iSCAN / D91
The Most Advanced All-In-One Scan Tool

20 in 1
For
ACURA / HONDA
CHRYSLER
DAEWOO
DAIHATSU
FORD
GM
HYUNDAI
INFINITI / NISSAN
ISUZU
KIA
LEXUS / TOYOTA
MAZDA
MITSUBISHI
SSANGYONG
SUBARU
SUZUKI
OBD-II

VeDiS Specification
D91 ASIAN PRO YUP 2011 USEN Software

USA, English Version
May, 2011

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## MODELS EQUIPPED WITH OBD-II CONNECTOR 1997 – 2009 (CAN and non-CAN version)

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>YEAR</th>
<th>DATA STREAM</th>
<th>READ CODE</th>
<th>CLEAR CODE</th>
<th>ACTIVATION</th>
<th>ADAPTATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PGM-FI Engine</td>
<td>1997 – 2009</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>A/T Transmission</td>
<td>1997 – 2009</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>SRS Airbag</td>
<td>1997 – 2009</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td>✔ (note1)</td>
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<tr>
<td>PSE Power Steering</td>
<td>1997 – 2009</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Immobilizer</td>
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<td></td>
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<td>✔</td>
<td>✔</td>
<td>✔ (note2)</td>
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<td>BODY Body Electrical</td>
<td>1997 – 2009</td>
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<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>IMA Integrated Motor Assist, Hybrid System</td>
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<td>✔</td>
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<tr>
<td>VTM-4 Variable Torque Management</td>
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<td>✔</td>
<td>✔</td>
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<tr>
<td>SH-AWD Super Handling All-Wheel-Drive</td>
<td>1997 – 2009</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>4WS 4-Wheel Steering Drive</td>
<td>1997 – 2009</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>TPMS Tire pressure monitoring</td>
<td>1997 – 2009</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>SMARTKEY Smart Key (Keyless)</td>
<td>1997 – 2009</td>
<td>✔</td>
<td>✔</td>
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### MODELS EQUIPPED WITH 3-PIN CONNECTOR 9/1991 - 2002

<table>
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<th>SYSTEM</th>
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<th>DATA STREAM</th>
<th>READ CODE</th>
<th>CLEAR CODE</th>
<th>ECU RESET</th>
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<tbody>
<tr>
<td>SRS Airbag</td>
<td>9/1993 – 2002</td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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</tbody>
</table>

**Note:**
1. A/T system is supported from 1997 (except Integra is supported from May 1993)
2. Some of models like Civic, the Engine system combined with A/T system.
3. Models equipped with 3-Pin connector will up to 2002 in some countries.
**CAN PROTOCOL**

### POWER TRAIN SYSTEM

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>YEAR</th>
<th>READ / CLEAR FAULT</th>
<th>DATA STREAM</th>
<th>ADAPTATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCM (Power-train Control Module)</td>
<td>2003~2007</td>
<td>✓</td>
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<tr>
<td>TCM (Transmission Control Module)</td>
<td>2003~2007</td>
<td>✓</td>
<td>✓ (some models)</td>
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<tr>
<td>ESM (Electronic Shifter Module)</td>
<td>2003~2007</td>
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### CHASSIS SYSTEM

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<tr>
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<th>READ / CLEAR FAULT</th>
<th>DATA STREAM</th>
<th>ADAPTATION</th>
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</thead>
<tbody>
<tr>
<td>ABS (Anti Lock Brakes)</td>
<td>2003~2007</td>
<td>✓</td>
<td>✓ (some models)</td>
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### BODY SYSTEM

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<th>ADAPTATION</th>
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<tbody>
<tr>
<td>AHBM (Automatic High Beam Module)</td>
<td>2003~2007</td>
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<td>DDM (Drivers Door Module)</td>
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<td>✓</td>
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<tr>
<td>EOM (Electronic Overhead Module)</td>
<td>2003~2007</td>
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<tr>
<td>FCM (Front Control Module)</td>
<td>2003~2007</td>
<td>✓</td>
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<tr>
<td>FDCM (Final Drive Control Module)</td>
<td>2003~2007</td>
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<tr>
<td>HIDT (High Intensity Discharge Translator)</td>
<td>2003~2007</td>
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<tr>
<td>HSM (Heated Seat Module)</td>
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<tr>
<td>ITM (Intrusion Module)</td>
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<tr>
<td>LRSM (Light Rain Sensor Module)</td>
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## BODY SYSTEM (continue)

