

EATON HYD. PUMP REPLACEMENT AIR PURGING

This document is to help guide the technician in the procedures for purging air from the WBH16 hydraulic systems in the event the hydraulic pump is replaced. The following procedures **MUST BE** followed to successfully purge any trapped air thus avoiding potential cavitation damage.

GENERAL SAFETY

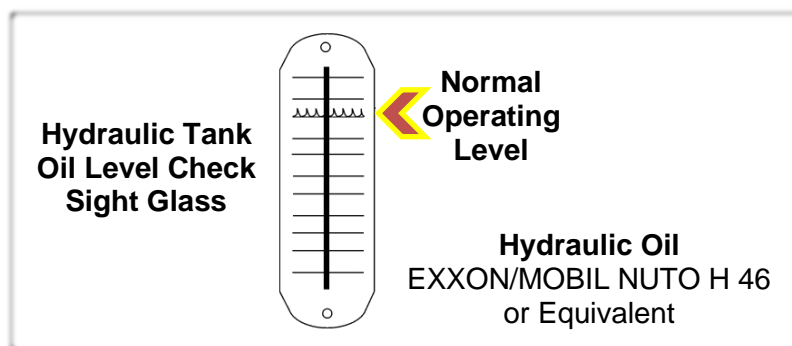
CAUTION

- **NEVER** operate this equipment without proper protective clothing, shatterproof glasses, respiratory protection, hearing protection, steel-toed boots and other protective devices required by the job or city and state regulations.



INITIAL PREPARATION FOR PURGING THE (CHARGE PUMP, DUMP & DRIVE SYSTEMS)

- 1) Two people will be needed to perform the purging procedures, one to crack hose fittings loose and observe purging and a second to crank the engine over.
- 2) Make sure the work area and hydraulic systems are 100% free of contamination (hydraulic tank, hoses, fittings, valves and filters etc.)
- 3) Place the tub in the upright position and secure with the safety bar
- 4) Disconnect the spark plug wire
- 5) Ensure the hydraulic tank oil level registers full, add or subtract as needed, see below illustration
- 6) On a flat level surface; lift the machine off the ground and safely/securely place on jack stands.
- 7) Place oil containment tray(s) under the machine
- 8) Turning the engine over will be needed by either of the following two methods:
 - Manual pull start recoil, (remove spark plug if using this method)
 - Electric starter (ensure battery is fully charged), engage in 3 second intervals



Continued on page #2



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CHARGE PUMP AND DUMP SYSTEM PURGING PROCEDURE (Ref. page 3)

