



Check Valve Kit for 12-125 Pump (P/N 12-819)
Check Valve Kit for 12-150 Pump (P/N 12-820)
Gerotor kit for 12-125 and 12-150 pumps (P/N 12-821)

Installation Instructions 199R10465

WARNING! These instructions must be read and fully understood before beginning installation. Failure to follow these instructions may result in poor performance, vehicle damage, personal injury, and/or death.

INTRODUCTION:

Congratulations on your purchase of the fuel pump service kit! Holley Performance Products cannot and will not be responsible for any alleged or actual engine or other damage, or other conditions resulting from misapplication of the system described herein. However, it is our intent to provide the best possible products for our customer; products that perform properly and satisfy your expectations. Should you need information or parts assistance, please contact our Technical Service Department at 1-270-781-9741, Monday through Friday, 7 a.m. to 5 p.m. Central Time; please have the part number of the product you purchased ready when you call.

NOTE: This repair kit is designed to repair the mechanical portion of the electric fuel pump only. The electrical portion (top part) and shaft seal should not be disassembled because special equipment is necessary for re-assembly.

Before removing the pump from the car, check:

- a) The voltage to the pump to ensure a 12 volt supply.
- b) The fuel line for any obstruction. (Use compressed air to blow the line free. Caution: disconnect the fuel line from the carburetor before using compressed air.)
- c) The fuel filter for contamination.
- d) The pump motor by turning on the pump and listening for a hum from the top of the unit. If there is not hum, the pump electrical system should be checked by a competent repairman.

REPAIRING THE PUMP: (CHECK VALVE REPLACEMENT)

DISASSEMBLY:

The following is a step by step procedure for repairing and cleaning the Holley 12-125 and 12-150 electric fuel pumps. Do all of the disassembly on a clean work surface. Read all instructions thoroughly and completely before starting.

1. Remove the pump from the vehicle.
2. Remove the three 3/16 Allen head screws from the bottom of the pump (**Figure 1**).
3. Hold the pump with the motor to the bottom and remove the bottom housing assembly, gasket, o-ring and gerotor cover plate making sure the gerotor set does not fall out (**Figure 2**).
4. Remove the inlet fitting.
5. Remove the screen filter from the "IN" side of the pump by pushing it out with a flat tip screwdriver (**Figure 3**).
6. Remove the pressure relief plug. Screw is spring loaded so exercise caution.

