bühler

farm king

10" Backsaver Auger

Operator's and Parts Manual
FK306

2006

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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.

> 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.

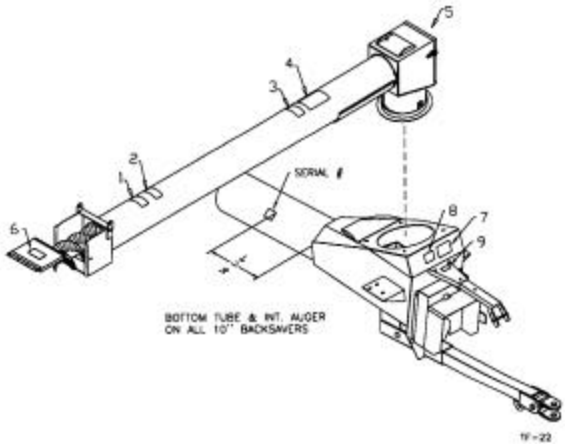
As a precaution, when storing auger, park it on level ground so that the bottom end will never be over its center of gravity.

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.

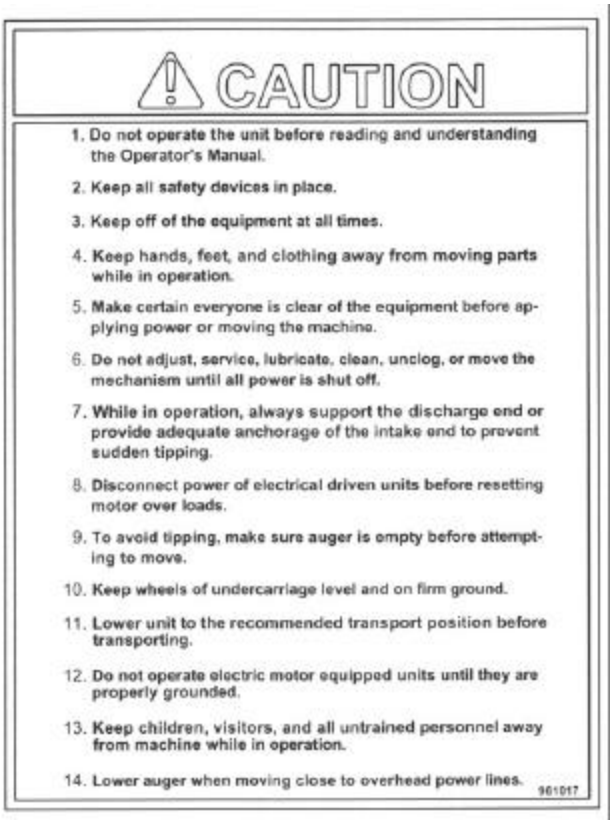
Keep all safety shields and devices in place.

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

#2



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

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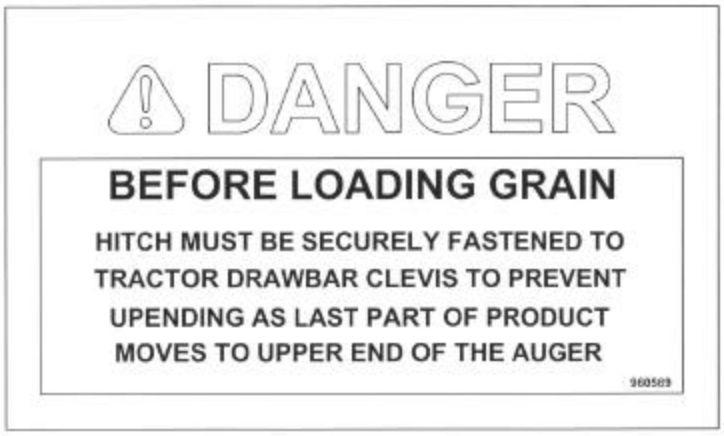

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OPERATING INSTRUCTIONS

All augers may be elevated up to 45?; however, for the best operating efficiency, 35? should not be exceeded. At angles over 35? 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.

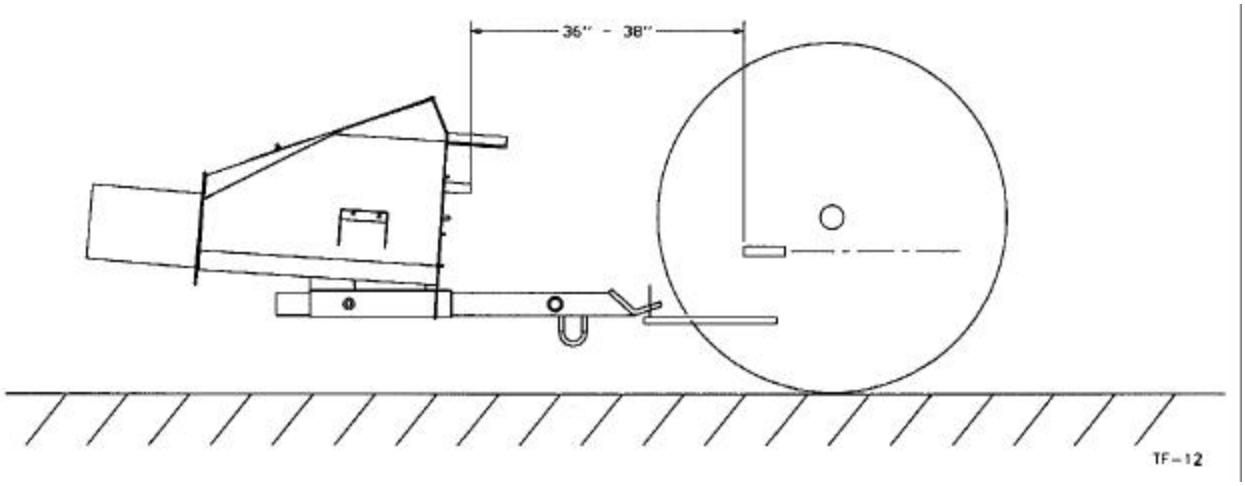
⚠ **ALERT**: Be sure winch brake is working properly before transporting. An arrow on the winch shows the proper direction of rotation. Improper rotation may cause winch failure. Never have less than three wraps of cable on the drum of the winch.

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

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.

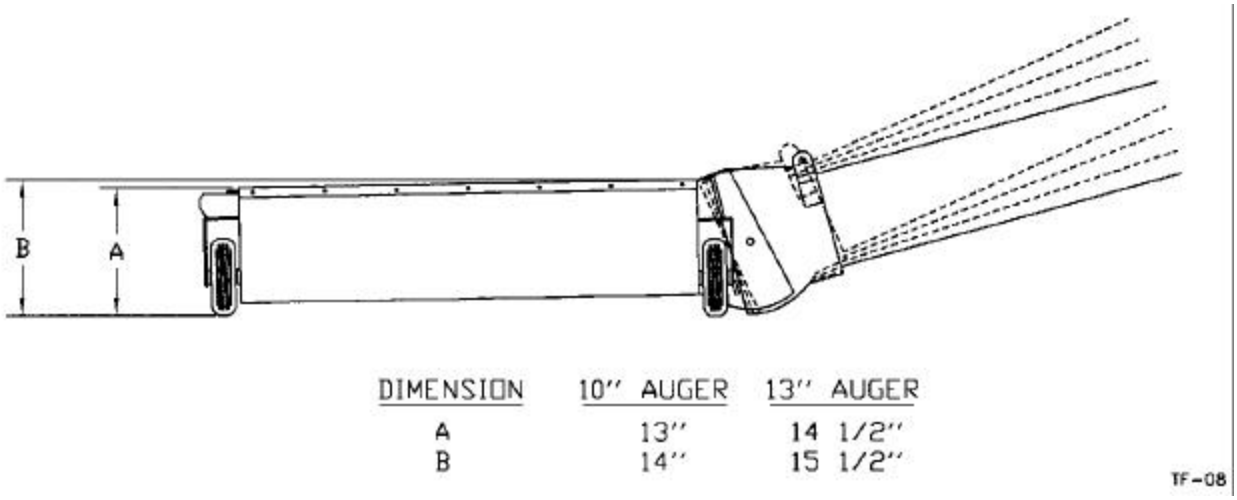
ALERT: If the PTO shaft angle exceeds 50? during a tight turn, the constant velocity joints will be fractured and will likely fail shortly thereafter during operation.

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



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.

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.

