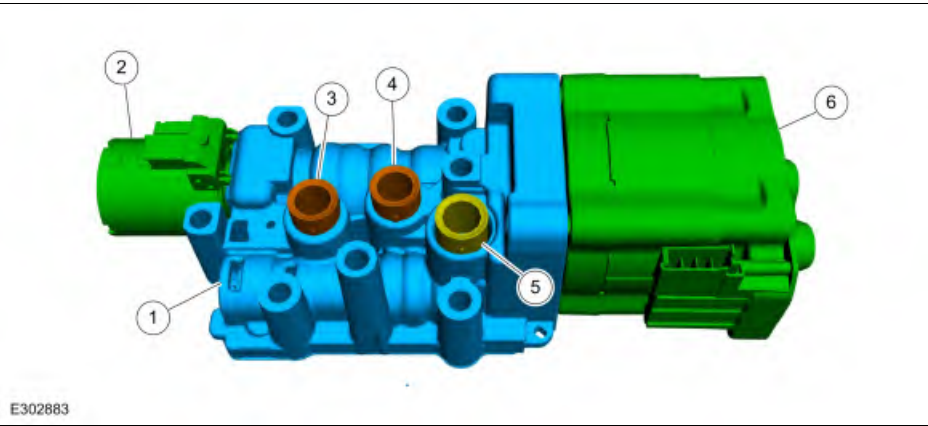


Transmission Fluid Auxiliary Pump



Item	Description
1	Pump valve body
2	Engine disconnect clutch solenoid
3	Engine disconnect clutch feed tube seal
4	Cooling spray nozzle feed tube seal
5	Transmission fluid filter seal
6	Electric pump motor

The 10R80 MHT transmission is equipped with a multi-function transmission fluid auxiliary pump. This electronic pump is turned on to provide fluid pressure to the engine disconnect clutch assembly in the hybrid drive unit to switch driving mode to gas engine. This electronic pump also pumps transmission fluid to a spray nozzle located in the hybrid drive unit to provide cooling. This electronic pump is turned on before an engine stop event; allowing the transmission to remain engaged with line pressure during the stop event. This allows quick response on the engine restart because the transmission is already in gear. The transmission fluid auxiliary pump does not have sufficient flow to apply clutches, but can keep clutches on when the engine stops and the main hydraulic pump stops providing pressure.

Diagnosis and Testing