

Operator's & Maintenance Manual

Manual del operador

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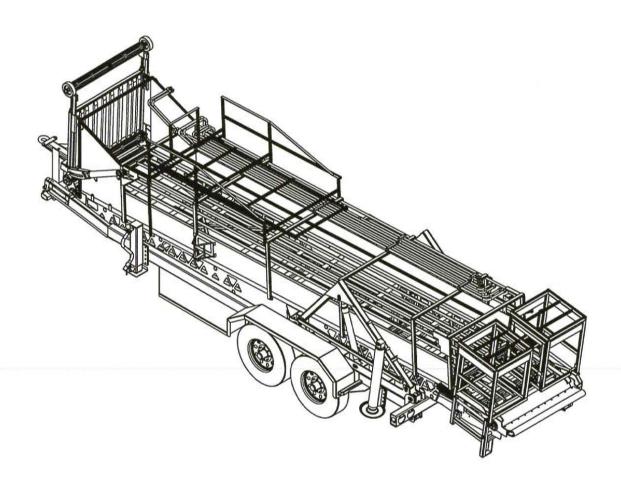
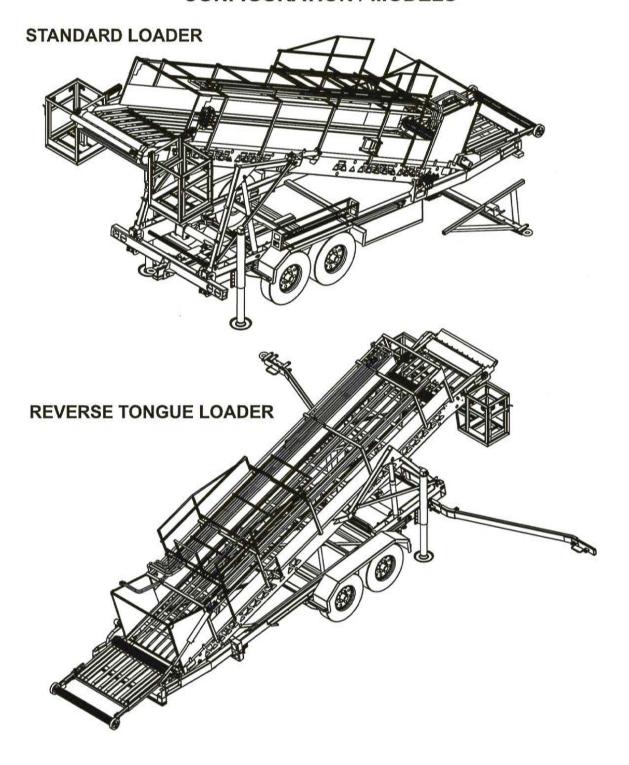


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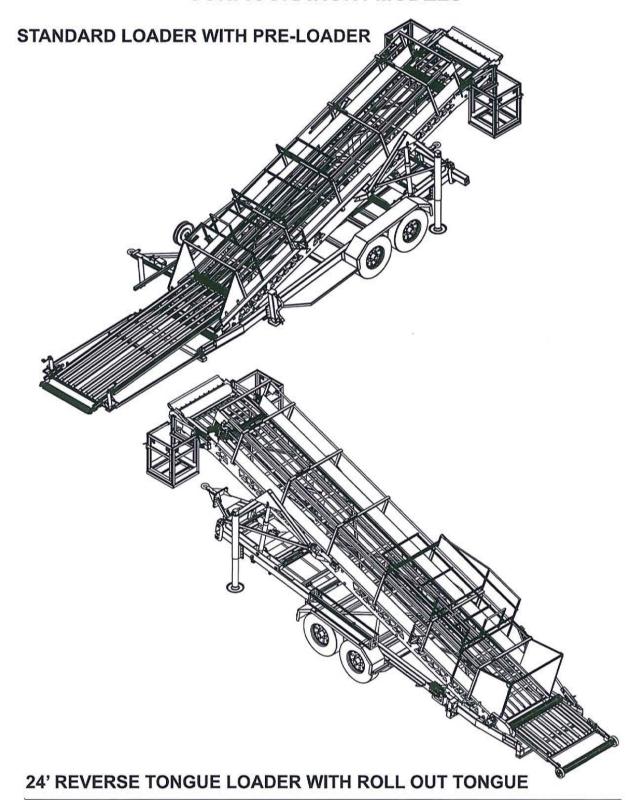


CONFIGURATION / MODELS





CONFIGURATION / MODELS





to Be Knowledgeable
study
to Be Safe
study
for Your Safety &
study
for The Safety Of Others

s the operator's Responsibility



General Warnings And Precautions

THE FOLLOWING PRECAUTIONS AND PRECAUTIONS POSTED ON THE MACHINE MUST BE FOLLOWED TO PREVENT PROPERTY DAMAGE, SERIOUS INJURY OR DEATH. IT IS THE RESPONSIBILITY OF THE OPERATOR TO STUDY THIS MANUAL AND BE COMPLETELY KNOWLEDGEABLE ABOUT SAFE OPERATION OF THE MACHINE AND EXTERNAL POWER UNIT.



