

GMC YUKON 4WD

FUSE #19 REPEATEDLY BLOWS

COMPLAINT: A 2011 GMC Yukon with a 5.3 liter engine, a 6L80 transmission and an MP3023 transfer case has a complaint of a "Service 4WD" message in the driver information center, refer to figure 1. In addition, the 15 amp fuse #19 in the underhood fuse box repeatedly blows (figure 2). This can also cause the transmission to be stuck in a higher gear due to a loss of the solenoid power supply. The truck was still able to start and run with this fuse blown.

Diagnostic trouble codes P2534 "Ignition 1 Switch Circuit Voltage Low" and C0379 "Front Axle System Failure" were set.

CAUSE: Since the fuse would blow as soon as the ignition switch was turned on, and it supplies power to the transmission solenoids from junction J127, the technician decided to disconnect the transmission case connector to see if the #19 fuse would blow or not. And it did.

Following the wiring diagram in figure 3, fuse #19 also supplies power to the front drive axle actuator which led the technician to disconnect the actuator. When he unplugged it, he found the actuator connector was full of gear oil (figure 4). With it unplugged, the #19 fuse did not blow confirming this to be the cause.

CORRECTION: Cleaning the connector and replacing the front drive axle actuator stopped fuse #19 from blowing. The trouble codes were cleared and the four wheel drive system now functioned as it was designed. This obviously eliminated the illumination of the warning message in the driver information center.

SERVICE INFORMATION:

GM Front Drive Axle Actuator.....26060073

Many thanks to Gary and Matt from Goffnett Transmission for sharing their experience with ATSG.

