' BACKSAVER AUGER (Y1070TM)**

| | | |
|---|---|---|
| 1 only | F9072 | Top Section, 10" x 70' |
| 1 only | F9074 | Center Section, 10" x 70' |
| 1 only | F0207 | Bottom Section, 10" x 70' |
| 1 only | F0173 | Axle, 10" x 70' |
| 1 only | F9249 | Right Arm, 10" x 70' |
| 1 only | F9248 | Left Arm, 10" x 70' |
| 1 only | F9023 | Upper Lift Arm, 10" x 70' |
| 1 only | F9026 | Lower Lift Arm, 10" x 70' |
| 1 only | F0101 | Intake Auger |
| 1 only | F9181 | Intake Hopper |
| 1 only | F9042 | PTO Shaft |
| 1 only | F0631 | Crate of Parts |
| 1 only | F0802 | Input Box |
| 2 only | F0110 | 15" x 5" x 5" Bolt Wheels Only |
| 1 only | F0067 | Carton of Parts |

## 10" x 70' BACKSAVER AUGER W/REVERSE KIT (Y1070TMR)

| | | |
|---|---|---|
| 1 only | F9072 | Top Section, 10" x 70' |
| 1 only | F9074 | Center Section, 10" x 70' |
| 1 only | F0207 | Bottom Section, 10" x 70' |
| 1 only | F0173 | Axle, 10" x 70' |
| 1 only | F9249 | Right Arm, 10" x 70' |
| 1 only | F9248 | Left Arm, 10" x 70' |
| 1 only | F9023 | Upper Lift Arm, 10" x 70' |
| 1 only | F9026 | Lower Lift Arm, 10" x 70' |
| 1 only | F0101 | Intake Auger |
| 1 only | F9181 | Intake Hopper |
| 1 only | F9043 | PTO Shaft |
| 1 only | F0631 | Crate of Parts |
| 1 only | F0803 | Input Box |
| 2 only | F0110 | 15" x 5" x 5" Bolt Wheels Only |
| 1 only | F0067 | Carton of Parts |

## 10" x 70' BACKSAVER AUGER W/MULTI-FLIGHTING HOPPER (Y1070TMM)

| | | |
|---|---|---|
| 1 only | F9072 | Top Section, 10" x 70' |
| 1 only | F9074 | Center Section, 10" x 70' |
| 1 only | F0207 | Bottom Section, 10" x 70' |
| 1 only | F0173 | Axle, 10" x 70' |
| 1 only | F9249 | Right Arm, 10" x 70' |
| 1 only | F9248 | Left Arm, 10" x 70' |
| 1 only | F9023 | Upper Lift Arm, 10" x 70' |
| 1 only | F9026 | Lower Lift Arm, 10" x 70' |
| 1 only | F0101 | Intake Auger |
| 1 only | F0193 | Multi-Flighting Hopper |
| 1 only | F9042 | PTO Shaft |
| 1 only | F0631 | Crate of Parts |
| 1 only | F0802 | Input Box |
| 2 only | F0110 | 15" x 5" x 5" Bolt Wheels Only |
| 1 only | F0070 | Carton of Parts |

**10" x 70' BACKSAVER AUGER W/MULTI-FLIGHTING HOPPER AND REVERSE KIT (Y1070TMMR)**

| | | |
|---|---|---|
| 1 only | F9072 | Top Section, 10" x 70' |
| 1 only | F9074 | Center Section, 10" x 70' |
| 1 only | F0207 | Bottom Section, 10" x 70' |
| 1 only | F0173 | Axle, 10" x 70' |
| 1 only | F9249 | Right Arm, 10" x 70' |
| 1 only | F9248 | Left Arm, 10" x 70' |
| 1 only | F9023 | Upper Lift Arm, 10" x 70' |
| 1 only | F9026 | Lower Lift Arm, 10" x 70' |
| 1 only | F0101 | Intake Auger |
| 1 only | F0193 | Multi-Flighting Hopper |
| 1 only | F9043 | PTO Shaft |
| 1 only | F0631 | Crate of Parts |
| 1 only | F0803 | Input Box |
| 2 only | F0110 | 15" x 5" x 5" Bolt Wheels Only |
| 1 only | F0070 | Carton of Parts |

# NOTES

# NOTES

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