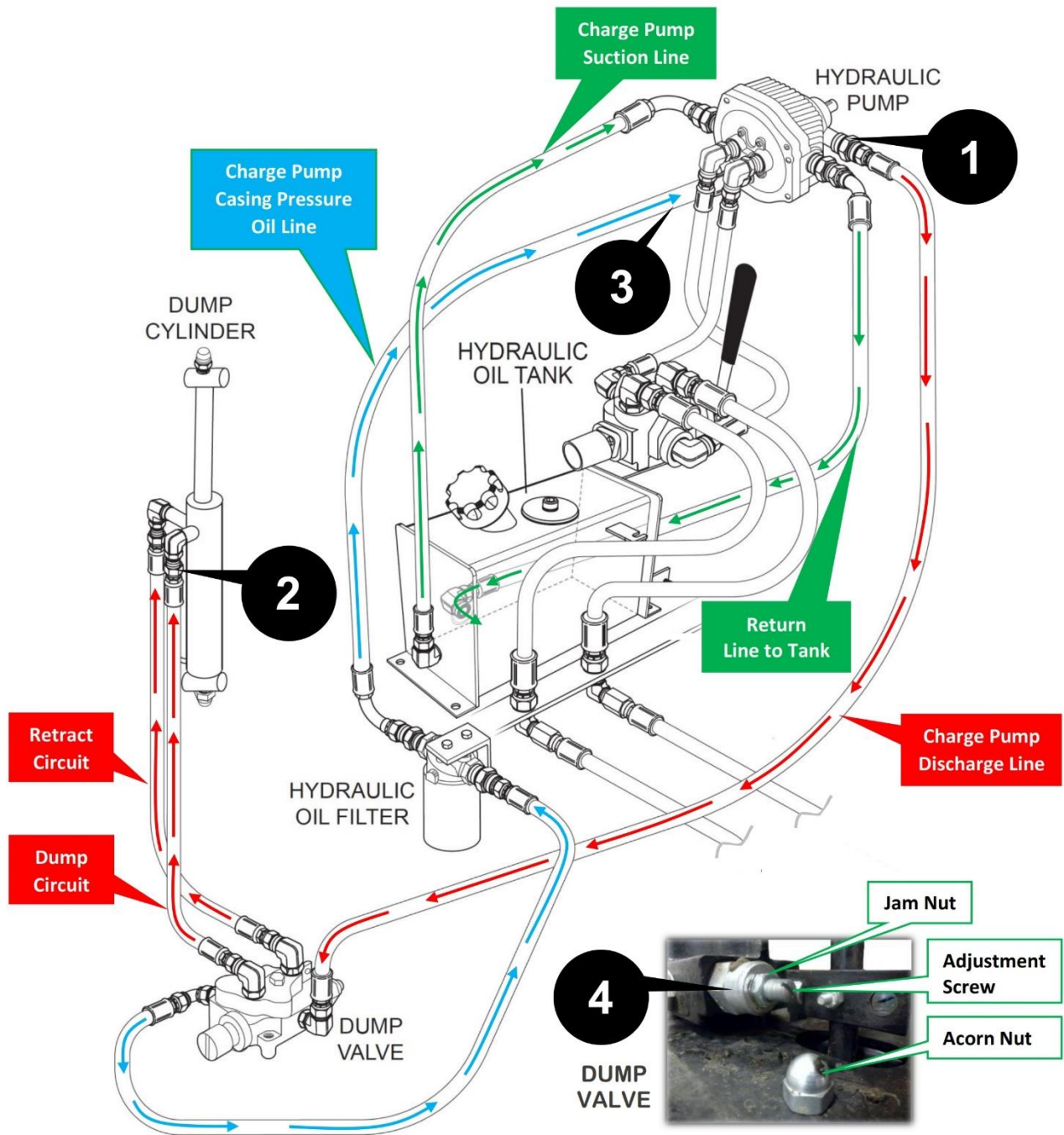
- 1** Crack the hose fitting loose at the charge pump output port:
 - Crank engine over intermittently until a solid stream of oil is observe then tighten the fitting
- 2** Place the dump lever all the way in the full forward/dump position and hold:
 - Crack the hose fitting loose at hydraulic cylinder extend/dump circuit
 - Crank engine over intermittently until a solid stream of oil is observe then tighten the fitting
- 3** Place the dump lever in the center position:
 - Crack the hose fitting loose at the “hydraulic pump’s casing pressure port” at the back of the hydraulic pump.
 - Crank engine over intermittently until a solid stream of oil is observed then tighten the fitting
- 4** Fully open the relief valve of the directional control/dump valve:
 - Remove Acorn Nut, loosen Jam Nut & back out adjustment screw all the way
 - Connect spark plug wire
 - Start the engine and fully cycle the bucket up and down for approx. 3~4 times.
 - Reset the relief valve pressure setting to 1000 PSI while the oil is hot. Reference (Technical Information document “WBH Dump Cylinder Charge Pump PSI Test”).

DRIVE SYSTEM PURGING PROCEDURE (Ref. page 4)

- 1** Operate the drive system in FORWARD (**F**) for approx. 5~6 sec.:
 - Stand clear of drive wheels and ensure they will not contact anything while rotating
 - Squeeze travel lever fully for approx. 5~6 seconds then release
 - Ensure the hydraulic tank oil level registers full, add as needed
 - The air purging procedure is completed

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DRIVE SYSTEM PURGING PROCEDURE: 1