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Figure 1

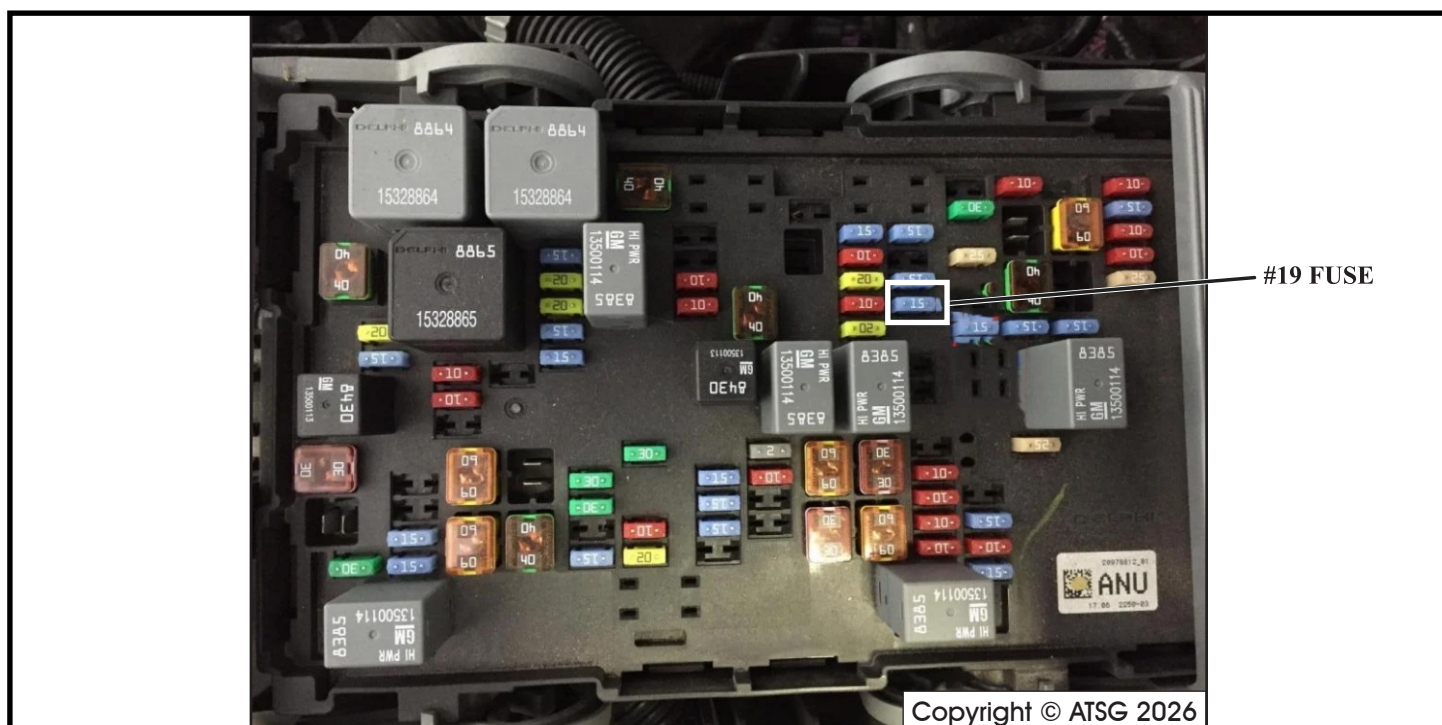
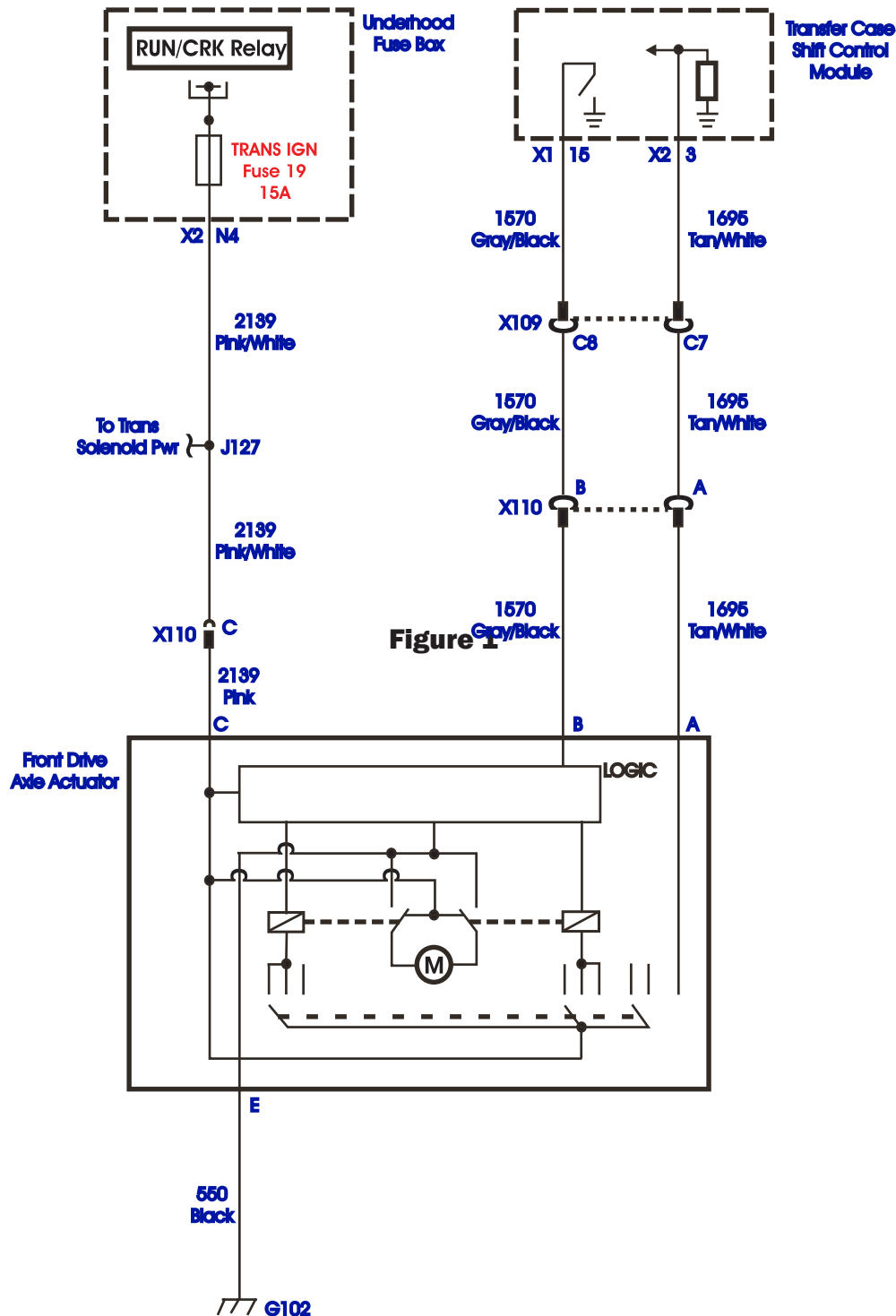


