

MULTI-MODEL (EXCEPT MAZDA2)

AUTOMATIC TRANSMISSION ERRATIC SHIFTING OR HANGING IN GEAR

If you encounter a customer concern regarding an automatic transmission erratic shift or hanging in gear, verify all tires are the same brand, same size, properly inflated, and are in good condition.

Current models (except for Mazda2) are equipped with Active Adaptive Shift (AAS) mode. The TCM may enter AAS mode based on driving style or vehicle driving conditions. The TCM uses the ABS/TCS wheel speed sensor signals to determine if the vehicle is cornering or driving in a straight line. During cornering, the TCM will hold the current gear and not up/downshift until the vehicle returns to straight line driving.

Because the A/T shift logic is partly dependent on ABS/TCS wheel sensors, some automatic transmission shifting concerns may be caused by different sized tires or tire brands on the same vehicle. Verify all four (4) tires on the vehicle are the same size and brand. Although the size of the tire may be the same between different manufacturers, the revolutions per mile may be different. Also, tires of the same brand may cause concerns if the set contains new and worn tires.



Before troubleshooting any A/T shift concern, verify all tires are:

- The same brand
- The same size
- Properly inflated
- In good condition