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### TOYOTA/LEXUS

#### New function added

##### Engine

- Special Function
  - Switch Specification Information
  - Reset Memory
  - ATF Thermal Degradation Estimate Reset
  - GPF Deposition Values Save
  - GPF Deposition Values Write
  - GPF Deposition Values Clear

##### Transmission

- Special Function
  - A/T Code Registration
  - A/T Code Reset

##### HV Battery

- Special Function
  - HV/EV Battery Thermal Keep Control Mode Setting
  - ECU Data Save
  - ECU Data Write
  - Hybrid/EV Battery Pack Serial Number Setting

##### Plug-in Control

- Special Function
  - DC Relay Diagnosis

##### FCDC

- Special Function
  - Check Mode
  - Vehicle Control History (RoB)

##### Air Conditioner

- Special Function
  - My Settings Initialization

##### SRS Airbag

- Special Function
  - VIN Memory
  - Load Specification Information

##### Clearance Warning

- Special Function
  - Tire Circumference Setting

##### Headlight Control

- Special Function
  - Vehicle Posture Reset

##### Headlight Control (Sub)

- Special Function
  - Vehicle Control History (RoB)

##### Vehicle Posture Reset

##### Entry&Start

- Special Function
  - Driver Information Registration

##### Blind Spot Monitor 'B'

- Special Function
  - BCM 'B' ECU Data Save
  - BCM 'B' ECU Data Write

##### Blind Spot Monitor 'A'

- Special Function
  - BCM 'A' ECU Data Save
  - BCM 'A' ECU Data Write

#### New System added

##### Front Recognition Camera

- Basic Function
  - DTC Analysis
  - Data Analysis
- Special Function
  - Vehicle Control History (RoB)
  - Recognition Camera/Target Position Memory
  - PCS Image Information Clear
  - PCS Image Record Setting
  - Initial Axis Adjust Value Display
  - Front Recognition Camera Axis Misalignment Reading
  - Transition to Online Axis Alignment Mode
  - Recognition Camera Axis Adjust

##### RL Door/LH PSD

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Vehicle Control History (RoB)

##### RR Door/RH PSD

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Vehicle Control History (RoB)

##### Digital Side-View Mirror

- Basic Function
  - DTC Analysis
  - Data Analysis
- Special Function
  - Camera Angle Adjustment Mode

##### Navigation System

- Basic Function  
DTC Analysis  
Data Analysis

Actuation Test  
ECU Information Display

Applicable Model : ROGUE

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### NISSAN/INFINITI

#### **New Type added**

AIRBAG (UDS)

- Basic Function  
DTC Analysis  
Data Analysis  
ECU Information Display

Applicable Model : ROGUE

Chassis Control (UDS)

- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test  
ECU Information Display

Applicable Model : ROGUE

ICC ADAS2 (UDS)

- Basic Function  
DTC Analysis  
ECU Information Display

Applicable Model : ROGUE

Lane Camera (UDS)

- Basic Function  
DTC Analysis  
Data Analysis  
ECU Information Display

Applicable Model : ROGUE

Multi AV (UDS)

- Basic Function  
DTC Analysis  
Data Analysis  
ECU Information Display

Applicable Model : ROGUE

Side Radar(Rear Left) (CAN,UDS)

- Basic Function  
DTC Analysis  
Data Analysis

Side Radar(Rear Right) (CAN,UDS)

- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test  
ECU Information Display

Applicable Model : ROGUE

ABS (EXCAN)

- Basic Function  
DTC Analysis  
Data Analysis  
ECU Information Display

Applicable Model : ROGUE

AT/CVT (EXCAN)

- Basic Function  
DTC Analysis  
Data Analysis  
ECU Information Display

Applicable Model : ROGUE

4WD (UDS)

- Basic Function  
DTC Analysis  
Data Analysis  
ECU Information Display

Applicable Model : ROGUE

Shift (UDS)

- Basic Function  
DTC Analysis  
Data Analysis  
ECU Information Display

Applicable Model : ROGUE

ANC(Active Noise Control) (UDS)

- Basic Function  
DTC Analysis  
Data Analysis  
ECU Information Display

Applicable Model : ROGUE

8ch CAN GATEWAY 2 (EXCAN)

- Basic Function  
DTC Analysis  
ECU Information Display

Applicable Model : ROGUE

ELECTRIC VTC (EXCAN)

- Basic Function  
DTC Analysis  
Data Analysis  
ECU Information Display

Applicable Model : ROGUE, SENTRA

VC-TURBO (EXCAN)

- Basic Function  
DTC Analysis  
Data Analysis  
ECU Information Display

Applicable Model : ROGUE

IVC (UDS)

- Basic Function  
DTC Analysis  
Data Analysis  
ECU Information Display

Applicable Model : ROGUE

lithium ion battery 12v (EXCAN)

- Basic Function  
DTC Analysis  
Data Analysis  
ECU Information Display

Applicable Model : DAYS

Hands Free Module (UDS)

- Basic Function  
DTC Analysis  
Data Analysis  
ECU Information Display

Applicable Model : SENTRA

HVAC (UDS)

- Basic Function  
DTC Analysis  
Data Analysis  
ECU Information Display

Applicable Model : SENTRA

ENGINE (EXCAN)

- Basic Function  
Actuation Test  
- Special Function  
Closed Throttle Position Learn  
Fuel Pressure Release  
A/F Initial Learning

Applicable Model : NOTE

AVM (CAN)

- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test  
ECU Information Display  
- Special Function  
Cause Of PSR Cancel  
Calibrating Camera Image (Front Camera)  
Calibrating Camera Image (Pass-Side Camera)  
Calibrating Camera Image (DR-Side Camera)  
Calibrating Camera Image (Rear Camera)  
Fine Tuning Of Birds-Eye View  
Rear Wide-View Fixed Guide Line Correction  
Front Wide-View Fixed Guide Line Correction  
Non-Viewable Area Reminder  
Select Language of Warning Message  
Predictive Course Line Display  
Initalize Camera Image Calibration  
Steering Angle Sensor Adjustment  
Calibrating Camera Image 2(Front Camera)  
Calibrating Camera Image 2(Pass-Side Camera)  
Calibrating Camera Image 2(DR-Side Camera)  
Calibrating Camera Image 2(Rear Camera)  
Cause of Entry Cancel  
MOD Function  
Rear Center Line Setting Change  
Rear Center Line Calibration Adjustment

Applicable Model : SERENA

LASER/RADAR (CAN)

- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test  
ECU Information Display  
- Special Function  
Milliwave Radar Adjust  
FEB Operation Mileage

Applicable Model : NV350

AT/CVTEXCAN)

- Special Function  
Control Valve Replacement

Applicable Model : NOTE

### Feedback

JPN:Bug fixed

South America: Bug fixed

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**HONDA /ACURA**

### New Type added

**Vezeł Hybrid, FIT Hybrid : Japan, Trinidad and Tobago**

DCT

- Basic Function
  - DTC analysis
  - Data analysis
  - ECU Information
- Special Function
  - TCM Reset
  - Clutch Filling Check/Clutch Assembly By Pressure
  - Reference Search
  - Learning Gear
  - Clutch Clamp Force Characteristic
  - Learning Synchronizing
  - Shift Clutch Quality Test
  - Open The Refill Orifice

### Honda e : Japan

Electric Powertrain

- Basic Function
  - DTC analysis
  - ECU Information

### Accord Hybrid : Japan

Active Damper/Adaptive Damper

- Basic Function
  - DTC Analysis
  - Data Analysis
  - ECU Information

### Accord Hybrid : Japan

BCM\_Lighting

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test

BCM\_Doorlocks

- Basic Function
  - DTC Analysis

Data Analysis  
Actuation Test

BCM\_Keyless

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Keyless Check

BCM\_Security

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - History Data Clear
  - History Data

BCM\_Wiper

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test

BCM\_HVAC

- Basic Function
  - DTC Analysis
- Special Function
  - HVAC Control Unit Self Test

### N-WGN : Japan

BCM\_Lighting

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test

BCM\_Doorlocks

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test

BCM\_Keyless

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Keyless Check

BCM\_Security

- Basic Function

DTC Analysis  
Data Analysis  
Actuation Test  
- Special Function  
History Data Clear  
History Data

BCM\_Wiper  
- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test

**S660 : Japan**  
BCM\_Lighting  
- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test

BCM\_Doorlocks  
- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test

BCM\_Keyless  
- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test  
- Special Function  
Keyless Check

BCM\_Security  
- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test  
- Special Function  
History Data Clear  
History Data

BCM\_Wiper  
- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test

BCM\_HVAC  
- Basic Function  
DTC Analysis  
Data Analysis  
- Special Function  
HVAC Control Unit Self Test

**CIVIC : Costa Rica**  
BCM\_Gauge  
- Basic Function  
DTC Analysis  
Data Analysis  
- Special Function  
SELF - DIAGNOSTIC FUNCTION  
Serive Reminder (USA)  
PAX Warning Reset (USA)

BCM\_Lighting  
- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test

**New Sytem added**  
**CIVIC : USA, Japan**  
Monocular Camera Driver Support System  
- Basic Function  
DTC Analysis  
Data Analysis  
ECU Information  
- Special Function  
Static Camera Aiming  
Dynamic Camera Aiming

**New Function added**  
**N-Box, Accord Hybrid : Japan**  
Engine  
- Special Function  
Electric Water Pump Test  
Radiator Fan

**Feedback**  
JPN: Function improvement  
Engine DTC Analysis, Data Analysis  
SRS, Gauge Data Analysis  
VNM: Automatic selection improved  
JPN: EPS Data Analysis fixed

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**MITSUBISHI**

**New models and systems added**  
**EXPRESS (X82)**  
- Injection  
- A.B.S.  
- Instrument Panel  
- UCH  
- Airbag / Pretensioners

- Air Conditioning
- Variable PAS

### MINICAB-MiEV

- IMMOBILIZER
- 4WS / Electric Power steering
- ABS/ASC/ASTC/WSS
- SRS-AIR BAG
- ETACS (Electronic Time and Alarm Control System)
- Meter
- EV-ECU
- BMU (Battery Monitoring Unit)
- COMP / HTR
- OBC (On Board Charger)
- MCU (Motor Control Unit)
- CMU1 (Cell Monitor Unit)
- CMU2
- CMU3
- CMU4
- CMU5
- CMU6
- CMU7
- CMU8
- CMU9
- CMU10
- CMU11
- CMU12

### OUTLANDER (GM4W)

- Engine
- Airbag
- EPS
- NATS
- BCM
- IPDM
- Meter
- HVAC
- ICC/ADAS2
- Multi AV
- Lane Camera
- Sonar
- Chassis Control
- Laser/Radar
- Side Radar (Rear Left)
- Side Radar (Rear Right)
- Hands Free Module

### TRITON / L200 (KA# KB#)

- MPI / GDI / DIESEL
- IMMOBILIZER
- ELC-AT / CVT / TC-SST
- SS4 II / ES4 (Super Select 4WD II)
- ABS/ASC/ASTC/WSS
- SRS-AIR BAG
- Air Conditioner

- ETACS (Electronic Time and Alarm Control System)
- Meter
- Steering Angle Sensor

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## SUZUKI/MARUTI

### New Type added

#### ABS (CAN)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - ECU Information Display

#### EPI(Engine/AT) (CAN)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - ECU Information Display
- Special Function
  - A/C Type Variant Information Clear
  - 2/4WD Variant Information Clear
  - Starter Drive Counter Reset

#### AT\_CVT\_AGS (CAN)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - ECU Information Display
- Special Function
  - Gear Shift Count Initialization for Maintenance
  - All Learning Value Initialization
  - Clutch assembly initialization
  - Shift Tower Initialization
  - Oil discharge
  - Show Auto Gear Shift learning result

#### BCM (CAN)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - ECU Information Display
- Special Function
  - Accessory Delay Signal
  - Answer-Back
  - Answer-Back (Siren)
  - Auto Drive Lock
  - Auto Drive Unlock
  - Central Locking 3
  - Door Mirror

Door Unlock  
 Exterior Lamp Output 1  
 Exterior Lamp Output 2  
 Exterior Lamp Output 4  
 Keyless Start System  
 Rear Wiper  
 Remote Controller Area Warning  
 Remote Controller Battery Warning  
 Security Alarm  
 Shock Sensor  
 Shock Sensor Full Blast Sensitivity  
 Shock Sensor Pre-warn Sensitivity  
 Turn Signal Light  
 Wiper / Washer Output

### METER (CAN)

- Basic Function  
   DTC Analysis  
   Data Analysis  
   Actuation Test  
   ECU Information Display  
 - Special Function  
   Status Information Lamp  
   Eco-Score  
   A-STOP time/fuel economy

### Feedback

JPN:Bug fixed

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## SUBARU

### New system added

Eye sight(New BRZ)  
 - Basic Function  
   DTC Analysis  
   DTC Erase Memory  
   Data Analysis  
   ECU Information Display  
 - Special Function  
   Camera all adjustment mode(Replacement/removal)  
   Automatic adjustment and function check by driving  
   Coarse adjustment  
   Color inspection  
   Clear adjustment value  
   Clear active lane keep system learning value  
   EyeSight All Initialization

### Engine #1

- Basic Function  
   DTC Analysis

DTC Erase Memory  
 Data Analysis  
 Actuation Test  
 ECU Information Display  
 - Special Function  
   Injector(s) read/replacement  
   Engine Coolant Air Purge Mode  
   Dealer Check Mode Procedure  
   Entry VIN  
   GPF(Gasoline Particulate Filter) Change  
   GPF(Gasoline Particulate Filter) Regeneration  
   LNT(Leave No Trace) Change  
   Forced S Purge

### Engine #2

- Basic Function  
   DTC Analysis  
   DTC Erase Memory  
   Data Analysis  
   ECU Information Display  
 - Special Function  
   Injector Programming  
   Engine Coolant Air Purge Mode  
   Dealer Check Mode Procedure  
   Entry VIN  
   GPF(Gasoline Particulate Filter) Change  
   GPF(Gasoline Particulate Filter) Regeneration  
   LNT(Leave No Trace) Change  
   Forced S Purge

### AT

- Basic Function  
   DTC Analysis  
   DTC Erase Memory  
   Data Analysis  
   ECU Information Display  
 - Special Function  
   Clear AT learning value  
   AT Learning mode  
   Rear differential inspection mode

### ABS

- Basic Function  
   DTC Analysis  
   DTC Erase Memory  
   Data Analysis  
   ECU Information Display  
 - Special Function  
   Brake maintenance mode  
   VSC(VDC) Centering mode  
   ABS Sequence control mode  
   VDC Check mode  
   Brake lamp lighting operation

### SRS Airbag #1



- Basic Function
  - DTC Analysis
  - DTC Erase Memory
  - Data Analysis
  - ECU Information Display

### SRS Airbag #2

- Basic Function
  - DTC Analysis
  - DTC Erase Memory
  - Data Analysis
  - ECU Information Display

### Meter

- Basic Function
  - DTC Analysis
  - DTC Erase Memory
  - Data Analysis
  - Actuation Test
  - ECU Information Display
- Special Function
  - Customize

### AC(Air condition system)

- Basic Function
  - DTC Analysis
  - DTC Erase Memory
  - Data Analysis
  - Actuation Test
  - ECU Information Display

### AHLS(Automatic headlight leveling system)

- Basic Function
  - DTC Analysis
  - DTC Erase Memory
  - Data Analysis
  - Actuation Test
  - ECU Information Display
- Special Function
  - Customize

### PSS(Power steering system)

- Basic Function
  - DTC Analysis
  - DTC Erase Memory
  - Data Analysis
  - ECU Information Display
- Special Function
  - Clear vehicle specific assist map

### BSD-L(Blind spot detection left side)

- Basic Function
  - DTC Analysis
  - DTC Erase Memory
  - Data Analysis

- Actuation Test
- ECU Information Display
- Special Function
  - RADAR Alignment

### BSD-R(Blind spot detection right side)

- Basic Function
  - DTC Analysis
  - DTC Erase Memory
  - Data Analysis
  - Actuation Test
  - ECU Information Display
- Special Function
  - RADAR Alignment

### Reverse automatic braking

- Basic Function
  - DTC Analysis
  - DTC Erase Memory
  - Data Analysis
  - ECU Information Display
- Special Function
  - Clear vehicle specific assist map

### Central gateway

- Basic Function
  - DTC Analysis
  - DTC Erase Memory
  - Data Analysis
  - ECU Information Display
- Special Function
  - LAN Connection unit registration