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<tr>
<td>MSMD (Memory Seat Module)</td>
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<tr>
<td>OCM (Occupant Classification Module)</td>
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<tr>
<td>ORC (Occupant Restraint Controller)</td>
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<tr>
<td>PLGM (Power Lift Grate Module)</td>
<td>2003–2007</td>
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<tr>
<td>PDM (Passengers Door Module)</td>
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<td>PTS (Parktronic)</td>
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<td>SCM (Steering Column Module)</td>
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<td>SUNR (Sunroof Module)</td>
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## INFORMATION AND COMMUNICATION

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<tr>
<td>AMP (Amplifier)</td>
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<td>CCN (Cabin Compartment Node)</td>
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<tr>
<td>HFM (Hands Free Module)</td>
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<tr>
<td>RADIO</td>
<td>2003–2007</td>
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<td>VES (Vehicle Entertainment System)</td>
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<td>WCM (Wireless Control Module)</td>
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* "Program Ignition Key" & "Erase All Key" on PT 2006

## AIR CONDITION

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<tr>
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<th>READ / CLEAR FAULT</th>
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<th>ADAPTATION</th>
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<tbody>
<tr>
<td>HVAC (Heat Ventilation and A/C)</td>
<td>2003–2007</td>
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## OTHER PROTOCOL

### ENGINE

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<tr>
<td>ENGINE</td>
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### TRANSMISSION & T-CASE

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<th>ADAPTATION</th>
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<tr>
<td>TRANSMISSION MODULE(TCM)</td>
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<tr>
<td>TRANSFER CASE MODULE(TCASE)</td>
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<tr>
<td>SHFT LEVER ASSEMBLY MODULE(SLA)</td>
<td>1995~2007</td>
<td>✓</td>
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<tr>
<td>FINAL DRIVE CONTROL MODULE(FDCM)</td>
<td>1995~2007</td>
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### ANTI-LOCK BRAKES

<table>
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<tr>
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<th>YEAR</th>
<th>READ / CLEAR FAULT</th>
<th>DATA STREAM</th>
<th>ADAPTATION</th>
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<tbody>
<tr>
<td>ANTI-LOCK BRAKES(ABS)</td>
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### PASSIVE RESTRAINTS

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<tr>
<td>AIRBAG</td>
<td>1995~2007</td>
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<tr>
<td>SIDE AIRBAGS</td>
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<tr>
<td>RIGHT SIDE AIRBAG(RSA)</td>
<td>1995~2007</td>
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<tr>
<td>LEFT SIDE AIRBAG(LSA)</td>
<td>1995~2007</td>
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<tr>
<td>AIRBAG ON/OFF SWITCH SYSTEM(SRM)</td>
<td>1995~2007</td>
<td>✓</td>
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<tr>
<td>OCCUPANT CLASSIFICATION SYSTEM(OCM)</td>
<td>1995~2007</td>
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## BODY INTERIOR

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<tbody>
<tr>
<td>BODY COMPUTER</td>
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<tr>
<td>ELECTRO/MECH CLUSTER(MIC)</td>
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## INFO, COMM & ENTERTAINMENT

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<th>ADAPTATION</th>
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<tbody>
<tr>
<td>OVERHEAD CONSOLE(OHC, CMTC, EVIC)</td>
<td>1995~2007</td>
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<tr>
<td>AUDIO</td>
<td>1995~2007</td>
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<td>DIGITAL AUDIO AMPLIFIER(DAA, AMP)</td>
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<tr>
<td>SATELLITE AUDIO RECEIVER(SAR)</td>
<td>1995~2007</td>
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<tr>
<td>NAVIGATION SYSTEM(NAV)</td>
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<tr>
<td>HANDS FREE MODULE(HFM)</td>
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## DOORS, GATE & COMFORT