Figure 2

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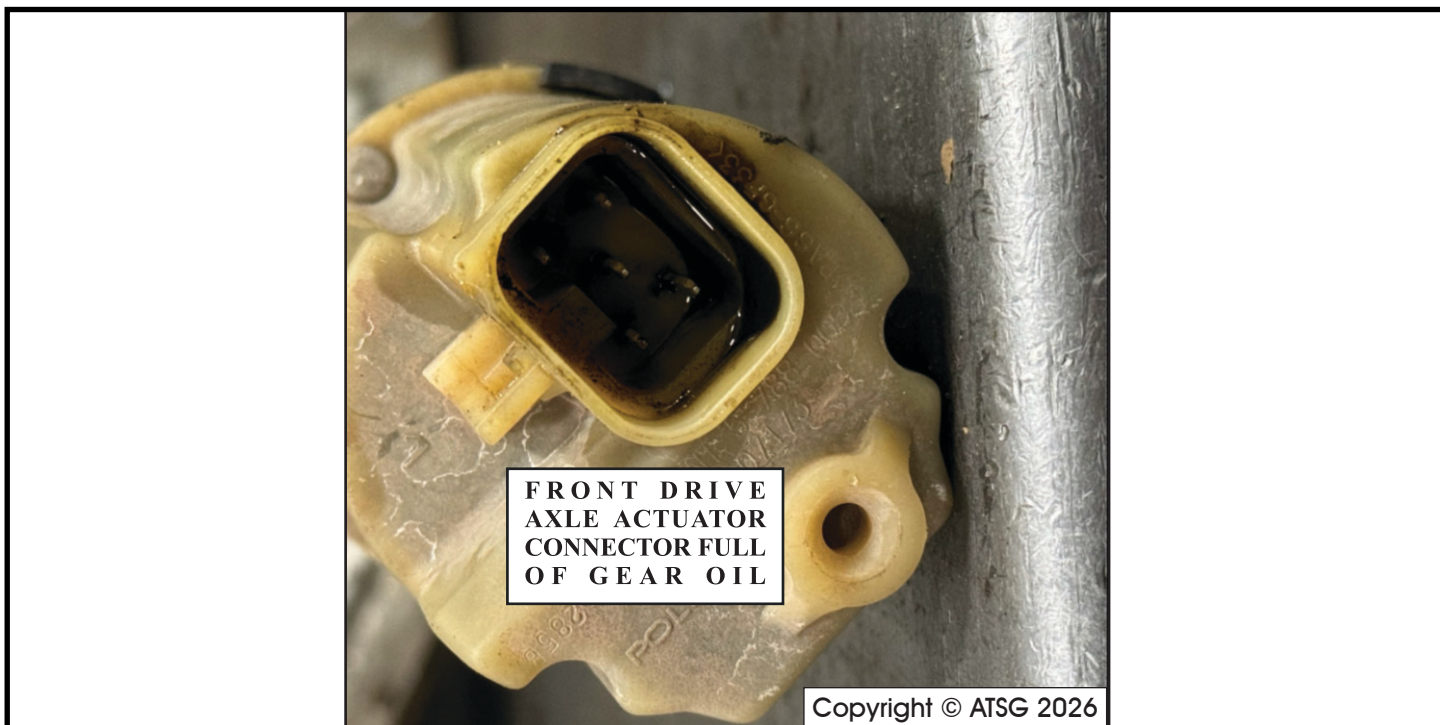


Figure 4



Figure 5