### Keyless(PS)

- Basic Function
  - DTC Analysis
  - DTC Erase Memory
  - Data Analysis
  - ECU Information Display

### Keyless(C)

- Basic Function
  - DTC Analysis
  - DTC Erase Memory
  - Data Analysis
  - ECU Information Display

### Power seat memory

- Basic Function
  - DTC Analysis
  - DTC Erase Memory
  - Data Analysis
  - ECU Information Display

### **New function added**

### Engine

- Special Function  
Entry VIN(JPN)

### ALW(Automatic light and wiper system)

- Special Function  
Sensor initial setting

### Eye sight

- Special Function  
Display / Display change

### Function improvement and bug fixes

- DTC items added
- Data Analysis bug fixed
- System comm. Stabilized
- Special Function Stabilized (AT, ABS)

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## ISUZU

### New System Added

#### N-Series ABS/ASR

- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test  
ECU Information
- Special Function  
Program Tire Size

#### N-Series Engine 4JZ1

- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test  
ECU Information
- Special Function  
DPD Regeneration  
DPD Regeneration Data Reset  
Engine Oil Exchange Reset  
VIN Programming  
Accelerator Pedal Position (Full) Learn Value Reset  
NOx Learning Reset  
Lambda Learning Value Reset  
Service Management Data Reset  
Reset engine control module  
Baro Press Zero Learning  
Exhaust Differential Pressure Zero Learning  
EDU Flag Check  
EDU Learning

### DPD Dry

- Check DPD Differential Pressure
- EEPROM Error clear

### N-Series CAN Converter

- Basic Function  
DTC Analysis  
Data Analysis  
ECU Information
- Special Function  
Vehicle Configuration Data  
ECU Lock  
Steering Angle Sensor Learn  
G Sensor Zero Point Learn

### C/E-Series Engine 6UZ1-TC\_8F08

- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test  
ECU Information
- Special Function  
Engine Retarder  
DPD Regeneration  
Fuel Delivery Rate  
Injector programming  
MAF Learn Value  
DPD Regeneration data reset  
Engine oil exchange reset  
VIN Programming  
NOx Learning Reset  
Lambda Learning Value Reset  
Baro Press Zero Learning  
MAF Learning  
DPD Dry  
DPD Cooling Mode  
Check DPD Differential Pressure  
EEPROM Error clear

### F/G-Series Engine 6HK1-TC Eu5\_89B3

- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test  
ECU Information
- Special Function  
DPD Regeneration  
Fuel Delivery Rate  
Injector programming  
DPD Regeneration data reset  
Engine oil exchange reset  
VIN Programming  
Accelerator Pedal Position (Full) Learn Value Reset  
Fuel supply pump learn resetting  
DPD Cooling Mode

Check DPD Differential Pressure  
DPD Dry

- Suspension (KNORR AIRSUSPENSION-500K)  
- VCS

### New Function Added

N-Series 4HK1-TC EU6\_8D05

- Special Function  
Reset Oil Dilution

F/G-Series Transmission\_0B0E

- Special Function  
Optimal Start Shift Gear Control Setting

D-MAX PESS

- Basic Function  
Data Analysis

N-Series SRS Denso

- Basic Function  
DTC Analysis  
ECU Information

New D-MAX Engine RZ4E SCR\_2306

- Special Function  
VIN Programming

N-Series VAT R5\_9008

- Special Function  
Program Vehicle Configuration Data

### Feedback

AUS : F/G-Series Engine 4HK1-TC Euro5 Special  
Function Bug fixed

MYS : N-Series Engine 4JH1-TC Data Bug fixed

PHL : C/E-Series Engine 6W\*1-TC Bug fixed

THA : Old D-MAX 4JJ1-TC Data Bug fixed

RUS : F/G-Series EBS(Knorr) DTC Bug fixed

CHL : N-Series SRS Denso DTC added

THA : Old D-MAX 4JJ1-TC Data added

AUS : N-Series VAT Special Function Bug fixed

HKG : C/E-Series 6WG1-TC Special Function Bug fixed

TUR : N-Series RZ4E R2 Special Function Bug fixed

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## HINO

### New models and systems added

#### PONCHO (2DG)

- Engine (J05E-UU)
- DCU (Doser) (500K)
- Transmission
- Brake (ADVICE ABS)

## FUSO

### New models and systems added

#### AERO STAR (EURO 5)

- ACM - AdBlue(R) exhaust aftertreatment unit
- Engine
- TCM - Transmission control
- ISS
- Integration Control
- ABS
- Hill start
- SRS Airbag
- Headlamp Auto-Leveling

#### FIGHTER (EURO 6)

- CGW - Central gateway
- ABS - Antilock brake system
- ACM - AdBlue(R) exhaust aftertreatment unit
- ASAM - Advanced signal acquisition and actuation module
- CDS - Central data memory
- CTP - Common Telematics Platform
- ECMD - Combustion engine Control un
- ICUC - Instrument cluster
- IMMO - Immobilizer Control unit
- MPC - Multifunction camera
- MS - Maintenance system
- RDF - Radar sensor
- SAS - Steering wheel angle sensor
- SRRL - Short range radar Left
- SRS - Supplemental restraint system
- TCC - Truck Control Center
- VRDU - Driver assistance system
- XMC - SAM with additional functions

### New system added

#### FIGHTER (EURO 5)

- ISS
- Basic Function  
DTC Analysis  
Data Analysis  
ECU Information Display

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### AUDI/VW/SEAT/SKODA

#### New system added

##### 0D-Sliding Door-Left (CAN)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Adaptation
  - Long Adaptation
  - Long Coding
  - Security Access

##### 11-Engine Electronics 2 (UDS)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Adaptation
  - Coding
  - Security Access

##### 18-Auxiliary Heater (UDS)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Coding
  - Security Access

##### 1B-Active Steering (UDS)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Coding
  - Security Access

##### 20-High Beam Assist (UDS)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting

- Coding
- Security Access

##### 23-Brake Booster (UDS) New

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Adaptation
  - Coding
  - Security Access
  - Basic setting for distance sensor
  - Parking brake function test

##### 26-Electronic Roof Controls (UDS)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Coding
  - Security Access

##### 2D-Voice Amplification (CAN)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Adaptation
  - Long Adaptation
  - Long Coding
  - Security Access

##### 3D-Special Function (UDS)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Coding
  - Security Access

##### 40-AC Compressor (UDS)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting

Coding  
Security Access

### 51-Electric Drive (UDS)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Coding
  - Security Access

### 57-TV Tuner (UDS)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Coding
  - Security Access

### 78-Sliding Door-Right (CAN)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Adaptation
  - Long Adaptation
  - Long Coding
  - Security Access

### 7F-Information Control unit-2 (CAN)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Adaptation
  - Long Adaptation
  - Long Coding
  - Security Access

### 7F-Information Control unit-2 (UDS)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Coding

Security Access

### **New function added and improved**

#### 01-Engine Electronics (CAN)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Adaptation
  - Long Adaptation
  - Long Coding
  - Security Access

#### 01-Engine Electronics (extended)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Adaptation
  - Fill/bleed cooling system
  - Radiator blind adaptation

#### 03- Brake Electronics (UDS)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Adaptation
  - Coding
  - Security Access
  - Hydraulic valve replacement test
  - Output DTM, ABS Return Flow Pump -V39-

#### 08-Auto HVAC (UDS)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Coding
  - Security Access
  - Fill evacuate flush refrigerant circuit
  - Check Cooling power
  - Transfer external temperature
  - Actuator diagnostic test
  - Compressor shut-off conditions

#### 09 Electronic Central Electrics (UDS)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Coding
  - Security Access
  - Reset brake pad wear indicator
  - Reset vehicle settings

### 13-Distance regulation (UDS)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Coding
  - Security Access

### 15-Airbag (UDS)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Adaptation
  - Coding
  - Security Access

### 17-Instrument Cluster (UDS)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Adaptation
  - Coding
  - Security Access

### 19-CAN Gateway (UDS)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Coding
  - Security Access

### 25-Immobilizer (UDS)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Coding
  - Security Access

### 36-Seat Adjustment-Driver (UDS)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Coding
  - Security Access

### 3C-Lane Change Assistant (UDS)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Adaptation
  - Coding
  - Security Access

### 42-Door electronics (UDS)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Coding
  - Security Access
  - Fill/bleed cooling system
  - Radiator blind adaptation

### 44-Steering assistance (UDS)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Coding
  - Security Access

### 52-DoorElectronics Passenger(UDS)

- Basic Function

DTC Analysis  
Data Analysis  
Actuation Test  
- Special Function  
Basic setting  
Coding  
Security Access  
Adapt front limit stops and soft stops  
Driver's Door Electronics, Actuator diagnostic test

### 5F-Information Electronics(extended)

- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test  
- Special Function  
Basic setting  
Adaptation

### 5F-Information Electronics (UDS)

- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test  
- Special Function  
Basic setting  
Adaptation  
Coding  
Security Access

### 6D-Trunk (UDS)

- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test  
- Special Function  
Basic setting  
Coding  
Security Access

### 75-Telematics (UDS)

- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test  
- Special Function  
Basic setting  
Coding  
Security Access

### 81-Gear Shift (UDS)

- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test

- Special Function  
Basic setting  
Coding  
Security Access

### 82 Head Up Display (UDS)

- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test  
- Special Function  
Basic setting  
Coding  
Security Access

### 7E-Instrument cluster display (extended)

- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test  
- Special Function  
Basic setting  
Adaptation  
Perform final control diagnosis

### A5-Front sensor driver (UDS)

- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test  
- Special Function  
Basic setting  
Coding  
Security Access

### BB-Door Electronics Rear Driver side (UDS)

- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test  
- Special Function  
Basic setting  
Coding  
Security Access  
Adapt rear limit stops and soft stop

### BC-Rear passenger side door electronics (UDS)

- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test  
- Special Function  
Basic setting  
Coding  
Security Access



Adapt front limit stops and soft stops

CA-Sunroof control (extended)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Adaptation
  - Actuator diagnostic test

D6-Light control left 2 (extended)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Adaptation
  - Actuator diagnostic test

D7- Light control right 2 (extended)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Adaptation
  - Actuator diagnostic test

8125 Application server 3 (extended)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Adaptation
  - Actuator diagnostic test

C002 Software cluster (extended)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
- Special Function
  - Basic setting
  - Adaptation
  - Basic setting headlight range control

VW Taos 2022 A5-Front sensors Driver Assistance (UDS)

- Special Function

Calibrating front camera

VW ID.3 2022 A5-Front sensors Driver Assistance (UDS)

- Special Function
  - Calibrating front camera

VW ID.4 2022 A5-Front sensors Driver Assistance (UDS)

- Special Function
  - Calibrating front camera

VW ID.6 2022 A5-Front sensors Driver Assistance (UDS)

- Special Function
  - Calibrating front camera

AUDI E-Tron 2022 A5-Front sensors Driver Assistance (UDS)

- Special Function
  - Calibrating front camera

AUDI Q3 2022 A5-Front sensors Driver Assistance (UDS)

- Special Function
  - Calibrating front camera

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### FORD EU

**Escape HEV/PHEV 2.3L HEV/ATKINSON 4V 2005 ~ 2008 model year added**

- PCM(PowerTrain Control Module)
- TCM(Transmission Control Module)
- 4X4(4x4 Control Module)
- ABS(Anti-Lock Brake System)
- ACM(Audio Control Module)
- BCM(Battery Charger Control Module)
- FCIM(Front Controls Interface Module)
- FDIM(Front Display Interface Module)
- GEM/SJB(Generic Electronic Module/Smart Junction Box)
- HVAC(Heating Ventilation Air Conditioning)
- IC(Instrument Cluster)
- OCSM(Occupant Classification System Module)
- PSCM(Power Steering Control Module)
- RCM(Restraint Control Module)
- SDARS(Satellite Digital Audio Receiver System)
- PATS(Passive Anti Theft System)

**Escape HEV/PHEV 2.5L DURA D4 IVCT ATK HEV/PHEV 2020 ~ model year added**

- PCM(Powertrain Control Module)
- ABS(Anti-Lock Brake System)
- ACCM(Air Conditioning Control Module)



- ACM(Audio Front Control Module)
- APIM(SYNC Module)
- BCM(Body Control Module)
- BCMC(Body Control Module C)
- BECM(Battery Energy Control Module)
- BECMB(Battery Energy Control Module B)
- CCM(Cruise Control Module)
- DCDC(Direct Current/direct Current Converter Control Module)
- DDM(Driver Door Module)
- DSM(Driver Front Seat Module)
- DSP(Audio Digital Signal Processing Module)
- GSM(Gear Shift Module)
- GWM(Gateway Module A)
- HUD(Head Up Display)
- HVAC(Heating Ventilation And Air Conditioning)
- IPC(Instrument Panel Cluster)
- IPMA(Image Processing Module A)
- OCSM(Occupant Classification System Module)
- PACM(Pedestrian Alert Control Module)
- PAM(Parking Assist Control Module)
- PDM(Passenger Door Module)
- PSCM(Power Steering Control Module)
- RCM(Restraints Control Module)
- RGTM(Rear Gate Trunk Module)
- RTM(Radio Transceiver Module)
- SCCM(Steering Column Control Module)
- SOBDMC(Secondary On-Board Diagnostic Control Module C)
- SODL(Side Obstacle Detection Control Module LH)
- SODR(Side Obstacle Detection Control Module RH)
- TCU(Telematic Control Unit Module)
- WACM(Wireless Accessory Charging Module)

### **FUSION Full Hybrid Electric Vehicle 2.0L 2018 ~ 2021 model year added**

- PCM(PowerTrain Control Module)
- ABS(Anti-Lock Brake System)
- ACCM(Air Conditioning Control Module)
- ACM(Audio Control Module)
- APIM(Accessory Protocol Interface Module)
- BCM(Body Control Module)
- BECM(Battery Energy Control Module)
- BECM-B(Battery Energy Control Module B)
- C-CM(Cruise Control Module)
- DACM-C(Digital Audio Control Module C)
- DCDC(DC to DC Converter Control Module)
- DDM(Driver's Door Module)
- DSM(Driver's Seat Module)
- DSP(Digital Signal Processing Module)
- FCDIM(Front Control/Display Interface Module)
- FCIM(Front Controls Interface Module)
- GPSM(Global Positioning System Module)
- GWM(Gateway Module A)
- GSM(Gear Shift Module)

- HCM(Headlamp Control Module)
- HSWM(Heated Steering Wheel Module)
- HUD(Head Up Display)
- IPC(Instrument Panel Control Module)
- IPM-A(Image Processing Module A)
- OCSM(Occupant Classification System Module)
- PACM(Pedestrian Alert Control Module)
- PAM(Parking Aid Module)
- PDM(Passenger's Door Module)
- PSCM(Power Steering Control Module)
- RACM(Rear Audio Control Module)
- RCM(Restraint Control Module)
- RTM(Radio Transceiver Module)
- SCCM(Steering Column Control Module)
- SCM-E(Seat Control Module E)
- SCM-G(Seat Control Module G)
- SCM-H(Seat Control Module H)
- SOBDM-C(Secondary OBD Control Module C)
- SOD-L(Side Obstacle Detection Control Module Left)
- SOD-R(Side Obstacle Detection Control Module Right)
- TCU(Telematic Control Unit Module)
- TRCM(Transmission Range Control Module)
- VDM(Vehicle Dynamic Module)

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## RENAULT / DACIA

### **Feedback**

GRE: SCENIC Injection DTC Erase Bug fixed  
 AUS: MASTER III AT Special Function added  
 ISR: CLIO IV Injection DTC Unknown

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## BMW / MINI

### **New system added**

- 1 series: F20 / F21 (2011 - present)**
- EDC (Vertical dynamics management)
- Basic Function
    - DTC Analysis
    - Data Analysis
    - Actuation Test
    - ECU Information Display
- AMPH (Hi-Fi amplifier)
- Basic Function
    - DTC Analysis
    - Data Analysis

Actuation Test  
 ECU Information Display

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ASD (Active Sound Design)

- Basic Function
- DTC Analysis
- Data Analysis
- Actuation Test
- ECU Information Display

