

JEEP 948TE

NO MOVE, P1720 OSS RATIONALITY

COMPLAINT:

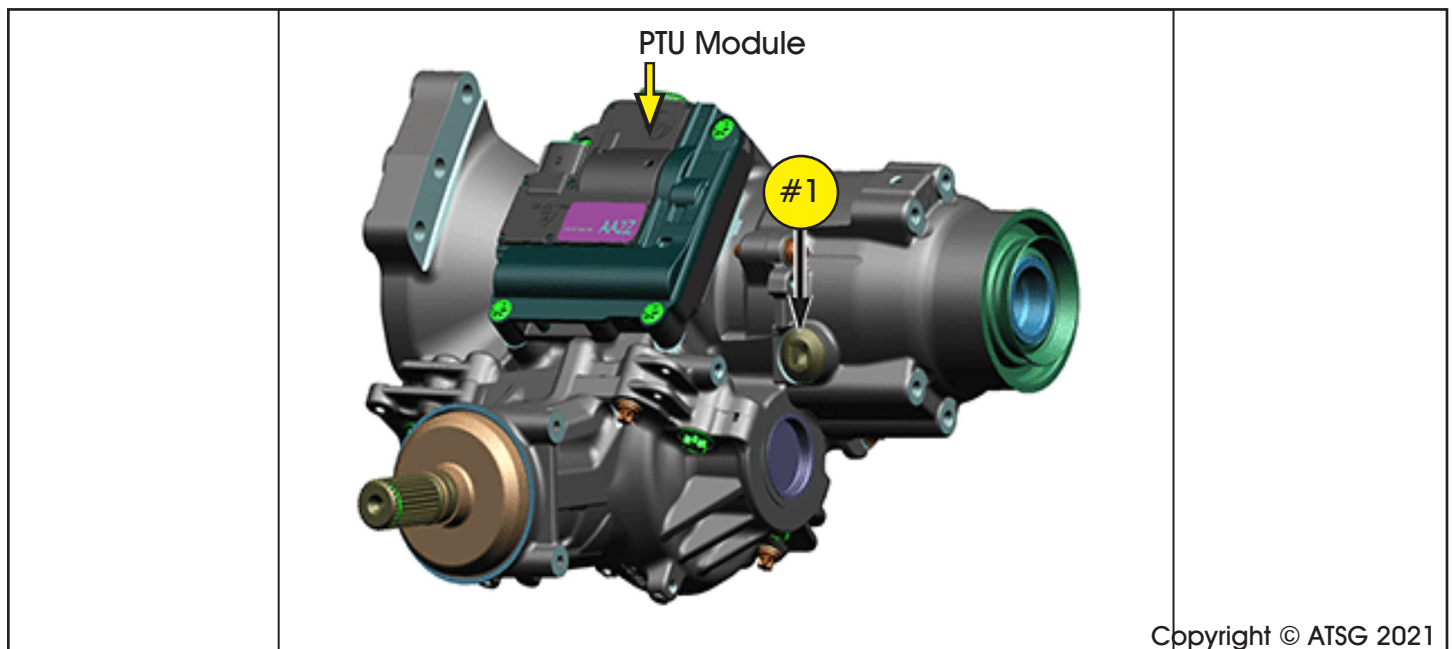
A 2015 Jeep equipped with a 3.2L engine and 948TE transmission with two speed PTU unit has a condition of an intermittent no movement. The control system is setting the following codes: P1720 OSS rationality, C14A7 PTU Motor stuck or PTU internal failure and P215C OSS output to wheel speed correlation. One observation that was witnessed while all 4 wheels were off the ground during the diagnosis is the rear driveshaft does not turn during the no move condition while the front axle shafts do. When the C14A7 code sets the system enters into a failsafe AWD condition. While in failsafe the rear driveshaft will now turn and the vehicle will now move.

CAUSE:

The PTU control module connector was saturated with oil. The PTU was dismantled and inspected, there were no internal problems found. See figure 1.

CORRECTION:

At the time of this printing the PTU unit is available as a complete assembly with the module from FCA. The PTU module itself is available individually, however PTU removal is required to gain access to the module. To disassemble the PTU requires the destruction of a few seals that are currently not available separately. The new PTU unit with the module from FCA is plug and play, programming is not required. Replacement of the PTU and the module corrected the no move condition. The item #1 is the fill plug location. The specified oil is 1.06 quarts or 1.20 liters of 75-90 gear lube.



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Figure 1