FAILURE TO FOLLOW THESE SAFETY WARNINGS AND INSTRUCTIONS WILL RESULT IN SERIOUS INJURY OR DEATH

OPERATORS & MAINTENANCE PERSONNEL

- 1. Study the operator and maintenance manual thoroughly, and completely knowledgeable about the operation of the machine.
- 2. Please pay close attention to Safety Warnings posted in various areas of this manual and on the machine.
- Fully secure loader and all accessories (Towing Coupler, Safety Chains, Tongue, Pickup Conveyor, Cooper Platforms, Corral Boards, and Landing Legs) before towing.
- 4. Do not work or cross under a raised machine or unhook hydraulic hoses from a raised machine. Use support sleeves on cylinders for maintenance. See Figure 13.
- Hydraulic fluid is under pressure. Do not use hand to check for leaks. Use a piece
 of cardboard or paper. If fluid is injected into skin, obtain medical attention
 immediately.
- 6. Make sure that everyone is clear of the machine at all times. Remember that operator safety and the safety of others rests solely on the operator.
- 7. The loader must be set up on a stable, level surface. The front wheels of the loader must remain on the ground, and the loader conveyor shall never be raised without the landing legs lowered.
- Do not connect the loader to a hydraulic unit capable of supplying more than 2500 psi.



FAILURE TO FOLLOW THESE SAFETY WARNINGS AND INSTRUCTIONS CAN RESULT IN SERIOUS INJURY OR DEATH

- Pinch points exist on and around the cooper platforms. Always raise railings and keep hands above the railings.
- 2. Do not remove guards while machine is in operation or start external power unit without guards in place.
- 3. Always stop engine or disconnect power unit while making adjustments.
- 4. Wear proper attire when operating the system. Loose clothing should not be worn while operating the equipment.



STANDARD VERSUS REVERSE TONGUE CONFIGURATION

The turkey harvester is available in a reverse tongue and a standard setup. In the standard setup, the loader is pulled from the pickup conveyor end by a tongue that swings out of the way on a center pivot while loading. Since the loader is pulled from the end that must go in the house, a separate optional house tongue is used to position the loader. A reverse tongue loader pulls from the opposite end by a tongue that splits in the center and swings away to each side. The pickup is in the back of the loader so it can be backed into the house with the main tongue. A reverse tongue has a hydraulic sliding tandem to properly position the axles for transport or loading. An overview of the main parts of the two types of loaders is shown in Figures 1 and 2.

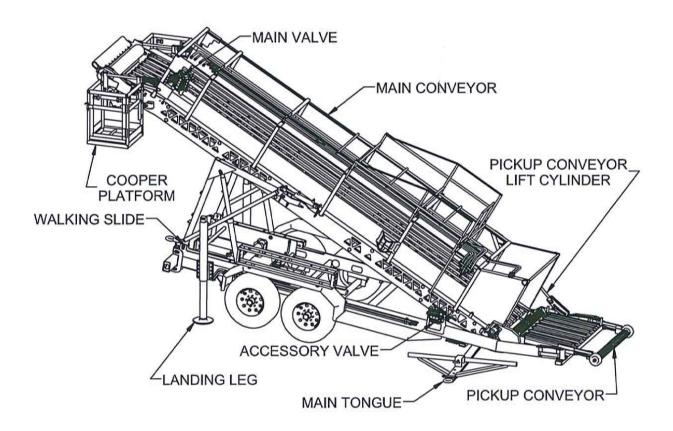


Figure 1. Standard Loader Overview

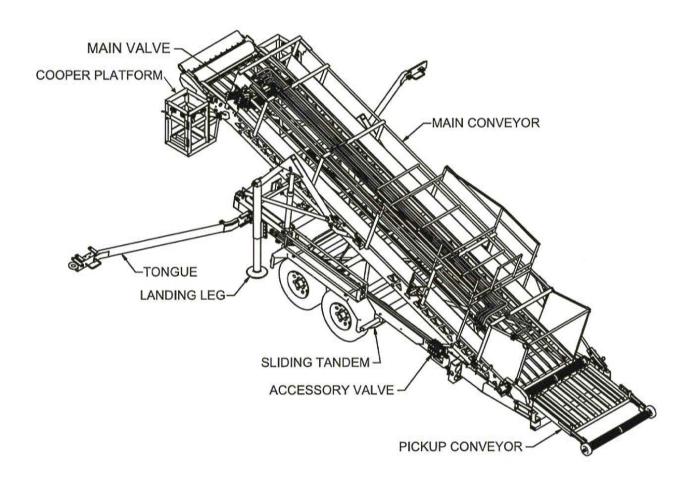


Figure 2. Reverse Loader Overview

CONTROLS



BEFORE ACTIVATING ANY VALVE, MAKE SURE EVERYONE IS CLEAR OF THE LOADER.

Main Valve Functions

The main loading functions of the loader are controlled by the four section main valve which is operated from the left cooper basket. The four section valve is shown in Figure 3.

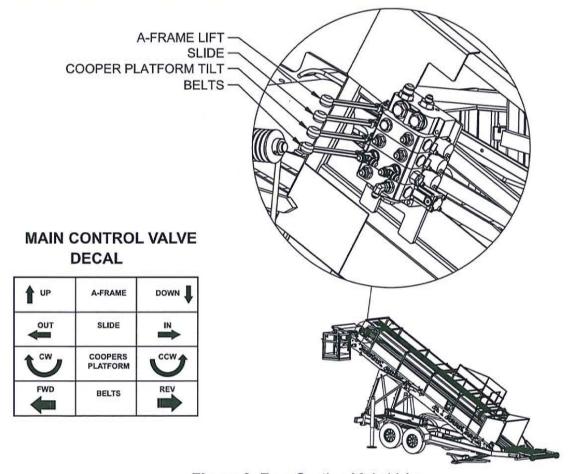


Figure 3. Four Section Main Valve

The top lever controls the main conveyor lift cylinders which raise and lower the loader in order to line up the main belt with the desired level of the turkey coops. The lever is pulled toward the operator to raise the loader and pushed away to lower the loader.