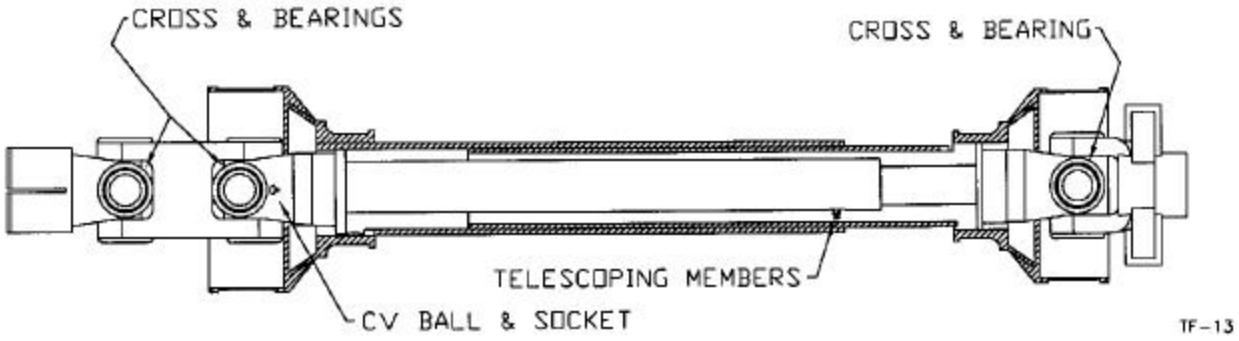
RECOMMENDED CUSTOMER GREASING PROCEDURE FOR 50” C.V. PTO

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 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.

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? are bolted to the arch. The other end bolts to the undercarriage.

ASSEMBLY & INSTRUCTIONS – cont’d.

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.

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.

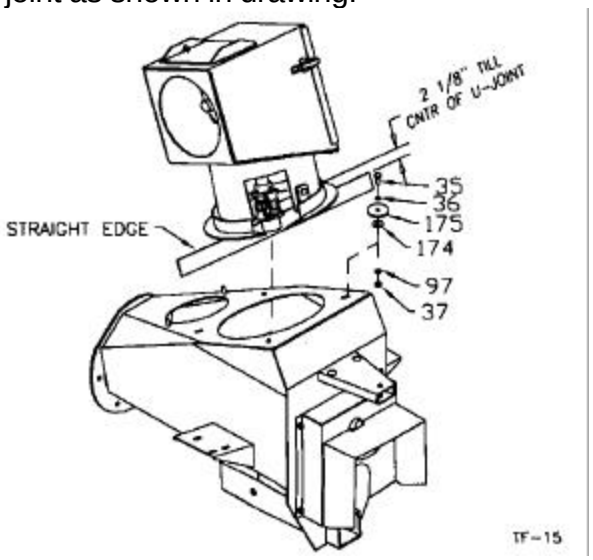
⚠ **ALERT:** The welded cross brace on the pivot yoke should be facing the input box end of the auger.

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.

ASSEMBLY & INSTRUCTIONS – cont’d.

16. Using 3/8” x ½” sq. hd. set screws (#176) moung 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.



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.

ASSEMBLY & INSTRUCTIONS – cont’d.

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.

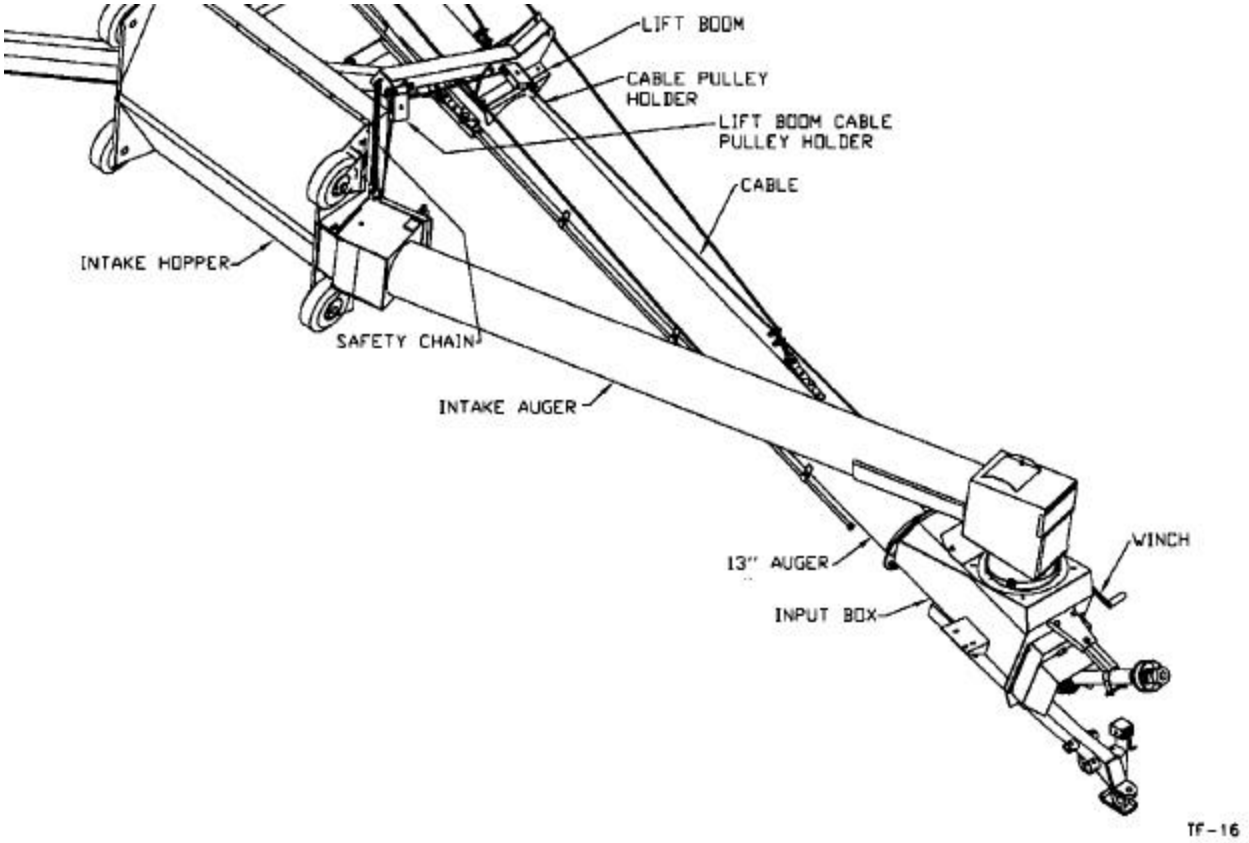
18. **Standard Hopper only:** Bolt the 6” wide rubber edging supplied to the top edge of the hopper on the inside using ¼” x 1” hex bolts, lock washers and hex nuts. The 1” side strips supplied bolt to the rubber on the inside of the hopper and help keep the rubber from tearing. The ends of the rubber strips are joined using 3” x 3” plates with ¼” x 1” hex bolts.

Multi-flighting Hopper only:
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 (see #20).



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.

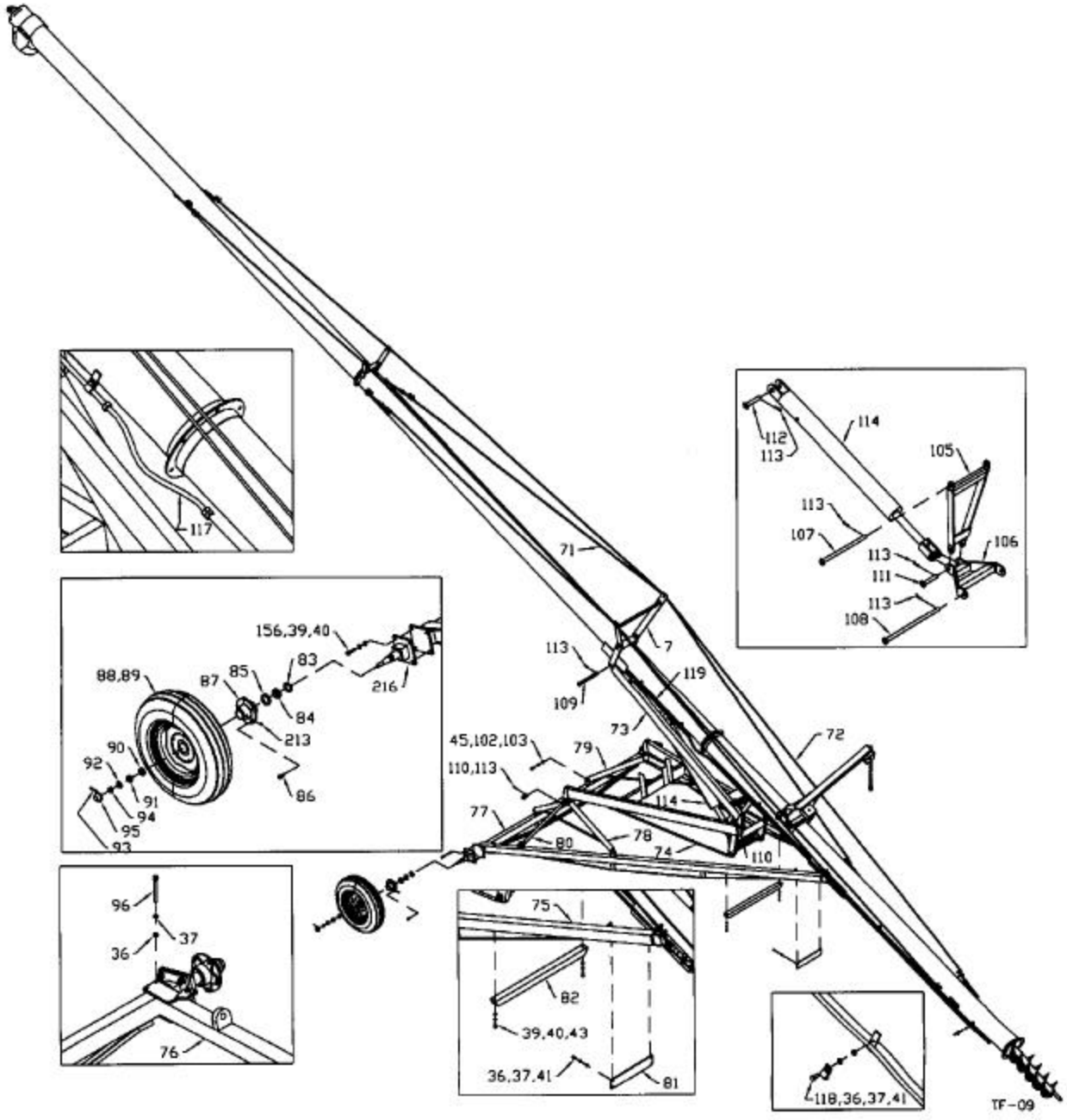
ASSEMBLY & INSTRUCTIONS – cont’d.