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<th>ADAPTATION</th>
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</thead>
<tbody>
<tr>
<td>DRIVER DOOR(DDM)</td>
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<td>PASSENGER DOOR(PDM)</td>
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<tr>
<td>RIGHT SLIDING DOOR(RSD)</td>
<td>1995~2007</td>
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<td>LEFT SLIDING DOOR(LSD)</td>
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<tr>
<td>POWER LIFT MODULE(PLGM)</td>
<td>1995~2007</td>
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<tr>
<td>MEMORY SEAT MODULE(&amp; APM)(MSM)</td>
<td>1995~2007</td>
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<tr>
<td>ADJUSTABLE PEDAL MODULE(APM)</td>
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## HEATING & A-C

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<th>DATA STREAM</th>
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<tbody>
<tr>
<td>HVAC</td>
<td>1995~2007</td>
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<td>AUTOMATIC TEMP CONTROL(ATC)</td>
<td>1995~2007</td>
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<tr>
<td>CABIN HEATER MODULE(CHM)</td>
<td>1995~2007</td>
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<tr>
<td>FCM/IPM(A48)</td>
<td>1995~2007</td>
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<tr>
<td>SERIAL BUS TRAVELER(SBT)</td>
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### CHASSIS & BODY EXTERIOR

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<tr>
<td>PARK ASSIST MODULE(PAM)</td>
<td>1995~2007</td>
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<tr>
<td>RAIN SENSOR MODULE(RSM)</td>
<td>1995~2007</td>
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<tr>
<td>TIRE PRESSURE MONITOR(TPM)</td>
<td>1995~2007</td>
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<tr>
<td>SPEED PRO STEERING(SPS)</td>
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### THEFT ALARM

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<td>VTSS</td>
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<tr>
<td>SKIM-SKREEM-TPM, IMMOBILIZER</td>
<td>1995~2007</td>
<td>✓</td>
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### SYSTEM MODEL

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<tr>
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<tr>
<td>Engine</td>
<td>Magnus(Gasoline L4, XK-Siemens L6), Matiz, Lemans (Racer)(1.5 MPFI-SOHC, DOHC), Espero, Prince, New-Prince, Super Salon, Cielo, Nexia, New-Brougham, Lanos, Nubira, Leganza (Tacuma)(EGi Engine), Rezzo / Lezo (Unleaded - SOHC), Lacetti</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>AT</td>
<td>Magnus(Gasoline), Rezzo / Lezo</td>
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**DAIHATSU® PKG 1.00**  Date: December 18th, 2007

**DAIHATSU® non-CAN Version 3.00**
Models equipped with OBD-II Connector (KWP-2000)

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<th>READ CODE</th>
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**DAIHATSU® CAN Version 1.00**
Models equipped with OBD-II Connector (CAN)

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<th>ACTIVATION</th>
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## FUNCTIONS CATEGORY

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<tr>
<th>SYSTEM</th>
<th>FUNCTION DESCRIPTION</th>
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<tr>
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<td>Engine / Auto Transmission, Automatic Protocol Selection</td>
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<td>TRACTION</td>
<td>ABS, 4WD, Suspension</td>
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<td>Climate Control</td>
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<td>IMMOBILIZER</td>
<td>PCM, VIC, HEC, ICM, PATS, PATS3, PATS4, Manual Selection</td>
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<td>All Electric Body Control Systems</td>
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## POWER TRAIN SYSTEMS

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<th>ADAPTATION</th>
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## Traction Systems

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## BODY SYSTEMS, SRS

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## D91 Specification

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<td>PATS (Immobilizer)</td>
<td>Expedition, Navigator</td>
<td>1999-2002</td>
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<td>✓</td>
<td>✓</td>
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<tr>
<td></td>
<td>Aviator, Expedition</td>
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<td>✓</td>
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<td>Monterey, Freestar</td>
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<td>1998</td>
<td>✓</td>
<td>✓</td>
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<td>Ranger, Windstar</td>
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<td>Mystique, Mondeo</td>
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### IMMOLIZER SYSTEMS (continued)