The second lever from the top of the valve controls the walking slide. The lever is pulled toward the operator to slide the loader forward toward the turkey coops. The lever is pushed away from the operator to slide the loader back away from the coops.

The third lever from the top of the valve controls the cooper platform leveler. When the lever is pulled toward the operator, the bottom of the platform moves out away from the loader. When the lever is pushed away from the operator, the bottom of the platform moves back toward the loader. On loaders with an automatic leveling system, the platform remains level as the main conveyor is raised or lowered. If the platform gets out of level, the operator must re-level it using the control lever (third lever from the top of the valve).

The bottom lever controls the belts. Pulling the lever toward the operator runs the belts forward to carry birds toward the coops. Pushing the lever runs the belt backwards. This lever does not return to to the center automatically, so the operator must return the lever to the central position to stop the belts.

Accessory Valve Functions

Depending on options and configurations, there may be one or more accessory valves located on the machine. These valves control the hydraulic pickup conveyor, hydraulic landing legs, and the sliding tandem axles on reverse tongue loaders. Loaders built from 2014 on have a multi-section valve mounted on the trailer frame that handles all of these functions. This configuration is shown in Figure 4.

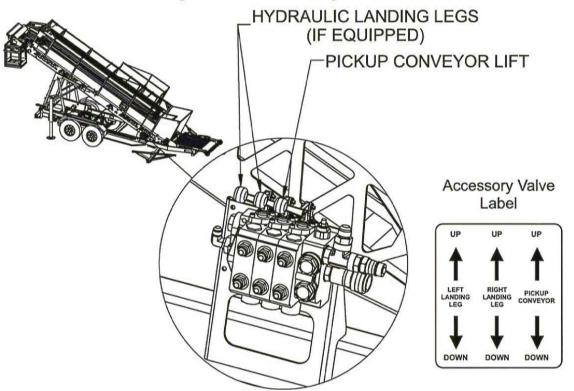


Figure 4. Multi Section Accessory Valve

The first (closest to pickup conveyor) lever of the accessory valve controls the lifting cylinder for the pickup conveyor. The lever is pushed away from the operator to lower the pickup conveyor, and pulled to the operator to raise the pickup conveyor. On models without a multi-section accessory valve, the pickup conveyor lifting cylinder is controlled by an individual valve located near the pickup conveyor lift cylinder.

If equipped, the next two sections of the accessory valve control the hydraulic landing legs.

The levers are pulled toward the operator to lower the legs and therefore raise the machine. The levers are pushed to raise the legs to transport position. On loaders without a multi-section accessory valve, the controls for the landing legs are located on a panel beside the right landing leg.

On a reverse tongue loader, a fourth section or an individual valve will exist to operate the sliding tandem. The lever is pulled to slide the axles forward into loading position and pushed to slide the axles into transport position.

HOW TO OPERATE YOUR TURKEY HARVESTER

Setting Up Your Machine For Loading



ALWAYS SET UP THE LOADER ON LEVEL, FIRM GROUND

If using a standard loader, pull the loader up to the turkey house and lower the parking jack. Extend the house tongue and hook up to the tow vehicle. These components are shown in Figure 5.

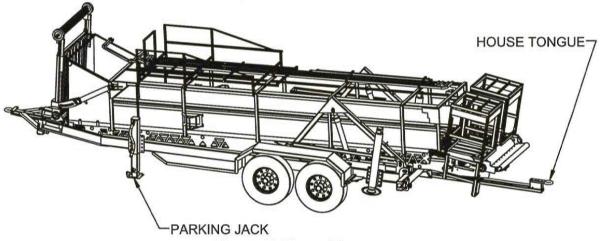


Figure 5. House Tongue

Use the house tongue to position the loader with the pickup conveyor in the house. Lower the parking jack and unhook the tow vehicle. Retract the house tongue and swing away the main tongue as seen in Figure 6. Then raise the parking jack. If the loader is not equipped with a house tongue, a tow vehicle must pull the loader inside the house. A small tractor that can handle the weight of the loader is best suited for this process. The loader is parked outside the house by the main tow vehicle and then picked up by the tractor and pulled into the house. The loader is then unhooked, the parking jack is raised and the main tongue is swung away.



THE HOUSE TONGUE IS FOR POSITIONING ONLY. IT IS NOT FOR TRANSPORT OR HIGH SPEED TRAVEL.

