



# Technical Service Information

## **FORD 6F50/55 NO REVERSE ENGAGEMENT, FORWARD GOOD**

**COMPLAINT:** A Ford vehicle equipped with the 6F50 transmission has a complaint of no reverse engagement after overhaul, however forward engagement operates normally. The transmission range sensor signal was erratic when pulled out of park and the engine did crank only in the park position. There was no reverse engagement even when the transmission case connector was removed.

**CAUSE:** The manual valve was installed in the wrong direction as seen in figure 1. The incorrect installation of the manual valve caused the detent lever to mis-position the transmission range sensor, refer to figure 2, causing the no start in neutral and the TRS erratic signal.

**CORRECTION:** After installing the manual valve in the correct direction, refer to figure 3, reverse engagement returned and the transmission range sensor signal was normal due to correct positioning of the detent lever and the TRS as seen in figure 4. The engine also cranked in both the park and neutral positions.

*Many thanks to Matt from Goffnett's Transmission for sharing his experience with ATSG.*

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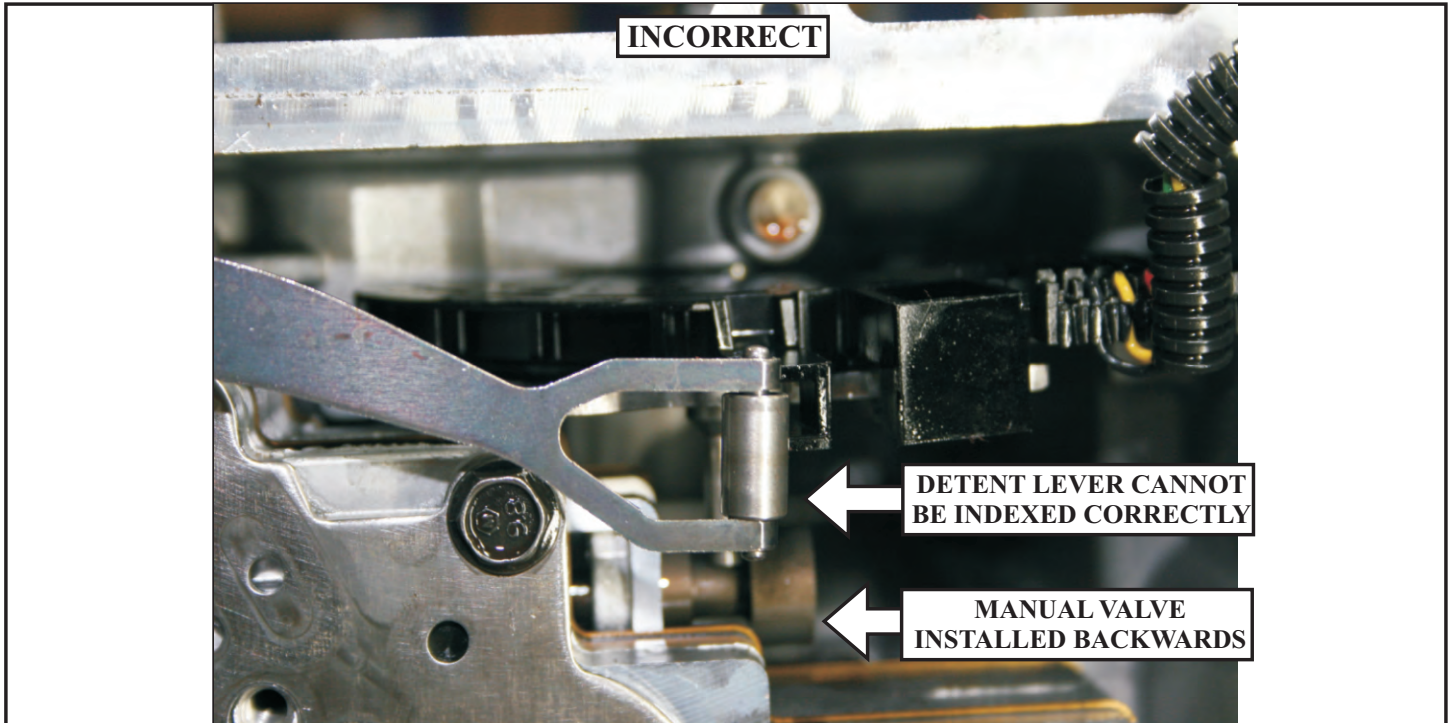


