

GM Chevrolet Suburban 2021 Range Actuator Correlation Learn

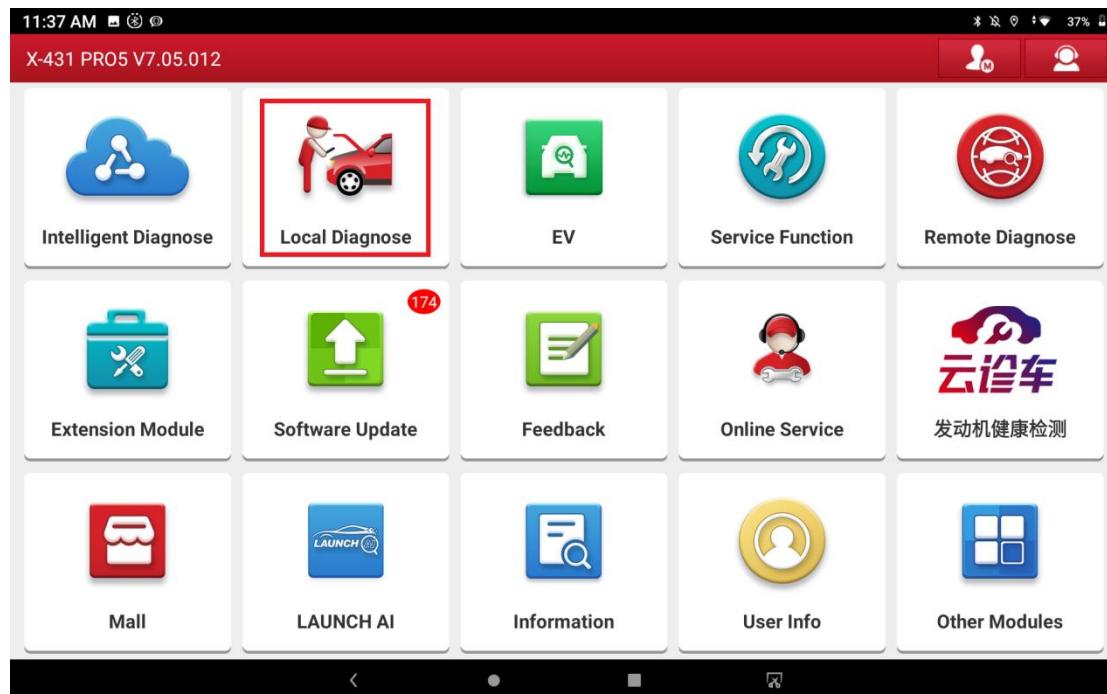
Supported equipment: Launch's full range of comprehensive diagnostic equipment

Current equipment: PAD 5

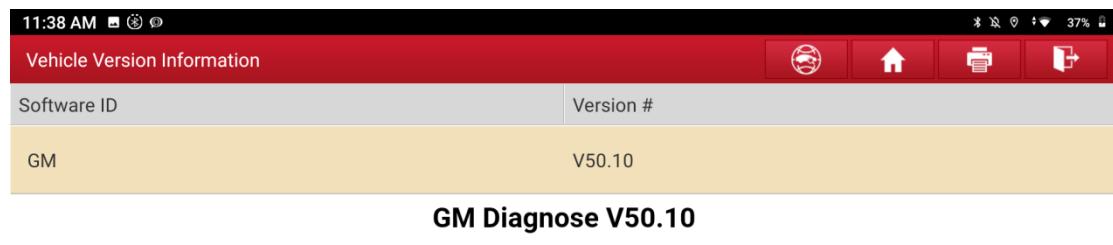
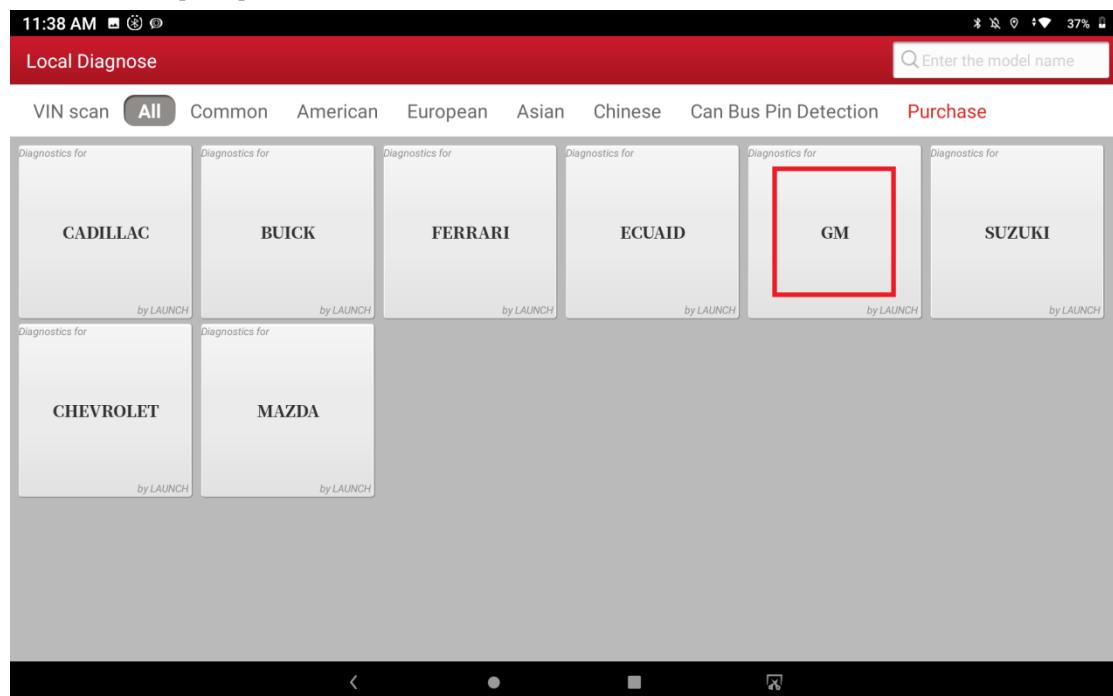
Function description: This function is required after replacing gear actuator-related components (such as the transmission control unit, transmission, sensors, solenoid valves, and various actuators) or after troubleshooting faults in the shift system.

