



CLICK ANYWHERE FOR MORE DETAILS

Minneapolis Moline

Operator's Manual

500 Series

Foragers

Operator's Manual

JENSALES.COM

or Call 800-443-0625

JENSALES

CLICK ANYWHERE FOR MORE DETAILS

THIS IS A MANUAL PRODUCED BY JENSALES INC. WITHOUT THE AUTHORIZATION OF MINNEAPOLIS MOLINE OR IT'S SUCCESSORS. MINNEAPOLIS MOLINE AND IT'S SUCCESSORS ARE NOT RESPONSIBLE FOR THE QUALITY OR ACCURACY OF THIS MANUAL.

TRADE MARKS AND TRADE NAMES CONTAINED AND USED HEREIN ARE THOSE OF OTHERS, AND ARE USED HERE IN A DESCRIPTIVE SENSE TO REFER TO THE PRODUCTS OF OTHERS.

MM-O-500SERIES

OPERATOR'S MANUAL

CLICK ANYWHERE FOR MORE DETAILS



500 SERIES

FORAGERS

purchase full manual at



or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

MINNEAPOLIS
MOLINE FARM EQUIPMENT

DIVISION OF MOTEC INDUSTRIES
HOPKINS, MINNESOTA



ASSEMBLY

This section of the manual describes and illustrates the recommended procedures for assembling the Model 500 Pull-type Foragor and the Model 510 Uni-Foragor. Any time the assembly procedure varies between the Pull-type and Uni-Foragor, the assembly variation will be called out in the text.

DISCHARGE SPOUT AND CONTROLS

A bracket for tilting the upper end of the discharge spout downward, is bolted to the front side of the spout. If a wagon with a low box is to be used behind the Foragor, and it is desirable to tilt the upper end of the spout down, remove the tilt bracket and reinstall it as shown in Fig. 1. We recommend changing the tilt of the spout before the spout is installed on the Foragor.



Fig. 1

1. Spout tilt bracket

To install the spout extension, remove the deflector from the spout, and bolt the extension and braces to the spout as shown in Fig. 2. Install the four countersunk washers on the outside of the spout, with the countersunk portion against the spout. These countersunk washers will allow the attaching screws to make a "dimple" in the spout sheet when they are tightened, placing the screw heads in a flush position on the inside of the spout. Install all attaching bolts and screws with the heads to the inside of the spout to reduce to a minimum the amount of obstruction inside the spout which could retard the flow of cut material through the spout. Reinstall the deflector and install the rope guide on the side of the spout as shown. Move the control arm on the deflector down, bolt it in place, and attach the control rope. Thread the rope through the guide.

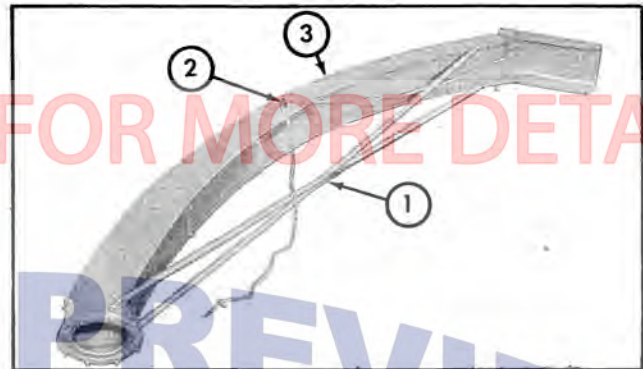


Fig. 2

1. Spout braces
2. Rope guide
3. Spout extension

Prior to installing the discharge spout on the Uni-Foragor, install the quadrant for the spout control arm on the discharge housing as shown in Fig. 3, using the longer bolts provided. Fig. 3 shows one location for the quadrant on the housing. The quadrant may be installed in an alternate position, depending on the range of spout swivel desired.



Fig. 3

1. Quadrant
2. Alternate position

Remove the four retaining straps from the spout base. To provide for easier swiveling action of the spout, apply heavy grease to the flanges on the discharge housing and spout base before installing the spout. Set the spout on the discharge housing and reinstall the retaining straps. The spout control arm must also be installed at the time the retaining straps are installed. Use the four round head, square neck bolts in the spout flange for attaching the control arm to the underside of the flange. Install the retaining strap and control arm attaching bolts so the nuts are on top of the flange. Fig. 4 shows the spout and control arm installed on the Pull-type Foragor. Install the spout and control arm and lever assembly on the Uni-Foragor as shown in Fig. 5.