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<th>DATA STREAM</th>
<th>READ CODE</th>
<th>CLEAR CODE</th>
<th>ADAPTATION</th>
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<td>Navigator, Towncar</td>
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<td>Blackwood</td>
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<td>Continental, Town car</td>
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<td>F150</td>
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<td>✔</td>
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<td>F150</td>
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<td>✔</td>
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<td>F-SERIES S-DUTY</td>
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<td>✔</td>
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<td>F-Series 3.9L/7.3L Diesel</td>
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<td>✔</td>
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<td>✔</td>
<td>✔</td>
<td>Key program / Key erase</td>
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<td>F-Series 4.2L/5.4L/6.8L</td>
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<td>✔</td>
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<tr>
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<td>Mustang</td>
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<td>✔</td>
<td>✔</td>
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<td></td>
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### MODULE PROGRAMMING

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<tr>
<th>MODULE</th>
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<th>FUNCTION DESCRIPTION</th>
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<tr>
<td>FOCUS 2.0L Diesel</td>
<td>2003-2005</td>
<td>Injector correction factors</td>
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### GM® for North America 1996-2009 (CAN and non-CAN)

**Version:** V3.00  **Date:** October, 2010

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>YEAR</th>
<th>FUNCTIONS</th>
<th>CONNECTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGINE &amp; TRANSMISSION</td>
<td>1996~2009</td>
<td>READ FAULT CODE ✓ CLEAR FAULT CODE ✓ DATA STREAM ✓ (NOTE1) ✓</td>
<td>OBD-II connector</td>
</tr>
<tr>
<td>ABS</td>
<td>1996~2009</td>
<td>✓</td>
<td>OBD-II connector</td>
</tr>
<tr>
<td>SRS (AIRBAG)</td>
<td>1996~2009</td>
<td>✓</td>
<td>OBD-II connector</td>
</tr>
<tr>
<td>OIL RESET</td>
<td>1996~2009</td>
<td>READ / SETTING (NOTE2) the reset can be done by 0%,25%,50%,75%,100% of the oil life.</td>
<td>OBD-II connector</td>
</tr>
</tbody>
</table>

**NOTE:**

1. For Engine / Transmission system, only the ECU adapted VPW 1850 protocol supports data stream function.

2. NOT all models are supported for oil service reset.
## Models equipped with OBD-II connector (CAN and non-CAN protocol)

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>MODEL</th>
<th>DATA STREAM</th>
<th>READ CODE</th>
<th>CLEAR CODE</th>
<th>ACTIVATION</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Immobilizer</em></td>
<td>TUCSON(2.0/2.7l Gas, Diesel), GETZ(2003~), ACCENT(2006~), SANTA FE(2001<del>2005; 2006</del>: Diesel EURO-4 VGT), ATOS(1998~), MATRIX(Diesel, 1.8l Gas), SONATA(2005~: Diesel), ELANTRA(07: 04<del>06: Diesel, 1.6l/1.8l/2.0l Gas; 01</del>03: Diesel, 1.8l/2.0l Gas),</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓ (only TUCSON 2.7l) (only TUCSON 2.7l)</td>
</tr>
<tr>
<td><em>4WD</em></td>
<td>TUCSON, SANTA FE(2001~2005), TERRACAN(TOD TYPE)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><em>AUTO AC</em></td>
<td>TUCSON</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td><em>ETACS</em></td>
<td>TUCSON(GENERAL)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

* The manufacture may change the ECU versions without notification which cause the software fail to communicate with the ECU.
* Immobilizer system always comes with Engine System except TUCSON 2.7l. Please read and clear fault code for Immobilizer System in Engine System.
* For CAN-protocol diesel engine and transmission systems of EURO-4 type of TUCSON, SANTAFE and SONATA, only data stream and read/clear fault code are supported; other CAN-protocol engine and transmission systems, only read/clear fault code are supported.
* ACTIVATION function of CAN-protocol diesel engine system of EURO-4 type of TUCSON is supported.
* CPF service regeneration function of diesel engine system of EURO-4 type(CAN and NON-CAN) of TUCSON is supported.
**TABLE1: The following ECU do not have any activation functions:**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>ACTIVATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELANTRA(2001<del>2003: 1.6L; 1996</del>2000: L4 DOHC unlead obd2),</td>
<td></td>
</tr>
<tr>
<td>MATRIX(2002~: 1.6L lead all &lt;partial&gt;),</td>
<td></td>
</tr>
<tr>
<td>ATOS(1998~2003: L4 SOHC unlead eobd, L4 SOHC unlead mex),</td>
<td></td>
</tr>
<tr>
<td>GETZ(2003~2005),</td>
<td></td>
</tr>
<tr>
<td>ACCENT(2003<del>2005: unlead general, unlead eobd, lead all, unlead 03 obd2; 2000</del>2002; 1996~1999: unlead obd2),</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Models equipped with Non OBD-II connector (12-pins connector)