Tested model: 2021 GM Chevrolet Suburban, VIN: 1GNSKDKD9MR*****

1. It is necessary to stop the vehicle before performing this function. On a PAD 5, choose [Local Diagnose].



2. Choose [GM] to test.



INTRODUCTION

This diagnostic software can test the ECUs of GM Models, including:

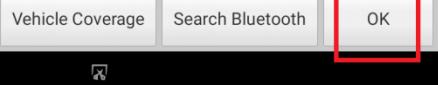
Engine Control Module, Transmission Control Module, Antilock Braking System, Supplemental Inflatable Restraint, Body Control Module, Instrument Panel Cluster, Heating and Air Conditioning, Tire Pressure Monitor, Electronic Suspension Control, Radio, Driver Door Module, Driver Position Module, Passenger Door Module, Remote Control Door Lock Receiver, Vehicle Comm. Interface Module, Immobilizer, Amplifier and so on.

Basic Functions:

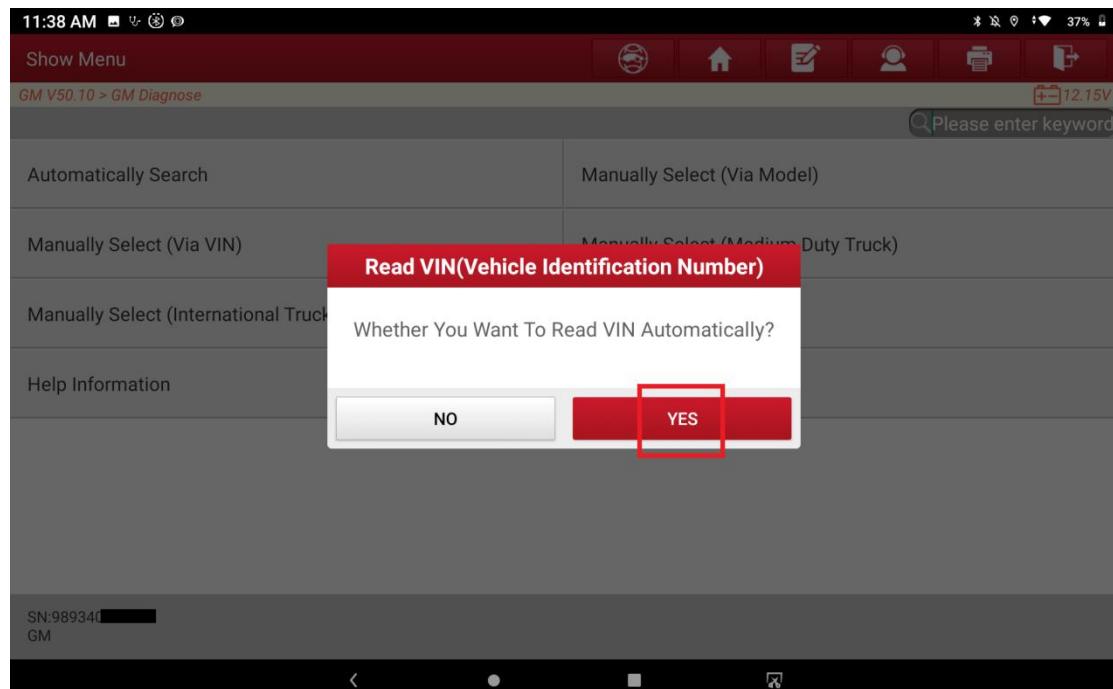
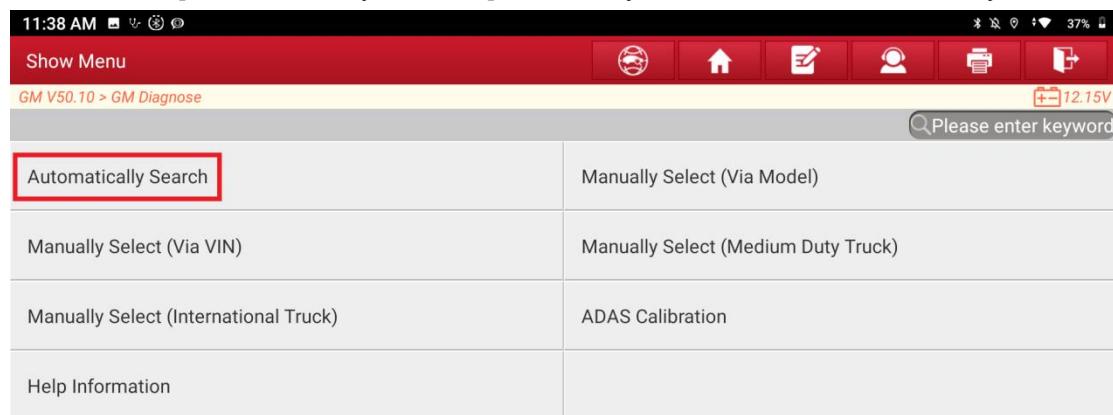
- Reading ECU information
- Reading DTCs
- Clearing DTCs
- Reading vehicle running data
- Vehicle component operation test

Special Functions:

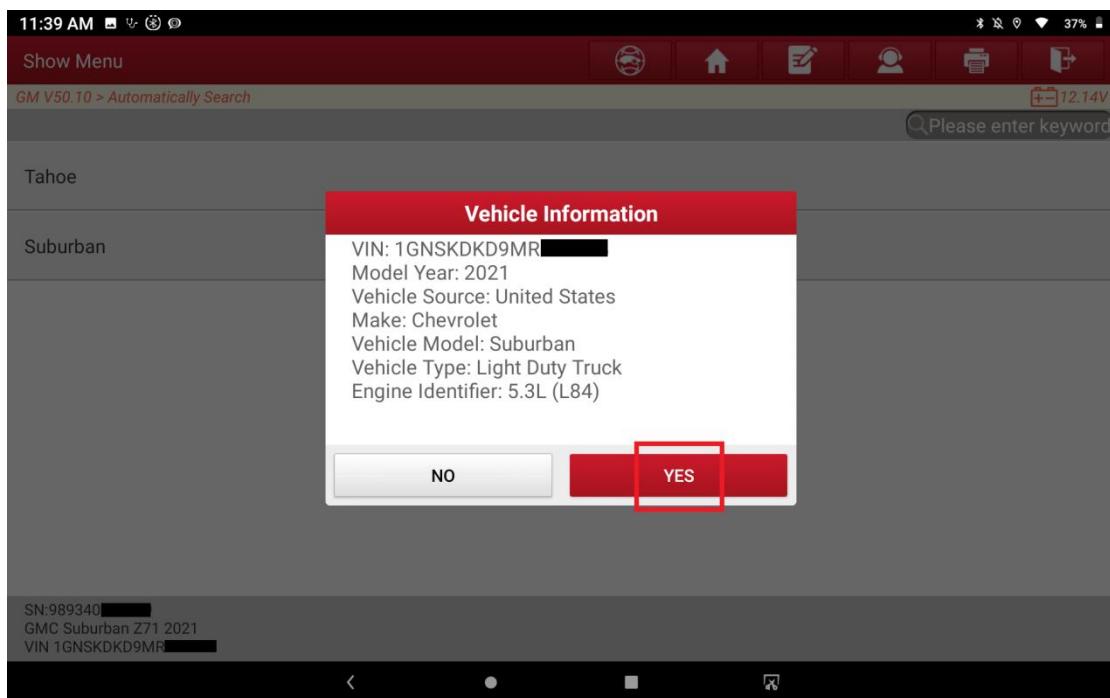
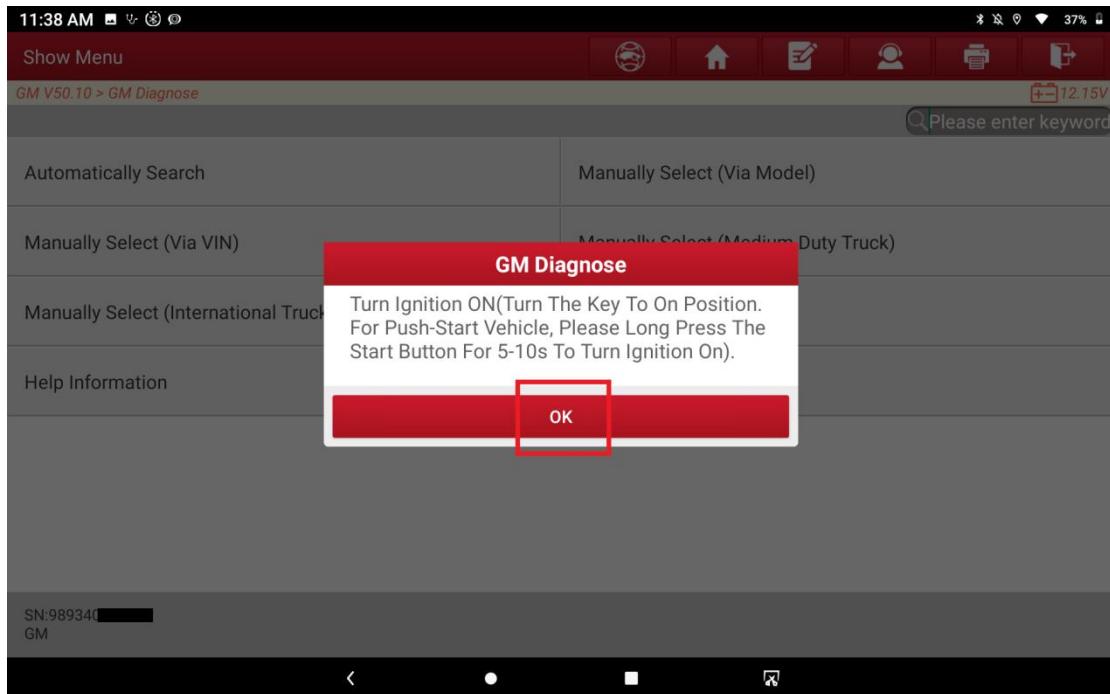
- **Engine Control Module:**
 - Oil Life Reset
 - Accelerator Pedal Position (APP) Learn
 - Oil Life Warning Light