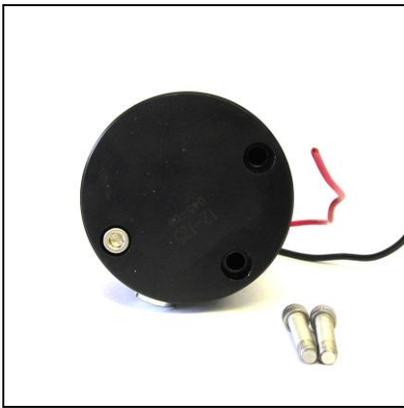


Figure 1

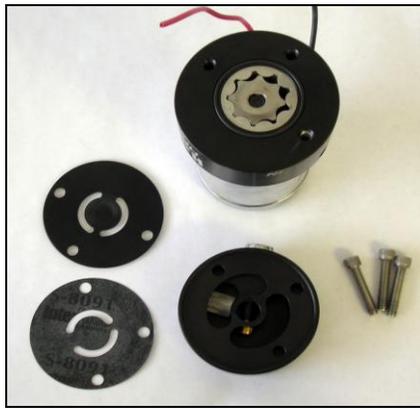


Figure 2

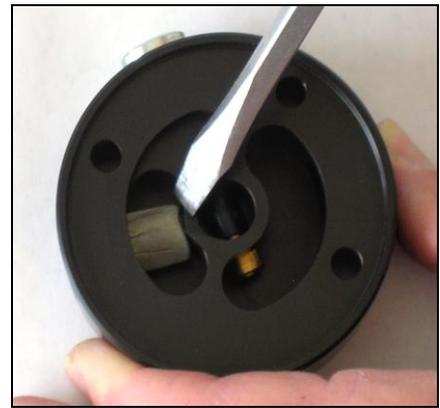


Figure 3

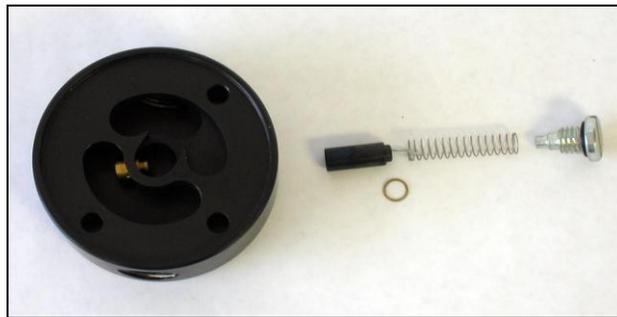


Figure 4

7. Remove spring and plunger assembly (**Figure 4**). (Note: There may be a small brass shim installed on the plunger where the spring seats. Make sure to save this as it will be reused.)
8. Clean the base assembly with a good quality carburetor cleaner (spray type only) and blow dry with compressed air.

ASSEMBLY:

1. Take the new plunger and plunger seal from the kit. Install the seal into the end of the plunger making sure it is seated all of the way (**Figure 5**).
2. Install the plunger assembly and new spring into the base (Make sure to re-install the shim from the original plunger if one was used). Make sure the plunger moves freely in the bore.
3. Replace the o-ring (supplied) on the relief valve plug and re-install the plug. Torque to 75-100 inch pounds.
4. Install the new inlet screen into the "IN" side of the pump. Use a small punch to seat the screen into place. Re-install the inlet fitting.
5. Reattach the base assembly and gerotor cover plate to the pump using a new gerotor plate gasket and gerotor o-ring. (The gerotor plate and gasket will only go one way.) Torque the three bottom housing screws to 30 inch pounds.
6. Replace pump in the vehicle.
7. Turn on ignition and check for any leaks.

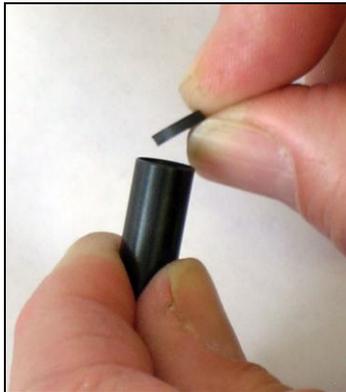


Figure 5

REPAIRING THE PUMP: (GEROTOR REPLACEMENT)

DISASSEMBLY:

The following is a step by step procedure for repairing and cleaning the Holley 12-125 and 12-150 electric fuel pumps. Do all of the disassembly on a clean work surface. Read all instructions thoroughly and completely before starting.

1. Follow steps 1 thru 3 as outlined in the Check valve replacement.
2. Remove the gerotor set by inverting the fuel pump (**Figure 6**).
3. Clean the base assembly and gerotor pocket with a good quality carburetor cleaner (spray type only) and blow dry with compressed air.
4. Inspect the gerotor and gerotor pocket for major scoring. (Grooves cut into the gerotor pocket going thru the coating and into the aluminum.) If major scoring is present, the pump cannot be rebuilt and should be replaced.



Figure 6

ASSEMBLY:

1. Install the new gerotor set by taking the inside gear and locating it on the motor shaft with the "D" slot. Rotate the outer ring until it lines up with the teeth on the inside gear and slip it into place.
2. Reattach the base assembly and new gerotor cover plate to the pump using a new gerotor plate gasket and gerotor o-ring. (The gerotor plate and gasket will only go one way.) Torque the three bottom housing screws to 30 inch pounds.
3. Replace pump in the vehicle.
4. Turn on ignition and check for any leaks.



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