

STAR ONLINE PUBLICATION

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Symptom/Vehicle Issue: Oversized Tire Calibration For Customized Jeep Wrangler And Galdiator, 2019 Ram Heavy Duty DJ, MVP Update Required, MVP Hotline



MOPAR CUSTOM CALIBRATION

Sales code / tire size coding reference chart

PRODUCT DESCRIPTION:

Odometer and speedometer calibration for vehicles that have been customized with oversized tires, modified axle ratio or transfer case ratio. This plan updates vehicle software to provide accurate odometer/speedometer reading through use of Mopar Vehicle Protection contracts and WiTech.

FEATURES & BENEFITS

- Odometer and speedometer accurate readings
- Compliant to NHTSA odometer reading requirements
- Record of odometer and speedometer calibration

TIRE SIZE SELECTION PROCESS:

1. Properly inflate tires to placard values.
2. **IMPORTANT:** Measure front left tire from top center of tire to ground, round to nearest 1/2". Do not assume side wall value is correct.
3. Use measured tire size and select from tire size chart.
4. Input measurements into the MVP contract and complete contract process.
5. Test drive vehicle for speedometer accuracy and adjust as necessary.
 - If speedometer reads slower than actual speed increase tire size by 1/2"
 - If speedometer reads faster than actual speed decrease tire size by 1/2"
6. Repeat steps 4 and 5 until speedometer accurately reports vehicle speed. A call to MVP Application Hotline (800-541-4612) may be necessary.

Sales Code	Tire Size (actual)
5QT	35
5QU	33.5
5WV	34
5QX	34.5
5QY	35
5QZ	35.5
5Q1	36
5Q2	36.5
5Q3	37
5Q4	37.5
5Q5	38
5Q6	38.5
5Q7	39
5Q8	39.5
5Q9	40
5R2	40.5
5R3	41
5R4	41.5
5R5	42
5R6	42.5
5R7	43
5R8	43.5
5R9	44



Sales Code	Axle Ratio
5SA	4.56
5SB	4.88
5SC	5.15
5SD	5.38

Sales Code	T-Case Ratio
5SE	1.5
5SF	2.11
5SE	3.08
5SH	3.824
5SJ	4.286
5SK	5.048

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

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The Mopar Custom Calibration is required on 2019 Ram DJ Wranglers (JL) and Jeep Gladiators (JT) that have been customized with oversized tires (33"+). Customized Jeep Wranglers and Gladiators with larger tire modifications must have their odometers and speedometers calibrated to be compliant with NHTSA odometer reading standards and for both to have accurate readings. The software update for the calibration will be charged to the customer via a Mopar Vehicle Protection service contract.

For Technician Use:

Step By Step Instructions on how to perform/restore the Jeep Wrangler JL and Jeep Gladiator Re-Configuration

1. From the Vehicle Select Screen, navigate to the Vehicle Topology Screen or Electronic Control Unit (ECU) List
2. Select Body Control Modules (BCM)
3. From the BCM Screen, select the MISC FUNCTIONS Tab
4. Select the option RESTORE VEHICLE CONFIGURATION
5. Follow system prompts to complete the procedure
6. Upon completion, cycle the ignition to OFF, then cycle the ignition to RUN (Do Not crank the engine)
7. Leave the ignition in the RUN position for a minimum of 60 seconds then cycle to OFF.
8. Cycle the ignition to RUN (Do Not crank the engine)
9. Clear all Diagnostic Trouble Codes (D.T.C.'s)

Vehicle configuration data has been updated in the BCM. Other ECUs can be affected on next ignition cycle. Please cycle ignition and check/clear DTCs before returning the vehicle to the customer. Note: Some ECUs may require additional procedures to be run after the vehicle configuration has been updated. For example if active ABS/ESP faults are present that may require ABS initialization before the faults will clear

1. From the Vehicle Select Screen, navigate to the Vehicle Topology Screen or Electronic Control Unit (ECU) List
2. Select ABS Modules
3. From the ABS Screen, select the MISC FUNCTIONS Tab
4. Select the option ABS initialization
5 Follow system prompts to complete the procedure

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