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>DATA STREAM</th>
<th>READ CODE</th>
<th>CLEAR CODE</th>
<th>ACTIVATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Engine</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓*</td>
</tr>
<tr>
<td>AT</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>ABS</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Airbag</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
</tbody>
</table>

* Some SIEMENS or BOSCH type Engine ECUs do not have any activation functions from dealers.

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### SYSTEM TYPE

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>TYPE</th>
<th>YEAR</th>
<th>READ FAULT CODE</th>
<th>CLEAR FAULT CODE</th>
<th>DATA STREAM</th>
<th>ACTIVATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGINE</td>
<td>Generic</td>
<td>1998~2004</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓ (NOTE1)</td>
</tr>
<tr>
<td></td>
<td>4JH1-TC Bosch</td>
<td>2001~2006</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>TRANSMISSION</td>
<td>Generic</td>
<td>1998~2004</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓ (NOTE1)</td>
</tr>
<tr>
<td>ABS</td>
<td>Generic</td>
<td>1998~2004</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓ (NOTE1)</td>
</tr>
<tr>
<td>SRS (AIRBAG)</td>
<td>Generic</td>
<td>1998~2004</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓ (NOTE1)</td>
</tr>
</tbody>
</table>

**Note:**
1. Few versions are not supported.
## D91 / iSCAN Specification

**For JAGUAR®**

**VERSION:** V1.50  **DATE:** DECEMBER 9th, 2007

Models equipped with OBD-II Connector, SELECT BY MODEL:

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<tr>
<th>MODEL</th>
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<th>SYSTEM</th>
<th>READ FAULT CODE</th>
<th>CLEAR FAULT CODE</th>
<th>DATA STREAM</th>
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<td>GEM (Generic Electric Module)</td>
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<td>DDM (Drivers Door Module)</td>
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<td>✓</td>
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<tr>
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<td>DSM (Driver Seat Module)</td>
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<th>CLEAR FAULT CODE</th>
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<tr>
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# D91 / iSCAN Specification

## S-TYPE

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## X-TYPE

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## Additional Notes

- **JAGUAR® 2**
## D91 / iSCAN Specification

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Models equipped with OBD-II Connector, SELECT BY SYSTEM: (for unknown models / versions only)

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**OBD-II CONNECTOR (CAN AND non-CAN PROTOCOLS) / 20-PIN CONNECTOR**

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<tr>
<th>SYSTEM</th>
<th>MODEL</th>
<th>DATA STREAM</th>
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<th>CODING / ADAPTATION</th>
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| CARENS(99~02:1.8L, 03~06:1.6/2.0L, 07: 2.0/2.4L) CARNIVAL/SEDONA(98~02: 2.5L, 03~05: 2.5/3.5L, 06~07: 2.7/3.8L) CERATO(07: 1.6/2.0L) CLARUS(all 1.8/2.0L) JOICE(all 2.0L EURO3) EURO STAR/PICANTO/MORNING(04~07: 1.0/1.1L) OPRIUS/AMANTI(04~06: 3.5L, 07) OPTIMA/MAGENTIS(00~05: 2.0/2.4/2.5/2.7L, 06~07: 2.0/2.4/2.7L CAN) POTENTIA(all unlead 2.0L) PRIDE(~98: 1.3L<partial>) RETONA(all 2.0L) RIO(00~03:1.3/1.5L, 06~07: 1.4/1.6L) SHUMA/SPECTRA(99~00: 1.5L/1.8L, 01~03: 1.6/1.8L) SORENTO(03~05: 2.4/3.5L, 07: 3.3L/3.8L) SPORTAGE(~03: 2.0L/UNLEAD(AUS), 05~08: 2.0/2.7L) SEPHIA/MENTOR (before 98:1.5/1.6L AFM read/clear dtc only, ~00: 1.5L, ~04: 1.6/1.8L) VISTO | ✓ | ✓ | ✓ | ✓ (refer to the coding table)
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<tr>
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<td>FRONTIER(02~05: 2.5L 4D56 TCI),</td>
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<td>RIO(06~07: 1.5L),</td>
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<td>SPORTAGE(05~08: 2.0L),</td>
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## iSCAN / D91 Specification

