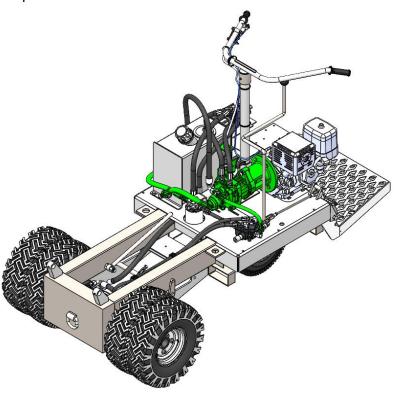


This document is for assisting the technician in installing kit part #809939 for converting the WBH16 from Eaton to a Hydro-Gear pump.



Safety First:

- ✓ To avoid injury, read and understand Operator's Manual before working on this machine.
- √ Follow safety lock-out tag-out procedures:
 - Remove ignition key
 - Disconnect battery cables
- ✓ Intended for experienced qualified technicians only
- ✓ **DO NOT** open hydraulic lines or loosen fittings while the engine is running, hydraulic oil can penetrate the skin, blind and cause burns
- ✓ Always wear safety glasses and appropriate attire

Tools Needed:

- Sockets and ratchet set Hand grinder or Sawzall
- Needle nose pliersWrench setHand drill3/8" drill bit
- 3/8" drill bit



Conversion Kit Part #809939 Parts List

Reference following page for corresponding parts item # bubble callouts

| Telefolice following page for corresponding parts from # babble callouts | | | |
|--|------------|--|-----|
| Item # | Part No. | Description | QTY |
| 10 | CIP3314 | Adapter 10-8 F5OX-S (CAD) | 4 |
| 20 | CIP492313J | Hex Head Bolt 3/8"NC X 1.1/2" G5 G. | 4 |
| 30 | CIP492358J | Hex/H Bolt 1/4"NC X 1.1/4" G5 G. | 1 |
| 40 | CIP492376J | Hex Head Screw 3/8"NC X 1.1/4" G5 G | 2 |
| 50 | CIP492583J | Nylon Insert Nut 3/8" NC G8 G. (CAD,2D) | 2 |
| 60 | CIP492624J | LOCK WASHER 3/8" G. (CAD,2D) DH | 6 |
| 70 | CIP500194 | Key 1/4" X 45 MM (CAD,2D) | 1 |
| 80 | CIP502625 | Key 1/4" X 25MM (CAD,2D) | 1 |
| 90 | CIP510717J | S/C SCR, 1/2-13 X1-3/4 G8.8, ZINC PLT DH | 2 |
| 100 | CIP512189 | Adapter 10 R6X-S (CAD,PDF) | 1 |
| 110 | CIP512190 | Adapter 6-8 F5OX-S (CAD,PDF) | 1 |
| 120 | CIP514230 | Adapter 10 V5OX-S (CAD,PDF) | 1 |
| 130 | CIP519337J | Belleville Washer 1/2" G. 25.2-13-2.5MM | 1 |
| 140 | CIP519967 | Adapter 6 C6X-S (CAD,PDF) | 1 |
| 150 | CIP808648 | Hose 6-6-6 (376.5 mm) | 1 |
| 160 | CIP808770 | Pump ASSY. with Activation Lever | 1 |
| 170 | CIP809826 | Pump-Coupling Spacer | 1 |
| 180 | CIP809845 | Engine-Coupling Spacer | 1 |
| 190 | CIP809988 | Coupling-Housing Kit for Engine and Pump | 1 |
| 200 | CIP810078 | Throttle Cable Bracket | 1 |
| 210 | CIP810079 | Neutral Stopper | 1 |
| 220 | CIP810080 | Hose 10-10-10 (392 mm) | 1 |
| 230 | CIP810081 | Hose 10-10-10 (583 mm) | 1 |