20. Re-check and tighten all bolts.

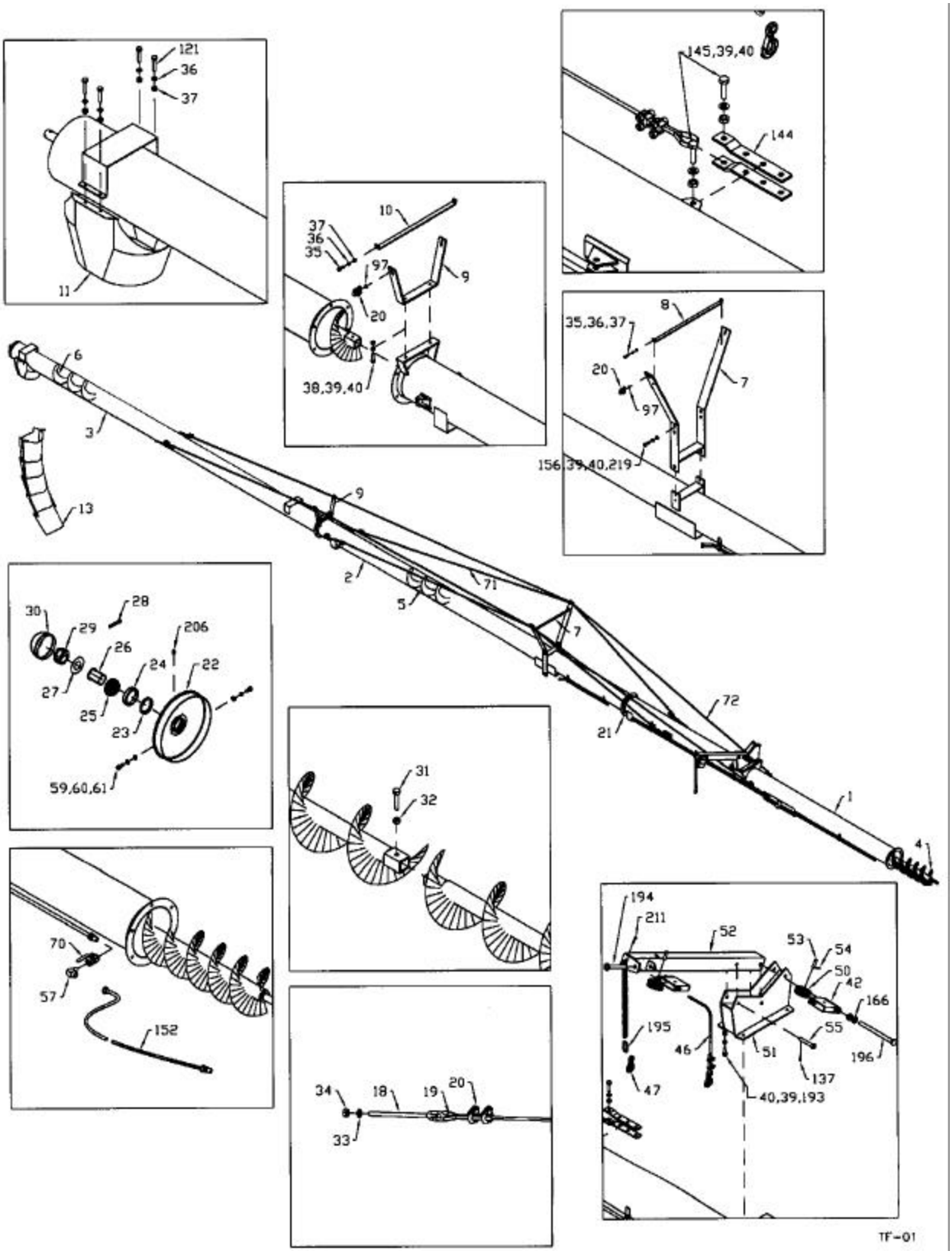
21. Immediately after setting up the auger, hook it up to a tractor. Raise and lower the auger three or four times to purge all the air out of the hydraulic line to the lift cylinder. This will help to prevent the auger from settling when you have it in working position above a bin.

⚠ **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.