**New Model & System added**

**MINI COOPER S (F55, 2022)**

- DME (Digital Motor Electronics)
- EGS (Electronic transmission management)
- GWS (Gear selector switch)
- DSC (Dynamic stability control)
- EPS (Electromechanical power steering)
- ACSM (Crash Safety Module)
- ASD (Active Sound Design)
- BDC (Body Domain Controller)
- CON (Controller)
- FLEL (Frontal Light Electronics Left)
- FLER (Frontal Light Electronics Right)
- HU-H (Headunit High)
- IHKA (Integrated automatic heating / air conditioning system)
- KAFAS (Camera-based driver-assistance systems)
- KOMBI (Instrument cluster)
- PMA (Parking manoeuvring assistant)
- TCB (Telematic Communication Box)
- TRSVC (ALL round-view camera)
- ZGM (Central Gateway Module)

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## LAND ROVER

**Feedback**

AUS: EPB TIP function improved

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## JAGUAR

**New Function added**

**F-Pace 2017 V6 Diesel : AU**

PCM

- Special Function
- Diesel Particulate Filter Dynamic Regeneration

## MERCEDES BENZ

- Special Function
- Variant Coding (Customize)

A-Class 168 ATA - ATA [EDW]/tow-away/interior

- Basic Function
- DTC Analysis

**Feedback**

AUS : C-Class 204 SAM-front DTC bug fixed

AUS : E-Class 213 Engine DTC added

AUS : Sprinter 907 Gateway Security added

AUS : V-Class 639 Engine Bug fixed

USA : GLC-Class 167 MFK Special Function Bug Fixed

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## FIAT / ALFA ROMEO / LANCIA

**New system added**

Engine #1

- Basic function
- DTC Analysis
- DTC Erase Memory
- Data Analysis
- Actuation Test
- ECU Information Display
- Special Function
- Self-adaptation parameters reset
- Self-learnt functions reset
- Knock counter reset
- Startup With Code Card

Engine #2

- Basic function
- DTC Analysis
- DTC Erase Memory
- Data Analysis
- ECU Information Display
- Special Function
- EGR High Pressure Valve Test
- EGR Low Pressure Valve Test
- Glow plug preheating circuit test
- Reset Driven Distance With Fuel Lamp On
- Reset Driven Distance With Water Temperature Lamp On
- Reset self-learnt functions
- Speed Limit Setting

Throttle Valve Test  
 Air flow meter sensor replacement  
 Clutch Group and Clutch Potentiometer Replacement  
 Injector programming  
 Differential pressure sensor replacement  
 Downstream lambda probe replacement  
 EGR low pressure valve replacement  
 Fuel Press. Regulator Replacement  
 Intelligent Alternator (IAM) Replacement  
 Neutral Sensor Position Learning  
 NOx replacement  
 Oil change  
 Particle filter regeneration (only for version with DPF)  
 Particulate Filter With Integrated Pre-cat Replacement  
 Phonic wheel replacement  
 Rail pressure sensor replacement  
 Upstream lambda probe replacement  
 VGT and/or turbo position sensor replacement

### New function added

Engine  
 - Special function  
 Injector coding(7 Digit)

### Function improvement and bug fixes

Quick search added  
 DTC item added  
 Data Analysis bug fixed  
 System comm. Stabilized

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## PEUGEOT

### New Type added

#### 2008(P24)

Touch screen  
 - Basic Function  
 DTC Analysis  
 Data Analysis  
 Actuation Test  
 ECU Information Display

#### Multifunction control panel

- Basic Function  
 DTC Analysis  
 Data Analysis  
 Actuation Test  
 ECU Information Display

### New function added

#### 508 (R8)

Driver's door module

- Basic Function  
 Data Analysis  
 Actuation Test

### Function improvement and bug fixes

Bug fixed  
 208 (Ai91)  
 - Built-In system interface  
 - Engine  
 - Gearbox  
 - Multiplexed additive adding pump  
 - Headlamp height adjuster/ directional headlamp  
 - Power steering  
 - ABS or ESP  
 - Instrument panel  
 - Controls under the steering wheel  
 - Controls on the steering wheel / integral controls steering wheel  
 - Multiplexed control panel  
 - Airbags and pretensioners ECU  
 - Rain and brightness sensor  
 - Telematic unit (RTx) or audio-navigation  
 - Touch screen  
 - Air conditioning

#### 2008(P24)

- Built-in Systems interface  
 - Engine  
 - Gearbox  
 - Sequential gear lever  
 - Power steering  
 - ABS or ESP  
 - Battery charge status unit  
 - Instrument panel  
 - Diesel additive pump  
 - Head up display  
 - Controls under the steering wheel  
 - Controls on the steering wheel / integral controls steering wheel  
 - Multiplexed control panel  
 - Airbags and pretensioners ECU  
 - Seat belt not fastened warning lights unit  
 - Rain and brightness sensor  
 - Multifunction video camera  
 - Parking assistance  
 - Touch screen  
 - Telematic unit (RTx) or audio-navigation  
 - Control of telematic unit  
 - Air conditioning

#### PARTNER (K9)

- Built-in Systems interface  
 - Engine  
 - Diesel additive pump  
 - Automatic or piloted manual gearbox

- Power steering
- ABS or ESP
- Battery charge status control unit
- Instrument panel
- Controls under the steering wheel
- Controls on the steering wheel / integral controls steering wheel
- Traction control mode selector
- Multifunction control panel
- Airbags and pretensioners ECU
- Seat belt not fastened warning lights unit
- Rain and brightness sensor
- Interior mirror with screen
- Multifunction video camera
- Parking assistance
- Multifunction screen
- Touch screen
- Audio-navigation/connected audio system
- Radio
- Audio-navigation system/connected audio system controls
- Air conditioning

### PARTNER (B9)

- Built-In system interface
- Engine
- Gearbox
- ABS or ESP
- Power steering
- Diesel additive pump
- Battery charge status unit
- Engine wiring housing
- Bodywork conversion unit
- Trailer relay unit
- Airbags and pretensioners ECU
- Multifunction screens
- Instrument panel
- Controls under the steering wheel
- Radio
- Air conditioning

### Feedback

ISR: 206 Gearbox DTC Bug fixed  
ISR: BOXER DTC items added  
GRC: 308 Built-in Systems interface DTC Bug fixed

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## CITROEN

### Feedback

CHL: Xsara Picasso Engine DTC Bug fixed

ISR: C4 PICASSO Engine DTC items and status added

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## GM USA

### New Model & System added

#### Cadillac

#### XT4 2022

- Powertrain
  - 2.0L LSQ Engine Control Module
  - 2.0L LSY Engine Control Module Exhaust Emission Not Equipped
  - 2.0L LSY Engine Control Module Exhaust Emission China (NF5)
  - Transmission Control Module 9 Speed (M3H)
  - Transmission Control Module 9 Speed (MJD)
  - Rear Drive Control Module

#### - Chassis

- Brake System Control Module
- Power Steering Control Module
- Suspension Control Module

#### - Body

- Body Control Module
- Serial Data Gateway Module - Processor 1
- Serial Data Gateway Module - Processor 2
- Inflatable Restraint Sensing and Diagnostic Module
- Passenger Presence Module
- Instrument Cluster Enhanced Driver Information Center (UDD)
- Instrument Cluster Enhanced Multi-Color Driver Information Center (UHS)
- Radio Controls
- HVAC Controls
- Active Safety Control Module
- Video Processing Control Module
- Headlamp Control Module
- Trailer Lighting Control Module
- Radio
- Amplifier
- Infotainment Control Switch
- Telematics Communication Interface Control Module
- HVAC Control Module
- Liftgate Control Module
- Seat Memory Control Module - Passenger
- Seat Memory Control Module - Driver
- Keyless Entry Control Module
- Side Obstacle Detection Control Module - Left
- Side Obstacle Detection Control Module - Right
- Parking Assist Control Module
- Frontview Camera - Windshield

Steering Column Lock Control Module  
 Forward Range Radar Sensor - Long Range  
 Short Range Radar Sensor - Rear Middle

### XT5 2022

- Powertrain  
 2.0L LSY Engine Control Module Exhaust Emission  
 Not Equipped  
 2.0L LSY Engine Control Module Exhaust Emission  
 China (NF5)  
 3.6L LGX Engine Control Module  
 Transmission Control Module  
 Rear Drive Control Module

### - Chassis

Electronic Brake Control Module  
 Brake System Control Module  
 Power Steering Control Module  
 Suspension Control Module

### - Body

Body Control Module  
 Serial Data Gateway Module - Processor 1  
 Serial Data Gateway Module - Processor 2  
 Inflatable Restraint Sensing and Diagnostic Module  
 Passenger Presence Module  
 Seat Belt Retractor Motor Module - Left  
 Seat Belt Retractor Motor Module - Right  
 Instrument Cluster Enhanced Driver Information  
 Center (UDD)  
 Instrument Cluster Enhanced Multi-Color Driver  
 Information Center (UHS)  
 Night Vision Camera Control Module  
 Radio Controls  
 HVAC Controls  
 Active Safety Control Module  
 Video Processing Control Module  
 Trailer Lighting Control Module  
 Radio  
 Amplifier  
 Infotainment Control Switch  
 Telematics Communication Interface Control Module  
 HVAC Control Module  
 Liftgate Control Module  
 Seat Memory Control Module - Driver  
 Keyless Entry Control Module  
 Side Obstacle Detection Control Module - Left  
 Side Obstacle Detection Control Module - Right  
 Parking Assist Control Module  
 Frontview Camera - Windshield  
 Steering Column Lock Control Module  
 Forward Range Radar Sensor - Long Range  
 Short Range Radar Sensor - Rear Middle

### XT6 2022

- Powertrain  
 2.0L LSY Engine Control Module Exhaust Emission  
 Not Equipped  
 2.0L LSY Engine Control Module Exhaust Emission  
 China (NF5)  
 3.6L LGX Engine Control Module  
 Transmission Control Module  
 Rear Drive Control Module

### - Chassis

Brake System Control Module  
 Power Steering Control Module  
 Suspension Control Module

### - Body

Body Control Module  
 Serial Data Gateway Module - Processor 1  
 Serial Data Gateway Module - Processor 2  
 Digital Map Control Module  
 Inflatable Restraint Sensing and Diagnostic Module  
 Passenger Presence Module  
 Seat Belt Retractor Motor Module - Left  
 Seat Belt Retractor Motor Module - Right  
 Instrument Cluster Enhanced Driver Information  
 Center (UDD)  
 Instrument Cluster Enhanced Multi-Color Driver  
 Information Center (UHS)  
 Night Vision Camera Control Module  
 Radio Controls  
 HVAC Controls  
 Driver Monitoring System Control Module  
 Active Safety Control Module  
 Video Processing Control Module  
 Headlamp Control Module  
 Trailer Lighting Control Module  
 Radio  
 Amplifier  
 Infotainment Control Switch  
 Telematics Communication Interface Control Module  
 HVAC Control Module  
 Liftgate Control Module  
 Seat Memory Control Module - Driver  
 Keyless Entry Control Module  
 Side Obstacle Detection Control Module - Left  
 Side Obstacle Detection Control Module - Right  
 Parking Assist Control Module  
 Frontview Camera - Windshield  
 Steering Column Lock Control Module  
 Forward Range Radar Sensor - Long Range  
 Short Range Radar Sensor - Rear Middle

### Chevrolet

#### Camaro 2022

- Powertrain  
 2.0L LTG Engine Control Module Automatic



Transmission 8 Speed (M5T)  
 2.0L LTG Engine Control Module Automatic  
 Transmission 10 Speed (MI1)  
 2.0L LTG Engine Control Module Automatic  
 Transmission 10 Speed (MI2)  
 2.0L LTG Engine Control Module Automatic  
 Transmission 10 Speed (MI4)  
 2.0L LTG Engine Control Module Manual  
 Transmission 6 Speed (M13)  
 2.0L LTG Engine Control Module Manual  
 Transmission 6 Speed (MJK)  
 2.0L LTG Engine Control Module Manual  
 Transmission 6 Speed (MM6)  
 3.6L LGX Engine Control Module Automatic  
 Transmission  
 3.6L LGX Engine Control Module Manual  
 Transmission  
 6.2L LT1 Engine Control Module Automatic  
 Transmission 8 Speed (M5T)  
 6.2L LT1 Engine Control Module Automatic  
 Transmission 10 Speed (MI1)  
 6.2L LT1 Engine Control Module Automatic  
 Transmission 10 Speed (MI2)  
 6.2L LT1 Engine Control Module Automatic  
 Transmission 10 Speed (MI4)  
 6.2L LT1 Engine Control Module Manual Transmission  
 6 Speed (M13)  
 6.2L LT1 Engine Control Module Manual Transmission  
 6 Speed (MJK)  
 6.2L LT1 Engine Control Module Manual Transmission  
 6 Speed (MM6)  
 6.2L LT4 Engine Control Module Automatic  
 Transmission  
 6.2L LT4 Engine Control Module Manual Transmission  
 6 Speed (M13)  
 6.2L LT4 Engine Control Module Manual Transmission  
 6 Speed (MJK)  
 6.2L LT4 Engine Control Module Manual Transmission  
 6 Speed (MM6)  
 Transmission Control Module 8 Speed  
 Transmission Control Module 10 Speed  
 Chassis Control Module  
 Rear Differential Clutch Control Module

- Chassis  
 Electronic Brake Control Module  
 Parking Brake Control Module  
 Power Steering Control Module  
 Steering Wheel Angle Sensor Module  
 Suspension Control Module

- Body  
 Body Control Module Headlamp Type Halogen (T4A TT4)  
 Body Control Module Headlamp Type High Intensity

Discharge (T4F TT2 TT6 TT7 TT8)  
 Body Control Module Headlamp Type Light Emitting Diode (T4L)  
 Serial Data Gateway Module  
 Inflatable Restraint Sensing and Diagnostic Module  
 Passenger Presence Module  
 Instrument Cluster Head-Up Display Type Not Equipped  
 Instrument Cluster Head-Up Display (UV6)  
 Radio Controls  
 HVAC Controls  
 Vehicle Performance Data Recorder  
 Headlamp Control Module  
 Radio (IOR)  
 Radio (IOS)  
 Radio (IOT)  
 Amplifier  
 Telematics Communication Interface Control Module  
 HVAC Control Module  
 Seat Memory Control Module - Driver  
 Folding Top Control Module  
 Keyless Entry Control Module  
 Side Obstacle Detection Control Module - Left  
 Side Obstacle Detection Control Module - Right  
 Parking Assist Control Module  
 Frontview Camera - Windshield  
 Steering Column Lock Control Module

### Cobalt 2022

- Powertrain  
 1.5L L2C Engine Control Module Automatic  
 Transmission  
 1.5L L2C Engine Control Module Manual  
 Transmission  
 Transmission Control Module

- Chassis  
 Electronic Brake Control Module  
 Power Steering Control Module  
 Steering Wheel Angle Sensor Module

- Body  
 Body Control Module  
 Serial Data Gateway Module  
 Inflatable Restraint Sensing and Diagnostic Module  
 Instrument Cluster  
 Radio  
 Telematics Communication Interface Control Module  
 HVAC Control Module  
 Front Seat Heating Control Module

### Colorado 1GB 2022

- Powertrain  
 2.5L LCV Engine Control Module Automatic  
 Transmission 6 Speed (MYB)

2.5L LCV Engine Control Module Automatic  
Transmission 8 Speed (M5T)  
2.5L LCV Engine Control Module Manual  
Transmission 6 Speed (MA2)  
2.5L LCV Engine Control Module Manual  
Transmission 6 Speed (N8D)  
2.5L LKH Engine Control Module Automatic  
Transmission  
2.5L LKH Engine Control Module Manual  
Transmission  
2.5L LP2 Engine Control Module Automatic  
Transmission  
2.5L LP2 Engine Control Module Manual  
Transmission  
2.8L LWN Engine Control Module  
3.6L LGZ Engine Control Module  
Transmission Control Module 6 Speed (MYB)  
Transmission Control Module 8 Speed (M5T)  
Chassis Control Module - Auxiliary  
Transfer Case Control Module

- Chassis  
Electronic Brake Control Module  
Power Steering Control Module

- Body  
Body Control Module  
Serial Data Gateway Module - Processor 1  
Serial Data Gateway Module - Processor 2  
Inflatable Restraint Sensing and Diagnostic Module  
Passenger Presence Module  
Instrument Cluster  
HVAC Controls  
Radio (IOR)  
Radio (IOS)  
Radio (IOU)  
Amplifier  
Telematics Communication Interface Control Module  
HVAC Control Module  
Parking Assist Control Module  
Frontview Camera – Windshield

