

Instructions for the 1999-2003 FORD 7.3 High Performance Pump Kit

1. Disconnect the battery.
2. Remove the intake tube from the intercooler to the Turbo. Additionally disconnect the hoses to the power steering pump and wiring to the alternator.
3. Remove alternator and then remove the power steering bracket as one unit with the pump attached.
4. Measure the distance from the back of the pulley to the bracket and mark that spot on the bracket. Record the measurement here for use later. _____
5. Remove the pulley with a proper tool. Remove the pump. Save the 3 mounting bolts.
6. Modify the aluminum bracket by cutting as shown. **See Fig 1,2,3**

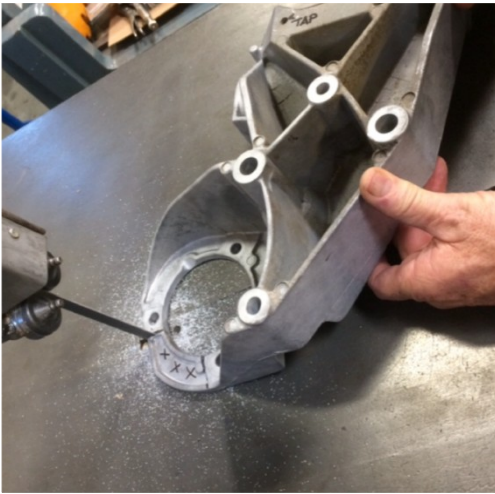


Fig 1

Fig 2



Fig 3



7. Install the new pump with the original 3 bolts. Install the $\frac{3}{4}$ fill hose to the pump.
Place the head of the hose clamp between the hose and the pump housing. The intake tube lays right next to the 90 degree fitting on the pump and should not contact the head of the hose clamp. **See Fig 4**
8. Reinstall pump pulley and check original measurement recorded above.
9. Reinstall the aluminum bracket and pump as one unit and tighten bolts.



Fig 4

10. Reinstall the alternator starting the two inner bolts first, finger tight. Place the 3rd alternator bolt through the large hole in the alum. reservoir bracket and then through the large hole in the steel support bracket and loosely start the alt. bolt. Start the self-tapping bolt into the hole at the rear of the stock P.S./Alt. bracket that was used for the wire tie. Once aligned, tighten all the bolts.
- **Some aftermarket alternators have a larger case and require that the rear of the reservoir bracket be trimmed slightly** See Fig 5,6**



Fig 5

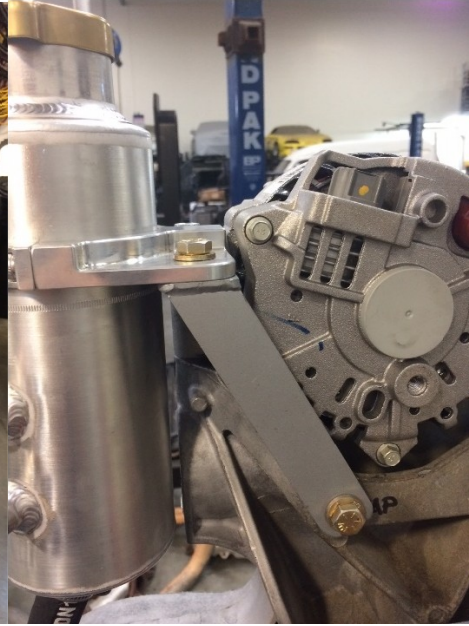
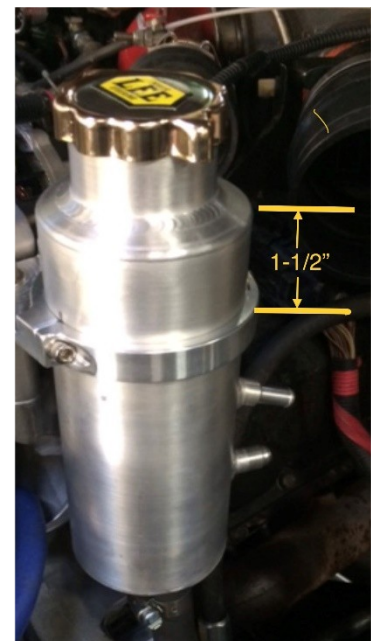