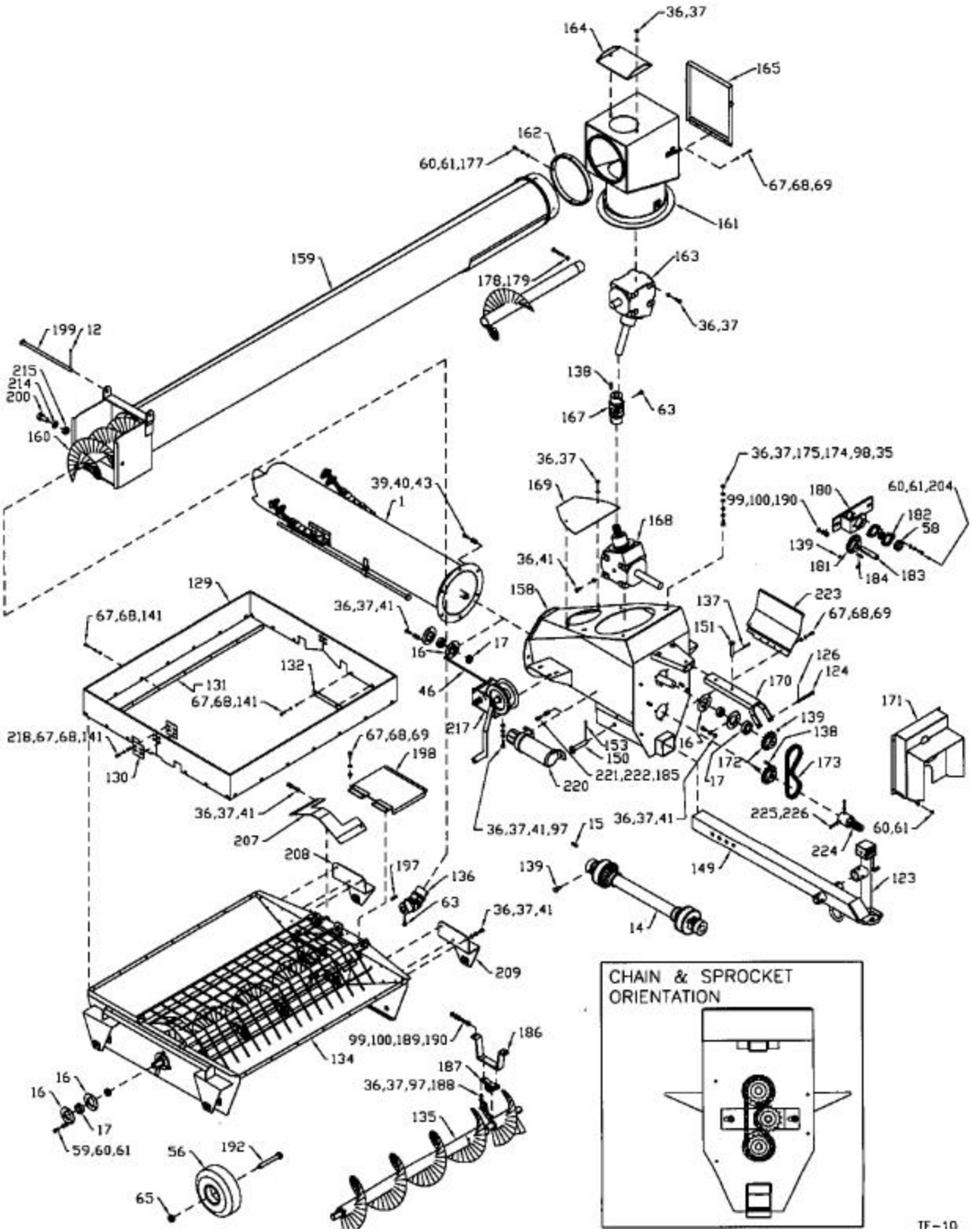
10” BACKSAVER AUGER



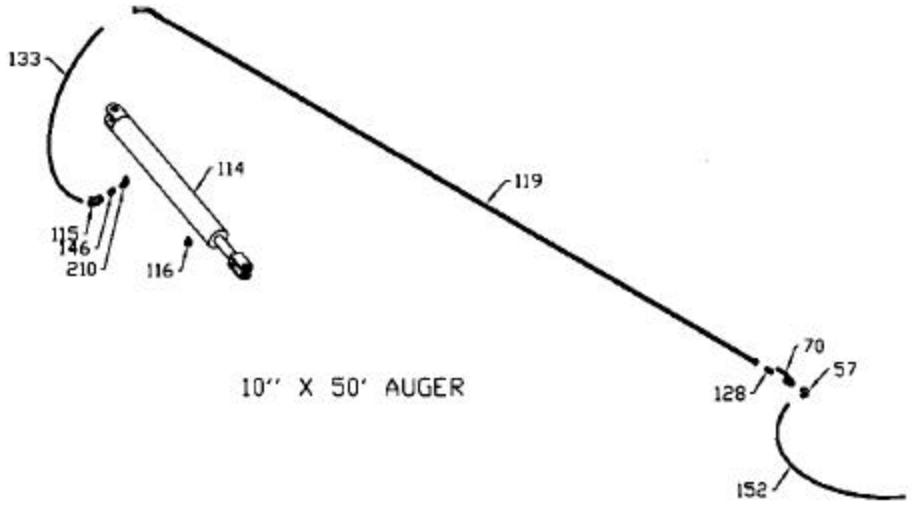
10” BACKSAVER AUGER



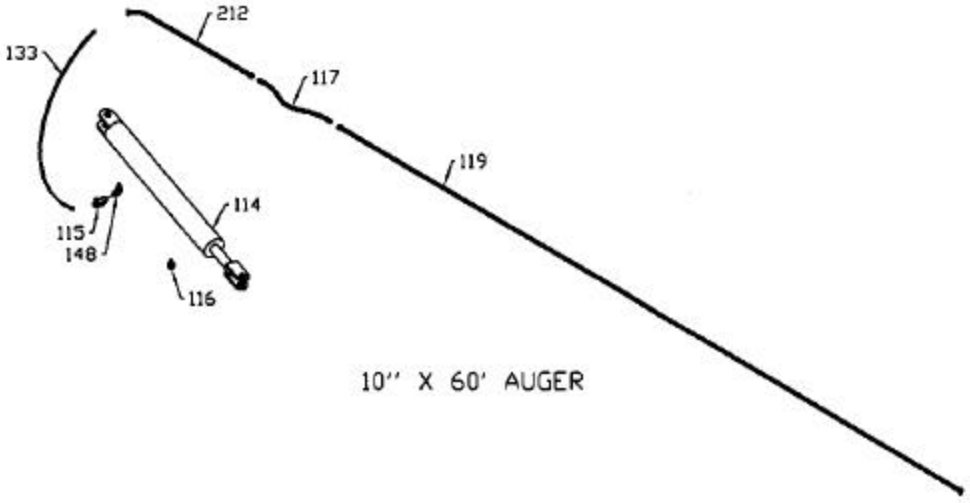
10” BACKSAVER AUGER



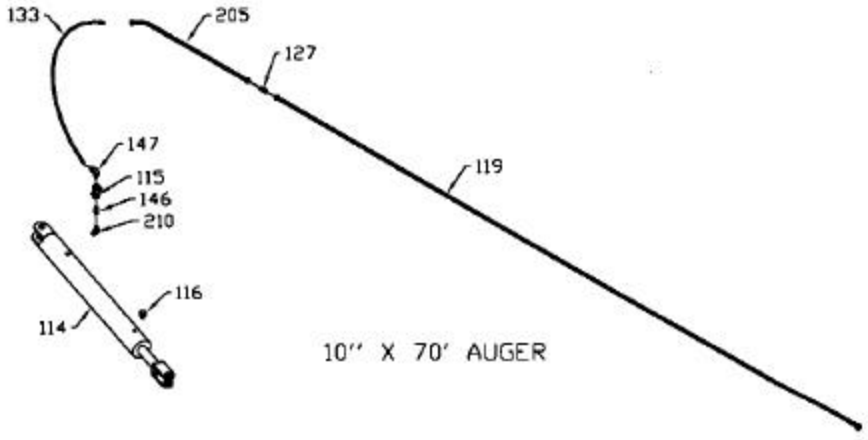
10” AUGER – TOP FEED HYDRAULIC SYSTEMS



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' (Mech.)
	905645	17'4" Bottom Tube, 60' (Mech.)
	905646	27'4" Bottom Tube, 70' (Mech.)
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' (Mech.)
	960543	20' Bottom Flighting, 60' (Mech.)
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 Brg. (72MS) Pair Pl
17	961676	1 1/4" Bearing w/ Collar (GBox Shaft)
	960749	1 1/4" Bearing w/ Collar (Fltg Shaft)
		* This Bearing Has a Triple Lip Seal

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 (83 & Up)
32	812364	1/2" Lock Nut (83' & Up)
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) (All Sizes)
	960206	3/16" x 28' Cable Only
47	960041	Lift Cable Hook
48	84154	3/16" Thimble
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
62	84072	3/8" x 3/4" Hex Bolt
63	9812378	3/8" x 3/4" Sq. Hd. Set Screw (SER)
64	81671	5/8" x 4" Hex Bolt
65	812482	5/8" Lock Nut
66	9812350	1/4" x 2 1/4" Hex Bolt
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 22'-11" Cable (50' Assembled)
	960220	3/8" x 22'-11" Cable Only
	960221	3/8" x 28'-4" Cable (60' Assembled)
	960222	3/8" x 28'-4" Cable Only
	960223	1/2" x 32'-7" Cable (70' Assembled)
	960224	1/2" x 32'-7" Cable Only
72	960225	3/8" x 37'-8" Cable (50' Assembled)
	960226	3/8" x 37'-8" Cable Only
	960227	3/8" x 44'-10" Cable (60' Assembled)
	960228	3/8" x 44'-10" Cable Only
	960229	1/2" x 56'-3" 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'' R.H. Undercarriage Arch, 50'
	960080	80'' R.H. Undercarriage Arch, 60'
	960081	85'' R.H. Undercarriage Arch, 70'
79	960082	54 1/2'' L.H. Undercarriage Arch, 50'
	960083	80'' L.H. Undercarriage Arch, 60'
	960084	85'' L.H. 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 ('81 & Up)
	968431	5 bolt Hub CTD H516 Complete Assembly
88	F0110	15'' x 5'' x 5 Bolt Wheel ('81 & Up)
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'