### Colorado 1GC 2022

- Powertrain  
2.5L LCV Engine Control Module Automatic  
Transmission 6 Speed (MYB)  
2.5L LCV Engine Control Module Automatic  
Transmission 8 Speed (M5T)  
2.5L LCV Engine Control Module Manual  
Transmission 6 Speed (MA2)  
2.5L LCV Engine Control Module Manual  
Transmission 6 Speed (N8D)  
2.5L LKH Engine Control Module Automatic  
Transmission  
2.5L LKH Engine Control Module Manual

Transmission  
2.5L LP2 Engine Control Module Automatic  
Transmission  
2.5L LP2 Engine Control Module Manual  
Transmission  
2.8L LWN Engine Control Module  
3.6L LGZ Engine Control Module  
Transmission Control Module 6 Speed (MYB)  
Transmission Control Module 8 Speed (M5T)  
Chassis Control Module - Auxiliary  
Transfer Case Control Module

- Chassis  
Electronic Brake Control Module  
Power Steering Control Module

- Body  
Body Control Module  
Serial Data Gateway Module - Processor 1  
Serial Data Gateway Module - Processor 2  
Inflatable Restraint Sensing and Diagnostic Module  
Passenger Presence Module  
Instrument Cluster  
HVAC Controls  
Radio (IOR)  
Radio (IOS)  
Radio (IOU)  
Amplifier  
Telematics Communication Interface Control Module  
HVAC Control Module  
Parking Assist Control Module  
Frontview Camera - Windshield

### Colorado MMM 2022

- Powertrain  
2.5L LKH Engine Control Module Automatic  
Transmission  
2.5L LKH Engine Control Module Manual  
Transmission  
2.5L LP2 Engine Control Module Automatic  
Transmission  
2.5L LP2 Engine Control Module Manual  
Transmission  
2.8L LWN Engine Control Module Automatic  
Transmission  
2.8L LWN Engine Control Module Manual  
Transmission  
Transmission Control Module  
Transfer Case Control Module

- Chassis  
Electronic Brake Control Module  
Power Steering Control Module  
Steering Wheel Angle Sensor Module

- Body
  - Body Control Module
  - Serial Data Gateway Module
  - Inflatable Restraint Sensing and Diagnostic Module
  - Passenger Presence Module
  - Instrument Cluster
  - HVAC Controls
  - Trailer Lighting Control Module
  - Radio (IOR)
  - Radio (IOS)
  - Radio (IP1)
  - Amplifier
  - Telematics Communication Interface Control Module
  - HVAC Control Module
  - Side Obstacle Detection Control Module - Left
  - Side Obstacle Detection Control Module - Right
  - Parking Assist Control Module
  - Frontview Camera - Windshield

### **Cruze 2022**

- Powertrain
  - 1.4L LEX Engine Control Module Automatic Transmission
  - 1.4L LEX Engine Control Module Manual Transmission
  - 1.4L LE2 Engine Control Module Automatic Transmission 6 Speed (MSB)
  - 1.4L LE2 Engine Control Module Automatic Transmission 6 Speed (MQK)
  - 1.4L LE2 Engine Control Module Manual Transmission
  - Transmission Control Module

- Chassis
  - Electronic Brake Control Module
  - Power Steering Control Module

- Body
  - Body Control Module Hatchback
  - Body Control Module Sedan
  - Serial Data Gateway Module - Processor 1
  - Serial Data Gateway Module - Processor 2
  - Inflatable Restraint Sensing and Diagnostic Module
  - Instrument Cluster Enhanced Driver Information Center (UDD)
  - Instrument Cluster Enhanced Monochrome Driver Information Center (UDC)
  - HVAC Controls
  - Radio
  - Telematics Communication Interface Control Module
  - HVAC Control Module
  - Keyless Entry Control Module
  - Parking Assist Control Module (Side Object Detection Indicator Not Equipped)
  - Parking Assist Control Module (Side Object Detection

- Indicator UDQ)
- Frontview Camera - Windshield
- Steering Column Lock Control Module

### **Equinox 2022**

- Powertrain
  - 1.5L LYT Engine Control Module Automatic Transmission Continuously Variable (MRG)
  - 1.5L LYT Engine Control Module Automatic Transmission 6 Speed (MNH)
  - 1.5L LYT Engine Control Module Automatic Transmission 6 Speed (MNK)
  - 1.5L LYT Engine Control Module Automatic Transmission 9 Speed (M3D)
  - 1.5L LYT Engine Control Module Automatic Transmission 9 Speed (M3U)
  - 1.5L LYX Engine Control Module Automatic Transmission Continuously Variable (MRG)
  - 1.5L LYX Engine Control Module Automatic Transmission 6 Speed (MNH)
  - 1.5L LYX Engine Control Module Automatic Transmission 6 Speed (MNK)
  - 1.5L LYX Engine Control Module Automatic Transmission 9 Speed (M3D)
  - 1.5L LYX Engine Control Module Automatic Transmission 9 Speed (M3U)
  - 2.0L LXH Engine Control Module
  - 2.0L LXH Drive Motor Control Module
  - Transmission Control Module Continuously Variable (MRG)
  - Transmission Control Module 6 Speed
  - Transmission Control Module 9 Speed
  - Rear Drive Control Module

- Chassis
  - Electronic Brake Control Module
  - Brake System Control Module
  - Power Steering Control Module

- Body
  - Body Control Module Headlamp Type Halogen (T4A TT4)
  - Body Control Module Headlamp Type High Intensity Discharge (T4F TT2 TT6 TT7 TT8)
  - Body Control Module Headlamp Type Light Emitting Diode (T4L)
  - Serial Data Gateway Module - Processor 1
  - Serial Data Gateway Module - Processor 2
  - Inflatable Restraint Sensing and Diagnostic Module
  - Passenger Presence Module
  - Instrument Cluster Enhanced Driver Info Center (UDD)
  - Instrument Cluster Enhanced Monochrome Driver Info Center (UDC)
  - Radio Controls
  - HVAC Controls



Video Processing Control Module  
 Headlamp Control Module  
 Radio (IOI)  
 Radio (IOR)  
 Radio (IOS)  
 Radio (IOU)  
 Amplifier  
 Telematics Communication Interface Control Module  
 Version 11 (4 Connectors)  
 Telematics Communication Interface Control Module  
 Version 11 (5 Connectors)  
 HVAC Control Module  
 Liftgate Control Module  
 Seat Memory Control Module - Driver  
 Keyless Entry Control Module  
 Side Obstacle Detection Control Module - Left  
 Parking Assist Control Module  
 Frontview Camera - Windshield  
 Steering Column Lock Control Module  
 Battery Energy Control Module

### Express 2022

#### - Powertrain

2.8L LWN Engine Control Module  
 4.3L LV1 Engine Control Module  
 6.6L L8T Engine Control Module  
 Transmission Control Module 6 Speed  
 Transmission Control Module 8 Speed  
 Chassis Control Module

#### - Chassis

Electronic Brake Control Module  
 Multi-Axis Acceleration Sensor Module  
 Steering Wheel Angle Sensor Module

#### - Body

Body Control Module  
 Inflatable Restraint Sensing and Diagnostic Module  
 Instrument Cluster  
 Radio  
 Telematics Communication Interface Control Module  
 Version 10  
 Telematics Communication Interface Control Module  
 Version 11  
 Remote Control Door Lock Receiver  
 Parking Assist Control Module  
 Frontview Camera - Windshield  
 Theft Deterrent Module

### Malibu 2022

#### - Powertrain

1.3L L3T Engine Control Module  
 1.5L LFBV Engine Control Module Transmission Type  
 Continuously Variable (MRG)  
 1.5L LFBV Engine Control Module Transmission Type 6

#### Speed (MNH)

1.5L LFBV Engine Control Module Transmission Type 6  
 Speed (MNM)  
 1.5L LFBV Engine Control Module Transmission Type 9  
 Speed (M3D)  
 1.5L LFBV Engine Control Module Transmission Type 9  
 Speed (M3E)  
 2.0L LTG Engine Control Module Transmission Type  
 Continuously Variable (MRG)  
 2.0L LTG Engine Control Module Transmission Type 6  
 Speed (MNH)  
 2.0L LTG Engine Control Module Transmission Type 6  
 Speed (MNM)  
 2.0L LTG Engine Control Module Transmission Type 9  
 Speed (M3D)  
 2.0L LTG Engine Control Module Transmission Type 9  
 Speed (M3E)  
 Transmission Control Module Continuously Variable  
 (MRG)  
 Transmission Control Module 6 Speed (MNH)  
 Transmission Control Module 6 Speed (MNM)  
 Transmission Control Module 9 Speed (M3D)

#### - Chassis

Electronic Brake Control Module  
 Brake System Control Module  
 Power Steering Control Module

#### - Body

Body Control Module Headlamp Type Halogen (T4A  
 TT4)  
 Body Control Module Headlamp Type Light Emitting  
 Diode (T4L)  
 Serial Data Gateway Module - Processor 1  
 Serial Data Gateway Module - Processor 2  
 Pedestrian Alert Sound Control Module  
 Inflatable Restraint Sensing and Diagnostic Module  
 Passenger Presence Module  
 Instrument Cluster Enhanced Monochrome Driver Info  
 Center (UDC)  
 Instrument Cluster Enhanced Multi-Color Driver  
 Information Center (UHS)  
 Radio Controls  
 HVAC Controls  
 Active Safety Control Module  
 Headlamp Control Module  
 Radio (IOR)  
 Radio (IOS)  
 Radio (IOU)  
 Amplifier  
 Telematics Communication Interface Control Module  
 HVAC Control Module  
 Seat Memory Control Module - Driver  
 Keyless Entry Control Module  
 Side Obstacle Detection Control Module - Left

Side Obstacle Detection Control Module - Right  
 Parking Assist Control Module with Semi Automatic  
 Steering (UFQ)  
 Parking Assist Control Module with Rear Sensors  
 (UD7)  
 Parking Assist Control Module with Front and Rear  
 Sensors (UD5)  
 Frontview Camera - Windshield  
 Steering Column Lock Control Module  
 Forward Range Radar Sensor - Long Range

### Max 2022

- Powertrain  
 1.2L LAQ Engine Control Module  
 1.5L L3C Engine Control Module

- Chassis  
 Electronic Brake Control Module

- Body  
 Inflatable Restraint Sensing and Diagnostic Module

### Move 2022

- Powertrain  
 1.2L LAQ Engine Control Module  
 1.5L L3C Engine Control Module

- Chassis  
 Electronic Brake Control Module

- Body  
 Inflatable Restraint Sensing and Diagnostic Module

### GMC

#### Acadia 2022

- Powertrain  
 2.0L LSY Engine Control Module Exhaust Emission  
 Not Equipped  
 2.0L LSY Engine Control Module Exhaust Emission  
 China (NF5)  
 2.5L LCV Engine Control Module Transmission Type 9  
 Speed (M3G)  
 2.5L LCV Engine Control Module Transmission Type 9  
 Speed (M3H)  
 2.5L LCV Engine Control Module Transmission Type 9  
 Speed (M3W)  
 3.6L LGX Engine Control Module  
 Transmission Control Module  
 Rear Drive Control Module

- Chassis  
 Electronic Brake Control Module  
 Brake System Control Module  
 Power Steering Control Module  
 Suspension Control Module

- Body  
 Body Control Module Halogen (T4A TT4)  
 Body Control Module High Intensity Discharge (T4F  
 TT2 TT6 TT7 TT8)  
 Serial Data Gateway Module - Processor 1  
 Serial Data Gateway Module - Processor 2  
 Inflatable Restraint Sensing and Diagnostic Module  
 Passenger Presence Module  
 Instrument Cluster Radio Type (IOR)  
 Instrument Cluster Radio Type (IOU)  
 HVAC Controls  
 Active Safety Control Module  
 Video Processing Control Module  
 Radio (IOR)  
 Radio (IOU)  
 Amplifier  
 Telematics Communication Interface Control Module  
 HVAC Control Module  
 Liftgate Control Module  
 Seat Memory Control Module - Driver  
 Keyless Entry Control Module  
 Parking Assist Control Module  
 Frontview Camera - Windshield  
 Steering Column Lock Control Module  
 Forward Range Radar Sensor - Long Range

### Canyon 2022

- Powertrain  
 2.5L LCV Engine Control Module Automatic  
 Transmission 6 Speed (MYB)  
 2.5L LCV Engine Control Module Automatic  
 Transmission 8 Speed (M5T)  
 2.5L LCV Engine Control Module Manual  
 Transmission 6 Speed (N8D)  
 2.8L LWN Engine Control Module  
 3.6L LGZ Engine Control Module  
 Transmission Control Module 6 Speed (MYB)  
 Transmission Control Module 8 Speed (M5T)  
 Chassis Control Module - Auxiliary  
 Transfer Case Control Module

- Chassis  
 Electronic Brake Control Module  
 Power Steering Control Module

- Body  
 Body Control Module  
 Serial Data Gateway Module - Processor 1  
 Serial Data Gateway Module - Processor 2  
 Inflatable Restraint Sensing and Diagnostic Module  
 Passenger Presence Module  
 Instrument Cluster  
 HVAC Controls  
 Radio (IOR)

Radio (IOS)  
Radio (IOU)  
Amplifier  
Telematics Communication Interface Control Module  
HVAC Control Module  
Parking Assist Control Module  
Frontview Camera - Windshield

### Savana 2022

#### - Powertrain

2.8L LWN Engine Control Module  
4.3L LV1 Engine Control Module  
6.6L L8T Engine Control Module  
Transmission Control Module 6 Speed  
Transmission Control Module 8 Speed  
Chassis Control Module

#### - Chassis

Electronic Brake Control Module  
Multi-Axis Acceleration Sensor Module  
Steering Wheel Angle Sensor Module

#### - Body

Body Control Module  
Inflatable Restraint Sensing and Diagnostic Module  
Instrument Cluster  
Radio  
Telematics Communication Interface Control Module  
Version 10  
Telematics Communication Interface Control Module  
Version 11  
Remote Control Door Lock Receiver  
Parking Assist Control Module  
Frontview Camera - Windshield  
Theft Deterrent Module

### Sierra 8 2022

#### - Powertrain

4.3L LV3 Engine Control Module  
5.3L L82 Engine Control Module  
5.3L L84 Engine Control Module  
6.2L L87 Engine Control Module  
6.6L L5P Engine Control Module  
6.6L L5P Glow Plug Control Module  
6.6L L5P Power Take-Off Control Module  
6.6L L8T Engine Control Module  
Transmission Control Module 6 Speed (MYD)  
Transmission Control Module 10 Speed (MGM)  
Transmission Control Module 10 Speed (MGU)  
Chassis Control Module - Auxiliary  
Transfer Case Control Module  
Trailer Tire Pressure Indicator Module

#### - Chassis

Electronic Brake Control Module

Brake System Control Module  
Power Steering Control Module  
Steering Wheel Angle Sensor Module

#### - Body

Body Control Module Single Rear Wheel (SRW)  
Body Control Module Dual Rear Wheel (DZW)  
Serial Data Gateway Module - Processor 1  
Serial Data Gateway Module - Processor 2  
Inflatable Restraint Sensing and Diagnostic Module  
Passenger Presence Module  
Instrument Cluster Enhanced Driver Information  
Center (UDD)  
Instrument Cluster Enhanced Monochrome Driver Info  
Center (UDC)  
Instrument Cluster Enhanced Multi-Color Driver  
Information Center (UHS)  
HVAC Controls  
Video Processing Control Module  
Trailer Lighting Control Module  
Radio (IOR)  
Radio (IOS)  
Radio (IOT)  
Amplifier  
Telematics Communication Interface Control Module  
HVAC Control Module  
Rear Gate Module  
Seat Memory Control Module - Driver  
Keyless Entry Control Module  
Assist Step Control Module  
Parking Assist Control Module  
Frontview Camera - Windshield  
Steering Column Lock Control Module

### Sierra 9 2022

#### - Powertrain

4.3L LV3 Engine Control Module  
5.3L L82 Engine Control Module  
5.3L L84 Engine Control Module  
6.2L L87 Engine Control Module  
6.6L L5P Engine Control Module  
6.6L L5P Glow Plug Control Module  
6.6L L5P Power Take-Off Control Module  
6.6L L8T Engine Control Module  
Transmission Control Module 6 Speed (MYD)  
Transmission Control Module 10 Speed (MGM)  
Transmission Control Module 10 Speed (MGU)  
Chassis Control Module - Auxiliary  
Transfer Case Control Module  
Trailer Tire Pressure Indicator Module