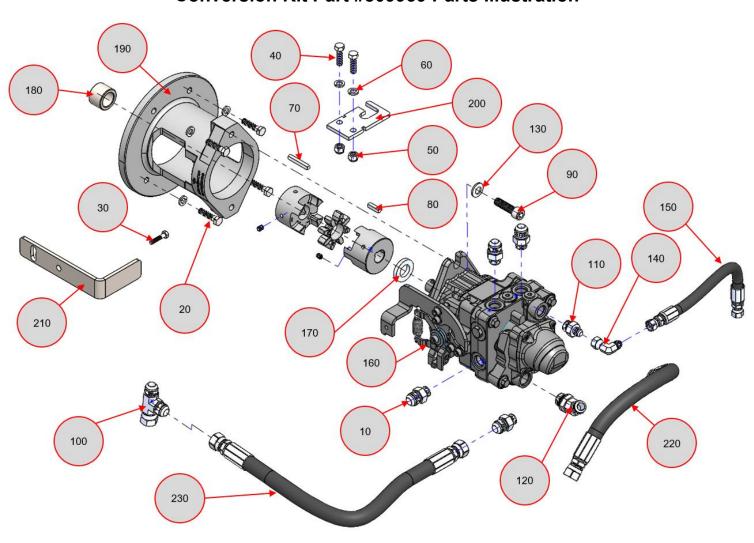




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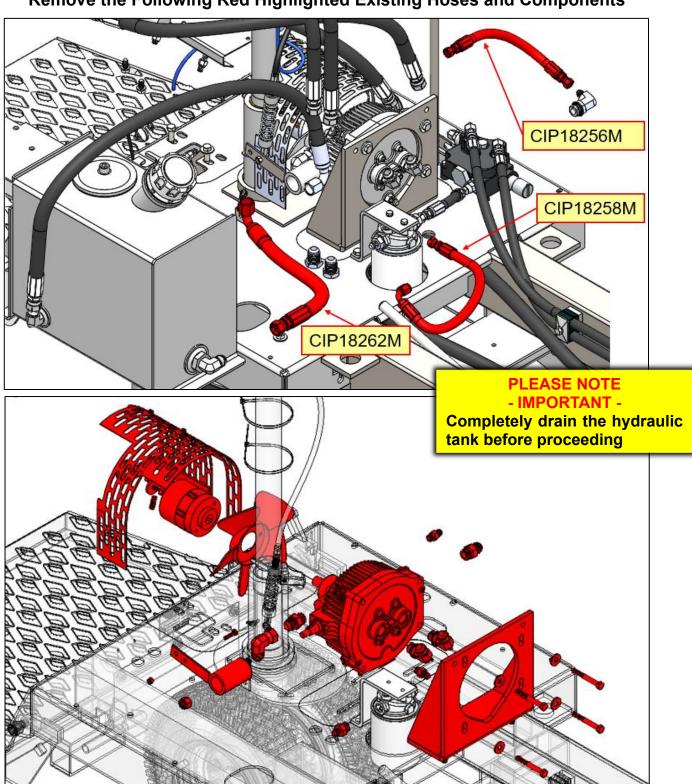
CONVERSION TO HYDRO-GEAR PUMP SYSTEM