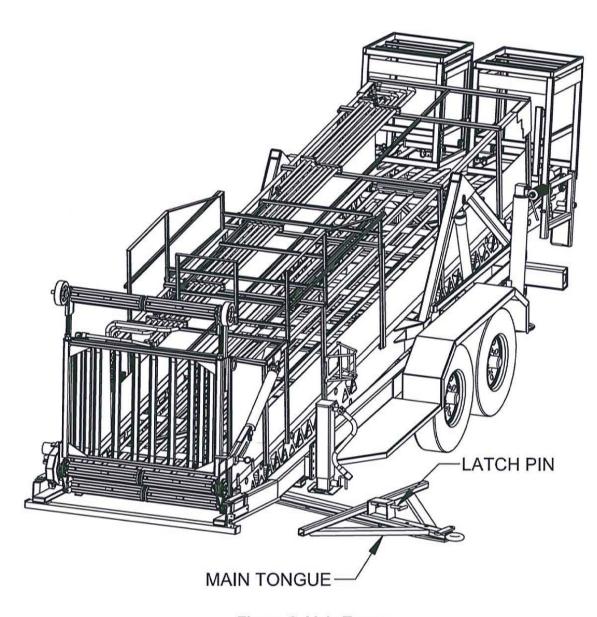


Figure 6. Main Tongue

If using a reverse tongue loader, back the loader into the house with the tow vehicle. The tongue can be swung open as shown in Figure 7 after lowering the landing legs. The process of lowering the landing legs is described in the next paragraph.

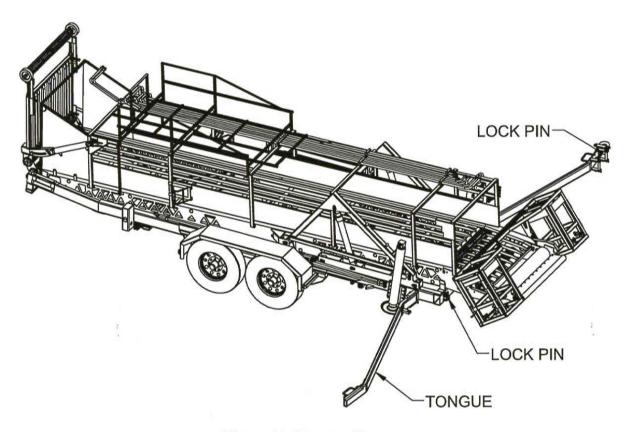


Figure 7. Reverse Tongue

If the loader is equipped with hydraulic landing legs, hook up the loader to the external hydraulic power unit at this point. On loaders built prior to 2014, the hydraulic connectors are on leads near the pickup end of the main conveyor. On loaders built from 2014 on, the connectors are on the accessory valve. The female quick connector on the loader is for the pressure line, and the male quick connector is for the return. On later model loaders, the return line is a ¾" hose while the pressure is ½". Connect the lines, and then start the power unit or engage the PTO on a truck powered hydraulic pump.



DO NOT CONNECT THE LOADER TO A POWER SOURCE SET TO MORE THAN 2500 PSI

Begin to lower the landing legs in order to raise the cooper end of the machine. If using a reverse tongue remove the pins from the sliding tandem and slide it fully forward into loading position at this time. The loader should sit with the main conveyor roller track at ground level and the front wheels on the ground as shown in Figure 8.

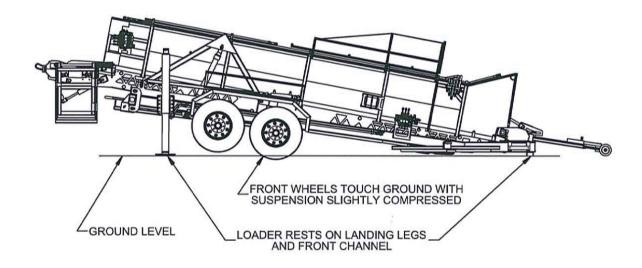


Figure 8. Loader Positioning

Next, remove the pickup conveyor guide channels from the stake basket and place them on the ground in front of the pickup conveyor. Remove the securing chains from the pickup conveyor, and it can then be lowered with the control valve. The pickup conveyor wheels should rest in the guide channels. If the loader is not equipped with a hydraulic pickup conveyor, the conveyor should be carefully lowered by two or more people so it does not slam to the ground.

If the loader is equipped with a pre-loader, it can be set up now. First, lift the pre-loader jacks out of the saddles on the trailer frame. The pre-loader should always be pulled out of the main conveyor and positioned by hand. Next, remove the transport pins from the pre-loader stabilizer bars and swing them into position. They hook on the grab handles around the pre-loader jacks. Place blocks or plates under the pre-loader jacks so they do not sink into the litter. Level the front end of the pre-loader with the jacks and it is ready to load. The parts of the pre-loader are shown in Figure 9.

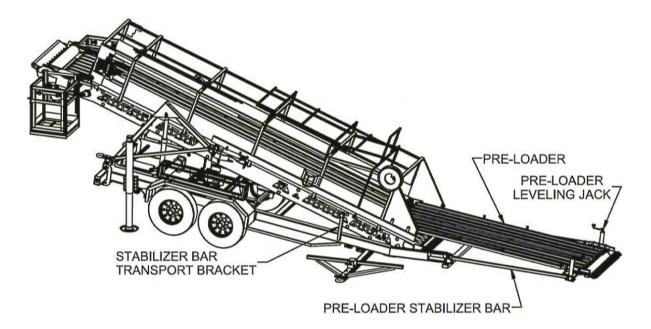


Figure 9. Pre-Loader

Next, lower the cooper platforms. For three piece cooper platforms, undo the transport chain and lower each basket until the pin latches in the down position. For one piece platforms, remove the transport link, and lower the platform into position.



TWO OR MORE PEOPLE ARE REQUIRED TO SAFELY LOWER THE ONE PIECE COOPER BASKET.