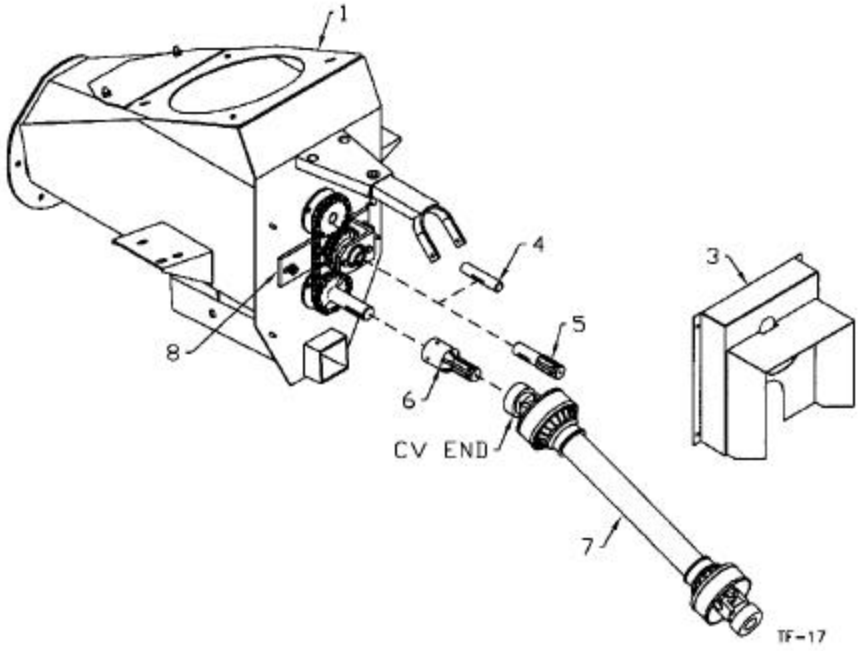
106	960096	Connecting Link, 50'
	960097	Connecting Link, 60'
	960098	Connecting Link, 70'
107	960099	1" x 16 1/8" Yoke Pin, 50'
	960100	1" x 17 7/8" Yoke Pin, 60'
	960101	1 1/4" x 22" Yoke Pin, 70'
108	960102	1" x 20" Connecting Link Pin, 50'
	960103	1" x 22" Connecting Link Pin, 60'
	960104	1 1/4" x 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 (Both Ends Solid - Both End JIC) - 60'
118	960140	Hydraulic Clamp (Single, '83 & up)
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	811795	3/8" x 2" Hex Bolt
122	812363	3/8" Lock Nut
123	960327	Jack ('87)
124	961539	3/8" x 4 1/2" PTO Holder Pin
125	84217	3/8" Wing Nut
126	12780	Spring Clip (#7)
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)
		(One End 1/2" NPT)(One End JIC)
134	960940	Intake Hopper Weld't
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	903275	1/4" x 1 1/2" Key (Alloy)
139	988999	3/8" x 3/8" Socket Set Screw
140	967218	1" I.D. Flat Washer
141	81527	1/4" x 1" Hex Bolt
142	81570	5/16" Flat Washer
143	968601	5/16" Wing Nut
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
154	81597	7/16" x 1" Hex Bolt
155	84041	7/16" S.A.E. Flat Washer
156	87553	1/2" x 1 3/4" Hex Bolt
157	811646	1/2" x 6" Hex Bolt
158	960924	Input Box
159	960754	Intake Auger Tube
160	960941	Intake Auger Flighting
	903213	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 Clean-Out Lid
165	905665	Door Weld't 14 1/8" x 15 1/4"
166	86111	3/4" Jam Nut (pl)
167	960393	U-Joint
	906546	Extended Life Repair Kit (std.)
	936224	Repair Kit (Optional)

168	960953	Input Box Gearbox
169	960925	Input Box Clean-Out
170	960459	PTO Holder - 14"
	960181	PTO Holder -19" (Reverse Model)
171	960926	Chain Cover
172	961684	15T Sprkt. #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
176	812037	3/8" Diam x 3/4" Sq Hd. Set Screw
177	967163	5/16" x 3/4" Flat Hd. Socket Hex Bolt
178	967906	3/8" x 2 3/4" Hex Bolt (Gr 8)
179	812363	3/8" Lock Nut
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" Brg. 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)
185	81568	5/16" Hex Nut
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
191	81570	5/16" B.S. Flat Washer
192	81672	5/8" x 4 1/2" Hex Bolt
193	84277	1/2" x 1 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
201	812482	5/8" Lock Nut
202	812365	3/4" Lock Nut
203	81702	3/4" B.S. Flat Washer
204	967183	5/16" x 1" Flat Hd. Bolt

205	960144	5/8" O.D. x 11' Hydraulic Line - 70'
206	967164	Pound-In Grease Nipple
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 (pl)
212	960143	5/8" O.D.. x 36" Hydraulic Line - 60'
213	84583	Grease Fitting 1/8" NPT STR
214	81702	13/16" HS Flat Washer Std. (pl)
215	81700	3/4" Hex Nut (pl)
216	906437	Stub Axle Weldment
217	960150	K1050 Winch W/ Handle
218	81546	1/4" B.S. Flat Washer (pl)
219	81638	1/2" Flat Washer
220	909277	Manual Holder
221	81549	5/16" x 3/4" Hex Bolt
222	81569	5/16" Lock Washer
223	905620	Clean Out Lid Weld't
224	960539	Adaptor, Pump 1 1/4" (6 Spl)
225	81213	Setscrew Sqhdcup 3/8" x 1" (pl)
226	986045	3/8" Nut Hex Jam Gr. 2 (pl)

10” MECHANICAL DRIVE AUGER REVERSE KIT

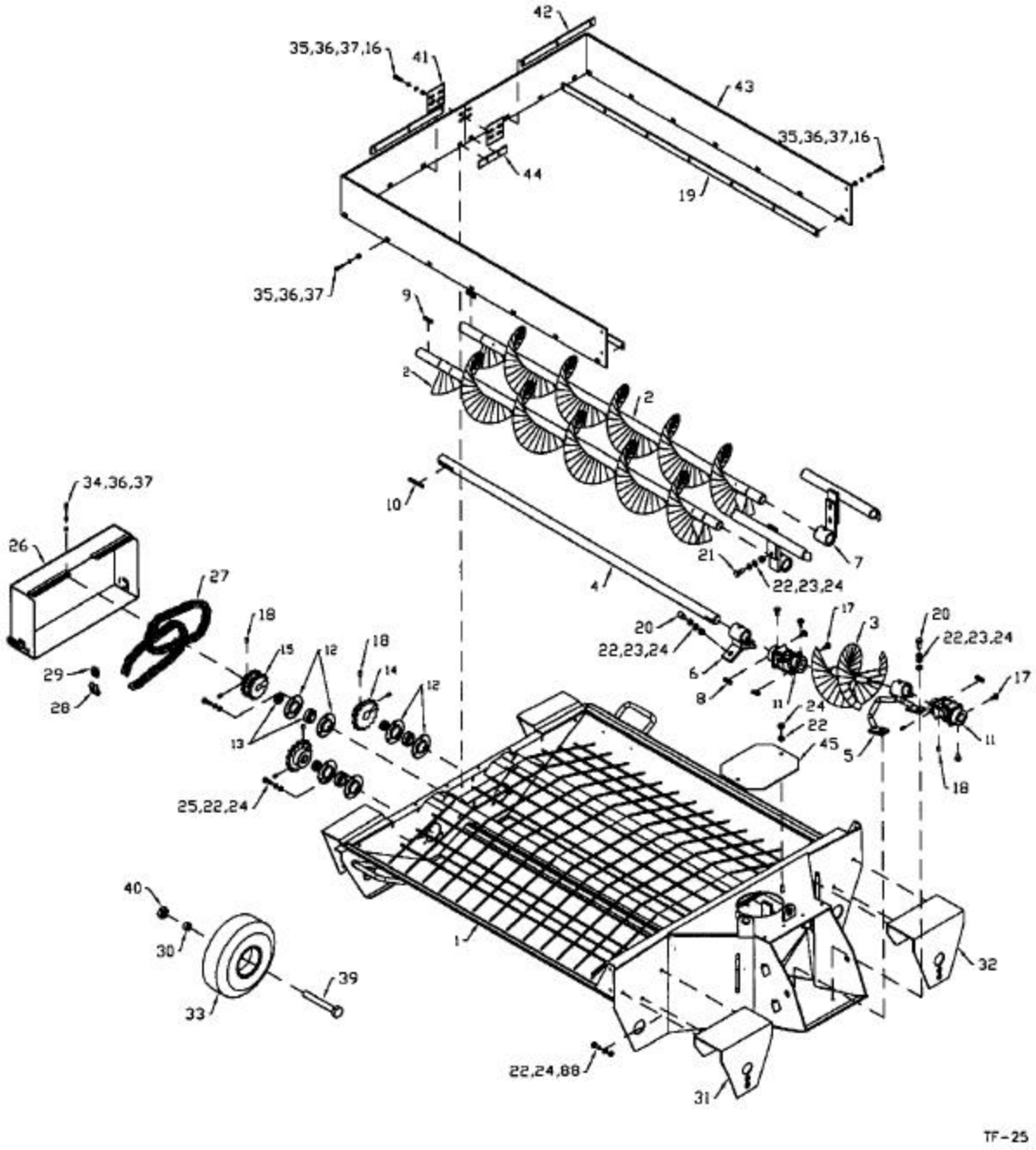


10" Mechanical Drive Auger Reverse Kit Parts List

Item #	Part #	Description
1	960924	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

