

**Version 1.8.0.40**

***Overview:***

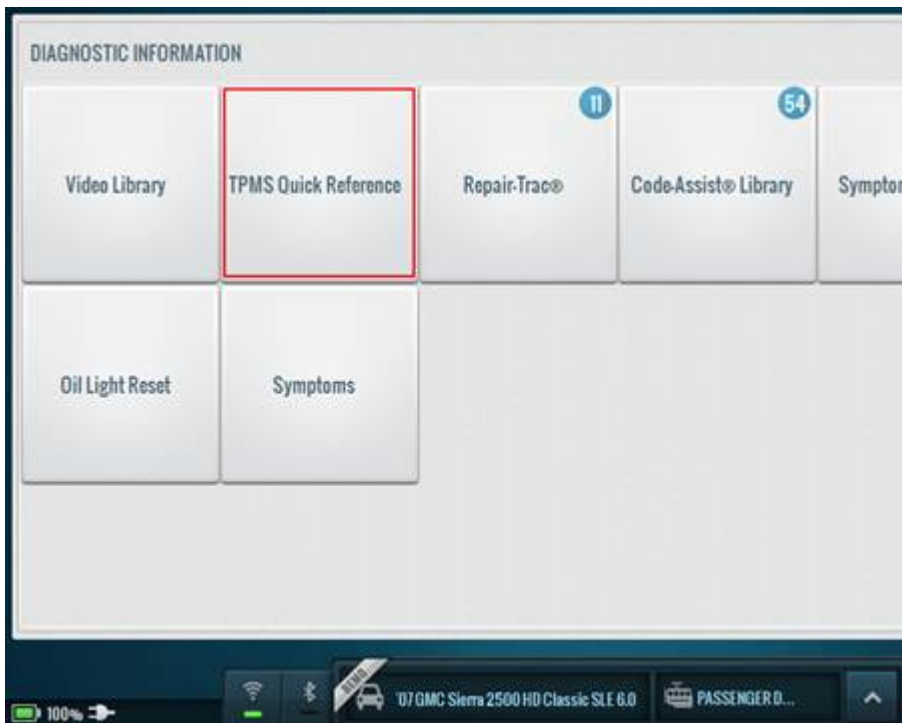
The new version 1.8.0.40 contains a major coverage release. Also provided are selected highlights of new features, fixed defects reported by technician, and improvements. You may notice many more in the software that are just too numerous to identify individually. Many thanks for the useful feedback we are receiving. More coverage and enhancements on the way!

***Did You Know?:***

For Volkswagen and Audi vehicles, the tool has a selection at the “Model” and “Controllers” screens called “Select ECU”. Under this selection you will find all possible Volkswagen/Audi control modules. So if you don’t see the control module you are looking for under the vehicle you selected, use the “Select ECU” option to choose the module.

***TPMS Quick Reference:***

TPMS Quick Reference functionality added for the first time for all manufactures.



# TPMS

## QUICK REFERENCE

DESCRIPTION

RESET PROCEDURES

RESET TRIGGER

TORQUE SPECS

TPMS SENSOR PART NUMBER

### Description

The TPM system uses a wireless network to monitor tire pressures. Each wheel/tire assembly is equipped with a radio frequency (RF) transmitting pressure sensor. These sensors deliver tire pressure readings to the remote control door lock receiver (RCDLR). Each RF transmitting pressure sensor contains an internal roll switch. When the vehicle is stationary the internal roll switches are open and the sensors are placed into stationary mode. In this mode, the sensors sample tire pressure once every 30 seconds and transmit in stationary mode only if there is a change in the tire pressure. As vehicle speed increases above 32 km/h (20 mph), centrifugal force closes each sensor's internal roll switch placing the sensors into drive mode. In drive mode, the sensors sample tire pressure once every 30 seconds and transmit once every 60 seconds. The RCDLR translates the information within this radio frequency transmission into sensor presence, sensor mode and tire pressure. The RCDLR then sends the tire pressure and tire location data to the driver information center (DIC) via the serial data circuit where individual tire pressures and their corresponding locations may be viewed. The sensors compare their current pressure sample with their last transmitted pressure and will transmit in re-measure mode whenever a 8 kPa (1.2-psi) change in tire pressure has occurred. When the TPM system detects a significant change in tire pressure, the CHECK TIRE PRESSURE warning message is displayed on the DIC and the LOW TIRE PRESSURE warning indicator is displayed on the instrument panel cluster (IPC). The sensor's pressure range is 0 to 102 psi (0-703 kPa). The sensors pressure accuracy from -10 to +70 C is +/- 2 psi (14 kPa). The RCDLR also detects malfunctions within the TPM system. Any malfunctions detected display the SERVICE TIRE MONITOR warning message.

