

STAR ONLINE PUBLICATION

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Symptom/Vehicle Issue: Required Updates When Changing Tire Sizes, Installing Mopar Lift Kits With Larger Tires, Manual Transmission Vehicles Setting DTC P08A6

Discussion: After changing to larger tires or adding a Mopar lift kit and larger tires; the vehicle may set DTC P08A6 - Gear Lever Position Sensor Multiple Sensor Correlation - All Gear Sensor code.

Update the vehicle as shown below – See Star Online S1821000006 for Tire size application by sales code.

NOTE: Relearn procedure applies to vehicles with a manual transmission that have updated tire sizes from the original factory size and are setting the all gear sensor diagnostic code P08A6.

A re-learn of the top gear learned N/V ratio (engine speed/vehicle speed) is required due to any adjustment made in tire size in the BCM. If changing to a different size of tires on the vehicle and performing an adjustment, please follow the steps outlined below after programming new tire size;

1. Reset (PCM) non-volatile RAM (adaptive) either by disconnecting battery power to the GPEC2A module (PCM) or using diagnostic tool reset PCM

Note; If disconnecting via battery, both batteries must be disconnected in able to reset the PCM.

2. Once reset, in order to learn new top gear N/V ratio;
 - a. Vehicle speed must be between 40-80mph in top gear (6th)
 - b. Accelerator pedal position must be greater than 0.392volts
 - c. Flywheel torque > 75Nm
3. Once achieving the above conditions, it will take approximately 20 seconds to learn new top gear N/V ratio.
4. Once learning is complete with the proper top gear N/V ratio, this will re-enable the all gear sensor performance diagnostic.

This document does not authorize warranty repairs. This communication documents a record of past experiences. STAR Online does not provide any conclusions about what is wrong with the vehicle. Rather, it captures all previous cases known that appear to be similar or related to the vehicle symptom / condition. You are the expert, and you are responsible for deciding on the appropriate course of action.

Contact STAR Center, or your Technical Assistance Center Via TechCONNECT or eCONTACT ticket if no solution is found