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<td>CARENS(99<del>02: gasoline, 03</del>06: gasoline/diesel, 07: 2.0/2.4L gasoline, 2.0L diesel), CARNIVAL/SEDONA(98<del>02: gasoline/diesel, 03</del>05: gasoline/diesel/3.5L gasoline, 06<del>07: 2.7/3.8L gasoline, 2.9L diesel), CERATO(07: 1.6/2.0L gasoline, 1.6L diesel), EURO STAR/PICANTO/MORNING(04</del>07: gasoline, 06<del>07: diesel), OPIRUS/AMANTI(04</del>06, 07), OPTIMA/MAGENTIS(00<del>05: 2.0/2.4/2.5/2.7L gasoline, 06</del>07: 2.0/2.4/2.7L gasoline CAN, 2.0L diesel), RETONA, RIO(00<del>03: LHD/RHD, 06</del>07), SEPHIA/MENTOR(<del>04)(before 98: only read/clear), SHUMA/SPECTRA(99</del>03), SORENTO(03, 04<del>05: 4 gear, 5 gear only read/clear DTC, 07: diesel JATCO only read/clear DTC, gasoline), SPORTAGE(98</del>03: gasoline/diesel, 05~08: 2.0L gasoline / diesel, 2.7L gasoline), VISTO</td>
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<td>✓ (Only for JOICE)</td>
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**SYSTEM** | **MODEL** | **DATA STREAM** | **READ CODE** | **CLEAR CODE** | **CODING / ADAPTATION**
---|---|---|---|---|---
**IMMO.** | CARENS(07: gasoline, 06~07: diesel), CARNIVAL/SEDONA(06: diesel), CERATO(07: diesel), EURO STAR/PICANTO/MORNING(06: diesel), OPTIMA/MAGENTIS(06: CAN), RIO(06), SORENTO(07: diesel), SPORTAGE(06: diesel), | ✓ | | (Only for CAN) | |

* The manufacture may change the ECU versions without notification which cause the software fail to communicate with the ECU.
* Refer to the activation tables for the engine system.
* Injector function (read, write and clear BAR code) of diesel engine system of 2.9L type NON-CAN of CARNIVAL/SEDONA 06~07 and KAON BONGO III K2900 is supported.

**CODING / ADAPTATION FUNCTIONS**

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<td>SPORTAGE(05~06: 2.0L)</td>
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<td>1. Adaptation Reset, 2. Transmission Type Selection, 3. TCS exist or not</td>
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<td>VISTO(all lead/ unlead)</td>
<td>1. Adaptation Reset</td>
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### GASOLINE ENGINE ACTIVATION FUNCTIONS

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<td>CARENS(03–06: 2.0L), CARNIVAL/SEDONA(98–05: 2.5L(V6)/3.5L, 06–07: 2.7/3.8L), CLARUS(ALL 1.8/2.0L), EURO STAR/PICANTO/MORNING(04–07), SEPHIA/MENTOR(~98: 1.8L), SORENTO(03–05: 2.4/3.5L), SPORTAGE(~98: 2.0L, 98–03: 2.0L LEAD, 05–06: 2.0/2.7L),</td>
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### DIESEL ENGINE ACTIVATION FUNCTIONS

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</table>

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# D91 Specification

## ENGINE SYSTEM

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<th>ID</th>
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<th>ACTIVATION</th>
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## TRANSMISSION

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**Version:** V1.64  **Date:** January 18th, 2006

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<td>TCM / AT (Impulse code)</td>
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### Connectors and Systems:

- **6+1 Pin Connector:** PCM (Engine)
- **20 Pin Connector:** PCM (Engine)  TCM (Automatic Transmission)
- **17+8 Pin Connector:** PCM (Engine)  TCM (Automatic Transmission)  ABS  Air Bag
- **OBD-II Connector:** Powertrain Systems adopt ISO 9141-2, and ISO 14230 protocols for communication.

