Hutchinson/Mayrath

ASSEMBLY INSTRUCTIONS

The following instructions are to be used for assistance with the set-up and installation of equipment, accessories, and serviceable parts used on this machinery and are not meant to replace any operating or safety procedures as outlined in the Operators Manual included with the auger.

This safety symbol is used throughout these instructions to alert you to information about unsafe actions or situations, and will be followed by the word DANGER, WARNING, or CAUTION. Be Alert! Your safety and the safety of others is involved.

DANGER – indicates immediate hazards that may result in severe injury or death. WARNING – indicates unsafe actions or situations that may cause severe injury, death and/or major equipment or property damage. CAUTION – indicates unsafe actions or situations that may cause injury, and/or minor equipment or property damage.

HYDRAULIC DRIVE KIT
Part No's.
6”-1008489, 8”-1010862 & 10”-1009874

6” HYDRAULIC DRIVE ASSEMBLY, Kit Part No. 1008489
Note: The kit for the 6” units includes a weld-on flanged ring. This ring can be welded to existing housings that do not currently have the flanged ring. Make sure the head plate is oriented correctly before welding the flange to the housing.

1. Slide the flight assembly into the auger housing.
2. On 6” Models, fasten the head bearing and flangettes to the outside of the head plate and secure using three 5/16” x 3/4” carriage bolts and nylon locknuts (bolt heads will be to the inside of the head plate, do not tighten the bolts completely at this time. The angles on the head plate will face towards the discharge end as shown in Fig. 1 below).
3. Insert the narrow end of the head stub through the bearing (insert from the outside of the bearing) and attach stub to the end of the flight using two 7/16” x 2 1/2” bolts and nylon locknuts.
4. Attach head plate to the housing flange using six 5/16” x 3/4” bolts and nylon locknuts. Once head plate has been secured, tighten the three head bearing bolts and secure lock collar into place.

Fig. 1
5. Insert the 1/4" x 1 1/4" square key into the keyway on the end of the head stub. Slide the flex coupler half with the pinhole, onto the end of the head stub and key, and secure with the 3/8" x 2" roll pin. Tighten the setscrew on the coupler half to secure square key into place (the flex coupler should set against the head bearing lock collar).

6. Attach the hydraulic motor to the outside of the motor mount and secure using four 3/8" x 3/4" bolts and lock washers (See Fig. 2).

7. Slide the other flex coupler half onto the hydraulic motor shaft and secure with the key supplied with the motor and the setscrew in the coupler.

8. Bolt the hydraulic motor mount to the head plate using four 1/2" x 1" bolts and nylon locknuts.

9. Loosen the setscrew in the coupler half that is on the hydraulic motor shaft. Connect the two coupler halves together using the chain and connecting links provided. Note: Leave a 1/8" gap between the two coupler halves, then retighten the setscrew to secure the coupler half to the motor shaft.

10. Bolt the hinged covers (located on the side of the motor mount) to the head plate using two 1/4" x 3/4" bolts, flat washers, lock washers and non-lock nuts.

**WARNING**

Do Not connect or disconnect hydraulic components when there is pressure within the system. Hydraulic systems are highly pressurized. Escaping hydraulic oil, even an invisible pinhole leak, can penetrate body tissues and cause serious injury.

Use a piece of wood or cardboard when looking for leaks, Never use the hands or other parts of the body.

When reassembling, make absolutely certain that all connections are tight. If injured by hydraulic oil escaping under pressure, see a doctor immediately. Serious infection or reaction can occur if medical attention is not received at once.

Keep all safety shields and devices in place.

11. Apply a thin coat of clean hydraulic oil to the o-rings on the hose ends. Connect the hydraulic hoses to the ports in the motor (o-ring fittings do not require pipe sealant). Note: Hoses are not furnished but can be ordered from the factory or obtained locally (See Parts Page for Part No. identification). The hose end required for motor connection is 7/8-14 w/O-ring Ports).

12. Check all fittings, hose connections and fastening hardware to ensure everything is tight.
8” HYDRAULIC DRIVE ASSEMBLY, Kit Part No. 1010862

1. Slide the flight assembly into the auger housing.
2. Bolt the head stub into the end of the flight using two 7/16 x 2 1/2” bolts and nylon locknuts.
3. Fasten the head bearing and flangettes to the outside of the head plate and secure using three 5/16” x 3/4” carriage bolts and nylon locknuts (bolt heads will be to the inside of the head plate, do not tighten the bolts completely at this time. The angles on the head plate will face towards the discharge end as shown below).
4. Slide the head bearing and plate over the head stub and attach the plate to the flange on the housing using four 3/8” x 1” bolts and nylon locknuts. **Note: only use the two upper and two lower slotted holes in the head plate for now, the two holes on the sides will be used to fasten the motor mounts hinged doors when it is installed. The top and bottom hole in the flanged ring will not be used.**
   Once the head plate has been attached, tighten the three bolts securing the head bearing and tighten the lock collar into place.