Next, remove the cylinder pin from the transport bracket and attach the cylinder to the cooper platform with the pin. The coopers can now climb into the baskets, secure the gates, and raise the railings.



PINCH POINTS EXIST ON COOPER PLATFORMS. ALWAYS RAISE RAILINGS, SECURE GATES, AND KEEP HANDS ABOVE RAILINGS

Level the cooper platform with the third lever on the main valve (see Figure 3 for main valve functions). If equipped with a cooper leveling system, the baskets will remain level during operation without further adjustment. If the platform goes out of level, refer to the main valve operation instructions in the controls section. Cooper platform set up is shown in Figures 10 and 11.

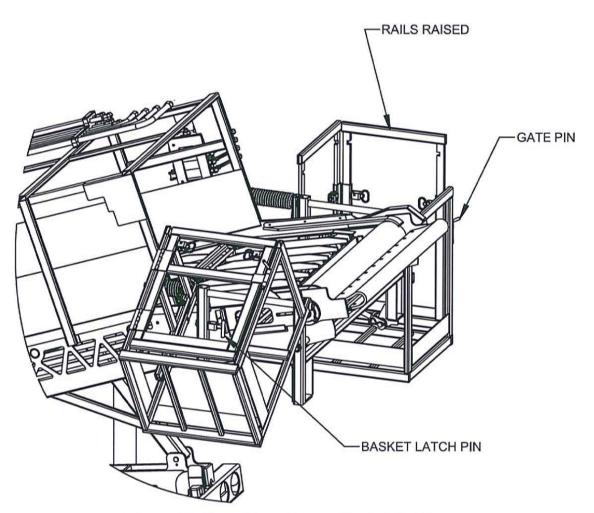


Figure 10. Three Piece Cooper Basket Set-Up

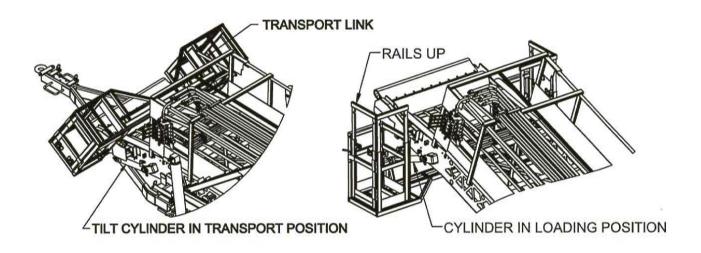


Figure 11. One Piece Cooper Basket Set-Up

Next, remove and set up the corral boards using stakes from the stake basket. This is shown in Figure 12.

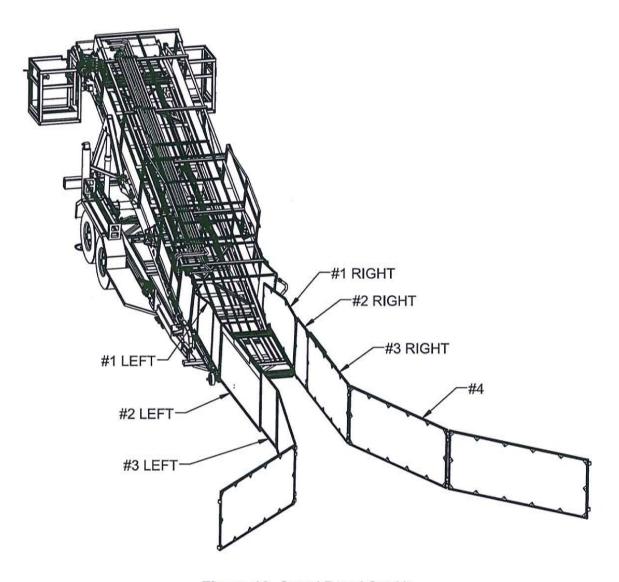


Figure 12. Corral Panel Set-Up

The #1 panels fit into pockets on the pickup conveyor. The slanted sides of the #2 panels attach to the #1 panels with short pins. The #3 panels have a channel that slides over the #2 panels. The #2 panels move with the loader so they should overlap the #3 panels about $4 \frac{1}{2}$ feet. The #1, 2,and 3 panels are to be parallel with the main conveyor. The #4 panels are used to extend the chute or build a catch pen.

The loader is now ready to load.

Loading With Your Turkey Harvester

Now that the loader is set up, the crew (loading crew (2), herding crew (as required), and the truck driver) should take their places for loading.

The operator must first slightly lift the main conveyor and fully retract the walking slide by pushing the second lever from the top of the main valve.

NOTICE

SLIGHTLY LIFT THE MAIN CONVEYOR BEFORE MOVING THE WALKING SLIDE OR THE MAIN CONVEYOR RESTS COULD BE DAMAGED.

The live haul truck can now pull up. Raise the main conveyor to slightly below the floor of the first coop. Bring the walking side forward until the bumper slightly touches the coop. Start the belt as the herding crew brings in birds and begin to load. After loading the first coop back up the walking slide to clear the coops, and raise the loader to the second coop. Bring the walking slide forward and load the coop. Continue until the top coop is loaded. Back the slide up all the way and signal the truck to pull up to the next column of coops. Load these from the top down and continue this process.



ALWAYS BACK UP THE SLIDE WHEN THE TRUCK IS MOVING TO PREVENT THE TRUCK FROM HITTING THE MACHINE.