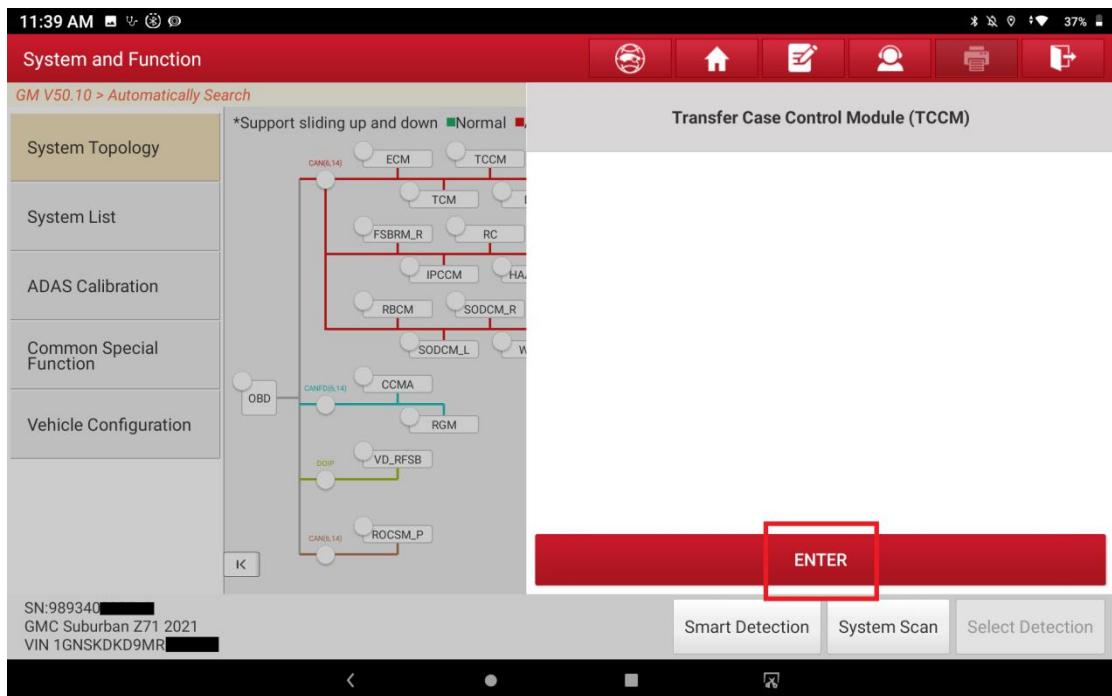
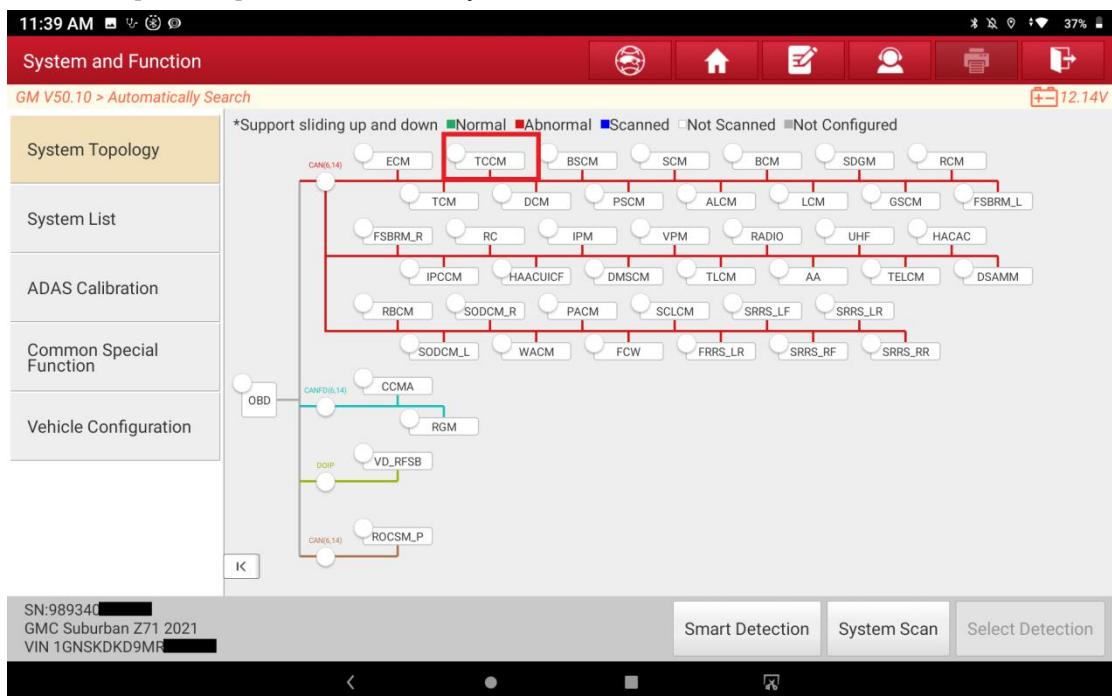
3. Choose [Automatically Search] to identify car models automatically.



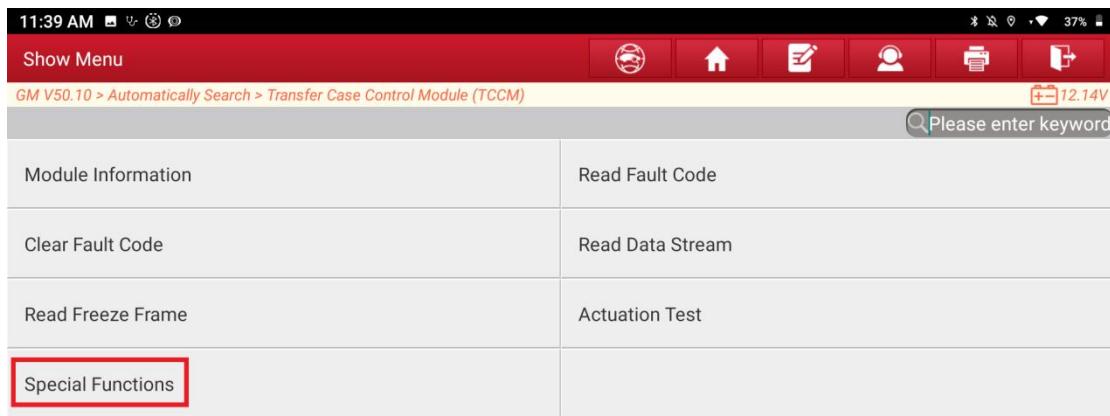
4. Operate according to the prompt “Turn Ignition ON (Turn The Key To On Position. For Push-Start Vehicle, Please Long Press The Start Button For 5-10s To Turn Ignition On)”.