5. Insert the 1/4” x 1 1/4” square key into the keyway on the end of the head stub. Slide the flex coupler half with the pinhole, onto the end of the head stub and key, and secure with the 3/8” x 2” roll pin. Tighten the setscrew on the coupler half to secure square key into place (the flex coupler should set against the head bearing lock collar).
6. Attach the hydraulic motor to the outside of the motor mount and secure using four 3/8” x 3/4” bolts and lock washers (See Fig. 4).
7. Slide the other flex coupler half onto the hydraulic motor shaft and secure with the key supplied with the motor and the setscrew in the coupler.
8. Bolt the hydraulic motor mount to the head plate using four 1/2” x 1” bolts and nylon locknuts.
9. Loosen the setscrew in the coupler half that is on the hydraulic motor shaft. Connect the two coupler halves together using the chain and connecting links provided. **Note: Leave a 1/8” gap between the two coupler halves, then retighten the setscrew to secure the coupler half to the motor shaft.**
10. Bolt the hinged covers (located on the side of the motor mount) to the head plate and to the flange on the housing. Use two 3/8” x 1” bolts and nylon locknuts.

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**Fig. 3**

[Diagram showing assembly steps]
WARNING
Do Not connect or disconnect hydraulic components when there is pressure within the system. Hydraulic systems are highly pressurized. Escaping hydraulic oil, even an invisible pinhole leak, can penetrate body tissues and cause serious injury.

Use a piece of wood or cardboard when looking for leaks, Never use the hands or other parts of the body.

When reassembling, make absolutely certain that all connections are tight. If injured by hydraulic oil escaping under pressure, see a doctor immediately. Serious infection or reaction can occur if medical attention is not received at once.

Keep all safety shields and devices in place.

11. Apply a thin coat of clean hydraulic oil to the o-rings on the hose ends. Connect the hydraulic hoses to the ports in the motor (o-ring fittings do not require pipe sealant).

Note: Hoses are not furnished but can be ordered from the factory or obtained locally. The hose end required for motor connection is 7/8-14 w/O-ring Ports). See the parts list on the last page of these instructions for hydraulic hose identification.

12. Check all fittings, hose connections and fastening hardware to ensure everything is tight.
10” HYDRAULIC DRIVE ASSEMBLY, Kit Part No. 1009874

1. Slide the flight assembly into the auger housing.
2. Bolt the head stub into the end of the flight using two 7/16 x 3” bolts and nylon locknuts.
3. Fasten the head bearing and flangettes to the outside of the head plate and secure using three 5/16” x 3/4” carriage bolts and nylon locknuts (bolt heads will be to the inside of the head plate, do not tighten the bolts completely at this time. The angles on the head plate will face towards the discharge end as shown below).
4. Slide the head bearing and plate over the head stub and attach the plate to the flange on the housing using six 3/8” x 1” bolts and nylon locknuts. **Note: do not install the bolts in the holes on each side of the flange, these holes will be used to fasten the motor mounts’ hinged doors when it is installed.** Once the head plate has been attached, tighten the three bolts securing the head bearing and tighten the lock collar into place.

![Diagram of 10” Hydraulic Drive Assembly](image)

5. Insert the 1/4” x 1 1/4” square key into the keyway on the end of the head stub. Slide the flex coupler half with the pinhole, onto the end of the head stub and key, and secure with the 3/8” x 2” roll pin. Tighten the setscrew on the coupler half to secure square key into place (the flex coupler should set against the head bearing lock collar).

6. Attach the hydraulic motor to the outside of the motor mount and secure using two 1/2” x 1 3/4” bolts and nylon locknuts (See Fig. 6).

7. Slide the other flex coupler half onto the hydraulic motor shaft and secure with the square key supplied with the motor and the setscrew in the coupler.

8. Bolt the hydraulic motor mount to the head plate using four 1/2” x 1” bolts and nylon locknuts.

9. Loosen the setscrew in the coupler half that is on the hydraulic motor shaft. Connect the two coupler halves together using the chain and connecting links provided. **Note: Leave a 1/8” gap between the two coupler halves, then retighten the setscrew to secure the coupler half to the motor shaft.**

10. Bolt the hinged covers (located on the side of the motor mount) to the head plate and to the flange on the housing. Use two 3/8” x 1” bolts and nylon locknuts.
WARNING
Do Not connect or disconnect hydraulic components when there is pressure within the system. Hydraulic systems are highly pressurized. Escaping hydraulic oil, even an invisible pinhole leak, can penetrate body tissues and cause serious injury.
Use a piece of wood or cardboard when looking for leaks, Never use the hands or other parts of the body.
When reassembling, make absolutely certain that all connections are tight. If injured by hydraulic oil escaping under pressure, see a doctor immediately. Serious infection or reaction can occur if medical attention is not received at once.
Keep all safety shields and devices in place.

11. Apply a thin coat of clean hydraulic oil to the o-rings on the hose ends. Connect the hydraulic hoses to the ports in the motor (o-ring fittings do not require pipe sealant).
   Note: Hoses are not furnished but can be ordered from the factory or obtained locally. The hose end required for motor connection is 7/8-14 w/O-ring Ports). See the parts list on the last page of these instructions for hydraulic hose identification.

12. Check all fittings, hose connections and fastening hardware to ensure everything is tight.
# PARTS LIST

6”, 8” & 10” Hydraulic Drive Kit

## PARTS LIST

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<th>DESCRIPTION</th>
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The hydraulic hoses are not furnished. These can be obtained locally or ordered from the factory or through your dealer. The factory Part No. is 420030, these hoses are 1/2” x 72” with 7/8-14 O-Ring fitting on motor connection end and 1/2” male pipe fitting for tractor connection. **The tractor connection fitting is not furnished.**