Figure 1

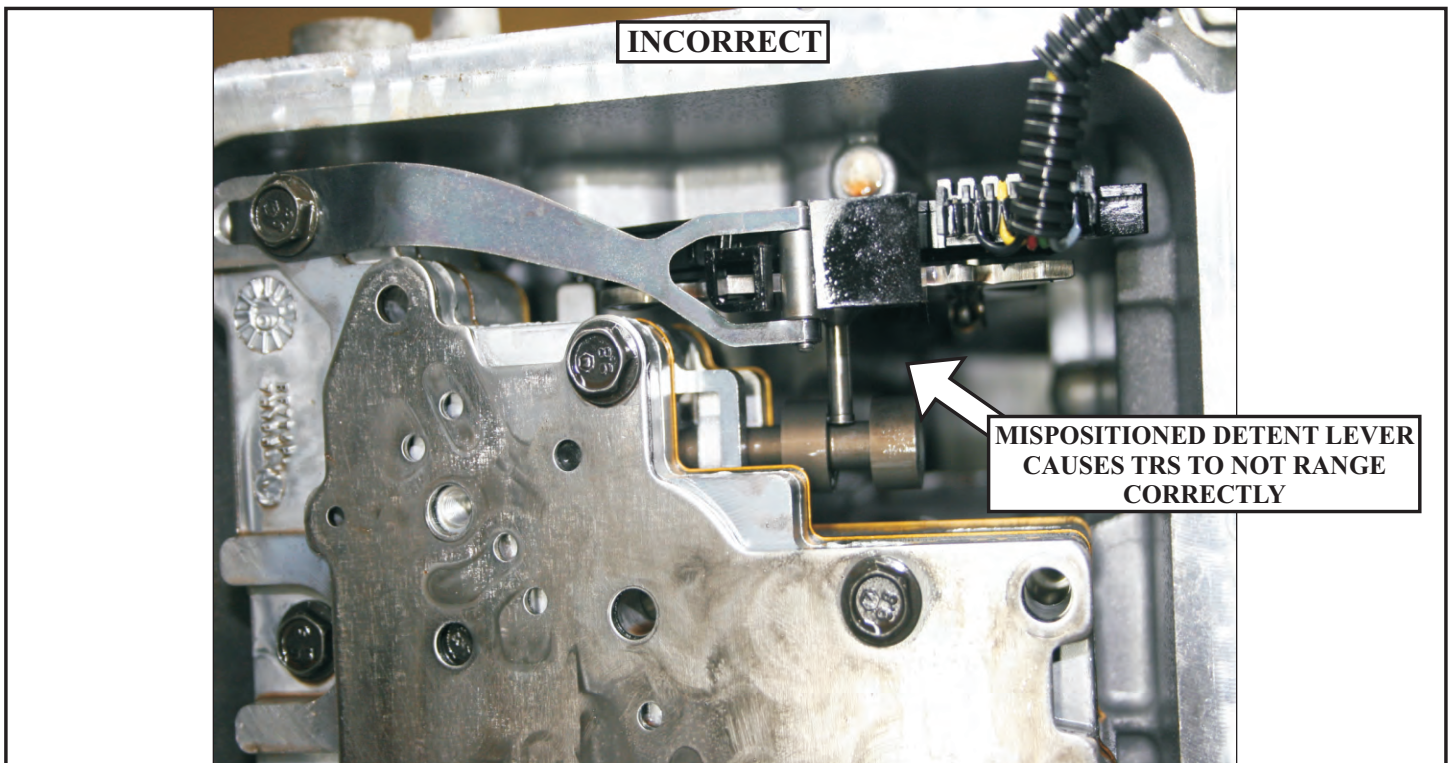


Figure 2



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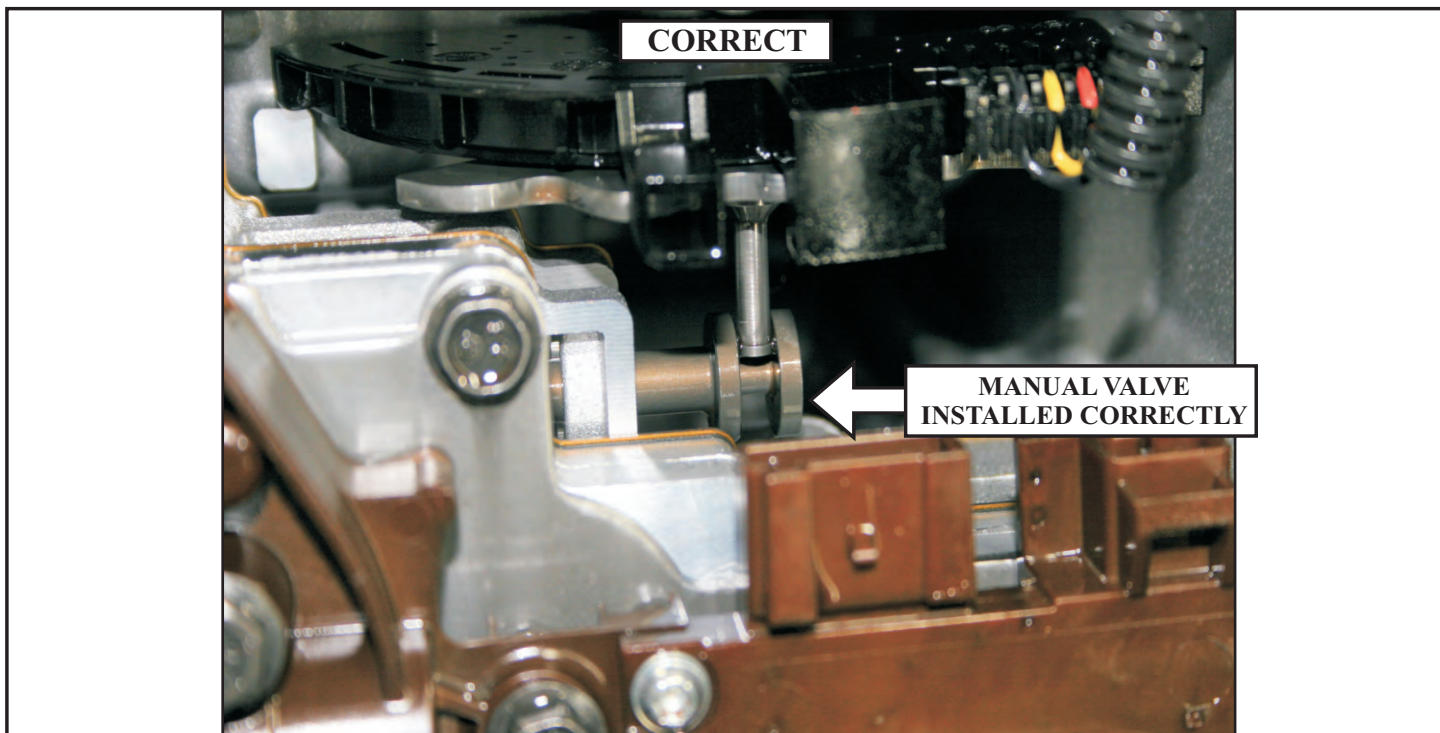