Small groups of 12-15 birds should be brought into the pickup conveyor at a time, making sure there are no big gaps in the flow of birds. This will help to keep the operation moving at a steady speed that the coopers can handle and minimize excessive starting and stopping of the belt. Bringing in too many birds will result in exiting the birds and excessive starting and stopping of the belt, which causes birds to tumble down the loader. If the loader is equipped with an adjustable main conveyor roof, it can be lowered to keep the birds sitting down and more steady on the conveyor.

If birds are trying to fly out of the entrance of the machine, it may help to darken this area by covering the conveyor.

Packing Up Your Machine For Transport

After loading, the loader must be packed up for safe transport on the road.

Pack up is generally the inverse of set up. The first step is to take down the corral panels and secure them on top of the main conveyor.

If using three piece cooper baskets, lower the railings and flip up the baskets. Position the platform tilt cylinder so that the cooper baskets rest firmly on the main conveyor. Connect the transport chain between the baskets. For one piece cooper baskets, disconnect the cylinder and return it to its transport bracket. Flip up the baskets into position and connect the transport link.

Next, raise the pickup conveyor and secure it with the attached chain and binder.

If using a pre-loader, fold up the stabilizer bars and secure them with the pins. Raise the leveling jacks and roll the pre-loader back into the main conveyor. Lift the pre-loader jacks into the saddles on the trailer frame.

If the loader is equipped with an adjustable main conveyor roof, lower it all the way. If using a reverse tongue, slide the tandem all the way back at this time and secure it with the pins.

Raise the landing legs and disconnect the hydraulic lines.

If using a reverse tongue loader, close the tongue and secure all pins. If using a standard loader lower the parking jack, swing the tongue into place and extend the house tongue. Hook up to the house tongue, raise the jack, and pull the loader out of the house. Lower the jack, retract the house tongue, hook up to the main tongue, and raise the jack.

Latch the coupler, connect safety chains and wiring. Verify function of lights and brakes before towing.

The loader weighs approximately 8500 lbs. An adequate tow vehicle must be used.



THE FOLLOWING ITEMS MUST BE VERIFIED BEFORE TOWING LOADER.

- Connect Safety Chains
- · Connect Cable and Verify Function of Lights and Brakes
- Latch Towing Coupler
- Secure all Pins in Loader Towing Tongue
- Secure Pickup Conveyor/Pre-Loader
- Secure Cooper Platforms
- Secure Corral Panels
- · Secure Pin in House Tongue
- · Secure all Pins in Sliding Tandems



IT IS THE DRIVER'S RESPONSIBILITY TO VERIFY LOADER IS SECURE FOR TRANSPORT.

HOW TO MAINTAIN YOUR TURKEY HARVESTER

A DANGER

DO NOT CROSS OR WORK UNDER A RAISED MACHINE OR UNHOOK HYDRAULIC HOSES FROM A RAISED MACHINE. USE SUPPORT SLEEVES ON CYLINDERS FOR MAINTENANCE.

When working under a raised loader, always use the included cylinder support sleeves as shown in Figure 13

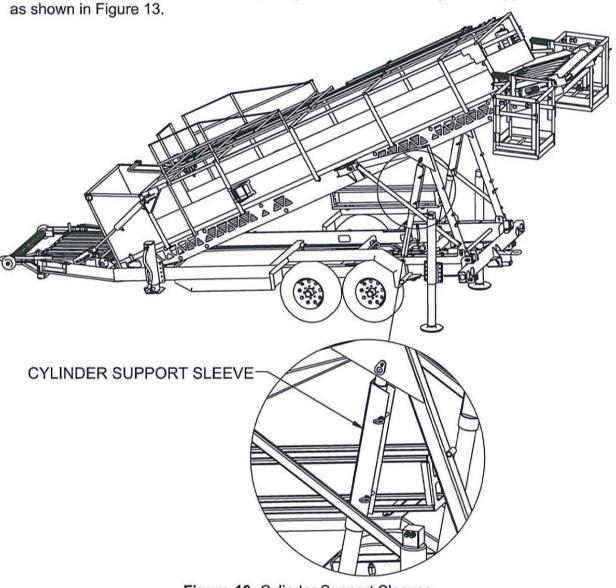


Figure 13. Cylinder Support Sleeves



DISCONNECT POWER UNIT FROM THE LOADER BEFORE REMOVING GUARDS.

DO NOT OPERATE MACHINE WITHOUT GUARDS IN PLACE.

The loader needs to be properly maintained. The most important maintenance step is to wash down the loader after each use and remove all feathers. This prevents corrosion, bearing failure, and belt slipping. The loader also needs to be greased and lubricated regularly. See the following scheduled maintenance table for specific information. If using a Bright Power Unit, see the Power Unit section for scheduled maintenance information.

ACTION

Pressure Wash Loader and Remove Feathers

Check for Hydraulic Leaks

Check Tension and Lubricate Drive Chains

Grease Bearings

X

Check Condition and Tension

Table 1. Scheduled Maintenance for Loader

There are one or more relief valves located on the loader to protect the hydraulic system. On loaders with one multi-section accessory valve, there is one relief valve located in the inlet cover of this valve. On loaders with multiple accessory valves, there is a relief valve in each accessory valve and the main valve, and they must be adjusted individually. All relief valves on the loader should be set to 2000 psi. If relief valves ever need to be adjusted, use the following steps.