Install the spout control rod in the control arm on the Pull-type Foragor as shown in Fig. 4. Open the cotter pin for the control rod, slip the rope guide pulley into the cotter pin "eye", and install the cotter pin in the rod to secure it in the arm.

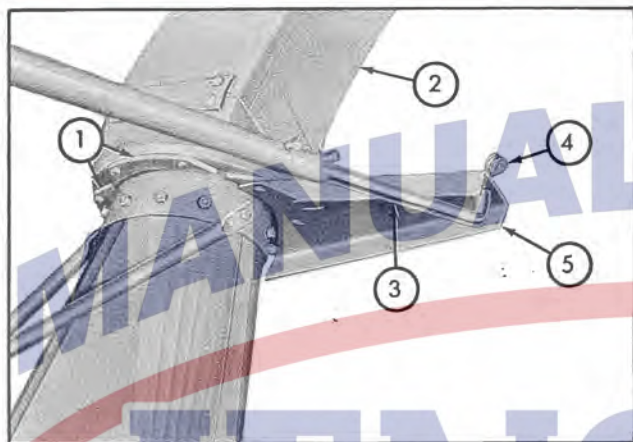


Fig. 4

1. Spout retaining straps
2. Spout
3. Control rod
4. Pulley
5. Control arm

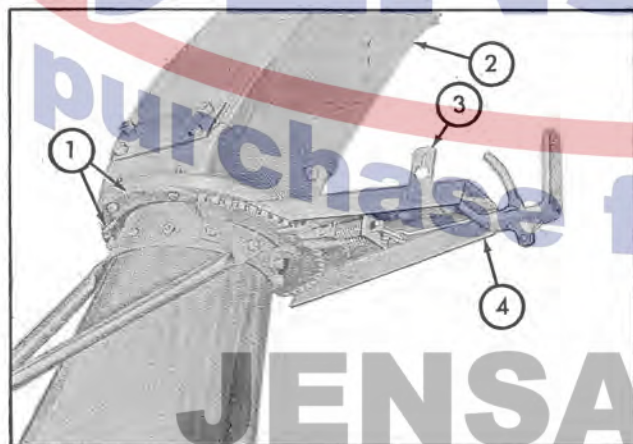


Fig. 5

1. Spout retaining straps
2. Spout
3. Chain clip
4. Control arm, lever assembly

The spout control arms may be installed in alternate positions, other than those shown in Figs. 4 and 5, to obtain the desired range of spout swivel. Rotate the spout after installation is completed to be sure it turns without binding.

Connect the short section of chain to the deflector control rope and anchor the chain to the clip on the Uni-Foragor spout control arm. On Pull-type Foragors, the chain anchor clip is on the handle of the spout control rod.

HYDRAULIC CYLINDER

Install the remote hydraulic cylinder for raising and lowering the crop gathering attachment as shown in Fig. 6. Any hydraulic cylinder having an 8-inch stroke is suitable for use on the Pull-type Foragor for raising and lowering the attachment. The tractor used to operate the Foragor must be equipped with a hydraulic system having connections for operating the remote cylinder. After the Foragor has been hitched to the tractor, connect the hoses to the tractor hydraulic system. Support the hoses if they drag on the ground, or if there is any danger of their becoming tangled in the hitch or power shaft. Whenever the hydraulic cylinder is removed, install the lock strap, shown in Fig. 6, to hold the attachment up off the ground.

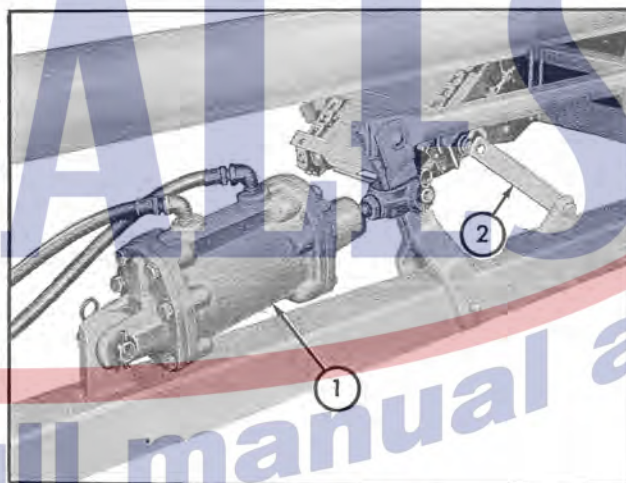


Fig. 6

1. Hydraulic cylinder
2. Lock strap

CROP GATHERING ATTACHMENTS

The Pick-up and Direct cut attachments are completely assembled at the factory and no further assembly work is required except for attaching one or the other to the basic foragor.

