



## Ford/Roush 6R140 Transmission Fluid 16-1004-RP

Transmission Fluid	Mercon LV	16.7 - 19 Quarts	Ford 6R140 (BC3P-7G186-BE)	<i>Transmission refill capacity is substantially less than the initial fill because some fluid remains in the transmission cavities after draining. Service every 24 months or 150,000 miles whichever occurs first.</i>
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### Mercon LV Transmission Fluid Characteristics

## Maintenance

- Mercon LV
  - Darkens quickly
  - Develops odor
- 17-20 qt capacity
- Drain plug
- 24 mos / 150K



**PLEASE NOTE:**

As shown above, the Mercon LV fluid has different characteristics than many Techs are used to. Most noticeably it will darken in color quickly and develop an odor. If a problem with a transmission develops, do not condemn the fluid as the cause due to color or odor.

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## 6R140 Transmission Overview

The transmission is a 6-speed electronically controlled transmission which uses planetary gears. Gear selection is achieved by the electronic control of transmission fluid flow to operate various internal clutches.

### **This transmission includes:**

- Torque converter with an integral converter clutch
- Electronic shift and pressure controls
- Single planetary gearset
- Double (ravigneaux) planetary gearset
- Two multi-disc holding clutches
- Three multi-plate drive clutches
- One way holding clutch
- Main control valve body unit

The main control consists of a valve body assembly with solenoids inside the transmission and is controlled by a PCM. The PCM operates the electrical components to provide refined engagement feel, shift feel, and shift scheduling. Engine power reaches the transmission by a torque converter with an integral clutch. The 6 forward gears and one reverse gear are obtained from 2 planetary gear sets.

This automatic transmission is a 6-speed electronically controlled transmission with a main control valve body unit with 7 solenoids and a torque converter. Gear selection is achieved by the control of transmission fluid to operate various internal clutches. The PCM operates the electrical components and provides control of gear selection, shift pressure and torque converter slip.

In the event of a system fault, the PCM also provides for Failure Mode Effect Management to maintain maximum functional operation of the transmission with a minimum power reduction. In the event of a total loss of control or electrical power, the basic transmission functions R, N and D are retained. Also 5th gear is retained by the hydraulic system.

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