## ***New Vehicle Coverage:***

The focus of version 1.8.0.40 Domestic, Asian and European release was:

- Add enhanced coverage for Subaru, 1999-2013!
- Add enhanced coverage for Jaguar, 1997-2012!
- Add enhanced coverage for Land Rover, 2005-2012!
- Add coverage for 2013 Model Year Honda, Hyundai, Kia, Mazda and Nissan.
- Targeting systems, actuation and adjustment coverage for 1996-2010 for all OEM's (vehicles out of warranty).
- Maintaining the momentum on actuation and adjustment coverage improvements for all years.
- Giving priority to special functions required for Maintenance Tests that support critical service repairs.

There are defect fixes, improvements, etc. as in each release!

## **Overview**

- New enhanced coverage for Subaru, 1999-2013!
- New enhanced coverage for Jaguar, 1997-2012!



- New enhanced coverage for Land Rover, 2005-2012!
- Added TPMS Quick Reference functionality all manufacturers
- New coverage for 2013 Model Year for Honda, Hyundai, Kia, Mazda and Nissan
- Expanded coverage for older Hyundai, Kia, Mercedes and BMW systems
- Improved communications and expanded ECU coverage for Mercedes 1999-2012 Model Year vehicles
- Enhancements to test functions for Volkswagen and Audi.
- Added coverage for 1,274 new systems
- Added coverage for 8,127 new vehicle-ECU combinations
- Added 69 new Adjustment type tests
- Added 299 new Actuation type tests
- 4 new Manufacturer specific descriptions for OBDII Mode 6 parameters for Nissan
- Updated Repair Information for the following:
  - Updated ABS Brake Bleed Procedures for all manufacturers
  - Updated Oil Light Reset Procedures for all manufacturers.
  - Updated Tune Up Specs for all manufacturers.
  - Updated TSB References - GM, Ford, Chrysler, Jeep

## **New Coverage – USA Domestic**

### ***General Motors / Saturn Coverage***

- 9 new Actuation type special tests, including:
  - EGR Positioner Test
  - Intake and Exhaust CMP Actuator tests

### ***Chrysler/Jeep Coverage***

- 1 new Adjustment type special test for Set Pinion Factor for 2002-2005 Ram trucks
- 1 new Actuation type special test for Fuel Control Test for 2003 Ram Diesel trucks

## **New Coverage – USA Asian**

### ***Honda Coverage***

- Complete coverage added for 2013 Model Year vehicles
- New coverage added for 2012-2013 CR-V Real-Time AWD system
- New coverage added for CAN protocol Airbag, Seat Weight Sensor and TPMS systems
- 26 new systems covered.
- 277 new vehicle-ECU configurations.
- 8 new Actuation type special tests, including:



- Crash Detection Signal Output tests
- Occupied Signal Output
- MA EPS Switching
- 7 new Adjustment type special test, including:
  - Crank Pattern Learning
  - EPS Steering Sensor Value Clear
  - Torque Sensor Learn

### ***Hyundai Coverage***

- Complete coverage added for 2013 Model Year vehicles
- Expanded coverage for 2007-2012 Smart Key Unit system
- Expanded coverage for 2009-2012 Power Distribution Module system
- 228 new systems covered.
- 293 new vehicle-ECU configurations.
- 91 new Actuation type special tests, including:
  - Transmission solenoids
  - Electric Parking Brake Apply
  - Release tests
  - Body actuations
  - Body relays
  - CKP CMP Signal Test
  - Cylinder Power Balance
  - EVAP tests
- 10 new Adjustment type special test, including:
  - Air Bleeding Mode
  - Auto Detected Config Reset
  - Reset Adaptive Values
  - Tire Pressure Sensor Registration

### ***Kia Coverage***

- Complete coverage added for 2013 Model Year vehicles
- Expanded coverage for 2011-2012 Smart Key Unit system
- Expanded coverage for 2011-2012 Power Distribution Module system
- 123 new systems covered.
- 140 new vehicle-ECU configurations
- 34 new Actuation type special tests, including:
  - Transmission solenoids



- Electric Parking Brake Apply
- Electric Parking Brake Release
- Body actuations and relays tests
- EVAP tests
- 5 new Adjustment type special test, including:
  - Air Bleeding Mode test
  - Reset Adaptive Values test
  - Tire Pressure Sensor Registration