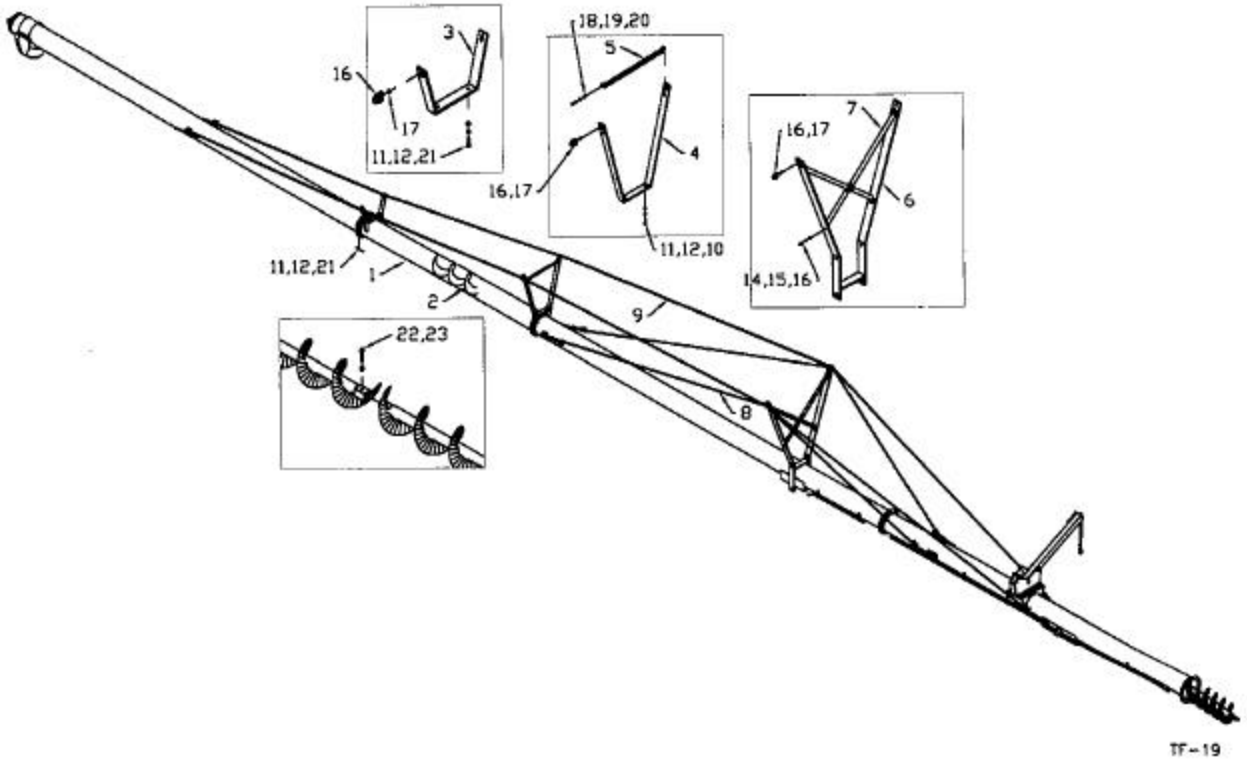
NOTE: This extension can be used to extend the 70’ Auger to 80’ only. It is not made to be used on any other size of auger.

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.

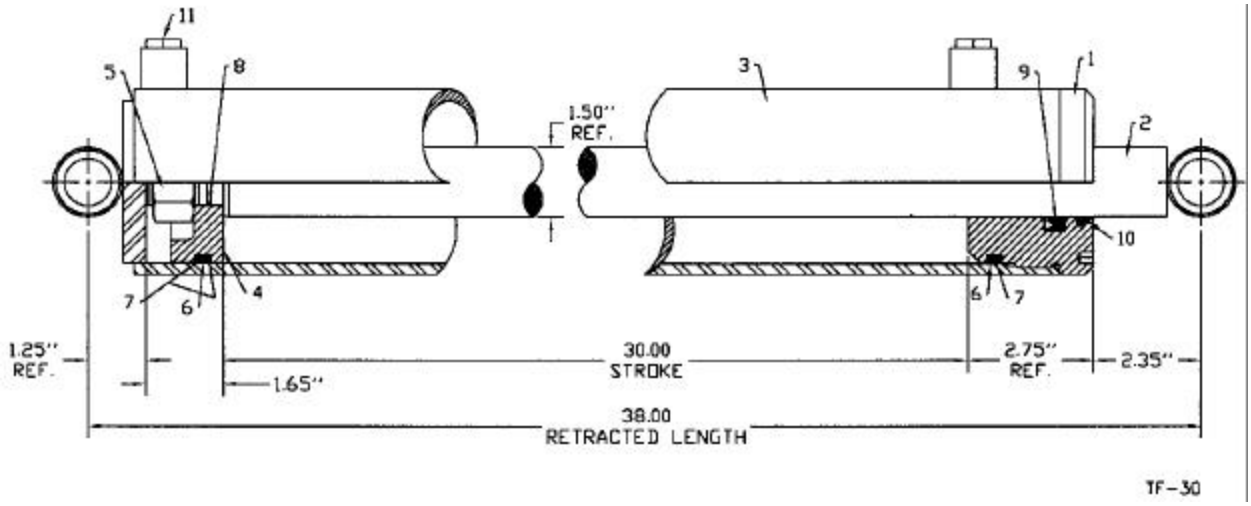


10" x 10' Extension Parts List

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 33'-5" Cable Assembled
	960407	1/2" x 33'-5" Cable Only
9	960408	1/2" x 66'-6" 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

