



# Technical Service Information

## FORD 4R70W TCC COMMANDED ON IN 2ND GEAR

**COMPLAINT:** A 2003 Ford Crown Victoria equipped with the 4R70W Transmission has a complaint of lockup coming on immediately after the shift into second gear. The scan tool confirmed that lockup was commanded on at this time.

Driving at low speed and making the 1-2 shift, lockup apply was noticed. The transmission case connector was disconnected and no lockup application was felt when shifted into drive.

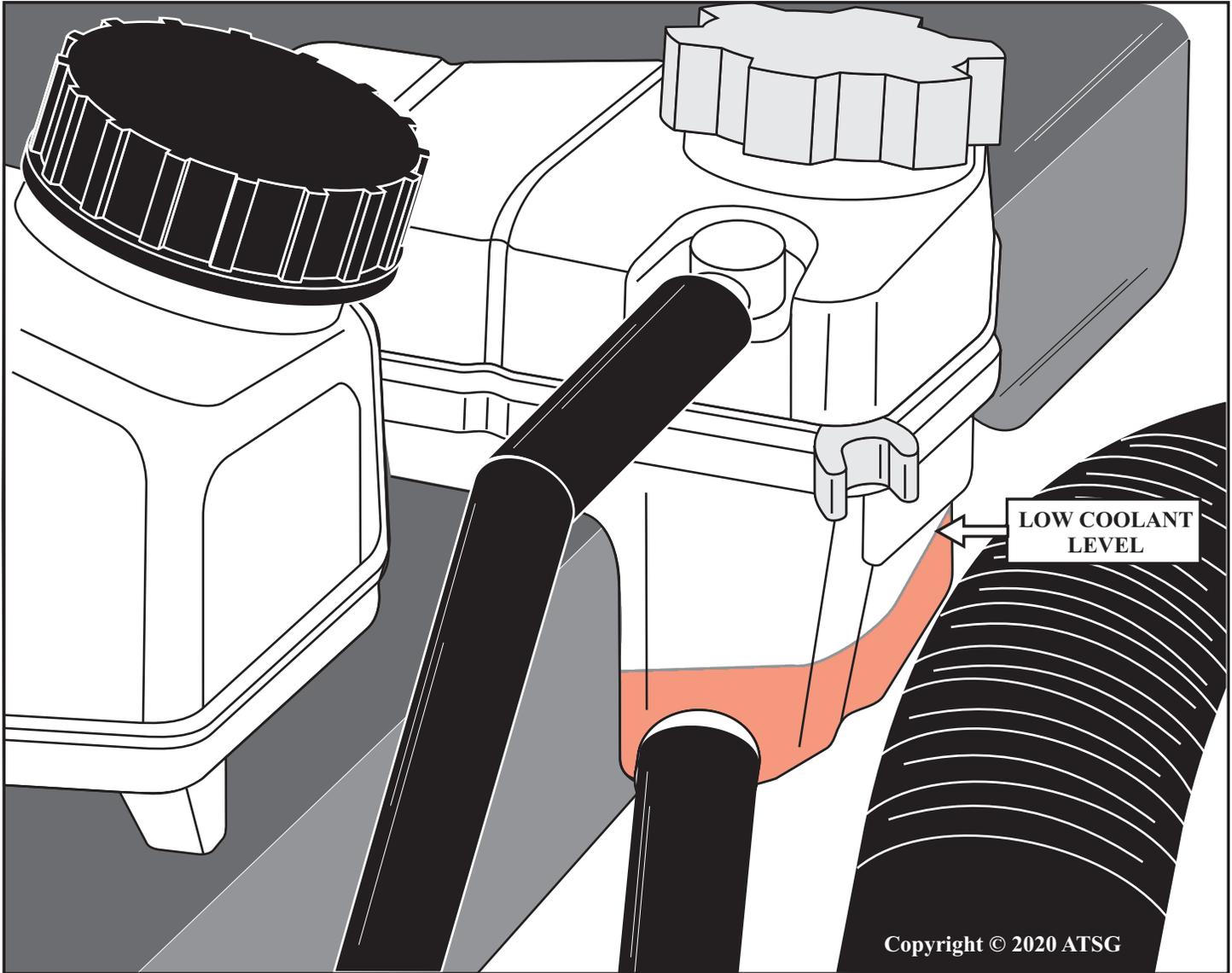
**CAUSE:** While looking at data parameters on the scan tool, the technician noticed that cylinder head temperature was a bit high at 203°F. The coolant level was checked and it was low, refer to figure 1. The low coolant level was the reason the PCM was commanding lockup on, this is done to try to keep operating temperature down by not allowing normal converter clutch slip to occur.

**CORRECTION:** Once the coolant was brought up to the correct level, lockup was no longer commanded on after the 1-2 shift.

**NOTE:** *The transmission defaults to second gear when unplugged in forward ranges.*

*Many thanks to Drew from Holcomb's Services for sharing his experience with ATSG.*

**FORD 4R70W**  
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Figure 1