

## Hydraulic System

### Transmission Fluid Pump

For component location, refer to [Transmission](#) in this section.

- The transmission fluid pump provides the transmission fluid pressure necessary to charge the torque converter, main control assembly, transmission cooling system, lubrication system and apply devices.
- The transmission fluid pump is a positive displacement, gear type pump.
  - The transmission fluid pump is driven by the torque converter impeller hub.

### Filter

For component location, refer to [Transmission](#) in this section.

- All transmission fluid drawn from the transmission fluid pan by the transmission fluid pump passes through the transmission fluid filter.
- The transmission fluid filter and its accompanying seals are part of the transmission fluid path from the sump (pan) to the transmission fluid pump.
  - The transmission fluid filter has a bypass section which allows transmission fluid vented at the main regulator valve to be recirculated to the transmission fluid pump, without passing through the transmission fluid filter.

### Main Control

For component location, refer to [Transmission](#) in this section.

- The main control assembly and related components are part of the pressure side of the hydraulic system.
  - The main control assembly consists of the solenoids, the valve body assembly and the separator plate.
  - These components combine to convert electrical signals into hydraulic actions.
    - All valves in the main control assembly are an iodized aluminum and cannot be sanded, filed or dressed in any other way. If there is any damage to the valves that prevents or restricts their movement, install a new main control assembly.
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