

# Step-By-Step Instructions for G-TEC Cooler Line Flusher Upgrade TTCF-6D to TTCF-7AR

Note: Always use pipe thread seal tape on all fitting threads.



1. Remove 6 (or 8) ft. blue hose from elbow fitting on purge valve.



2. Unscrew 6 (or 8) ft. red hose & barb from top of cast iron 3-way.



3. Remove two 1/4"x3/4" bolts from purge valve & save for reuse.

Note: You may have a 4-way instead of a 3-way.



4. Hold purge valve away from flusher & cut 1/2" off flowmeter-to-purge valve hose at the purge valve end.



5. Mount purge valve in a vise & remove 3/8" straight barb from as shown above.



6. Install 90° barb fitting in place of the removed straight barb at a 45° angle down from the purge mounting flange.



6b. Rotate the 2<sup>nd</sup> 90° barb fitting (opposite the handle) 45° from the purge valve handle. Set purge valve aside.



7. Remove hose from Watts pressure relief valve (must cut off clamp).



8. Remove Watts valve & 3- or 4-way from front of pump.

Note: If you have a 4-way, skip step 9.





9. Remove Watts valve from 3-way. Retape Watts valve and new check valve, install both on new 4-way. **Caution: Arrow on check valve MUST point toward 4-way.**



12. Install 90° street elbow into bushing.



**Note:** Check all connections for tightness.



17. Loosen two front motor mount bolts.



10. Install Watts valve assembly in front of pump. Reconnect blue hose to 90° hose barb on Watts valve (not shown).



13. When elbow is nearly tight, install air valve assembly.



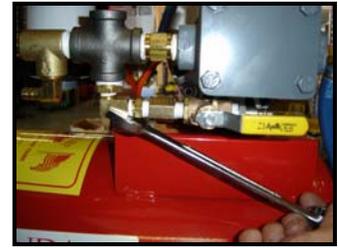
15. Install straight barb with 11" red hose into top of 4-way.



18. Remove two rear motor mount bolts.



11. Install bushing in bottom of 4-way.



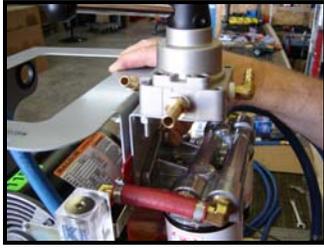
14. When the air valve assembly is nearly tight (handle must be on left side) rotate assembly to rear of flusher underneath pump.



16. Remove 3 mounting bolts that hold oil filter bracket. Set filter bracket aside for now.



19. Install large grey bracket over motor sliding flange between motor footprint and tank. Make sure to align all bolt holes. Replace rear motor mount bolts/washers and tighten front bolts.



20. Line up large grey bracket, reverser bracket and filter bracket on the red tank flange so that the 3 holes align. Valve should set over oil filter bracket.



21. Install three new 1/4"x1" bolts. Make sure all three are tight.



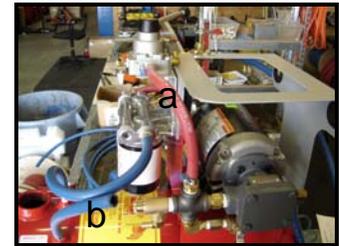
22. Install purge valve on large grey bracket in holes provided using two original bolts. Tighten.



23. Connect hose from flowmeter to purge valve elbow and tighten worm clamp.



24. Connect 10 1/2" blue hose from purge valve to straight bar on reverser, labeled EXH. Tighten worm clamps.



25. a. Connect 11" red hose from top of 4-way to straight bar on reverser, labeled IN. Tighten worm clamps.

b. Connect loose blue hose from center of tank to elbow barb under Watts pressure relief valve. Tighten worm clamps.

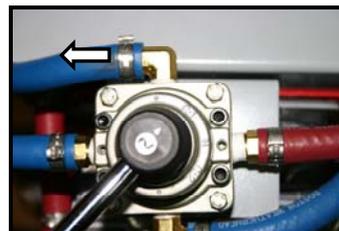


26. Connect one 8ft. blue hose with QD to elbow on reverser, labeled OUT-2.

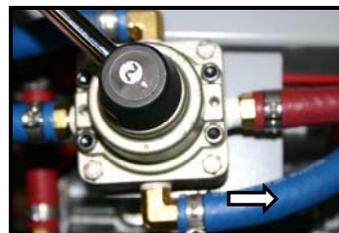


27. Connect one 8 ft. blue hose with QD to elbow on reverser, labeled OUT-1.

## Reversing Operation



When the white arrow on top of the Reverser points toward C1, the fluid flows from the indicated hose into the cooling system becoming a "pressure" line and making C2 the "return" line.



When the lever is turned so that the white arrow on top of the Reverser points toward C2, the fluid reverses and flows from the indicated hose into the cooling system becoming a "pressure" line making C1 the "return" line.