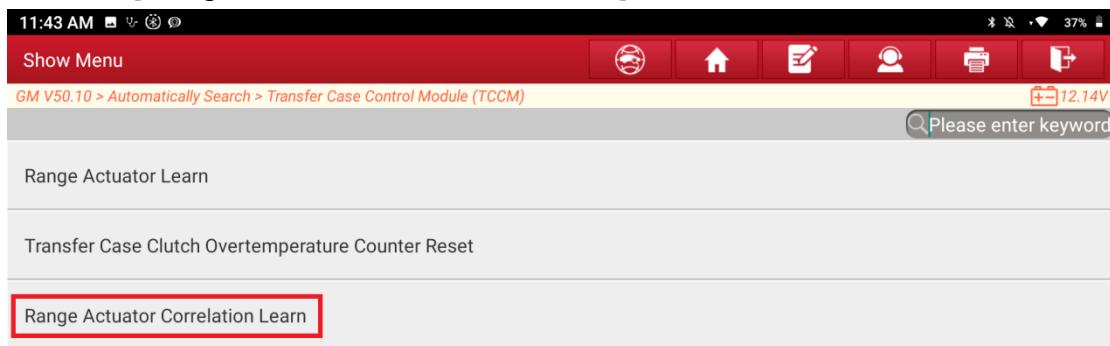
5. Click [TCCM] to access the system.



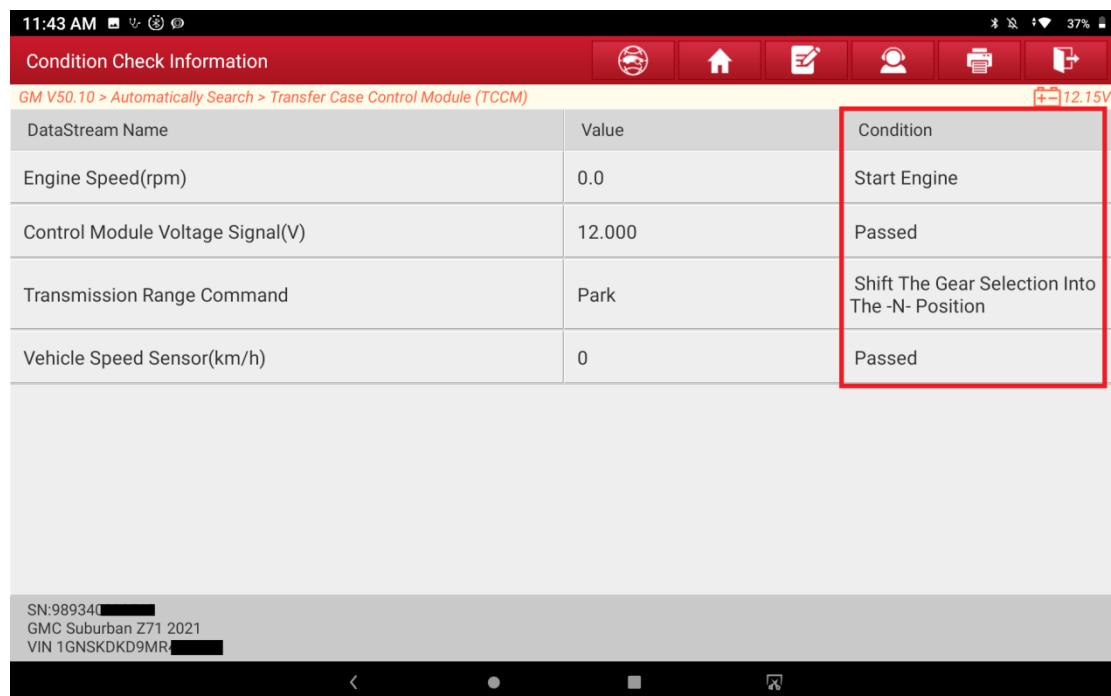
6. Click [Special Functions].