#### - Chassis

Electronic Brake Control Module  
Brake System Control Module  
Power Steering Control Module

### Steering Wheel Angle Sensor Module

- Body
  - Body Control Module Single Rear Wheel (SRW)
  - Body Control Module Dual Rear Wheel (DZW)
  - Serial Data Gateway Module - Processor 1
  - Serial Data Gateway Module - Processor 2
  - Inflatable Restraint Sensing and Diagnostic Module
  - Passenger Presence Module
  - Instrument Cluster Enhanced Driver Information Center (UDD)
  - Instrument Cluster Enhanced Monochrome Driver Info Center (UDC)
  - Instrument Cluster Enhanced Multi-Color Driver Information Center (UHS)
  - HVAC Controls
  - Video Processing Control Module
  - Trailer Lighting Control Module
  - Radio (IOR)
  - Radio (IOS)
  - Radio (IOT)
  - Amplifier
  - Telematics Communication Interface Control Module
  - HVAC Control Module
  - Rear Gate Module
  - Seat Memory Control Module - Driver
  - Keyless Entry Control Module
  - Assist Step Control Module
  - Parking Assist Control Module
  - Frontview Camera - Windshield
  - Steering Column Lock Control Module

### Terrain 2022

- Powertrain
  - Engine Control Module
  - Transmission Control Module
  - Rear Drive Control Module
- Chassis
  - Electronic Brake Control Module
  - Power Steering Control Module
- Body
  - Body Control Module Headlamp Type Halogen (T4A TT4)
  - Body Control Module Headlamp Type High Intensity Discharge (T4F TT2 TT6 TT7 TT8)
  - Body Control Module Headlamp Type Light Emitting Diode (T4L)
  - Serial Data Gateway Module - Processor 1
  - Serial Data Gateway Module - Processor 2
  - Inflatable Restraint Sensing and Diagnostic Module
  - Passenger Presence Module
  - Instrument Cluster Enhanced Driver Information Center (UDD)

- Instrument Cluster Enhanced Monochrome Driver Info Center (UDC)
- Head-Up Display Module
- HVAC Controls
- Video Processing Control Module
- Headlamp Control Module
- Headlamp High Beam Control Module
- Radio (IOR)
- Radio (IOS)
- Radio (IOU)
- Amplifier
- Telematics Communication Interface Control Module
- HVAC Control Module
- Liftgate Control Module
- Seat Memory Control Module - Driver
- Keyless Entry Control Module
- Side Obstacle Detection Control Module - Left
- Parking Assist Control Module
- Frontview Camera - Windshield
- Steering Column Lock Control Module

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## CHRYSLER/JEEP/DODGE

### Feedback

- AUS : Journey TPMS Sensor Data bug fixed
- USA : Pacifica PCM Actuation test bug fixed
- AUS : Grand cherokee PCM Special Function bug fixed

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## OPEL / VAUXHALL

### New system added

- Astra-K 2019 Inflatable Restraint Sensing and Diagnostic Module
  - Basic Function
    - DTC Analysis
    - Data Analysis
    - Actuation Test
    - ECU Information Display
- Astra-K 2019 Instrument Cluster
  - Basic Function
    - DTC Analysis
    - Data Analysis
    - Actuation Test
    - ECU Information Display

### Astra-K 2019 Radio Controls

- Basic Function
- DTC Analysis
- ECU Information Display

### Astra-K 2019 HVAC Controls

- Basic Function
- DTC Analysis
- ECU Information Display

### Astra-K 2019 Trailer Lighting Control Module

- Basic Function
- DTC Analysis
- Data Analysis
- Actuation Test
- ECU Information Display
- Special Function
- CAN Bus Configuration Learn

### Astra-K 2019 Radio (IO6)

- Basic Function
- DTC Analysis
- Data Analysis
- Actuation Test
- ECU Information Display
- Special Function
- Erase Valet Mode Code

### Astra-K 2019 Radio (IOB)

- Basic Function
- DTC Analysis
- Data Analysis
- Actuation Test
- ECU Information Display

### Astra-K 2019 Radio (IP1)

- Basic Function
- DTC Analysis
- Data Analysis
- Actuation Test
- ECU Information Display
- Special Function
- Erase Valet Mode Code

### Astra-K 2019 Radio Chime (UL5)

- Basic Function
- DTC Analysis
- Actuation Test
- ECU Information Display

### Astra-K 2019 HVAC Control Module\_Auto Control Dual Zone (CJ2)

- Basic Function
- DTC Analysis
- Actuation Test

- ECU Information Display
- Special Function
- CAN Bus Configuration Learn
- HVAC Actuators Learn

### Astra-K 2019 Liftgate Control Module

- Basic Function
- DTC Analysis
- Data Analysis
- Actuation Test
- ECU Information Display
- Special Function
- Hands-Free Liftgate Sensor Control Module Calibration

### Astra-K 2019 Seat Memory Control Module

- Basic Function
- DTC Analysis
- Data Analysis
- Actuation Test
- ECU Information Display

### Astra-K 2019 Keyless Entry Control Module

- Basic Function
- DTC Analysis
- Data Analysis
- Actuation Test
- ECU Information Display
- Astra-K 2019 Parking Assist Control Module\_(UFQ)
- Basic Function
- DTC Analysis
- Data Analysis
- Actuation Test
- ECU Information Display
- Special Function
- CAN Bus Configuration Learn
- Parking Assist Sensor Learn

### Astra-K 2019 Parking Assist Control Module\_(UD7)

- Basic Function
- DTC Analysis
- Data Analysis
- Actuation Test
- ECU Information Display
- Special Function
- CAN Bus Configuration Learn
- Parking Assist Sensor Learn

### Astra-K 2019 Parking Assist Control Module\_(UD5)

- Basic Function
- DTC Analysis
- Data Analysis
- Actuation Test
- ECU Information Display
- Special Function

CAN Bus Configuration Learn  
Parking Assist Sensor Learn

Particulate Filter Reset

Astra-K 2019 Frontview Camera Module (UGN)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - ECU Information Display
- Special Function
  - Frontview Camera Learn
  - Clear Disable History Data

### New Type Added

Corsa-D 2007~2014 Engine A 13

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - ECU Information Display

Astra-K 2019 Frontview Camera Module (UHY)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - ECU Information Display
- Special Function
  - Frontview Camera Learn
  - Clear Disable History Data

Insignia 2014 Engine Control Module 2.0L (LBS)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - ECU Information Display
- Special Function
  - APP Learn
  - Clutch Pedal Position Learn
  - Crankshaft Position Variation Learn
  - DPF Pressure sensor Learn
  - DPF Reset
  - EGR Valve Learn
  - Exhaust Gas Temperature Sensor Learn
  - Flywheel Learn
  - Fuel Rail Pressure sensor or fuel Rail Learn
  - Glow Plug Control Module Reset
  - HO2S Heater Learn
  - MAF Sensor Learn
  - Turbocharger Learned Values Reset

Astra-K 2019 Steering Column Lock Control Module

- Basic Function
  - DTC Analysis
  - Data Analysis
  - ECU Information Display

Astra-K 2019 Power Supply Transformer

- Basic Function
  - DTC Analysis
  - ECU Information Display

Omega-B 1994~2003 Engine Y 26 SE

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - ECU Information Display

Astra-K 2020 Engine Control Module 1.2 (LIH)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - ECU Information Display
- Special Function
  - clutch Pedal Position Learn
  - Crankshaft Position Variation Learn
  - HO2S Heater Learn
  - Gear Position Sensor Learn
  - Ambient Air Temperature Calculation Reset
  - Engine Oil Life Reset
  - Excessive Clutch Slip Data Reset
  - Exhaust Gas Temperature Sensor Reset
  - Fuel Pump Driver Control Module Configuration
  - Fuel Rail Pressure Relief Valve Learned Values Reset
  - Fuel Trim Reset
  - HO2S Heater Resistance Learned Values Reset
  - Intake System learned Values Reset
  - Particulate Filter Pressure Sensor Reset

Vectra-B 1996~2006 Engine Z 18 XEL

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - ECU Information Display

Vectra-C 2003~2008 Engine Cooling

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - ECU Information Display

### Function improvement and bug fixes

- Body Control DTC Analysis improved
  - : Astra-J 2010, Astra-J 2013 Body Control Module



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### HOLDEN

#### New model added

- New Colorado 2017
- New Colorado 2018
- New Colorado 2019
- New Colorado 2020

#### New system added

VE V8 Engine

- Basic Function
  - DTC Analysis
  - DTC Erase Memory
  - Data Analysis
  - Actuation Test
  - ECU Information Display
- Special Function
  - Reset engine oil life
  - Learn crank angle sensing error

VE IPC

- Basic Function
  - DTC Analysis
  - DTC Erase Memory
  - Data Analysis
  - Actuation Test
  - ECU Information Display
- Special Function
  - RESET SERVICE INTERVAL
  - Program Variant Configuration

ASTRA-H UEC

- Basic Function
  - DTC Analysis
  - DTC Erase Memory
  - Data Analysis
  - Actuation Test
  - ECU Information Display
- Special Function
  - Link to immobilizer

#### New function added

VE Commodore V6 Engine

- Special Function
  - Forced Read PIN

VE Commodore SIDI Engine

- Special Function
  - Forced Read PIN

VE Commodore V8 Engine

- Special Function
  - Forced Read PIN

ASTRA-H IPC

- Special Function
  - Reset ECU
  - Link to immobilizer

#### Function improvement and bug fixes

- VZ/VE Engine - Read PIN ID added
- Astra-H CIM Reset/Install ECU function improved
- DTC item added
- Typo modified
- System comm. Stabilized

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### HYUNDAI ZENITH

#### New Model added

**HYUNDAI General**

- 2023 MY 35 models

**HYUNDAI Korea**

- 2023 MY 15 models

**HYUNDAI USA**

- 2023 MY 2 models

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### KIA ZENITH

#### New Model added

**KIA General**

- 2023 MY 17 models

**KIA USA**

- 2023 MY 1 models

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### RENAULT SAMSUNG

#### New software released

### **CLIO IV [2011~2020]**

- Injection
- A.B.S.
- Instrument Panel
- UCH
- Airbag / Pretensioners
- Air Conditioning
- Automatic Gearbox
- Variable P.A.S.
- UPC
- Parking Brake
- Telematic CTRL Unit
- Hands-free Module
- Radio
- Multi Media

### **SM3 [2002~2009]**

- Injection
- Automatic Gearbox
- Airbag / Pretensioners
- A.B.S.

### **SM3 [2009~2018]**

- Injection
- Automatic Gearbox
- A.B.S.
- Variable P.A.S.
- UCH
- Airbag / Pretensioners
- Air Conditioning
- Blind Spot Detection
- Instrument Panel
- UPC
- Sunroof Control Unit
- Parking Assistance
- Driver Door
- Connection Unit
- Radio
- Multi Media
- Amplifier

### **SM3 ZE [2013~2020]**

- A.B.S.
- Variable P.A.S.
- UCH
- Airbag / Pretensioners
- Air Conditioning
- Blind Spot Detection
- Instrument Panel
- UPC
- Sunroof Control Unit
- Parking Assistance
- Driver Door
- Battery Charge Box
- Electric Valve control

- Power Electronics Block
- Connection Unit
- Battery Monitoring System
- Battery Monitoring System Safety
- Radio
- Multi Media

### **SM5 [1998~2005]**

- Injection
- Automatic Gearbox
- A.B.S.
- UCH
- Airbag / Pretensioners
- ESC (Electronic suspension control)

### **SM5 [2005~2010]**

- Injection
- Automatic Gearbox
- A.B.S.
- Power Assisted Steering
- UCH
- Instrument Panel
- UPC
- ADP Control Unit
- Variable PAS
- Airbag / Pretensioners
- AHLS (Auto Head Lamp System)
- ESC (Electronic suspension control)
- Smart Card

### **SM5 [2010~2019]**

- Injection
- Automatic Gearbox
- A.B.S.
- Blind Spot Detection
- Instrument panel
- UCH
- Airbag / Pretensioners
- Air conditioning
- Lighting
- Parking brake
- Left-Hand Door or Passenger Seat
- Right-Hand Door or Collapsible Seat
- UPC
- Parking Assistance
- Driver's door
- Passenger's door
- Seat memory
- Variable PAS

### **SM6 [2015~Present]**

- Injection
- A.B.S.
- Instrument Panel
- UCH



- Airbag / Pretensioners
- Air Conditioning
- Automatic Gearbox
- Parking Brake
- UPC
- Parking Assistance
- Front Camera
- Front Radar

### SM7 [2004~2011]

- Injection
- Automatic Gearbox
- A.B.S.
- EPS
- BCM
- IPDM
- ADP Control Unit
- PAS Control Unit
- Combination Meter
- Airbag / Pretensioners
- AHLS (Auto Head Lamp System)
- Smart Card

### SM7 - L47 [2011~2017]

- Injection
- A.B.S.
- Instrument Panel
- UCH
- Airbag / Pretensioners
- Air conditioning
- Automatic Gearbox
- Parking brake
- Blind Spot Detection
- Variable P.A.S.
- UPC
- Lighting
- Parking Assistance
- Driver's door
- Passenger's door
- Driver's seat
- Left-Hand Door or Passenger Seat
- Right-Hand Door or Collapsible Seat
- Connection Unit
- Radio
- Multi Media
- Amplifier
- Multi Media Connection

### QM3 [2013~2018]

- Injection
- A.B.S.
- Instrument Panel
- UCH
- Airbag / Pretensioners
- Air Conditioning

- Automatic Gearbox
- Variable P.A.S.
- UPC
- Parking Brake
- Telematic CTRL Unit
- Hands-free Module
- Radio
- Multi Media

### QM5 [2007~2017]

- Injection
- Automatic Gearbox
- A.B.S.
- Variable P.A.S.
- UCH
- Airbag / Pretensioners
- Instrument Panel
- UPC
- Tyres
- Parking Assistance
- Parking Brake
- 4 Wheel Drive
- Radio

### QM6 [2016~Present]

- Injection
- A.B.S.
- Instrument Panel
- UCH
- Airbag / Pretensioners
- Air Conditioning
- Automatic Gearbox
- Parking Brake
- Parking Assistance
- Front Camera
- Front Radar
- Variable P.A.S.
- UREA DOSING
- UPC
- Radio
- Telematic Control Unit
- Multi Media

### XM3 [2020~Present]

- Injection
- A.B.S.
- Instrument Panel
- UCH
- Airbag / Pretensioners
- Front Radar
- Air Conditioning
- Automatic Gearbox
- Connections Unit
- Parking brake
- Supervisor or DCDC

- Power Assisted Steering
- UPC
- Check Chassis
- Central Gateway
- Parking Prox Can
- Telephone Induction charger
- Driving Assistance Supervisor
- Brake Booster
- High Voltage Starting Generator
- Electric Traction Motor
- Driver's Seat
- Front Camera
- Left Rear Side Radar
- Radio
- Telematic Control Unit
- Right Rear Side Radar
- (Left Hand Door Or) Passenger's Seat
- BMS 12V
- BSG
- Multimedia Interface
- Amplifier
- EVC
- Bms Safety
- Hands Free Module

### MASTER [2010~Present]

- Injection
- A.B.S.
- Automatic Gearbox
- Instrument Panel
- UCH
- Airbag / Pretensioners
- Air Conditioning
- UPC

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## SSANGYONG

### New Model added

#### TORRES

ECM(Engine Control Module) - G15DTF

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - System Identification
- Special Function
  - EMS Registration
  - ECU Replacement
  - ECU Variant Set
  - Read Variant Coding
  - Write Variant Coding
  - Parameter Coding (default)

- VIN Write
- ECU Initialization
- GPF Replacement

TCM(Transmission Control Module)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - System Identification
- Special Function
  - N' Position Learn
  - TCU RESET

CGW(CAN Gateway)

- Basic Function
  - DTC Analysis
  - System Identification
- Special Function
  - CGW Variant Coding

ESC(Electronic Stability Control)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - System Identification
- Special Function
  - G-Sensor Initialization
  - Coding Initialization
  - Brake pad exchange
  - Air Bleeding
  - TC valve air bleeding
  - Pressure sensor calibration

EPS(Electric Power Steering)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - System Identification
- Special Function
  - Auto Variant Coding
  - Manual Variant Coding
  - Steering Sensor Reset