Conversion Kit Part #809939 Parts Illustration

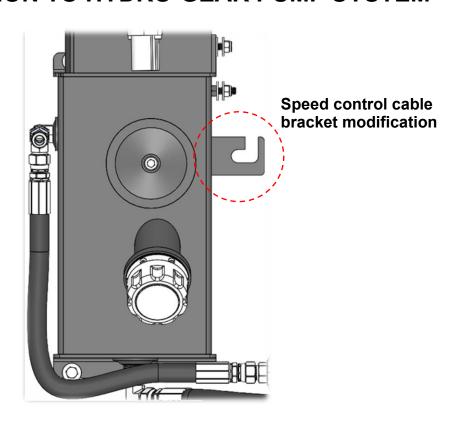


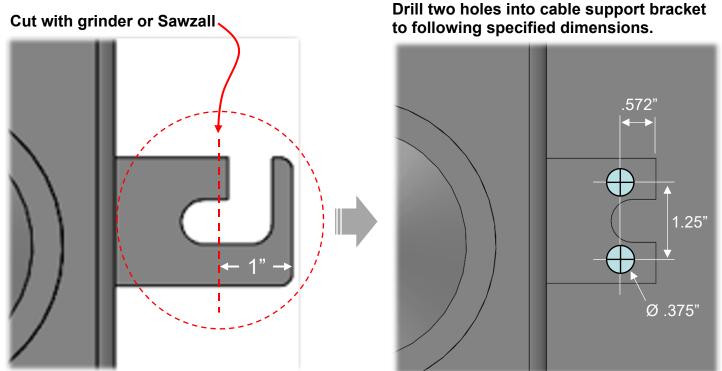


Remove the Following Red Highlighted Existing Hoses and Components







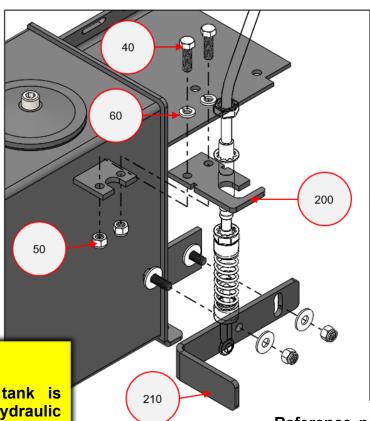








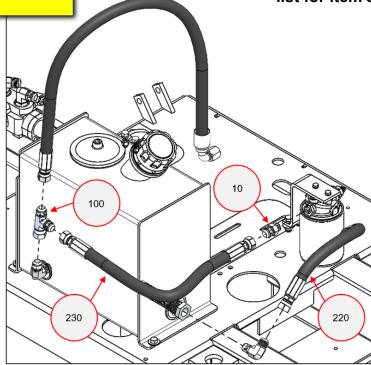
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PLEASE NOTE
- IMPORTANT -

While the hydraulic tank is empty, remove the hydraulic tank screen to clean or replace as needed

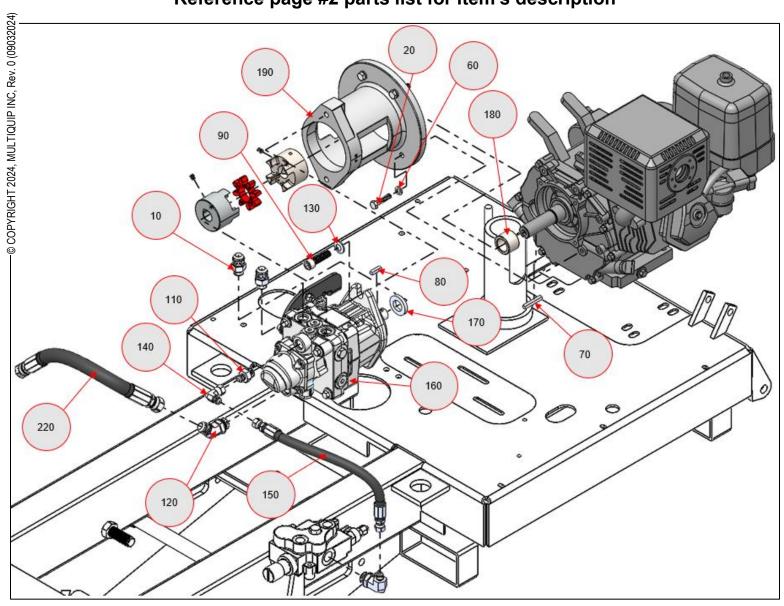
Reference page #2 parts list for item's description





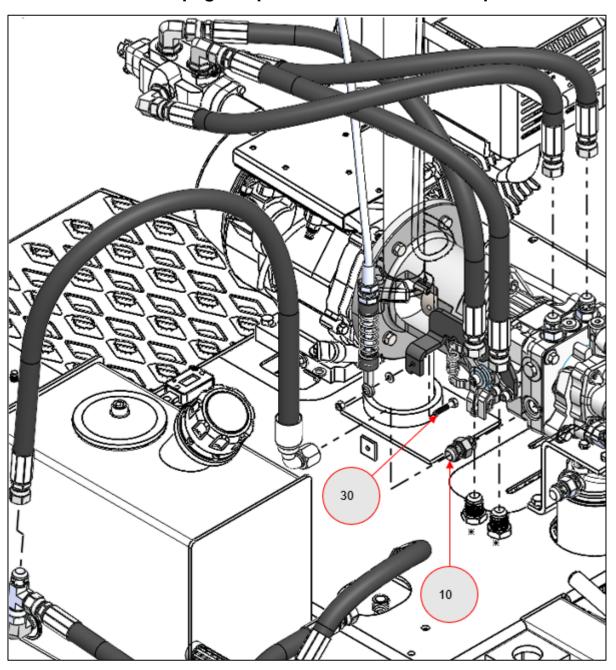


Kit installation continued (New Parts) Reference page #2 parts list for item's description





Kit installation continued (New Parts)
Reference page #2 parts list for item's description



