

# Dual 194 Fluid Exchanger

## Power Steering Flush OPERATIONS MANUAL

ATTENTION: Always wear protective devices for eyes and hands when operating this machine. Always set PARKING BRAKE and install fender covers when working on a vehicle.

- 1) Pour new oil into the New Fluid tank. If using a conditioner pour it into the tank first.
- 2) Connect the power cord to a 12 volt DC battery (RED + BLACK -)
- 3) Attach TWO hose adapters (small or large) to the end of the blue and black hoses.
  - ✎ Longer hose to the BLUE NEW OIL hose
  - ✎ Shorter hose to the BLACK USED OIL hose. If using a cleaner - place the shorter Black hose into the Vehicles Power steering oil tank and pump out sufficient amount of fluid for the cleaner fluid by turning on the USED OIL switch. Then add the cleaner into the reservoir.
- 4) Make sure there is enough space in the used tank.
- 5) Start the engine and turn steering wheel 12 times both directions. Leave steering wheel turned to the left.
- 6) Place BOTH Black and Blue hoses into the power steering pump tank. Turn on both switches (new and used on the remote control) at the same time (you may have to turn off the new or used fluid switch during the exchange). Turn off both switches when there is about 4-6 oz left of new fluid in the container for top up.



## Brake Fluid System Service OPERATIONS MANUAL

ATTENTION: Always wear protective devices for eyes and hands when operating this machine. Always set PARKING BRAKE and install fender covers when working on a vehicle.

### AT ALL TIMES MAKE SURE NOT TO ALLOW ANY FLUID TO DRIP ON THE VEHICLE PAINT

- ⌚ Make sure the used fluid tank is not over full
- ⌚ Fill new fluid tank with proper amount of new fluid (max 2qt/2 LIT)
- ⌚ Remove the reservoir cap on the vehicle
- ⌚ Connect shop air to the machine and turn the diverter valve to "EMPTY VEHICLE USED FLUID RESERVOIR" position
- ⌚ Attach a hose adapter to the long black used fluid hose (with valve closed)
- ⌚ Place the hose in the fluid reservoir and open the valve on the adapter hose to vacuum out all the used fluid.
- ⌚ Make sure to clean out the fluid reservoir. Turn leak test valve to off position.
- ⌚ Remove the hose adapter and disconnect the air supply from the machine
- ⌚ Attach the power cord to vehicle battery (red to + and black to -)
- ⌚ Attach the transparent hose adapter to the long new fluid red hose (with valve closed)
- ⌚ On the BFS machine press the pump switch to ON position and if needed adjust the new fluid valve (left valve) to 10-20 psi.
- ⌚ Then place the adapter in the reservoir and open the valve slowly to fill the reservoir to appropriate level as marked.



**After service you MUST test drive vehicle and THEN check fluid levels once again.**

- ⌘ Turn off the switch, then remove the hose adapter
- ⌘ Install the proper reservoir adapter tightly and connect the long red hose to the adapter
- ⌘ Press the switch to ON position, if needed adjust the valve to 10-20 psi on the machine. Check for leaks. If there is a leak tighten the adapter or lower the psi until the leak stops
- ⌘ Attach the long clear bleeder hose adapter to the long black hose, reconnect shop air and turn diverter valve to "EMPTY VEHICLE USED FLUID RESERVOIR" position. Attach the hose to the bleeder screw and open the ball valve slightly (not fully open). Bleed the brake system according to the manufacturer's directions (10-15 seconds per wheel).
- ⌘ To perform a leak test turn the leak test valve to on position and observe the pressure gauge, if it drops drastically check for leaks.
- ⌘ When new fluid tank is empty, the machine will stop automatically to eliminate pumping air into the brake system
- ⌘ Turn off switch and remove the red hose and adapter from reservoir
- ⌘ Adjust fluid level if necessary
- ⌘ Empty used fluid tank by connecting shop air to the machine, if needed adjust the regulator to max 10 psi. On the machine turn valve to empty used fluid tank.
- ⌘ Attach a hose adapter to the long black hose, and open valve.

**After service you MUST test drive vehicle and THEN check fluid levels once again.**

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