FCM(Front Camera Module)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - System Identification
- Special Function
  - FCM Variant Coding
  - FCM Calibration Value
  - FCM Calibration

### FRM(Front Radar Module)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - System Identification
- Special Function
  - FRM Variant Coding

### BCM(Body Control Module)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - System Identification
- Special Function
  - BCM Variant Coding
  - REKES Key Coding
  - Transponder Registration
  - TPMS Sensor Value
  - TPMS wheel module ID Coding
  - TPMS Variant Coding

### SKM(Smart Key Module)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - System Identification
- Special Function
  - LF ANT Check
  - Smart Key Registration
  - SKM Variant Coding
  - ESCL Coding
  - ESCL Registration

### BSD(Blind Spot Detection)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - System Identification
- Special Function
  - BSD exchange initialization

### PTG(Power Tail Gate)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - System Identification

### E-Coupling(AWD)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - System Identification

### AIRBAG

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - System Identification
- Special Function
  - AIRBAG ECU Exchange
  - AIRBAG Variant Coding

### AUTO AMP(HVAC)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - System Identification

### WPC(Wireless Power Control)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - System Identification

### **New System added**

#### **KORANDO e-MOTION**

#### VCU(Vehicle Control Unit)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - System Identification
- Special Function
  - VCU Registration
  - VIN Write
  - VCU Variant Coding

#### MCU(Motor Control Unit)

- Basic Function
  - DTC Analysis
  - System Identification

#### BMS(Battery Manager System))

- Basic Function
  - DTC Analysis
  - Data Analysis
  - System Identification

#### LDC(Low DC-DC Convertor)

- Basic Function
  - DTC Analysis
  - System Identification

#### OBC(Onboard Charger)

- Basic Function
  - DTC Analysis
  - Data Analysis



System Identification  
 - Special Function  
 LF ANT Check  
 Smart Key Registration  
 ESCL Registration

SKM(Smart Key Module) - Camtronics

- Basic Function  
 DTC Analysis  
 Data Analysis  
 System Identification  
 - Special Function  
 LF ANT Check  
 Smart Key Registration  
 SKM Variant Coding  
 ESCL Coding  
 ESCL Registration

WPC(Wireless Power Control)

- Basic Function  
 DTC Analysis  
 Data Analysis  
 System Identification

PTGM(Power Tail Gate Unit)

- Basic Function  
 DTC Analysis  
 Data Analysis  
 System Identification

EHVC(Electric HVAC)

- Basic Function  
 DTC Analysis  
 Data Analysis  
 System Identification

DATC(FATC)

- Basic Function  
 DTC Analysis  
 Data Analysis  
 System Identification

VESS(Virtual Engine Sound System)

- Basic Function  
 DTC Analysis  
 Data Analysis  
 System Identification

ECALL(Emergency Call)

- Basic Function  
 DTC Analysis  
 System Identification

**KORANDO II(BEAUTIFUL)**

ECM(Engine Control Module) - D16DTF

- Basic Function  
 DTC Analysis  
 Data Analysis  
 Actuation Test  
 System Identification

- Special Function

EMS Registration  
 ECU Replace  
 Engine Variant Coding  
 Injector Coding  
 Hydraulic static test  
 IMV Dynamic Test  
 Rail pressure control(Dynamic test)  
 Injector tip leak test  
 Injector correction  
 Injector correction (Driving)  
 CDPF Regeneration(Idle)  
 CDPF Regeneration(Driving)  
 LNT desulfurization  
 Pressure sensor replacement  
 PM sensor regeneration(Idle)  
 LNT+DPF Replacement  
 Front wide band oxygen sensor learning reset  
 Rear wide band oxygen sensor learning reset  
 Front wide band oxygen sensor cleaning  
 Rear wide band oxygen sensor cleaning  
 SCR exchange initialization  
 SCR force start  
 VIN Write  
 EGR Initial Learn  
 Throttle Initial Learn  
 RPC Reset  
 Air Flow Sensor(HFM) Reset  
 Cam/Crank Sensor Reset  
 Main Relay Reset  
 Stater operation count storage value initialization  
 ISG Test

ECM(Engine Control Module)- D16DTF-LPEGR

- Basic Function  
 DTC Analysis  
 Data Analysis  
 Actuation Test  
 System Identification

- Special Function

EMS Registration  
 ECU Replace  
 Engine Variant Coding  
 Injector Coding  
 Hydraulic static test  
 IMV Dynamic Test  
 Rail pressure control(Dynamic test)  
 Injector tip leak test  
 Injector correction  
 Injector correction (Driving)

CDPF Regeneration(Idle)  
 CDPF Regeneration(Driving)  
 LNT desulfurization  
 Pressure sensor replacement  
 PM sensor regeneration(Idle)  
 LNT+DPF Replacement  
 Front wide band oxygen sensor learning reset  
 Rear wide band oxygen sensor learning reset  
 Front wide band oxygen sensor cleaning  
 Rear wide band oxygen sensor cleaning  
 SCR exchange initialization  
 SCR force start  
 Nox sensor exchange initialization  
 HP EGR Learning Reset  
 HP EGR initial learning  
 LP EGR Learning Reset  
 LP EGR initial learning  
 VIN Write  
 Throttle Initial Learn  
 RPC Reset  
 Air Flow Sensor(HFM) Reset  
 Cam/Crank Sensor Reset  
 Main Relay Reset  
 Stater operation count storage value initialization  
 ISG Test

### ECM(Engine Control Module) - G15DTF(2019)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - System Identification
- Special Function
  - EMS Registration
  - ECU Replacement
  - ECU Variant Set
  - Read Variant Coding
  - Write Variant Coding
  - Parameter Coding (default)
  - VIN Write
  - ECU Initialization
  - GPF Replacement

### ECM(Engine Control Module) - G15DTF(2020~)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - System Identification
- Special Function
  - EMS Registration
  - ECU Replacement
  - ECU Variant Set
  - Read Variant Coding
  - Write Variant Coding

- Parameter Coding (default)
- VIN Write
- ECU Initialization
- GPF Replacement

### ECM(Engine Control Module) – G20DF

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - System Identification
- Special Function
  - Engine Variant Coding
  - VIN Write
  - Parameter Coding (default)
  - ECU Replace

### TCM(Transmission Control Module)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - System Identification
- Special Function
  - N' Position Learn
  - TCU RESET

### CGW(CAN Gateway)

- Basic Function
  - DTC Analysis
  - System Identification
- Special Function
  - CGW Variant Coding

### ESC(Electronic Stability Control)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - System Identification
- Special Function
  - G-Sensor Initialization
  - Coding Initialization
  - Brake pad exchange
  - Air Bleeding
  - TC valve air bleeding
  - Pressure sensor calibration

### EPS(Electric Power Steering)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - System Identification
- Special Function
  - EPS Variant Coding

Steering Reset

FCM(Front Camera Module)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - System Identification
- Special Function
  - FCM Variant Coding
  - FCM Calibration Value
  - FCM Calibration

FRM(Front Radar Module)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - System Identification
- Special Function
  - FRM Variant Coding

BCM(Body Control Module) - Mototec

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - System Identification
- Special Function
  - BCM Variant Coding
  - REKES Key Coding
  - Transponder Registration
  - TPMS Sensor Value
  - TPMS wheel module ID Coding
  - TPMS Variant Coding

BCM(Body Control Module) - Camtronics

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - System Identification
- Special Function
  - BCM Variant Coding
  - REKES Key Coding
  - Transponder Registration
  - TPMS Sensor Value
  - TPMS wheel module ID Coding
  - TPMS Variant Coding

SKM(Smart Key Module) - Mototec

- Basic Function
  - DTC Analysis
  - Data Analysis
  - System Identification
- Special Function
  - LF ANT Check

Smart Key Registration  
ESCL Registration

SKM(Smart Key Module) - Camtronics

- Basic Function
  - DTC Analysis
  - Data Analysis
  - System Identification
- Special Function
  - LF ANT Check
  - Smart Key Registration
  - SKM Variant Coding
  - ESCL Coding
  - ESCL Registration

BSD(Blind Spot Detection)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - System Identification
- Special Function
  - BSD exchange initialization

PTG(Power Tail Gate)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - System Identification

E-Coupling(AWD)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - System Identification

AIRBAG

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - System Identification
- Special Function
  - AIRBAG ECU Exchange
  - AIRBAG Variant Coding

GCU(Glowplug Control Unit)

- Basic Function
  - System Identification
- Special Function
  - Glowplug Learning
  - Glowplug Target Temperature
  - Glowplug Coding - Target Temperature

DCU(Dosing Control Unit)

- Basic Function



DTC Analysis  
Data Analysis  
Actuation Test  
System Identification  
- Special Function  
Urea Initial Injection  
Urea system inspection

ECALL(Emergency Call)  
- Basic Function  
DTC Analysis  
System Identification

WPC(Wireless Power Control)  
- Basic Function  
DTC Analysis  
Data Analysis  
System Identification

FATC  
- Basic Function  
DTC Analysis  
System Identification

### **TIVOLI(VERY NEW)**

ECM(Engine Control Module) - D16DTF  
- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test  
System Identification  
- Special Function  
EMS Registration  
ECU Replace  
Engine Variant Coding  
Injector Coding  
Hydraulic static test  
IMV Dynamic Test  
Rail pressure control(Dynamic test)  
Injector tip leak test  
Injector correction  
Injector correction (Driving)  
CDPF Regeneration(Idle)  
CDPF Regeneration(Driving)  
LNT desulfurization  
Pressure sensor replacement  
PM sensor regeneration(Idle)  
LNT+DPF Replacement  
Front wide band oxygen sensor learning reset  
Rear wide band oxygen sensor learning reset  
Front wide band oxygen sensor cleaning  
Rear wide band oxygen sensor cleaning  
SCR exchange initialization  
SCR force start  
VIN Write

EGR Initial Learn  
Throttle Initial Learn  
RPC Reset  
Air Flow Sensor(HFM) Reset  
Cam/Crank Sensor Reset  
Main Relay Reset  
Stater operation count storage value initialization  
ISG Test

ECM(Engine Control Module) - G15DTF(2019)  
- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test  
System Identification  
- Special Function  
EMS Registration  
ECU Replacement  
ECU Variant Set  
Read Variant Coding  
Write Variant Coding  
Parameter Coding (default)  
VIN Write  
ECU Initialization  
GPF Replacement

ECM(Engine Control Module) - G15DTF(2020~)  
- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test  
System Identification  
- Special Function  
EMS Registration  
ECU Replacement  
ECU Variant Set  
Read Variant Coding  
Write Variant Coding  
Parameter Coding (default)  
VIN Write  
ECU Initialization  
GPF Replacement

ECM(Engine Control Module) - G12DTF  
- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test  
System Identification  
- Special Function  
EMS Registration  
ECU Replacement  
ECU Variant Set  
Read Variant Coding  
Write Variant Coding



Parameter Coding (default)	FCM(Front Camera Module)-FCM2.0
VIN Write	- Basic Function
ECU Initialization	DTC Analysis
GPF Replacement	Data Analysis
.	System Identification
TCM(Transmission Control Module)	- Special Function
- Basic Function	FCM Variant Coding
DTC Analysis	FCM Calibration Value
Data Analysis	FCM Calibration
Actuation Test	
System Identification	BCM(Body Control Module) - Mototec
- Special Function	- Basic Function
N' Position Learn	DTC Analysis
TCU RESET	Data Analysis
	Actuation Test
	System Identification
CGW(CAN Gateway)	- Special Function
- Basic Function	BCM Variant Coding
DTC Analysis	REKES Key Coding
System Identification	Transponder Registration
- Special Function	TPMS Sensor Value
CGW Variant Coding	TPMS wheel module ID Coding
	TPMS Variant Coding
ESC(Electronic Stability Control)	
- Basic Function	BCM(Body Control Module) - Camtronics
DTC Analysis	- Basic Function
Data Analysis	DTC Analysis
Actuation Test	Data Analysis
System Identification	Actuation Test
- Special Function	System Identification
G-Sensor Initialization	- Special Function
Coding Initialization	BCM Variant Coding
Brake pad exchange	REKES Key Coding
Air Bleeding	Transponder Registration
TC valve air bleeding	TPMS Sensor Value
Pressure sensor calibration	TPMS wheel module ID Coding
	TPMS Variant Coding
EPS(Electric Power Steering)	
- Basic Function	SKM(Smart Key Module) - Mototec
DTC Analysis	- Basic Function
Data Analysis	DTC Analysis
System Identification	Data Analysis
- Special Function	System Identification
EPS Variant Coding	- Special Function
Steering Reset	LF ANT Check
	Smart Key Registration
FCM(Front Camera Module)-FCM3.0	ESCL Registration
- Basic Function	
DTC Analysis	SKM(Smart Key Module) - Camtronics
Data Analysis	- Basic Function
System Identification	DTC Analysis
- Special Function	Data Analysis
FCM Variant Coding	System Identification
FCM Calibration Value	- Special Function
FCM Calibration	LF ANT Check

Smart Key Registration  
SKM Variant Coding  
ESCL Coding  
ESCL Registration

BSD(Blind Spot Detection)  
- Basic Function  
DTC Analysis  
Data Analysis  
System Identification  
- Special Function  
BSD exchange initialization

E-Coupling(AWD)  
- Basic Function  
DTC Analysis  
Data Analysis  
System Identification

AIRBAG  
- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test  
System Identification  
- Special Function  
AIRBAG ECU Exchange  
AIRBAG Variant Coding

GCU(Glowplug Control Unit)  
- Basic Function  
System Identification  
- Special Function  
Glowplug Learning  
Glowplug Target Temperature  
Glowplug Coding - Target Temperature

DCU(Dosing Control Unit)  
- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test  
System Identification  
- Special Function  
Urea Initial Injection  
Urea system inspection

ECALL(Emergency Call)  
- Basic Function  
DTC Analysis  
System Identification

WPC(Wireless Power Control)  
- Basic Function  
DTC Analysis

Data Analysis  
System Identification

### REXTON(ALL NEW)

ECM(Engine Control Module)- D22DTR

- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test  
System Identification  
- Special Function  
EMS Registration  
ECU Replace  
Engine Variant Coding  
Injector Coding  
Hydraulic static test  
IMV Dynamic Test  
Rail pressure control(Dynamic test)  
Injector tip leak test  
Injector correction  
Injector correction (Driving)  
CDPF Regeneration(Idle)  
CDPF Regeneration(Driving)  
LNT desulfurization  
Pressure sensor replacement  
PM sensor regeneration(Idle)  
LNT+DPF Replacement  
Front wide band oxygen sensor learning reset  
Rear wide band oxygen sensor learning reset  
Front wide band oxygen sensor cleaning  
Rear wide band oxygen sensor cleaning  
VIN Write  
EGR Initial Learn  
Throttle Initial Learn  
RPC Reset  
Air Flow Sensor(HFM) Reset  
Cam/Crank Sensor Reset  
Main Relay Reset  
ISG Test

ECM(Engine Control Module)- D22TRP

- Basic Function  
DTC Analysis  
Data Analysis  
Actuation Test  
System Identification  
- Special Function  
EMS Registration  
ECU Replace  
Engine Variant Coding  
Injector Coding  
Hydraulic static test  
IMV Dynamic Test  
Rail pressure control(Dynamic test)  
Injector tip leak test

Injector correction	TCU RESET
Injector correction (Driving)	
CDPF Regeneration(Idle)	TCCU(4WD)
CDPF Regeneration(Driving)	- Basic Function
LNT desulfurization	DTC Analysis
Pressure sensor replacement	Data Analysis
PM sensor regeneration(Idle)	System Identification
LNT+DPF Replacement	
Front wide band oxygen sensor learning reset	SBA(Shift by Wire)
Rear wide band oxygen sensor learning reset	- Basic Function
Front wide band oxygen sensor cleaning	DTC Analysis
Rear wide band oxygen sensor cleaning	Data Analysis
SCR exchange initialization	System Identification
SCR force start	
Nox sensor exchange initialization	PRA(Powwer Relay Assembly)
HP EGR Learning Reset	- Basic Function
HP EGR initial learning	DTC Analysis
LP EGR Learning Reset	Actuation Test
LP EGR initial learning	System Identification
VIN Write	
Throttle Initial Learn	ESC(Electronic Stability Control)
RPC Reset	- Basic Function
Air Flow Sensor(HFM) Reset	DTC Analysis
Cam/Crank Sensor Reset	Data Analysis
Swirl Control Valve Initial Learn	Actuation Test
Main Relay Reset	System Identification
Stater operation count storage value initialization	- Special Function
ISG Test	G-Sensor Initialization
	Coding Initialization
ECM(Engine Control Module)- G20DTR	Brake pad exchange
- Basic Function	Air Bleeding
DTC Analysis	TC valve air bleeding
Data Analysis	Pressure sensor calibration
Actuation Test	Variant Coding
System Identification	
	EPS(Electric Power Steering)
TCM(Transmission Control Module)- 8AT	- Basic Function
- Basic Function	DTC Analysis
DTC Analysis	Data Analysis
Data Analysis	System Identification
Actuation Test	- Special Function
System Identification	Manual Variant Coding
- Special Function	
TCU learning value reset	SAS(Streeng Angle)
TCU learning value	- Basic Function
TCU Coding	DTC Analysis
	Data Analysis
	System Identification
TCM(Transmission Control Module)- 6AT	- Special Function
- Basic Function	SAS Calibration
DTC Analysis	
Data Analysis	
Actuation Test	
System Identification	
- Special Function	TPMS(Tire Pressure Monitoring System)
N' Position Learn	- Basic Function
	DTC Analysis
	Data Analysis