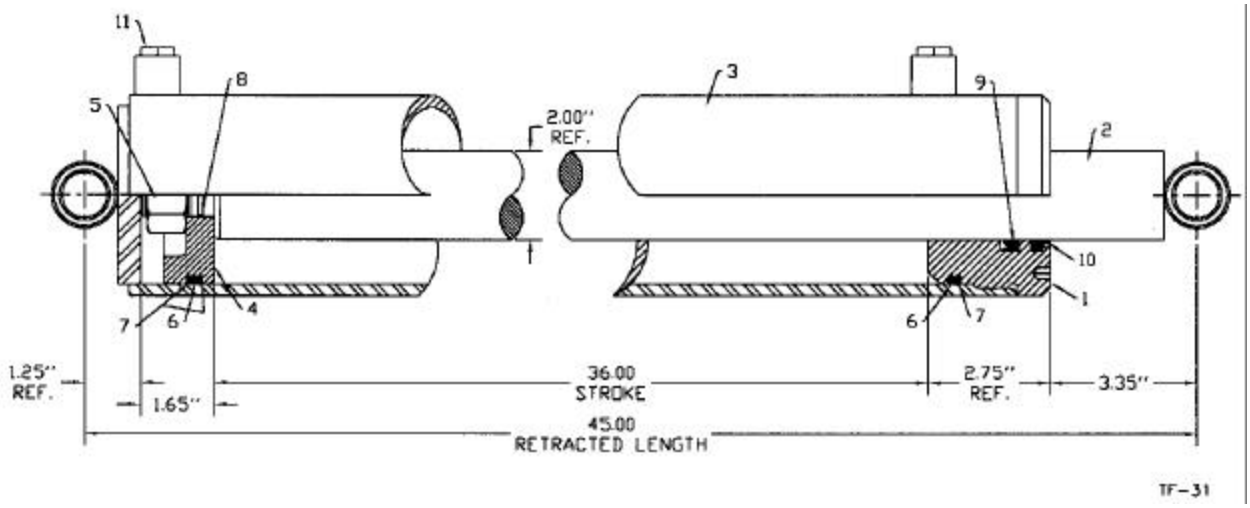
Cylinder Assembly - 3.50 Dia. x 30.00

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 #



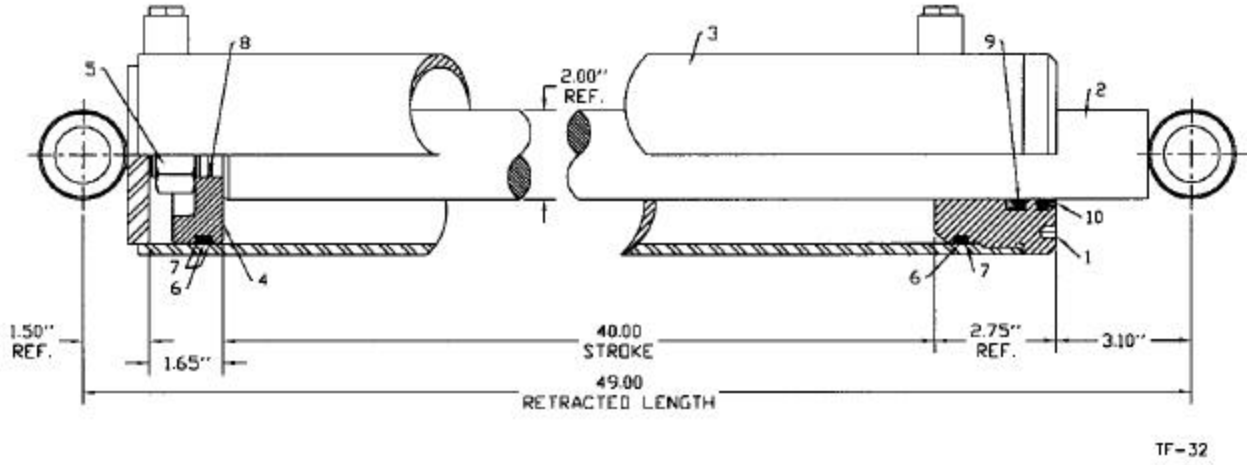
Cylinder Assembly - 4.00 Dia. x 36.00

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 #

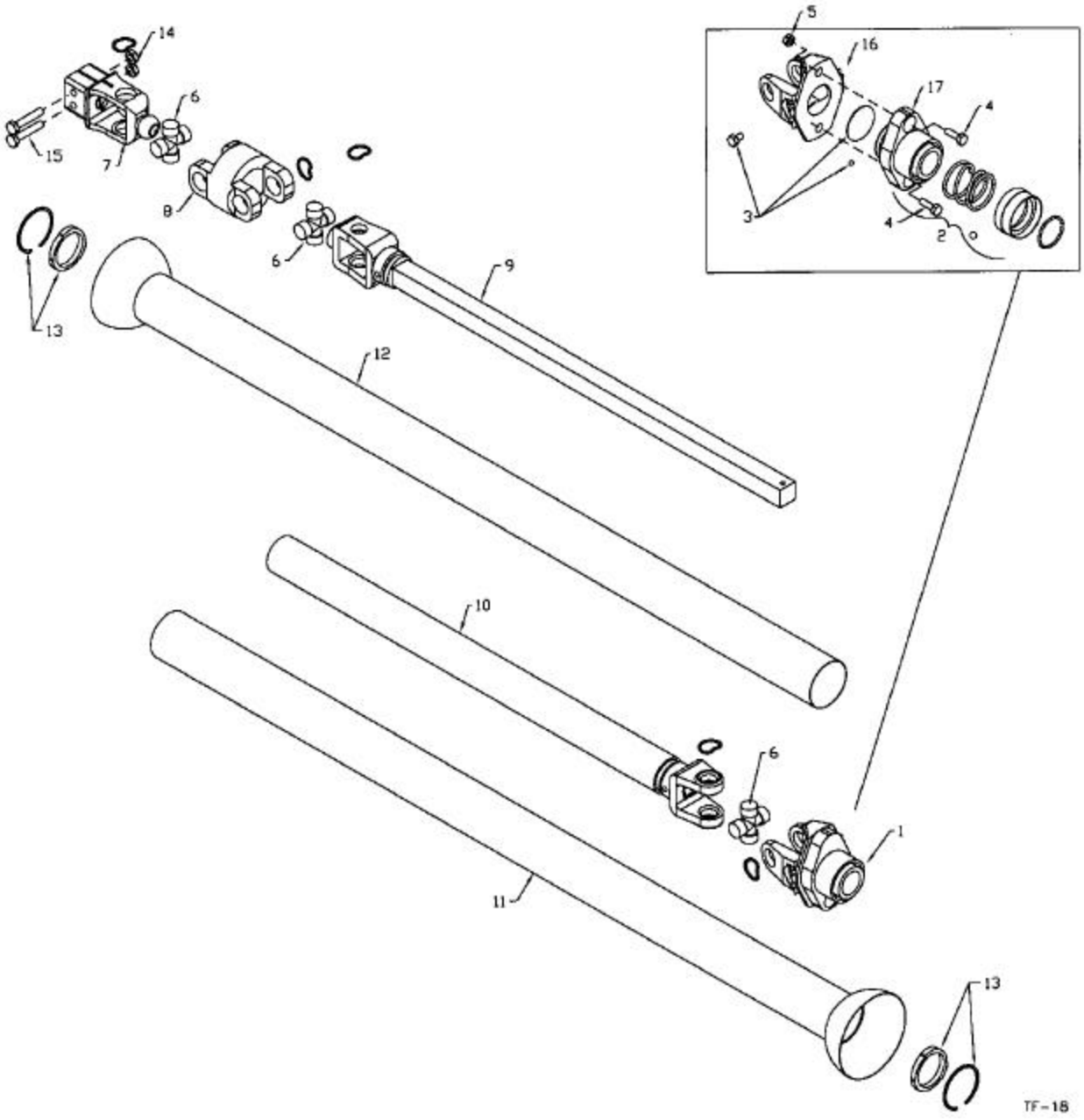


Cylinder Assembly - 4.0 Dia. x 40.00

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 #



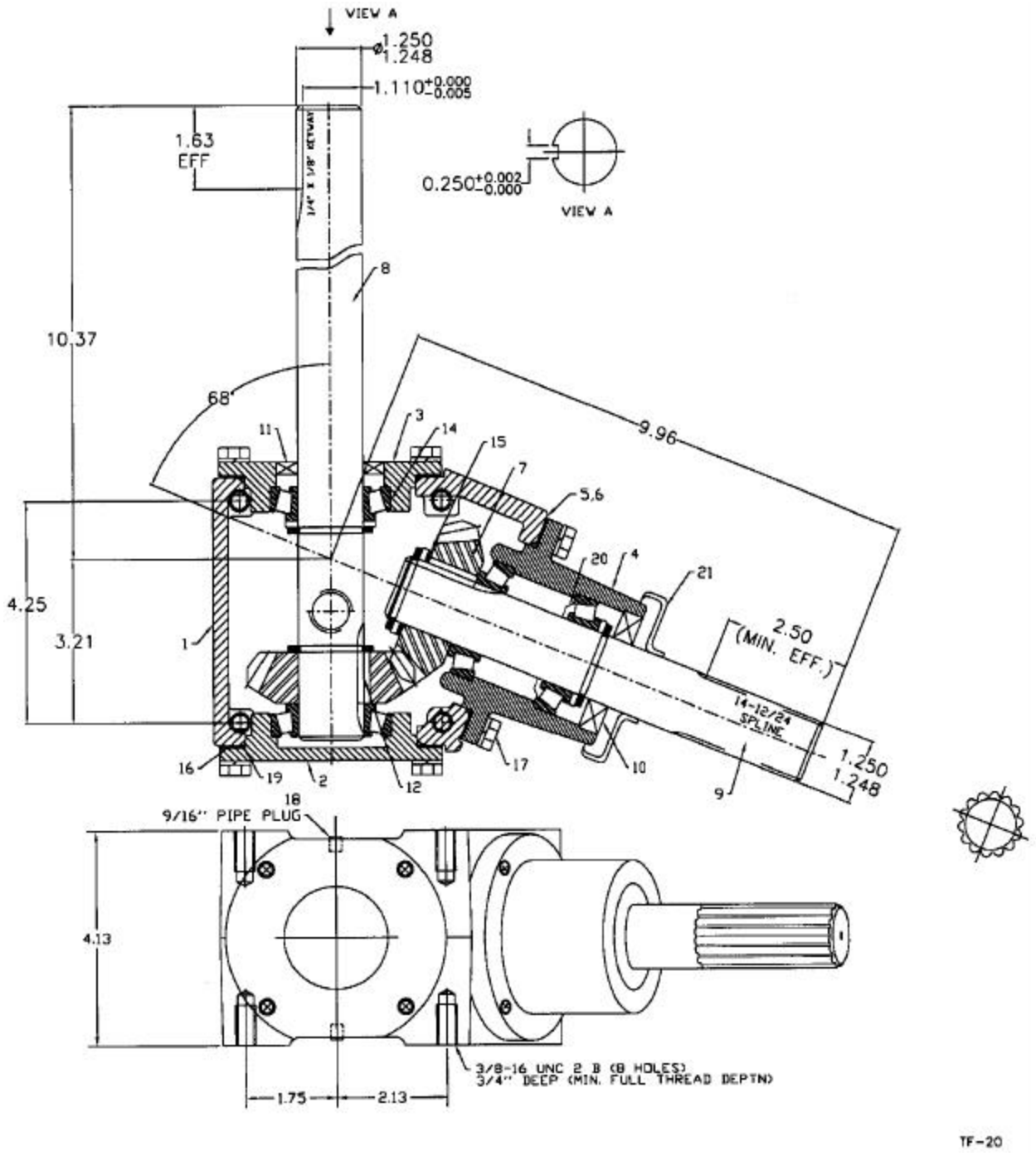
10” BACKSAVER AUGER PTO SHAFT



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 (Ret. Ring, Collar, Spring 2-3/8" Balls)
3	936248	Shear Assembly Repair Kit (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

