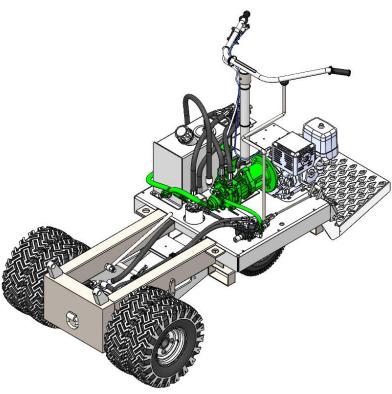


This document is for assisting the technician in bleeding the hydraulic pump and system after installing a new Hydro-Gear pump.



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
- Wrench set
- Allen Wrench set



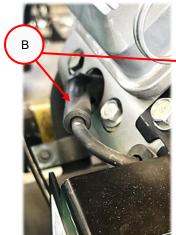
Bleeding Air from Hydro-Gear Pump

Important Preliminary Steps

- ✓ If needed, add SAE 15W-40 motor oil to reservoir 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)

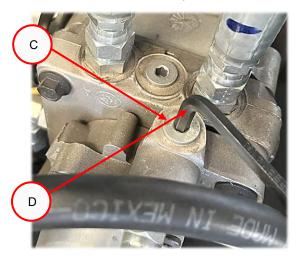






Step 2: Remove auxiliary pump port plug (C) using a 1/4" Allen key (D)

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





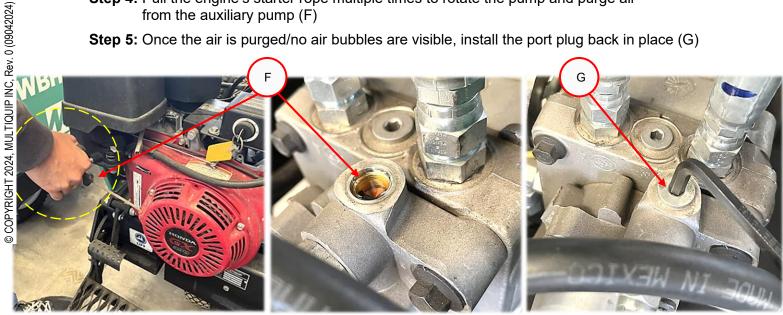




Bleeding Air from Hydro-Gear Pump

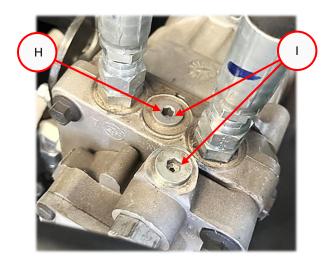
Step 4: Pull the engine's starter rope multiple times to rotate the pump and purge air from the auxiliary pump (F)

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)

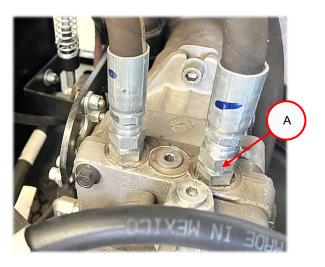




Bleeding Air from Hydraulic System

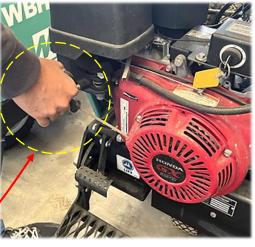
IMPORTANT: FIRST BLEED THE HYDRO-GEAR PUMP BEFORE PERFORMING THIS PROCEDURE

- 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)









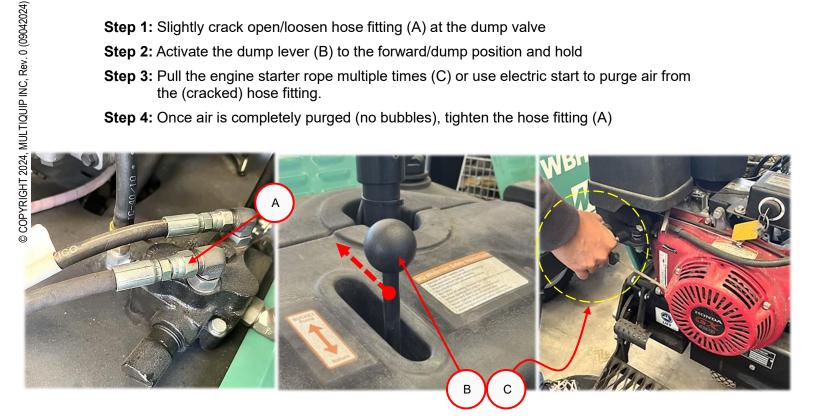




Bleeding Air from Hydraulic Cylinder

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 hydraulic pump and 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 the following page #6 "Pump - Neutral Lever Adjustment"
- 6. Remove machine from jack stands, installation is completed.

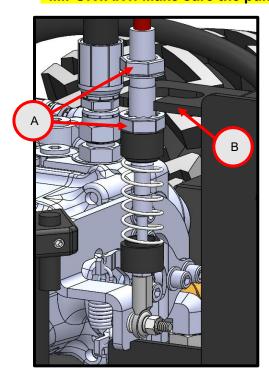
PRODUCT: **BUGGIES**MODEL: **WBH16EF**

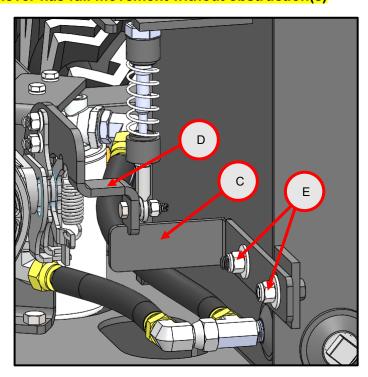
HYDRO-GEAR PUMP & SYSTEM BLEEDING INSTRUCTIONS

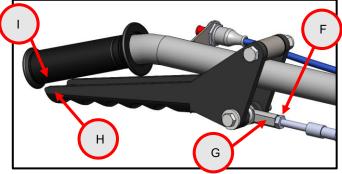
Pump - Neutral Lever Adjustment

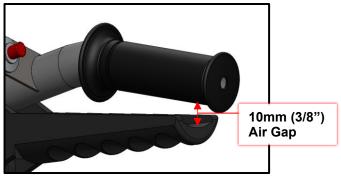
- Step 1: (A) Loosen the speed control cable jam nuts from hydraulic tank bracket (B).
- Step 2: Adjust speed control cable jam nuts until pump activation lever is set to neutral position.
- Step 3: Loosen nuts (E) and adjust stop (C) until it contacts pump lever (D), re-tighten nuts (E).
- **Step 4:** 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)









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