- 1. Before adjusting the loader relief valve(s), make sure the power unit relief valve is properly adjusted to 2500 psi. (See Power Unit section)
- 2. Position the pumping unit so that the gauge is visible from the valve being adjusted.
- 3. Remove the cap from the relief valve and loosen the set screw.
- 4. Back out the Allen head adjustment screw all the way.

of Belts

5. Make sure everyone is clear of the loader and start the pumping unit.

- 6. Bottom out the cylinder with the control valve and watch the pressure gauge. If the valve is a multi-section accessory valve, bottom out the pickup conveyor lift cylinder (be sure the chain is removed and the area around the pickup conveyor is clear). If it is the main valve, bottom out the walking slide. (See controls section for valve functions)
- 7. Tighten the adjustment screw until the pressure reaches 2000 psi.
- 8. Tighten the locknut
- 9. Verify the pressure is 2000 psi. If not, return to step 4.
- 10. Turn off power unit
- 11. Replace relief valve cap.

If there are multiple relief valves, this process must be done for each one in the order they are hooked together.

BRIGHT POWER UNIT

The Bright Power Unit is a self contained hydraulic pumping unit for the turkey harvester. It features an on board hydraulic tank and a engine/motor that can be gasoline, diesel or electric.



- · Always operate the Power Unit in a well ventilated area.
- · Keep the Power Unit a safe distance from any vehicles
- · Never touch the muffler-It may be very hot and cause burns
- Always stop engine before refueling
- · Always keep hands away from belt

When placing the Power Unit, put is as far as possible from the loader to straighten the hoses and reduce noise and exhaust fumes around birds. The hoses act as oil coolers and should not be shortened.

Always anchor or chock the unit to keep it from moving or walking. The best location for the unit is on level ground.

NOTICE

FOR PROPER LUBRICATION, THE ENGINE CANNOT BE TILTED MORE THAN 15°.

The Power Unit also has a main relief valve that should be set at 2500 psi. If the relief valve ever needs to be adjusted, use the following steps.

- 1. Turn off the power unit.
- Disconnect hoses from the loader.
- 3. Remove cap from relief valve.
- Loosen the locknut (counterclockwise).
- 5. Back out the Allen adjustment screw all the way (counterclockwise).
- 6. Start the pumping unit.
- 7. Tighten the Allen screw until the gauge shows 2500 psi.
- 8. Tighten the locknut.
- 9. Verify the pressure is 2500 psi. If it is not, return to step 5.
- 10. Turn off the power unit.
- 11. Replace cap on relief valve.

NOTICE

DO NOT RUN THE PUMPING UNIT FOR MORE THAN FIVE MINUTES AFTER THE PRESSURE IS RAISED TO 2500 PSI OR THE UNIT MAY OVERHEAT.

Maintenance of the Power Unit includes servicing the engine and the hydraulic system. The following table provides a reference for scheduled maintenance. For information specific to the engine, see the engine owner's manual.

Table 2. Scheduled Maintenance for Power Unit

ACTION	DAILY	WEEKLY	MONTHS	6 MONTHS
Check Engine Oil Level	Х			
Check Hydraulic Oil Level	Х			
Remove Feathers from Screen over Flywheel	х			
Check Air Cleaner/Clean Pre cleaner	х			
Replace Air Cleaner Element	When Dirty			
Change Engine Oil/Filter	Every 100 Hours			
Change Hydraulic Filter	Every 3 Months or 250 Hours			
Change Hydraulic Oil	Every 6 Months or 500 Hours			
Check/Replace Spark Plug				х
Replace Fuel Filter				Х

WARRANTY AND LIMITATIONS OF LIABILITY

COVERAGE PROVIDED

Bright Coop, Inc. (BCI) warrants every part of the E-Z Clean Turkey Harvester manufactured by BCI to be free under normal use and service from defects in material and workmanship. This warranty extends to the original purchaser only and shall continue for a period of 1 year on all components from the date of sale of the original purchaser or date of original use, whichever is earlier. Any such parts proving to be defective within the warranty period may be, at the option of BCI, either repaired or replaced, provided that such defective parts are returned freight prepaid to the BCI factory in Nacogdoches, Texas, and provided further that written notice of such defective parts shall be given to BCI at the address shown above within 10 days of discovery of such defects.

The obligation of BCI to the purchaser under this warranty is limited to the repair or replacement of defective parts, which will cover charges for both parts and labor, using BCI service parts. Repair or replacement in accordance with this warranty shall constitute fulfillment of all liabilities of BCI.

Repairs or replacements will be performed by a qualified BCI technician or may be repaired or replaced by the original purchaser's maintenance personnel as long as the work or replacement is done in accordance with BCI recommendations. If the repair(s) or replacement(s) are done by the original purchaser's maintenance personnel, BCI will reimburse the original purchaser for a reasonable amount of labor involved at the rate of \$30.00 U.S. currency per hour if the original purchaser or authorized employee of the original purchaser mails or faxes a copy of the repair details which includes the date of original sale, the serial number of the unit to be repaired, a description of failure, causal part, the nature of the defect and obtain a Repair Authorization from BCI.