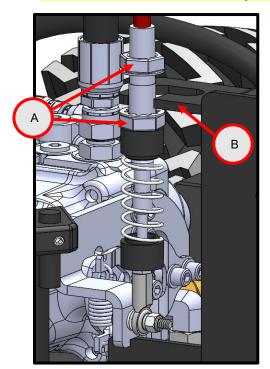
PRODUCT: **BUGGIES**MODEL: **WBH16EF**

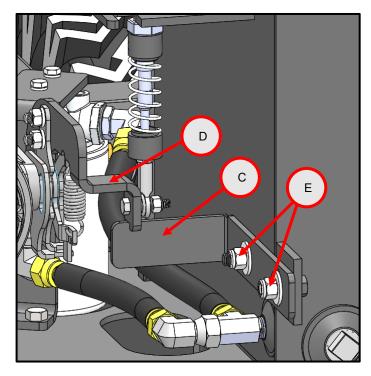
CONVERSION TO HYDRO-GEAR PUMP SYSTEM

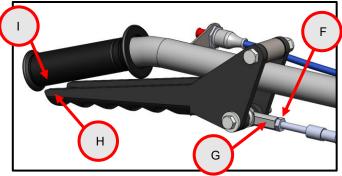
Pump - Neutral Lever Adjustment

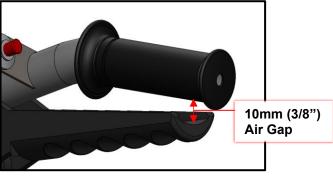
- Step 1: (A) Loosen the speed control cable jam nuts from hydraulic tank bracket (B).
- Step 2: Adjust speed control cable jam nuts until pump activation lever is set to neutral position.
- Step 3: Loosen nuts (E) and adjust stop (C) until it contacts pump lever (D), re-tighten nuts (E).
- **Step 4:** Loosen jam nut (F) and rotate rod (G) to set the speed lever (H) gap distance from the rubber grip (I) as shown on the image.
 - Make sure to re-tighten the jam nut (F)
 - With the lever squeezed closed, verify the pump lever is fully activated.

IMPORTANT: Make sure the pump lever has full movement without obstruction(s)









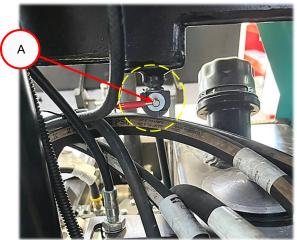


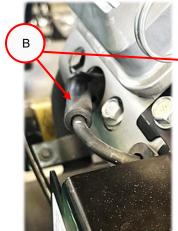
Bleeding Air from Hydro-Gear Pump

Important Preliminary Steps

- ✓ Fill oil reservoir with 5 gallons of SAE 15W-40 motor oil to level with the (black line) on sight glass
- ✓ Place machine off the ground on jack stands
- ✓ Shut off gasoline fuel valve
- ✓ Disconnect engine spark plug wire
- ✓ Proceed with the following pump and hydraulic system air purging procedure

Step 1: Shut off the fuel valve (A) and disconnect engine spark plug wire (B)

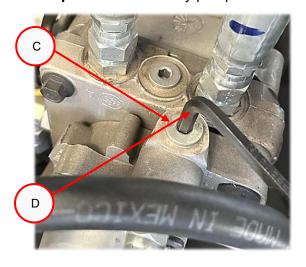


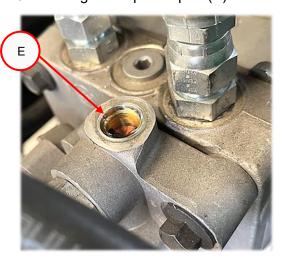




Step 2: Remove auxiliary pump port plug (C) using a 1/4" Allen key (D)

Step 3: Fill the auxiliary pump with SAE 15W-40 oil through the opened port (E)





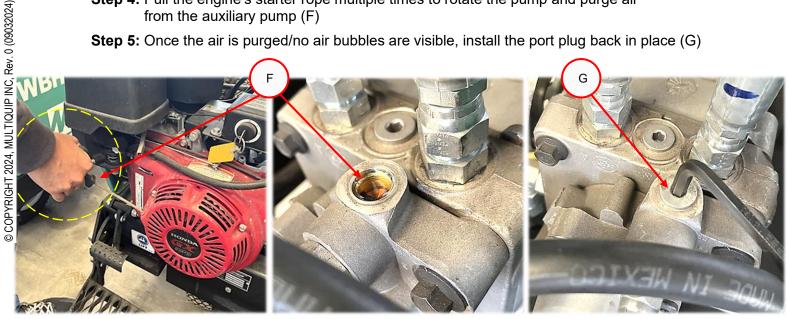




Bleeding Air from Hydro-Gear Pump

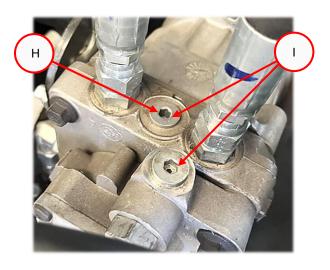
Step 4: Pull the engine's starter rope multiple times to rotate the pump and purge air from the auxiliary pump (F)