The one and two-row corn head attachments are ready for installation on the basic foragor except for installing the deflector rod and brace on the right hand door as shown in Fig. 7. Bolt the brace and rod to the door, placing the back-up plate on the rod attaching bolts, inside the door. Secure the rod to the brace with the J-bolt.

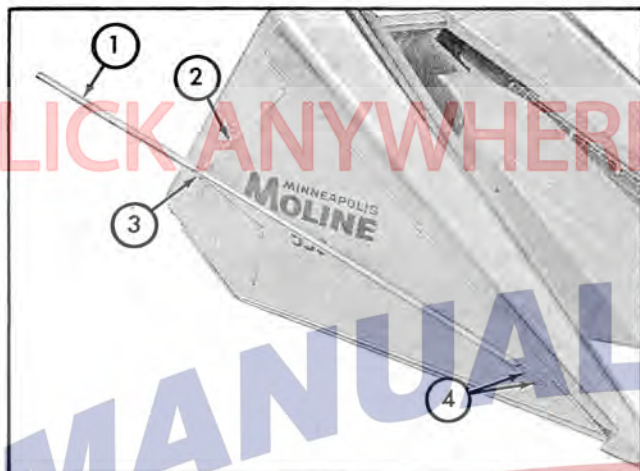


Fig. 7

1. Deflector rod
2. Brace
3. J-bolt
4. Back-up plate on these bolts

A deflector rod assembly (590229), similar to the one used on the right hand cover door, is available for installation on the left hand cover door of the two-row corn head attachment when the attachment is mounted on the Uni-Foragor. This deflector rod may be used to advantage when opening the field. Spacers are provided for installation between the door and brace to obtain the proper clearance between the rod and left hand tire on the Uni-Tractor.

LUBRICATION

This section of the manual describes and illustrates the approved procedures and intervals for lubricating the Model 500 Pull-type Foragor, and the Model 510 Uni-Foragor. Also included are the lubrication requirements of the Model 520 Direct cut attachment; the Model 530 Two-row corn head attachment; the Model 540 One-row corn head attachment, and the Model 550 Pick-up attachment. The lubrication points on the Foragor and attachments have been cut to a minimum by the use of factory-lubricated, sealed bearings.

Careful and regular attention to the lubrication requirements of the Forage Harvester and its attachments will keep them operating at peak efficiency, and will prevent premature wear of parts. The operator should become thoroughly familiar with all the points of lubrication and the intervals at which each one should be serviced.



CAUTION: DO NOT CLEAN, LUBRICATE, OR ADJUST THE FORAGE HARVESTER WHILE IT IS IN MOTION.

PTO DRIVE SHAFT ASSEMBLY (Pull-type Foragor)

Service the lubrication fittings on the PTO drive shaft assembly, shown in Figs. 8 and 9, at the intervals indicated. Use chassis, or a multi-purpose lubricant in all lubrication fittings. It may be necessary to rotate the PTO shaft by hand to align the fittings in the sliding shaft with the holes in the shield.

IMPORTANT: BE EXTREMELY CAREFUL WHEN LUBRICATING THE UNIVERSAL JOINTS TO AVOID DAMAGING THE SEALS.

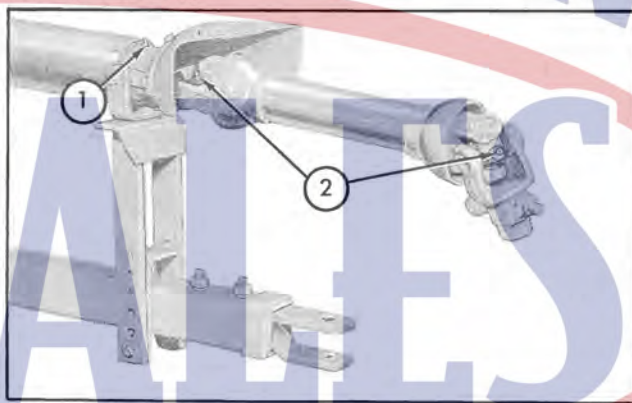


Fig. 8

1. Bearing-lubricate once daily
2. Universal joints-lubricate once weekly

Lubricate the bearing at each end of the lift pivot tube once each week.



Fig. 9

1. Bearings-lubricate once weekly
2. Sliding shaft-lubricate once weekly
3. Universal joint-lubricate once weekly