OBD-II Connector: MAZDA US Models from 1995~2000, are equipped with 17+8 Pin and OBD-II Connectors and it have to test with 17+8Pin Connector. OBD-II Connector only supports Generic OBD-II protocol communication only. MAZDA from year 2000 begin equipped with OBD-II Connector only.

* **NOTE:** The system adapted with CAN protocol is not supported.

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# MITSUBISHI® 1988 – 2007 (CAN and non-CAN Systems)

**VERSION:** V4.00  **DATE:** March, 2008

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<th>CLEAR CODE</th>
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</table>
Note:

1. Some of early models, Automatic Transmission and ABS systems are have no digital protocol communication capability. It might be used jumping wire to energize the impulse codes or flash codes on Instrument cluster.

2. Other Systems include Cruise, 4WS and ECS.

3. To register a key, a manufacturer password is required(for example 2949). The user should be aware that only two keys can be valid at the same time. That is, if the user has two valid keys, the user register another new key, then, one of the original valid keys will be invalidated.

4. To register a new key, there are two procedure: (1) Key register, which can be done by this software. (2) Remote Controller Register, which control the central lock, can't be registered by the scanner. Users should consult the repair manual to go through this procedure.

5. Recommend remote control register procedure:
   (1) Short the diagnostic connector pin 1 to ground.
   (2) Switch ignition to ACC within 10 seconds, stay for 1 second.
   (3) Switch to OFF, stay for 1 second.
   (4) Repeat step (2) and (3) for three times. The door locks of the vehicle will lock and unlock automatically once, and go into password setting mode.
   (5) Push key remote control button twice. (The first push has to be within 10 seconds).
   (6) After the procedure is carried out, the locks of the vehicle will lock and unlock automatically once.
   (7) Finished.
   (8) To set the second remote controller, repeat procedure (1) to (7). NOTICE! The central lock module can only store two passwords (keys).

6. Do not support some models equipped with Chrysler systems (ex. Eclipse, Magic).

7. Increase special functions involving key registration, add keys, and engine keycode register.

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**MODELS EQUIPPED WITH 14-PIN CONNECTOR AND OBD-II CONNECTOR (CAN and Non-CAN Vehicles) (Note 1)**

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<th>CLEAR CODE</th>
<th>ACTIVATION AND WORK SUPPORT</th>
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<td>ENGINE of NISSAN TSURU in MEXICO</td>
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<td>✓</td>
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<td>✓</td>
</tr>
<tr>
<td>BCM (Body Control Module)</td>
<td>From prod. up to 2004</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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</tr>
<tr>
<td>SMART ENTRANCE</td>
<td>From prod. up to 2004</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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</tr>
<tr>
<td>HEAD LAMP LEVELIZER</td>
<td>From prod. up to 2004</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>ADP (Automatic Drive Positioner)</td>
<td>From prod. up to 2004</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

**Note:**

1. Some of early models, Automatic Transmission, ABS and Air bag systems have no digital protocol communication capability. It might be used jumping wire to energize the impulse codes or flash codes on Instrument cluster.
2. ABS WORK SUPPORT, include: (1) Steering angle adjust. (2) Deceleration G sensor calibration. (3) Side G sensor calibration. (4) Pressure sensor calibration.
### MODELS EQUIPPED WITH OBD-II CONNECTOR (Only CAN Systems) (Note 3)