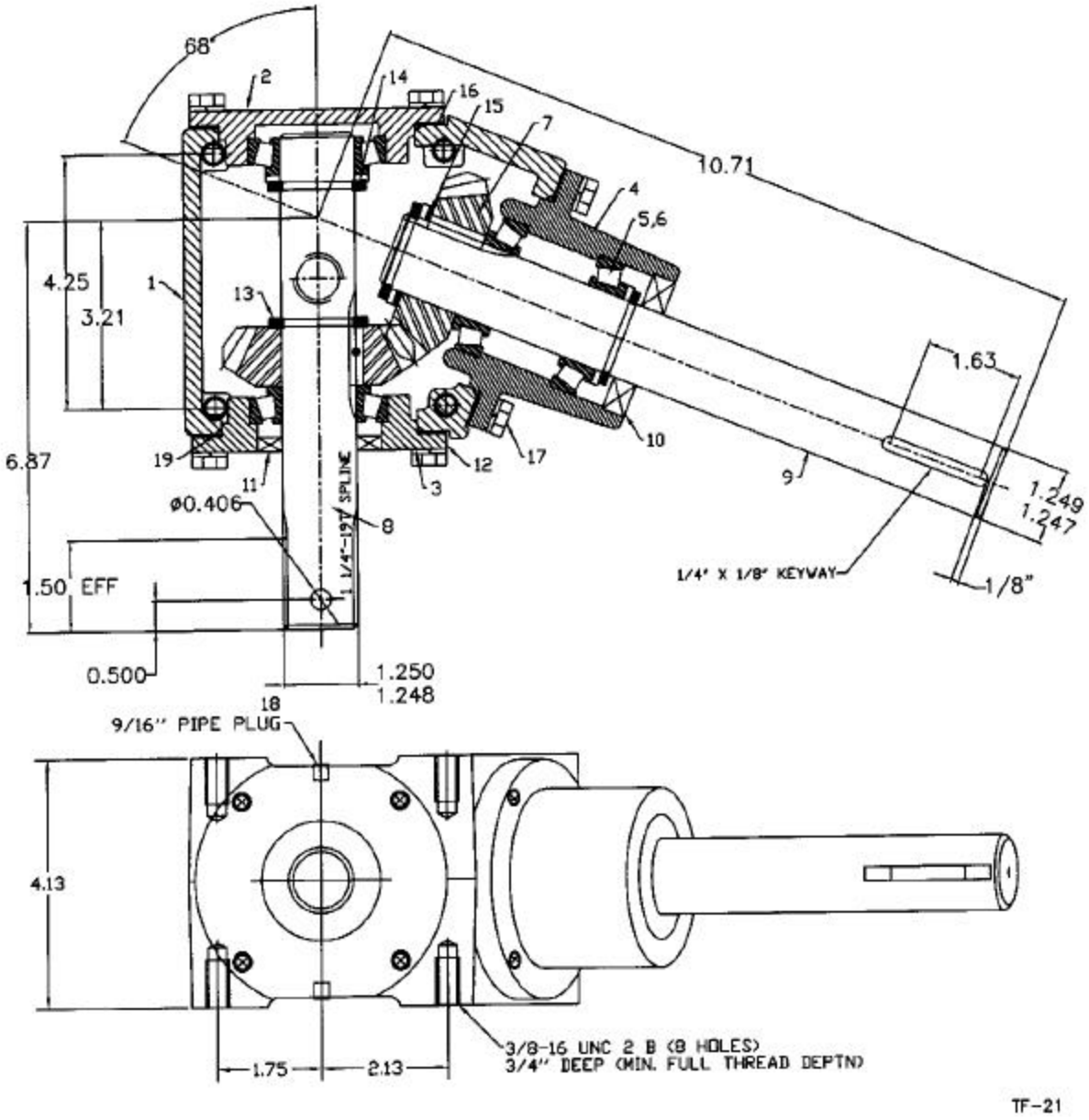
10” MECHANICAL DRIVE – INPUT BOX GEARBOX



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

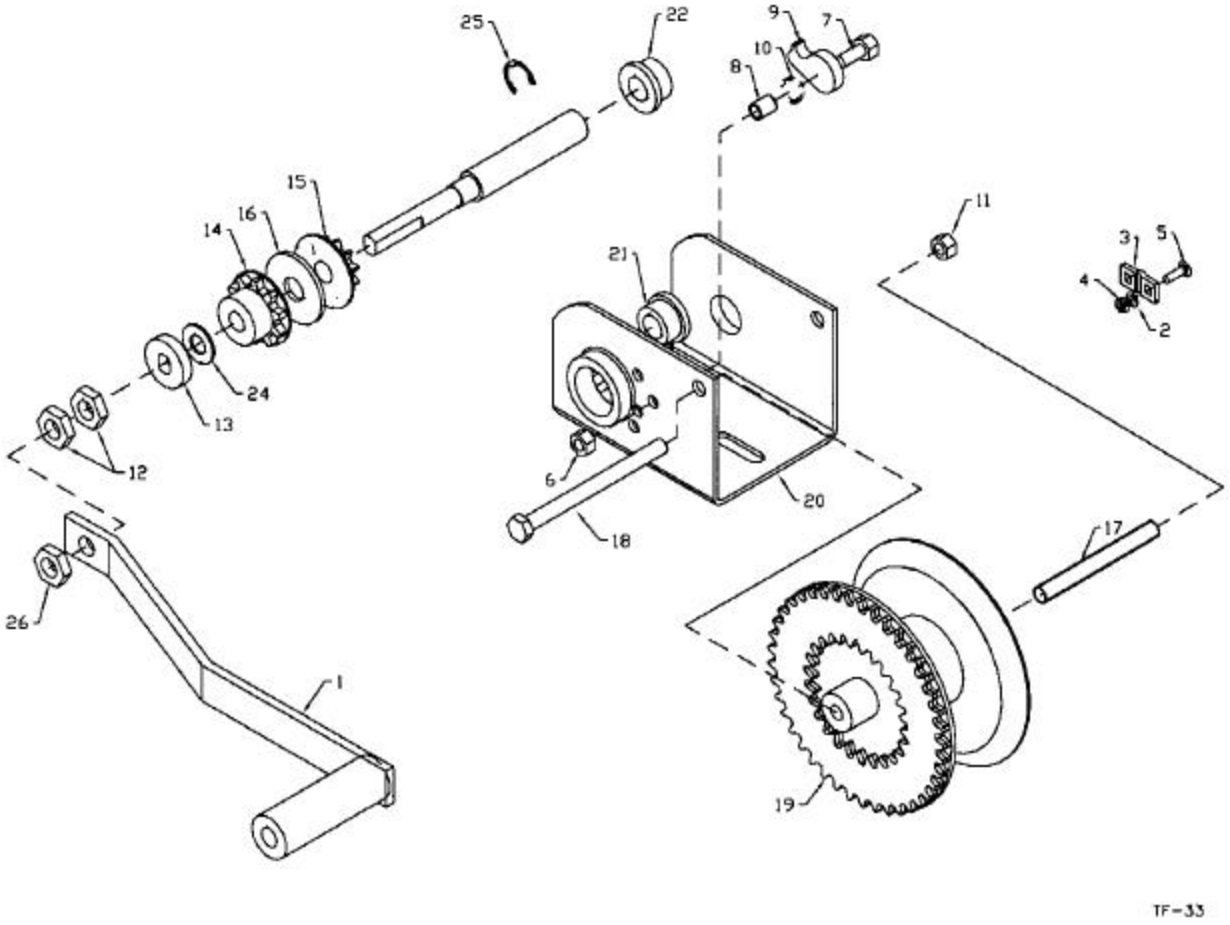
10” MECHANICAL DRIVE – INTAKE AUGER GEARBOX



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
	Y110	Dual Lift Boom Kit (includes winch & cable)
	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)

SIZE: 10" x 50' GRAIN AUGER - TOP FEED MECHANICAL (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	F0627	Input Box
2 only	F0110	15" x 5" x 5 Bolt Wheels Only
1 only	F0067	Carton of Parts

SHIPPING BUNDLES - FARM KING BACKSAVER AUGERS

SIZE: 10" x 60' GRAIN AUGER - TOP FEED MECHANICAL (Y1060TM)

QUANTITY REQUIRED	BUNDLE NUMBER	DESCRIPTION
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	F0627	Input Box
2 only	F0110	15" x 5" x 5" Bolt Wheels Only
1 only	F0067	Carton of Parts

SIZE: 10" x 70' GRAIN AUGER - TOP FEED MECHANICAL (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	F0627	Input Box
2 only	F0110	15" x 5" x 5" Bolt Wheels Only
1 only	F0067	Carton of Parts

NOTES

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