7. Click [Range Actuator Correlation Learn].



8. Ensure that the following conditions are met: "Start Engine, Control Module Voltage Signal Is Greater Than 11V, Shift The Gear Selection Into The-N-Position, Vehicle Speed Is 0".



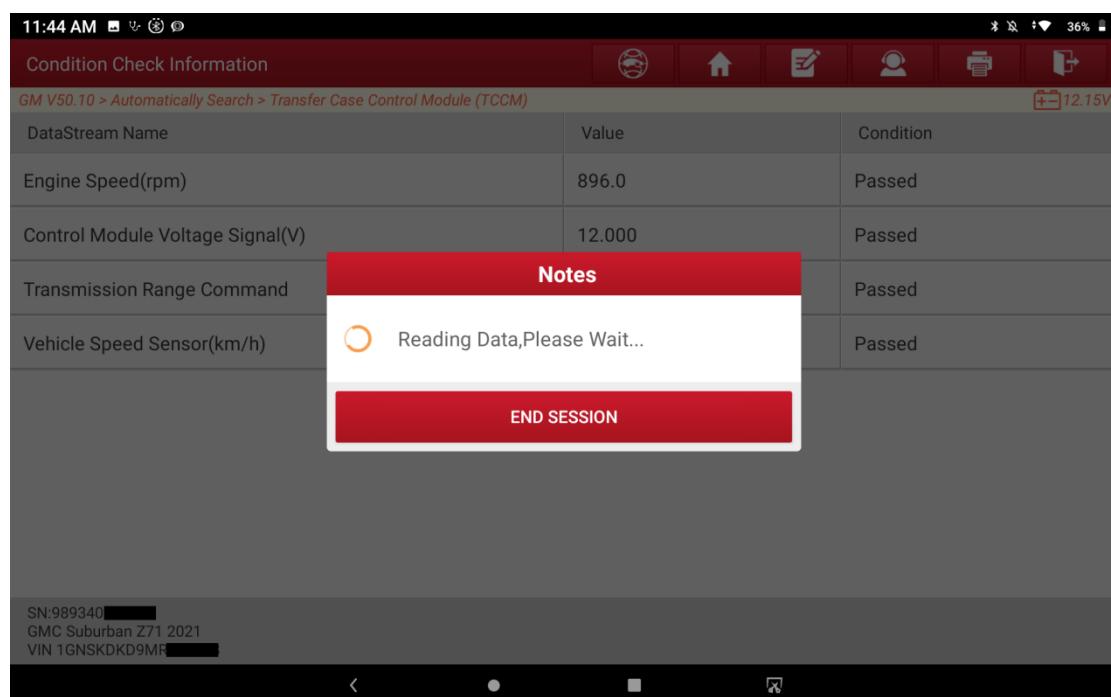
11:43 AM 37% 12.15V

Condition Check Information

GM V50.10 > Automatically Search > Transfer Case Control Module (TCCM)

DataStream Name	Value	Condition
Engine Speed(rpm)	0.0	Start Engine
Control Module Voltage Signal(V)	12.000	Passed
Transmission Range Command	Park	Shift The Gear Selection Into The-N-Position
Vehicle Speed Sensor(km/h)	0	Passed

SN:989340 [REDACTED]
GMC Suburban Z71 2021
VIN 1GNSKDKD9MR [REDACTED]