System Identification  
 - Special Function  
 TPMS wheel module IDCoding  
 TPMS Variant Coding

### FCM(Front Camera Module)

- Basic Function  
 DTC Analysis  
 Data Analysis  
 System Identification  
 - Special Function  
 FCM Variant Coding  
 FCM Calibration Value  
 FCM Calibration

### FRM(Front Radar Module)

- Basic Function  
 DTC Analysis  
 Data Analysis  
 System Identification  
 - Special Function  
 FRM Variant Coding

### SSPS(Power Steering)

- Basic Function  
 DTC Analysis  
 Data Analysis  
 System Identification

### BCM(Body Control Module) - Mototec

- Basic Function  
 DTC Analysis  
 Data Analysis  
 Actuation Test  
 System Identification  
 - Special Function  
 BCM Variant Coding  
 REKES Key Coding  
 Transponder Registration

### BCM(Body Control Module) - Camtronics

- Basic Function  
 DTC Analysis  
 Data Analysis  
 Actuation Test  
 System Identification  
 - Special Function  
 BCM Variant Coding  
 REKES Key Coding  
 Transponder Registration

### SKM(Smart Key Module) - Mototec

- Basic Function  
 DTC Analysis  
 Data Analysis

System Identification  
 - Special Function  
 LF ANT Check  
 Smart Key Registration  
 ESCL Registration  
 SKM Variant Coding

### SKM(Smart Key Module) - Camtronics

- Basic Function  
 DTC Analysis  
 Data Analysis  
 System Identification  
 - Special Function  
 LF ANT Check  
 Smart Key Registration  
 ESCL Coding  
 ESCL Registration  
 SKM Variant Coding  
 SKM UNIT Coding

### AIRBAG

- Basic Function  
 DTC Analysis  
 Data Analysis  
 Actuation Test  
 System Identification  
 - Special Function  
 AIRBAG ECU Exchange  
 AIRBAG Variant Coding

### CGW(CAN Gateway)

- Basic Function  
 DTC Analysis  
 System Identification  
 - Special Function  
 CGW Variant Coding

### HVAC(Heating Ventilation Air Conditioning)

- Basic Function  
 DTC Analysis  
 Data Analysis  
 System Identification

### GCU(Glowplug Control Unit)

- Basic Function  
 System Identification  
 - Special Function  
 Glowplug Learning  
 Glowplug Target Temperature  
 Glowplug Coding - Target Temperature

### DSM(Driver Seat Module)

- Basic Function  
 DTC Analysis  
 Data Analysis

<ul style="list-style-type: none"> <li>Actuation Test</li> <li>System Identification</li> <li>- Special Function</li> <li>  Seat position learning</li> </ul>	<ul style="list-style-type: none"> <li>ECM(Engine Control Module)- D22DTR</li> <li>- Basic Function</li> <li>  DTC Analysis</li> <li>  Data Analysis</li> <li>  Actuation Test</li> <li>  System Identification</li> <li>- Special Function</li> <li>  EMS Registration</li> <li>  ECU Replace</li> <li>  Engine Variant Coding</li> <li>  Injector Coding</li> <li>  Hydraulic static test</li> <li>  IMV Dynamic Test</li> <li>  Rail pressure control(Dynamic test)</li> <li>  Injector tip leak test</li> <li>  Injector correction</li> <li>  Injector correction (Driving)</li> <li>  CDPF Regeneration(Idle)</li> <li>  CDPF Regeneration(Driving)</li> <li>  LNT desulfurization</li> <li>  Pressure sensor replacement</li> <li>  PM sensor regeneration(Idle)</li> <li>  LNT+DPF Replacement</li> <li>  Front wide band oxygen sensor learning reset</li> <li>  Rear wide band oxygen sensor learning reset</li> <li>  Front wide band oxygen sensor cleaning</li> <li>  Rear wide band oxygen sensor cleaning</li> <li>  VIN Write</li> <li>  EGR Initial Learn</li> <li>  Throttle Initial Learn</li> <li>  RPC Reset</li> <li>  Air Flow Sensor(HFM) Reset</li> <li>  Cam/Crank Sensor Reset</li> <li>  Main Relay Reset</li> <li>  ISG Test</li> </ul>
<ul style="list-style-type: none"> <li>DDM(Driver Door Module)</li> <li>- Basic Function</li> <li>  DTC Analysis</li> <li>  Data Analysis</li> <li>  Actuation Test</li> <li>  System Identification</li> </ul>	
<ul style="list-style-type: none"> <li>PDM(Passenger Door Module)</li> <li>- Basic Function</li> <li>  DTC Analysis</li> <li>  Data Analysis</li> <li>  Actuation Test</li> <li>  System Identification</li> </ul>	
<ul style="list-style-type: none"> <li>PTG(Power Tail Gate)</li> <li>- Basic Function</li> <li>  DTC Analysis</li> <li>  Data Analysis</li> <li>  System Identification</li> </ul>	
<ul style="list-style-type: none"> <li>BSD(Blind Spot Detection)</li> <li>- Basic Function</li> <li>  DTC Analysis</li> <li>  Data Analysis</li> <li>  System Identification</li> <li>- Special Function</li> <li>  BSD exchange initialization</li> </ul>	
<ul style="list-style-type: none"> <li>DCU(Dosing Control Unit)</li> <li>- Basic Function</li> <li>  DTC Analysis</li> <li>  Data Analysis</li> <li>  Actuation Test</li> <li>  System Identification</li> <li>- Special Function</li> <li>  Urea Initial Injection</li> <li>  Urea system inspection</li> </ul>	<ul style="list-style-type: none"> <li>ECM(Engine Control Module)- D22TRP</li> <li>- Basic Function</li> <li>  DTC Analysis</li> <li>  Data Analysis</li> <li>  Actuation Test</li> <li>  System Identification</li> <li>- Special Function</li> <li>  EMS Registration</li> <li>  ECU Replace</li> <li>  Engine Variant Coding</li> <li>  Injector Coding</li> <li>  Hydraulic static test</li> <li>  IMV Dynamic Test</li> <li>  Rail pressure control(Dynamic test)</li> <li>  Injector tip leak test</li> <li>  Injector correction</li> <li>  Injector correction (Driving)</li> <li>  CDPF Regeneration(Idle)</li> <li>  CDPF Regeneration(Driving)</li> </ul>
<ul style="list-style-type: none"> <li>ECALL(Emergency Call)</li> <li>- Basic Function</li> <li>  DTC Analysis</li> <li>  System Identification</li> </ul>	
<ul style="list-style-type: none"> <li>WPC(Wireless Power Control)</li> <li>- Basic Function</li> <li>  DTC Analysis</li> <li>  Data Analysis</li> <li>  System Identification</li> </ul>	
<ul style="list-style-type: none"> <li><b>MUSSO II(REXTON SUT)</b></li> </ul>	

LNT desulfurization  
 Pressure sensor replacement  
 PM sensor regeneration(Idle)  
 LNT+DPF Replacement  
 Front wide band oxygen sensor learning reset  
 Rear wide band oxygen sensor learning reset  
 Front wide band oxygen sensor cleaning  
 Rear wide band oxygen sensor cleaning  
 SCR exchange initialization  
 SCR force start  
 Nox sensor exchange initialization  
 HP EGR Learning Reset  
 HP EGR initial learning  
 LP EGR Learning Reset  
 LP EGR initial learning  
 VIN Write  
 Throttle Initial Learn  
 RPC Reset  
 Air Flow Sensor(HFM) Reset  
 Cam/Crank Sensor Reset  
 Swirl Control Valve Initial Learn  
 Main Relay Reset  
 Stater operation count storage value initialization  
 ISG Test

ECM(Engine Control Module)- G20DTR  
 - Basic Function  
 DTC Analysis  
 Data Analysis  
 Actuation Test  
 System Identification

TCM(Transmission Control Module)- 6AT  
 - Basic Function  
 DTC Analysis  
 Data Analysis  
 Actuation Test  
 System Identification  
 - Special Function  
 N' Position Learn  
 TCU RESET

TCCU(4WD)  
 - Basic Function  
 DTC Analysis  
 Data Analysis  
 System Identification

TGS(Transmission Gear Shift Lever)  
 - Basic Function  
 DTC Analysis  
 Data Analysis  
 Actuation Test  
 System Identification

ESC(Electronic Stability Control)  
 - Basic Function  
 DTC Analysis  
 Data Analysis  
 Actuation Test  
 System Identification  
 - Special Function  
 G-Sensor Initialization  
 Coding Initialization  
 Brake pad exchange  
 Air Bleeding  
 TC valve air bleeding  
 Pressure sensor calibration  
 Variant Coding

EPS(Electric Power Steering)  
 - Basic Function  
 DTC Analysis  
 Data Analysis  
 System Identification  
 - Special Function  
 Manual Variant Coding

SAS(Streeng Angle)  
 - Basic Function  
 DTC Analysis  
 Data Analysis  
 System Identification  
 - Special Function  
 SAS Calibration

TPMS(Tire Pressure Monitoring System)  
 - Basic Function  
 DTC Analysis  
 Data Analysis  
 System Identification  
 - Special Function  
 TPMS wheel module IDCoding  
 TPMS Variant Coding

FCM(Front Camera Module)  
 - Basic Function  
 DTC Analysis  
 Data Analysis  
 System Identification  
 - Special Function  
 FCM Variant Coding  
 FCM Calibration Value  
 FCM Calibration

SSPS(Power Steering)  
 - Basic Function  
 DTC Analysis  
 Data Analysis  
 System Identification

### BCM(Body Control Module) - Mototec

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - System Identification
- Special Function
  - BCM Variant Coding
  - REKES Key Coding
  - Transponder Registration

### BCM(Body Control Module) - Camtronics

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - System Identification
- Special Function
  - BCM Variant Coding
  - REKES Key Coding
  - Transponder Registration

### SKM(Smart Key Module) - Mototec

- Basic Function
  - DTC Analysis
  - Data Analysis
  - System Identification
- Special Function
  - LF ANT Check
  - Smart Key Registration
  - ESCL Registration
  - SKM Variant Coding

### SKM(Smart Key Module) - Camtronics

- Basic Function
  - DTC Analysis
  - Data Analysis
  - System Identification
- Special Function
  - LF ANT Check
  - Smart Key Registration
  - ESCL Coding
  - ESCL Registration
  - SKM Variant Coding
  - SKM UNIT Coding

### AIRBAG

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - System Identification
- Special Function
  - AIRBAG ECU Exchange

### AIRBAG Variant Coding

- ### CGW(CAN Gateway)
- Basic Function
    - DTC Analysis
    - System Identification
  - Special Function
    - CGW Variant Coding

### HVAC(Heating Ventilation Air Conditioning)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - System Identification

### GCU(Glowplug Control Unit)

- Basic Function
  - System Identification
- Special Function
  - Glowplug Learning
  - Glowplug Target Temperature
  - Glowplug Coding - Target Temperature

### BSD(Blind Spot Detection)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - System Identification
- Special Function
  - BSD exchange initialization

### DCU(Dosing Control Unit)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - System Identification
- Special Function
  - Urea Initial Injection
  - Urea system inspection

### REXTON(G4)

#### ECM(Engine Control Module)- D22DTR-SCR

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - System Identification
- Special Function
  - EMS Registration
  - ECU Replace
  - Engine Variant Coding
  - Injector Coding
  - Hydraulic static test
  - IMV Dynamic Test



### Rail pressure control(Dynamic test)

- Injector tip leak test
- Injector correction
- Injector correction (Driving)
- CDPF Regeneration(Idle)
- CDPF Regeneration(Driving)
- LNT desulfurization
- Pressure sensor replacement
- PM sensor regeneration(Idle)
- LNT+DPF Replacement
- Front wide band oxygen sensor learning reset
- Rear wide band oxygen sensor learning reset
- Front wide band oxygen sensor cleaning
- Rear wide band oxygen sensor cleaning
- SCR exchange initialization
- SCR force start
- VIN Write
- EGR Initial Learn
- Throttle Initial Learn
- RPC Reset
- Air Flow Sensor(HFM) Reset
- Cam/Crank Sensor Reset
- Main Relay Reset
- ISG Test

### TPMS(Tire Pressure Monitoring System)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - System Identification
- Special Function
  - TPMS wheel module IDCoding
  - TPMS Variant Coding

### FCM(Front Camera Module)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - System Identification
- Special Function
  - FCM Variant Coding
  - FCM Calibration Value
  - FCM Calibration

### BCM(Body Control Module)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - System Identification
- Special Function
  - BCM Variant Coding
  - REKES Key Coding
  - Transponder Registration

### SKM(Smart Key Module)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - System Identification
- Special Function
  - LF ANT Check
  - Smart Key Registration
  - ESCL Registration
  - SKM Variant Coding

### AIRBAG

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - System Identification
- Special Function
  - AIRBAG ECU Exchange
  - AIRBAG Variant Coding

### DSM(Driver Seat Module)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - System Identification
- Special Function
  - Seat position learning

### DDM(Driver Door Module)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - System Identification

### PDM(Passenger Door Module)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - System Identification

### BSD(Blind Spot Detection)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - System Identification
- Special Function
  - BSD exchange initialization

### DCU(Dosing Control Unit)

- Basic Function
  - DTC Analysis

Data Analysis  
 Actuation Test  
 System Identification  
 - Special Function  
 Urea Initial Injection  
 Urea system inspection

### MUSSO (REXTON SUT)

ECM(Engine Control Module)- D22DTR-SCR  
 - Basic Function  
 DTC Analysis  
 Data Analysis  
 Actuation Test  
 System Identification  
 - Special Function  
 EMS Registration  
 ECU Replace  
 Engine Variant Coding  
 Injector Coding  
 Hydraulic static test  
 IMV Dynamic Test  
 Rail pressure control(Dynamic test)  
 Injector tip leak test  
 Injector correction  
 Injector correction (Driving)  
 CDPF Regeneration(Idle)  
 CDPF Regeneration(Driving)  
 LNT desulfurization  
 Pressure sensor replacement  
 PM sensor regeneration(Idle)  
 LNT+DPF Replacement  
 Front wide band oxygen sensor learning reset  
 Rear wide band oxygen sensor learning reset  
 Front wide band oxygen sensor cleaning  
 Rear wide band oxygen sensor cleaning  
 SCR exchange initialization  
 SCR force start  
 VIN Write  
 EGR Initial Learn  
 Throttle Initial Learn  
 RPC Reset  
 Air Flow Sensor(HFM) Reset  
 Cam/Crank Sensor Reset  
 Main Relay Reset  
 ISG Test

### TPMS(Tire Pressure Monitoring System)

- Basic Function  
 DTC Analysis  
 Data Analysis  
 System Identification  
 - Special Function  
 TPMS wheel module IDCoding  
 TPMS Variant Coding

### FCM(Front Camera Module)

- Basic Function  
 DTC Analysis  
 Data Analysis  
 System Identification  
 - Special Function  
 FCM Variant Coding  
 FCM Calibration Value  
 FCM Calibration

### BCM(Body Control Module)

- Basic Function  
 DTC Analysis  
 Data Analysis  
 Actuation Test  
 System Identification  
 - Special Function  
 BCM Variant Coding  
 REKES Key Coding  
 Transponder Registration

