
Transmission Cooling - Overview

All Engines

The transmission fluid cooling system for the 6.2/7.3 V8 and the 6.7 diesel engine consists of a heat exchanger mounted to the transmission. The heat exchanger has both transmission fluid and engine coolant flowing through it in separate chambers. The transmission fluid warmer has engine coolant flowing through it to warm the transmission fluid during the engine warm-up period. A coolant control valve attached to the coolant return hose allows coolant flow through the warmer when the transmission fluid is cold. At a predetermined temperature, the PCM signals the valve to close, shutting off coolant flow to the warmer. The transmission fluid bypass valve on the warmer directs transmission fluid either back to the transmission or to the cooler depending on transmission fluid temperature.

mcx30.com