11:44 AM 36% 12.15V

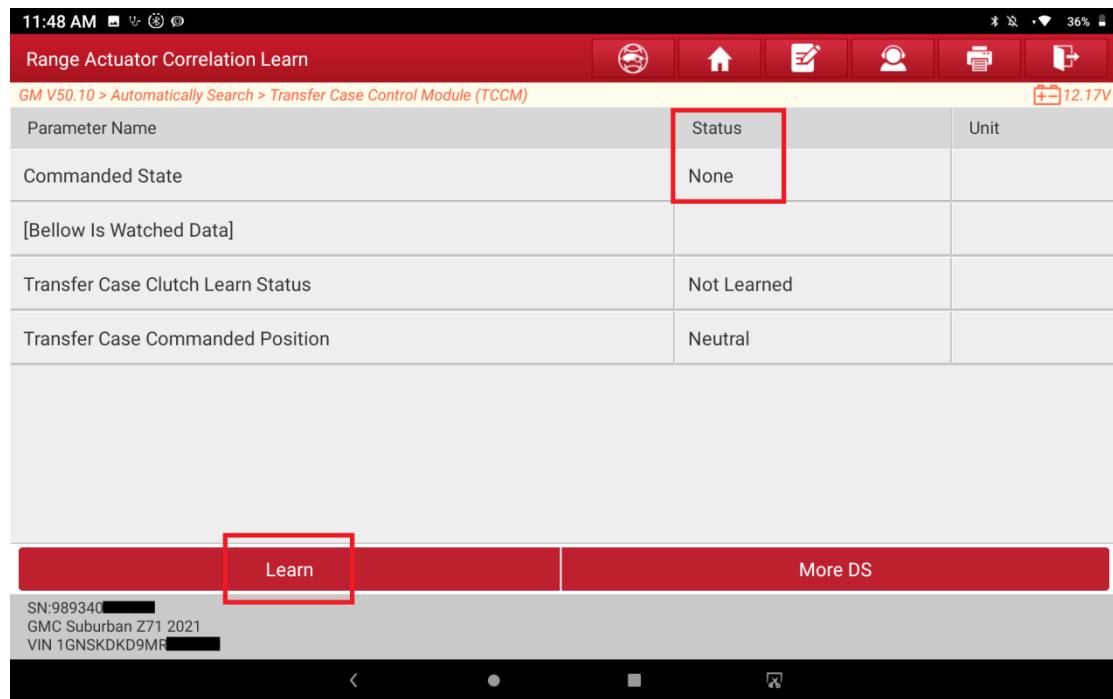
Condition Check Information

GM V50.10 > Automatically Search > Transfer Case Control Module (TCCM)

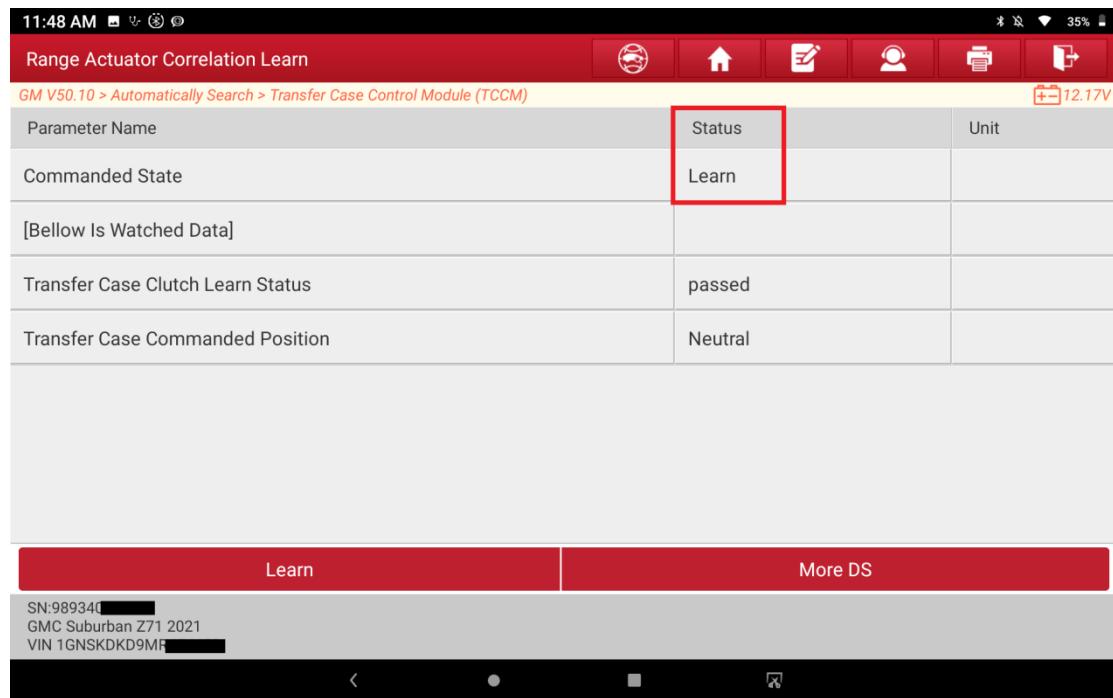
DataStream Name	Value	Condition
Engine Speed(rpm)	896.0	Passed
Control Module Voltage Signal(V)	12.000	Passed
Transmission Range Command	Notes	
Vehicle Speed Sensor(km/h)	Reading Data,Please Wait...	

SN:989340 [REDACTED]
GMC Suburban Z71 2021
VIN 1GNSKDKD9MR [REDACTED]

9. Before the function learning, the status is "None". Click "Learn".



10. The status changes to "Learn", indicating successful learning.



Statement:

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