ITEMS NOT COVERED BY THIS WARRANTY

- Parts not manufactured by BCI are not covered by this warranty and any warranty on such parts is limited to that extended
 by the original equipment manufacturer of such parts.
- 2. This warranty shall not apply:
 - a. If the E-Z Clean Turkey Harvester has been subject to misapplication, abuse, misuse, negligence, fire or other accident;
 - If parts not made or supplied by BCI have been used in connection with the E-Z Clean Turkey Harvester, if in the sole judgment of BCI such use affects its performance or reliability;
 - If the E-Z Clean Turkey Harvester has been altered or repaired in a manner which, in the sole judgment of BCI, affects its performance or reliability;
 - d. To incidental charges such as, travel time, delivery charges, hydraulic oil, lubricants, to normal replacement of service items (such as filters), or to normal deterioration due to use or exposure (such as exterior finish);
 - Unless all safety devices and guards provided with the equipment are properly installed and used in this operation
 and unless there is compliance with all operating procedures and maintenance instructions as set forth in the
 instructional and operating manuals furnished by BCI;
 - f. To any E-Z Clean Turkey Harvester if its serial number has been altered, defaced or removed, or if payment for the E-Z Clean Turkey Harvester is in default.

DISCLAIMER OF IMPLIED WARRANTIES AND CONSEQUENTIAL DAMAGES

THERE ARE NO EXPRESSED WARRANTIES COVERING THE E-Z CLEAN TURKEY HARVESTER MANUFACTURED BY BCI OTHER THAN AS SET FORTH ABOVE, AND THE WRITTEN WARRANTY IS IN LIEU OF ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANT OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. In no event shall BCI be liable for special, incidental or consequential damages or claims therefore, including (but not limited to) damages or claims due to lost profits, lost time, personal injury, or other expenses whether or not resulting directly or indirectly from claimed defects covered by the above written warranty. No person is authorized to make on behalf of BCI any representations beyond those expressed herein.

RIGHT TO MAKE DESIGN CHANGES

Bright Coop, Inc. reserves the right to make changes in the design and other changes in its products at any time and from time to time without notice and without incurring any obligation with respect to any product previously ordered from it, sold or shipped by it.

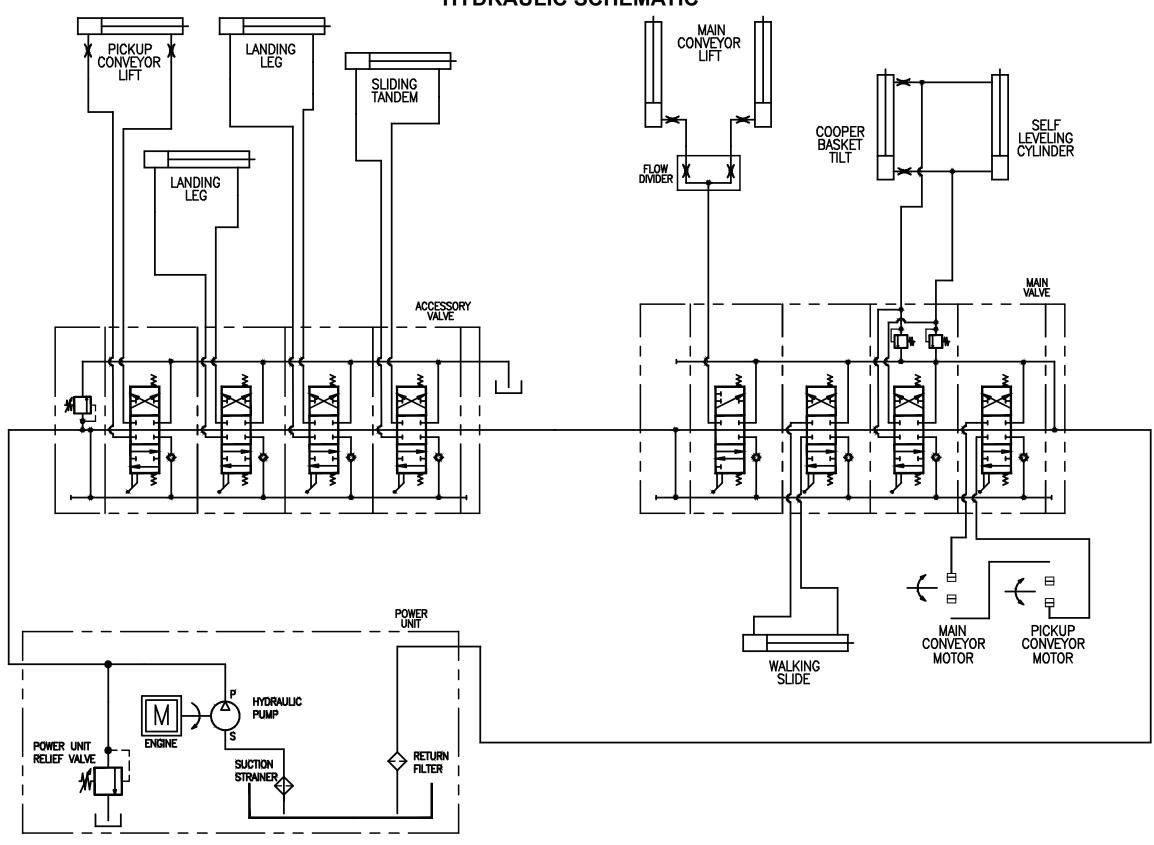
GENERAL PROVISIONS

All notices, demands, claims or other communications with respect to this written warranty must be addressed to Bright Coop, Inc., 803 W. Seale, Nacogdoches, Texas, 75964.

This warranty shall be interpreted and governed by the laws of the State of Texas.



HYDRAULIC SCHEMATIC



ELECTRICAL SCHEMATIC