Figure 3

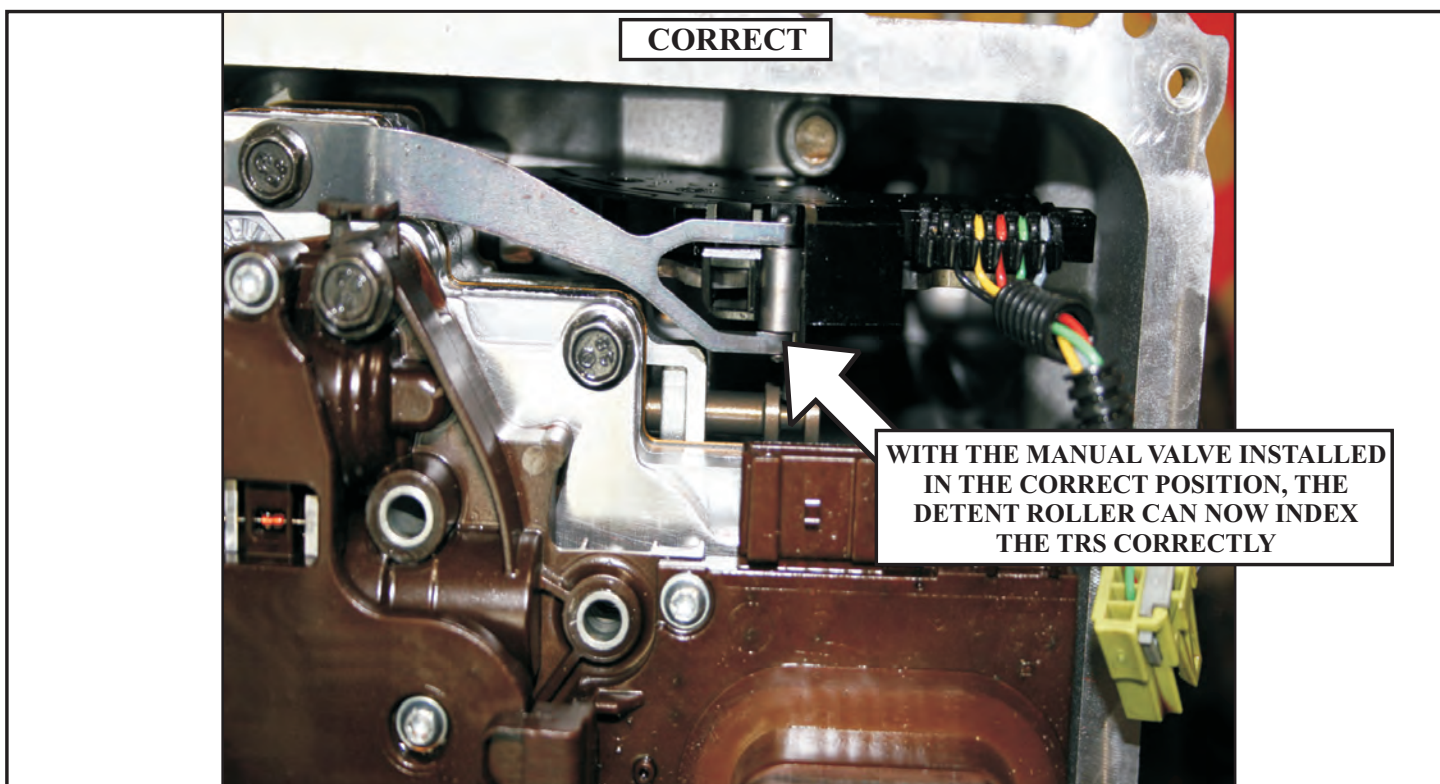


Figure 4