### SKM(Smart Key Module)

- Basic Function  
 DTC Analysis  
 Data Analysis  
 System Identification  
 - Special Function  
 LF ANT Check  
 Smart Key Registration  
 ESCL Registration  
 SKM Variant Coding

### AIRBAG

- Basic Function  
 DTC Analysis  
 Data Analysis  
 Actuation Test  
 System Identification  
 - Special Function  
 AIRBAG ECU Exchange  
 AIRBAG Variant Coding

### BSD(Blind Spot Detection)

- Basic Function  
 DTC Analysis  
 Data Analysis  
 System Identification  
 - Special Function  
 BSD exchange initialization

### DCU(Dosing Control Unit)

- Basic Function  
 DTC Analysis  
 Data Analysis  
 Actuation Test

- System Identification
- Special Function
  - Urea Initial Injection
  - Urea system inspection

### TIVOLI-XLV

#### FCM(Front Camera Module)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - System Identification
- Special Function
  - FCM Variant Coding
  - FCM Calibration Value
  - FCM Calibration

#### BCM(Body Control Module)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - System Identification
- Special Function
  - BCM Variant Coding
  - REKES Key Coding
  - Transponder Registration
  - TPMS Sensor Value
  - TPMS wheel module ID Coding
  - TPMS Variant Coding

#### SKM(Smart Key Module)

- Basic Function
  - DTC Analysis
  - Data Analysis
  - System Identification
- Special Function
  - LF ANT Check
  - Smart Key Registration
  - ESCL Registration

#### AIRBAG

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - System Identification
- Special Function
  - AIRBAG ECU Exchange
  - AIRBAG Variant Coding

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## MAHINDRA

### New Type added

SECURITY SYSTEM > Bolero\_BS6 > Mhawk  
 D70(MD1C) > Immobilizer : India

- Special Function
  - Key Assignment
  - Reading Immobilizer Password
  - Reading EMS Password

SECURITY SYSTEM > THAR\_BS6 > Mhawk  
 D70(MD1C) > Immobilizer : India

- Special Function
  - Key Assignment
  - Reading Immobilizer Password
  - Reading EMS Password

SECURITY SYSTEM > SCORPIO\_BS6 > Mhawk  
 (MD1C) > Immobilizer : India

- Special Function
  - Key Assignment
  - Reading Immobilizer Password
  - Reading EMS Password

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## ASIAN TRUCKS

### New Type added

TATA Commercial > 1212/1512 BS6 ENGINE

- Basic Function
  - Data Analysis
  - Actuation Test
- Special Function
  - VIN
  - Injector Coding
  - High pressure test
  - Leak test of SCR system
  - Dosing Quantity Test from tester
  - Emptying Test
  - Pressure Preparation Test
  - Dynamic Dosing Quantity Test from Calibration
  - Static Dosing Quantity Test from Calibration
  - Medium mass flow and dosing quantity test
  - Spray Test
  - First Filling
  - Backflow Pump Test
  - Dosing valve dry actuation
  - EOL command combining first filling, pressure preparation and emptying test
  - Idle Regeneration
  - Injector Valve Adjustment raw values for all injectors
  - Wear out opening counter of PRV implemented using AVS

Wear out timer of PRV open time implemented using AVS

EEP MEUNADAPT CRV DATA

UDC DosQnt

AVS routine to set and reset the EOL service informations

AVS routine reset the time overtemperature

AVS routine for resetting the Offset Factor

AVS routine for governor deviation between nominal pressure and currently modelled system pressure (DnoxSA pDifSysNom)

AVS routine to read and write the collected system information

AVS routine to set the Tank-level

AVS routine to read and write the number of replacement functions of pressure reduction (SCR Mon n rPRednRepl)

Noncontinuous soot mass

Continuous soot mass

Max thresholds for covered distance since last successful regeneration

Engine operation time thresholds for regeneration

TATA Commercial > 1212/1512 BS6 IC- ERGOPACK

- Basic Function

Data Analysis

- Special Function

VIN

Date of last programming

Hour Meter write

TATA Commercial > 1212/1512 BS6 IC- Ultra

- Basic Function

DTC Analysis

Data Analysis

ECU Information Display

- Special Function

Date of last programming

Hour Meter write

Reset Service Reminder Service

TATA Commercial > Telematics Control Unit

- Basic Function

Data Analysis

- Special Function

VIN

Vehicle Configuration Number

Emmission Type

TATA Commercial > 1412 BS4 ENGINE EDC17

- Basic Function

Data Analysis

Actuation Test

- Special Function

VIN

Idle Speed Adjustment Value

Exhaust Gas Recirculation (EGR) Adjustment Value - Newly Learned Values (Open Position)

Exhaust Gas Recirculation (EGR) Adjustment Value - Newly Learned Values (Close Position)

Exhaust Gas Recirculation (EGR) Adjustment Value - Previously Learned Values (Open Position)

Exhaust Gas Recirculation (EGR) Adjustment Value - Previously Learned Values (Close Position)

Pressure Regulating Valve (PRV) Counter

Pressure Regulating Valve (PRV) Timer

Injector Coding

TATA Commercial > 1412 BS4 ABS ABS8

- Basic Function

Data Analysis

Actuation Test

- Special Function

VIN data identifier

TATA Commercial > INTRA BS6 ENGINE DCM7.1

- Basic Function

DTC Analysis

Data Analysis

Actuation Test

ECU Information Display

- Special Function

VIN

Injector Coding

Service Regeneration at Idle

SPCS Test

VGTH Actuator Clean Test

VGTH Actuator Learn Test

Reset Lean Nox Trap (LNT) Values

Reset WRAF1 / WRAF2 Values

Reset Throttle Values

Reset EGRH Values

Reset Rail Pressure Sensor Values

Lean Nox Trap DESOX Test

Rail Pressure Test

IMV Test

Injector 1 Shut off test

Injector 2 Shut off test

Injector 3 Shut off test

Injector 4 Shut off test

Power Balance Test

Injector 1 Buzzing test

Injector 2 Buzzing test

Injector 3 Buzzing test

Injector 4 Buzzing test

Hydraulic Test

Compression Leak Test

MDP Update Period Adjustment

Fan Actuator 1

Fan Actuator 2

Starter Relay Test  
 IMV Buzzing Test  
 A/C Compressor Relay Working Test  
 Glow Plugs  
 Malfunction Indicator Lamp Test  
 Glow Plug Lamp Test  
 Immoniliser Lamp Test  
 DPF Lamp Test  
 Battery Lamp Test  
 Check Engine Lamp Test  
 Water in Fuel Lamp Test  
 Regeneration Inhibit Lamp Test  
 Regeneration Warning Lamp Test  
 Regeneration Active Lamp Test  
 Fuel Heater Lamp Test  
 Cruise Control Lamp Test  
 ESC Lamp Test  
 Reset Injectors Values Test  
 Reset IMV Values Test  
 Reset HP Values Test  
 Reset AMF Values Test  
 Reset APS Values Test  
 Reset DPF Values Test  
 Reset DP Values Test  
 Reset Excessive Regeneration Fault Values Test  
 EGRH Actuator Clean Test  
 EGRH Actuator Learn Test  
 Reset EGR Position Learning Values Test  
 Throttle Valve Actuator Clearing Test  
 Reset VGTH Learn Value Test  
 Reset ETH Learn Value Test

### TATA Commercial > INTRA BS6 POWER STEERING

- Basic Function
  - Data Analysis
  - Actuation Test
- Special Function
  - Calibrate Steering Angle meso-position
  - Erase Steering Angle meso-position data
  - VIN

### TATA Commercial > INTRA BS6 IC VISTEON

- Basic Function
  - Actuation Test
- Special Function
  - Service Information Reset
  - VIN

### TATA Commercial > INTRA V10 / MAGIC M2 / ACE (800cc) ENGINE

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - ECU Information Display

- Special Function
  - VIN
  - Injector Coding
  - Pariculate Filter Service Regeneration
  - Pressure preparation test
  - Dosing quantity test
  - Static dosing quantity test
  - Dynamic dosing quantity test
  - Spray test
  - Backflow pump test
  - Emptying of SCR system
  - Leak Test of SCR system
  - First filling test
  - Engine test Dosing Valve dry actuation
  - Vehicle configuration Number

### TATA Commercial > ACE GOLD (700CC) ENGINE

- Basic Function
  - DTC Analysis
  - Data Analysis
  - Actuation Test
  - ECU Information Display
- Special Function
  - VIN
  - Injector Coding
  - Pariculate Filter Service Regeneration
  - Pressure preparation test
  - Dosing quantity test
  - Static dosing quantity test
  - Dynamic dosing quantity test
  - Spray test
  - Backflow pump test
  - Emptying of SCR system
  - Leak Test of SCR system
  - First filling test
  - Engine test Dosing Valve dry actuation
  - Vehicle configuration Number

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## TATA

### **New Type added**

#### HARRIER BS4 EMS

- Basic Function
  - Actuation Test
- Special Function
  - Injector Coding
  - DPF Service Regeneration
  - Reset Blinking Oil Life Lamp
  - Reset of ZFC(IMA) Values and IRS Driving Cycle Counter(All Injectors)

Reset of ZFC(IMA) Values and IRS Driving Cycle Counter(Injectors 1)  
 Reset of ZFC(IMA) Values and IRS Driving Cycle Counter(Injectors 2)  
 Reset of ZFC(IMA) Values and IRS Driving Cycle Counter(Injectors 3)  
 Reset of ZFC(IMA) Values and IRS Driving Cycle Counter(Injectors 4)  
 Reset Lambda Values(Exchange of Defective ECU)  
 Reset Lambda Values(Exchange of Injectors, AFM, Rail Pressure Sensor)  
 Reset Lambda Values(Exchange of Lambda Sensor Unit (LSU))  
 Set Eeprom Values for Pfflt Monitor Exchange DPF Differential Pressure  
 Set EEPROM Values for Pfflt Masscalc Exchange of an Emission Relevant Engine Component  
 EGR High Pressure Offset Reset and Activation of the Learning  
 Glow Plug Low Voltage  
 EGR High Pressure DC Motor Test  
 Mission Profile Counter Reset  
 Water in Fuel Lamp On Driven Distance Counter Reset  
 Temperature Warning Lamp On Driven Counter Reset  
 Start Routine Command in CAN Line Applications, for TVA DC Motor Test  
 VGT DC Motor Test  
 SFS Functionality Check

### HARRIER BS4 IC

- Basic Function  
 Data Analysis  
 Actuation Test  
 - Special Function  
 Service Reminder Reset  
 Set All Gauges to Maximum  
 Set All Gauges to Minimum  
 Set All Warning Lamps ON  
 Auto-Learn Other Ecus Present in Vehicle  
 Odometer Reset

### HARRIER BS6 EMS

- Basic Function  
 DTC Analysis  
 Data Analysis  
 Actuation Test  
 ECU Information Display  
 - Special Function  
 Injector Coding  
 DPF Service Regeneration  
 Reset Blinking Oil Life Lamp  
 Reset of ZFC(IMA) Values and IRS Driving Cycle Counter(All Injectors)  
 Reset of ZFC(IMA) Values and IRS Driving Cycle

Counter(Injectors 1)  
 Reset of ZFC(IMA) Values and IRS Driving Cycle Counter(Injectors 2)  
 Reset of ZFC(IMA) Values and IRS Driving Cycle Counter(Injectors 3)  
 Reset of ZFC(IMA) Values and IRS Driving Cycle Counter(Injectors 4)  
 Reset Lambda Values(Exchange of Defective ECU)  
 Reset Lambda Values(Exchange of Injectors, AFM, Rail Pressure Sensor)  
 Reset Lambda Values(Exchange of Lambda Sensor Unit (LSU))  
 Set Eeprom Values for Pfflt Monitor Exchange DPF Differential Pressure  
 Set EEPROM Values for Pfflt Masscalc Exchange of an Emission Relevant Engine Component  
 EGR High Pressure Offset Reset and Activation of the Learning  
 Glow Plug Low Voltage  
 EGR High Pressure DC Motor Test  
 Mission Profile Counter Reset  
 Water in Fuel Lamp On Driven Distance Counter Reset  
 Temperature Warning Lamp On Driven Counter Reset  
 Start Routine Command in CAN Line Applications, for TVA DC Motor Test  
 VGT DC Motor Test  
 SFS Functionality Check

### NEXON BS6 IC

- Basic Function  
 Data Analysis  
 - Special Function  
 Set All Gauges to Maximum  
 Set All Gauges to Minimum  
 Set All Warning Lamps On  
 Service Reminder Reset  
 Auto-learn other ECUs present in vehicle  
 Odometer Reset  
 Clock Setting  
 IC Configuration Parameter -2 (Type Size / Market Type / Drive Type)  
 Configure Fuel Tank Size  
 Season Odometer  
 Configure Engine Type  
 Out Side Ambient Temperature Sensor Presence  
 ECO / SPORT / CITY Warning Indicator

### NEXON BS6 BCM

- Basic Function  
 Data Analysis  
 Actuation Test  
 - Special Function  
 Vehicle Identification Number  
 Vehicle Configuration Number



Service Self Test Routine  
 Input Switch Test  
 Remote Key Learning

### NEXON BS6 EPAS

- Basic Function  
   Data Analysis  
 - Special Function  
   Steering Wheel Angle Calibration  
   Reset Steering Wheel Angle Calibration

### NEXON BS6 AIRBAG

- Basic Function  
   Data Analysis

### NEXON BS6 ESP

- Basic Function  
   Data Analysis  
   Actuation Test  
 - Special Function  
   Service Self-Test Routine  
   Wheel Speed Sensor Test  
   Steering Angle Sensor Calibration  
   Inertial Sensor Calibration  
   Repair Bleeding

### NEXON BS6 HU

- Basic Function  
   Data Analysis  
 - Special Function  
   Service Self-Test Routine  
   Speaker Test Routine  
   Display Test Routine

### NEXON BS6 AT

- Basic Function  
   DTC Analysis  
   Data Analysis  
   Actuation Test  
   ECU Information Display  
 - Special Function  
   Vehicle Identification Number  
   Clutch Circuit Bleeding  
   Hydraulic Circuit Depressurization  
   Clutch kiss point self tuning  
   Grid self tuning  
   Reset data - after Clutch components replacement  
   Reset data - after AMT KIT replacement  
   Reset data - after Gearbox replacement  
   Reset data - after shift lever replacement  
   Reset data - after sports button replacement

### NEXON BS6 ESCL

- Basic Function  
   DTC Analysis

Data Analysis  
 ECU Information Display  
 - Special Function  
   ESCL Status Routine

### NEXON BS6 TPMS

- Basic Function  
   DTC Analysis  
   Data Analysis  
   ECU Information Display  
 - Special Function  
   Front Left Tyre Id  
   Front Right Tyre Id  
   Rear Right Tyre Id  
   Rear Left Tyre Id  
   Spare Tyre Id  
   Manual Learning of 5-Tyre in FL, FR, RR, RL and  
   spare tyre sequence  
   Manual Learning of Front Left Tyre  
   Manual Learning of Front Right Tyre  
   Manual Learning of Rear Right Tyre  
   Manual Learning of Rear Left Tyre  
   Manual Learning of Spare Tyre  
   Manual Learning of 4-Tyre in FL, FR, RR, and RL and  
   tyre sequence

### NEXON BS6 TCM

- Basic Function  
   DTC Analysis  
   Data Analysis  
   ECU Information Display  
 - Special Function  
   Mobile APN  
   CVP Link

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## GREATWALL

### New function added

#### HAVAL H6

- Special Function  
   Service reset

#### HAVAL H9

- Special Function  
   Service reset

#### HAVAL HAVAL JOLION

- Special Function  
   Service reset



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### MAXUS / LDV

#### New function added

##### G10

- Special Function  
Service reset

#### DTC items added

##### G10

- Engine
- AT
- ABS
- BCM
- Instrument Panel
- SRS
- Passive entry start
- Head lamp control
- TPMS
- Power back door controller
- Around view system
- Gateway

##### T60

- Engine
- AT
- ABS
- IC (Instrument Cluster)
- BCM
- PEPS (Passive Entry Passive Start)
- SRS
- AFS (Adaptive Front-Lighting System)
- TPMS
- Power back door controller
- Around view system
- Gateway

##### V80

- Engine
- AT
- ABS
- BCM
- SRS
- Instrument Panel

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### FOTON

#### New Function Added

- Tunland ICM
- Special Function  
ECU Reset  
Write VIN  
Write Customer Part Number

#### Feedback

AUS : Tunland ICM Security Bug fixed

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