Fig 6

11. Remove the outer half of reservoir clamp. Slip reservoir into the inlet hose, align the return and hydroboost fittings and tighten upper hose clamp and reservoir outer bracket. Reservoir should not exceed 1-1/2" from top of clamp to the top of the reservoir body. **See Fig 7**
12. Remove stock pressure line and adapter to hydroboost and install the enclosed -6 adapter fitting into hydroboost. (fitting will seat in the bore, no o-ring required)
13. Connect the supplied high pressure 90 degree hose end to the pump. Route the line up to the hydroboost and connect straight fitting to the 90 degree swivel adapter. Tighten all fittings.
14. Make up a new return line from the cooler under the radiator to the bottom reservoir fitting using the 90 degree push on hose end and hose clamp.

Fig 7



15. Mount inline filter (*if purchased separately*) to side of the air box and in between the cooler and reservoir return. **See Fig 8**

Pay attention to the in and out markings on the filter. In- from cooler out- to reservoir. Attach return line to reservoir using 90 degree slip fit. & hose clamp.

16. Attach hydroboost return to upper barb fitting using stock line.

17. Reinstall intake tube and all other components. Reattach battery.

18. Check tightness on all bolts and fittings. Follow bleeding instructions on enclosed yellow card.

19. Bleed the system. Check that all hose end connections are tight. Jack up the truck until the front tires are off the ground. Secure with jack stands. Pour fluid into the reservoir up to second baffle down.

Do not start the truck! Turn key to unlock steering wheel. Slowly turn the steering wheel all the way to the right and then all the way to the left. Repeat until no more bubbles come up in the reservoir. It helps to have a second person watch and listen while turning. The oil will be slightly aeriated but that is to be expected at this point. Do not stick your arm through the steering wheel to reach the ignition key. Sometimes air in the system can cause steering to jump. Start the truck and quickly shut off. Recheck the fluid level. The oil should just cover the 2nd baffle down.



Fig 8

1999-2003 FORD 7.3 PUMP KIT PACKING LIST	PART	QTY
1) PUMP AND MOUNTING BRACKET ASSEMBLY	N-PUMP (through holes, 1.85 liner, needle bearing thrust shaft turned down to 11/16" for ford pulley, 90 deg 3/4" barbed inlet fitting)	1
	N-PUMP TO FORD ADAPTOR PLATE (INSTALLED ON PUMP)	1
	2-FLAT HEAD ALLEN 10MM X 1.5 X 100MM	2
	2-NULOCK FLANG NUT 10MM X 1.5	2
	1 FLAT HEAD ALLEN 10MM X 1.5 X25MM	1
2) RESERVOIR	RESERVIOR 3.5" X 8" SPECIAL FORD	1
3) RESERVOR CLAMP	BILLET RESERVOIR CLAMP 3.5" SMOOTH-HORIZONTAL	1
4) HARDWARE & FITTINGS	PUSH ON HOSE END (-6 X 90 DEG)	2
	FITTING (-6 SWIVEL 90° JIC)	1
	HYDROBOOST FITTING (18M TO -6 LONG)	1
	1-1/16" HOSE CLAMP	2
	3/8" HOSE CLAMP	2
5) RESERVOIR MOUNT BRACKET & HARDWARE	90 DEGREE STEEL RESERVOIR MOUNT BRACKET	1
	5/16 X 1" HEX HEAD BOLT	1
	5/16 LOCK NUT	1
	5/16 X 1" SELF TAP BOLT	1
	5/16 FLAT WASHER	2
6) PRESSURE HOSE	PRE-MADE PRESSURE HOSE (3' LENGTH, 90 DEG -6, STRAIGHT -6 JIC)	1
7) FEED HOSE	3/4" FEED HOSE 7" LENGTH	1
8) RETURN HOSE	3/8" RETURN LINE HOSE 4' LENGTH	1





As of January 2022 the kits will be shipping with this reservoir. The upper return (hydro boost return) is now a -6 AN fitting. This allows better fitment with aftermarket air boxes. An additional 90 degree push lock fitting has been added to bag #4 in the hardware kit.