### ***Mazda Coverage***

- Complete coverage added for 2013 Model Year vehicles
- 36 new systems covered.
- 46 new vehicle-ECU configurations.
- 3 new Actuation type special tests, including:
  - ABS Power Relay
  - Stability Control Solenoid tests
- 1 new Adjustment type special test, ID Registration Mode for Instrument Cluster system

### ***Nissan Coverage***

- Complete coverage added for 2013 Model Year vehicles
- New coverage added for 2009-2010 Cube, 2011-2013 Leaf and 2012-2013 M35h
- New coverage added for 2009-2013 Accelerator Pedal Module system
- Special Tests availability check has been added for most modules 1995-2013. This means the list of tests for the selected vehicle and ECU will be more accurate for what is actually supported by the vehicle.
- 4 new Nissan specific descriptions for OBDII Mode 6 parameters
- 29 new systems covered.
- 356 new vehicle-ECU configurations.

### ***Subaru Coverage***

- New enhanced coverage for Subaru, 1999-2013!
- New coverage includes DTCs, live data and tests for Engine, ABS, Airbag, TPMS, Body, Meter, Occupant Detection, Air Conditioning and Electric Parking Brake
- Improved OBD-II communications on older Subaru vehicles.
- 41 new systems covered.
- 384 new vehicle-ECU configurations.
- 33 new Actuation type special tests, including:
  - AC Compressor Relay



- Clutch PC Solenoids
- EGR Valve
- ELCM Pump
- Fuel Pressure Solenoid
- Fuel Pump
- Fuel Tank Sensor Control Valve
- Idle Speed Adjustment
- Injection Quantity Control
- Injectors tests
- PCV Test
- Vent Valve test
- 42 new Adjustment type special test, including:
  - Body settings and preferences for seats, locks, lights and alarms

## **New Coverage – USA European**

### ***Audi Coverage***

- Improved communications and error handling for KW1281 and TP2.0 protocol systems
- Controller ID function added for CAN and KW2000 controllers
- Improvements to Engine Output Test
- Added “Select ECU” functionality in the "Controllers" screen.
- Added functionality to allow user to manually enter the ECU ID.
- Improved the Datastream scroll functionality.
- Improved Coding functions.
- Improved Login + Adaptation functions.

### ***BMW/Mini Coverage***

- Expanded coverage for 2004-2010 X3 for Climate Control and Park Distance Control systems
- Expanded coverage for 2006-2010 X3 for Subwoofer Module system
- 4 new systems covered.
- 26 new vehicle-ECU configurations.

### ***Mercedes Coverage***

- Improved communications and expanded ECU coverage for 1999-2012 vehicles
- 4,779 new vehicle-ECU configurations.

### ***Volkswagen Coverage***

- Improved communications and error handling for KW1281 and TP2.0 protocol systems



- Controller ID function added for CAN and KW2000 controllers
- Improvements to Engine Output Test
- Added "Select ECU" functionality in the "Controllers" screen.
- Added functionality to allow user to manually enter the ECU ID.
- Improved the Datastream scroll functionality.
- Improved Coding functions.
- Improved Login + Adaptation functions.

### ***Jaguar Coverage***

- New enhanced coverage for Jaguar, 1997-2012!
- New coverage includes Engine, ABS, Airbag, TPMS, Body, Instrument Panel, Occupant Classification, HVAC, Cruise Control, Seats, Doors, Suspension, Steering
- 370 new systems covered.
- 1,365 new vehicle-ECU configurations.

### ***Land Rover Coverage***

- New enhanced coverage for Land Rover, 2005-2012!
- New coverage includes Engine, ABS, Airbag, TPMS, Body, Instrument Panel, Occupant Classification, HVAC, Cruise Control, Seats, Doors, Suspension, Steering
- 222 new systems covered.
- 503 new vehicle-ECU configurations.

### ***Technician / Customer Reported Defect Fixes:***

- Chrysler Fixes:
  - Fixes to IAC, Cylinder contribution and Fan test
- GM Fixes:
  - Fixes to MIL LAMP test.
- Honda Fixes:
  - Enhancement to Engine DTC reading for older vehicles
- Nissan Fixes:
  - Fixed the VSFE issue for 2007 Murano

### ***Engineering Reported Defect Fixes:***

- Honda Fixes:
  - Fixed speedometer test for Instrument Panel Module.
  - Fixed Data Items for Multiplexed ICU Passenger Module.
  - Added DTC 77-01 to Four Wheel Drive Module.



- Nissan Fixes:
  - Fixed No Communication issue on Body Controller (TPMS) for 2010 Altima
  - Fixed clear codes for 2011 Murano ABS.
  - Added ABS coverage for 2009 and 2010 Altima Hybrid.

Thank you for your patronage!