Step 5: Once the air is purged/no air bubbles are visible, install the port plug back in place (G)



Step 6: Remove main pump port plug (H) and fill with oil as in step 3, then follow the same procedures described in steps 4 and 5

Step 7: Once the air has been purged from both pump ports, verify both port plugs are tight (I)





Bleeding Air from Hydraulic System

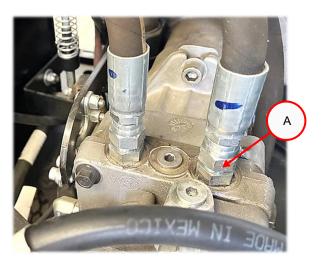
IMPORTANT: FIRST BLEED THE HYDRO-GEAR PUMP BEFORE PERFORMING THIS PROCEDURE

Step 1: Slightly crack open/loosen hose fitting (A)

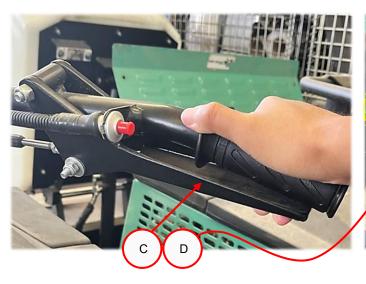
Step 2: Activate the directional valve lever to either forward or revers (B)

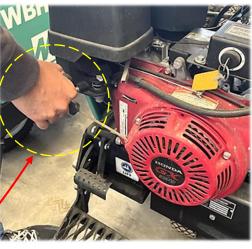
Step 3: Activate/squeeze the travel lever (C) and while activated, pull the engine starter rope multiple times (D) or use electric start to purge air from the (cracked) hose fitting.

Step 4: Once air is completely purged (no bubbles), tighten the hose fitting (A)







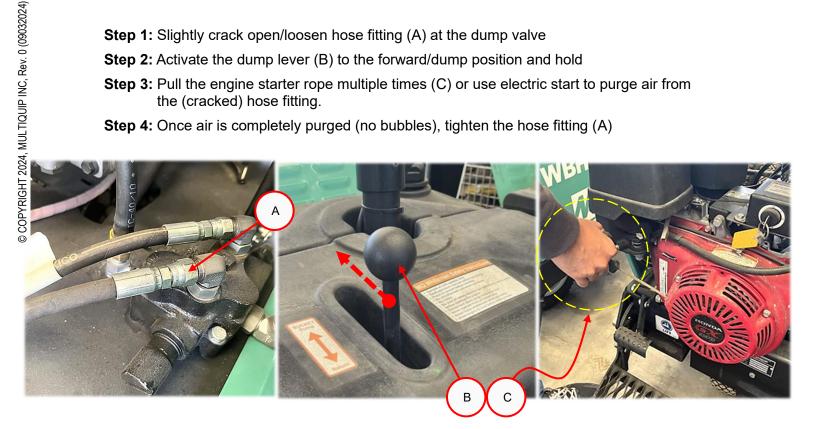




Bleeding Air from Hydraulic Cylinder

IMPORTANT: FIRST BLEED THE HYDRO-GEAR PUMP BEFORE PERFORMING THIS PROCEDURE

- Step 1: Slightly crack open/loosen hose fitting (A) at the dump valve
- Step 2: Activate the dump lever (B) to the forward/dump position and hold
- Step 3: Pull the engine starter rope multiple times (C) or use electric start to purge air from the (cracked) hose fitting.
- **Step 4:** Once air is completely purged (no bubbles), tighten the hose fitting (A)



Once installation is completed and the hydraulic system is purged of air

- 1. Open the fuel valve
- 2. Reconnect the spark plug cap
- 3. Start the engine
- 4. Place the directional control lever in the forward position and check for wheel movement.
- 5. If wheel movement/creep is noticed, proceed with instructions on page #9 "Pump -**Neutral Lever Adjustment**"
- 6. Remove machine from jack stands, installation is completed.