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>YEAR</th>
<th>DATA STREAM</th>
<th>READ CODE</th>
<th>CLEAR CODE</th>
<th>ACTIVATION AND WORK SUPPORT</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGINE</td>
<td>From prod. up to 2007</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓ (note 6)</td>
</tr>
<tr>
<td>AT / CVT</td>
<td>From prod. up to 2007</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>ABS</td>
<td>From prod. up to 2007</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>IKEY (Intelligent Key)</td>
<td>From prod. up to 2007</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓ (note 7)</td>
</tr>
<tr>
<td>Power Steering</td>
<td>From prod. up to 2007</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>ADP (Auto Drive Positioner)</td>
<td>From prod. up to 2007</td>
<td>✓</td>
<td>✓</td>
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</tr>
<tr>
<td>IPDM E/R</td>
<td>From prod. up to 2007</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>TPMS (Tire Pressure Monitor)</td>
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<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓ (note 5)</td>
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<tr>
<td>Meter</td>
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<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Meter &amp; A/C Amplifier</td>
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<td>✓</td>
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</tr>
<tr>
<td>BCM</td>
<td>From prod. up to 2007</td>
<td>CAN communication check</td>
<td>✓</td>
<td>✓</td>
<td>✓ (note 4)</td>
</tr>
<tr>
<td>AWD / 4WD</td>
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<td>✓</td>
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<td></td>
</tr>
</tbody>
</table>

**Note:**

3. To communicate with the CAN protocol models (after 05’), please select OBDII-IM4 instead of NSN-IM1. Please connect with vehicles using OBDII-IM4 first, then try NSN-IM1 if fail to connect. A car may equip with CAN system and non-CAN system together. For more connection information, please refer to “Quick Manual For The Diagnostic Cable Connection”.

4. WORK SUPPORT for BCM: BCM NUMBER READER, STEERING LOCK RELEASE.

5. WORK SUPPORT for TPMS: READ ID, REGISTER ID

6. WORK SUPPORT for ENGINE: IDLE AIR LEARNING, IGNITION TIMMING ADJUSTMENT, IDLE SPEED ADJUSTMENT, SELF-LEARNING CONTROL, THROTTLE POSITION LEARNING RESET, THROTTLE CLOSED LEARNING, MT LEARNING, VVEL POSITION SENSOR ADJUSTMENT RESET.

7. WORK SUPPORT for I-KEY: REGISTER I-KEY NUMBER, CHECK I-KEY REMOTE CONTROL LOCATION.
<table>
<thead>
<tr>
<th>BCM ITEMS</th>
<th>SYSTEM</th>
<th>DATA STREAM</th>
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<td>MULTI REMOTE ENT</td>
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<tr>
<td></td>
<td>THEFT ALM</td>
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<tr>
<td></td>
<td>AIR CONDITIONER</td>
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<td>✔</td>
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<td>DOOR LOCK</td>
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<td>✔</td>
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<tr>
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<td>AIR PRESSURE MONITOR</td>
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<td></td>
<td>✔ (note 5)</td>
</tr>
<tr>
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<td>BATTERY SAVER</td>
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<td>BUZZER</td>
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<td>COMB SW</td>
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<td>FLASHER</td>
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<td>REAR DEFOGGER</td>
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<td>SEC-E C/U</td>
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## SUBARU®

**VERSION: 3.00  DATE: DEC., 2009**

Models equipped with OBD-II Connector (KWP-2000)

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>SYSTEM INFO.</th>
<th>DATA STREAM</th>
<th>READ CODE</th>
<th>CLEAR CODE</th>
<th>ACTIVATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGINE</td>
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<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>TRANSMISSION (E-4AT)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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</table>

Models equipped with OBD-II Connector (SSM), CS-IM1 interface needed.

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>SYSTEM INFO.</th>
<th>DATA STREAM</th>
<th>READ CODE</th>
<th>CLEAR CODE</th>
<th>ACTIVATION</th>
</tr>
</thead>
<tbody>
<tr>
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<td>TRANSMISSION</td>
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<td>✓</td>
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</tr>
<tr>
<td>CCS</td>
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<td>✓</td>
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<tr>
<td>ABS</td>
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<td>✓</td>
<td>✓</td>
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<tr>
<td>EPS</td>
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<td></td>
</tr>
</tbody>
</table>

NOTE: Please attach **CS-IM1** between OBD-II connector and **MULTI-IM1 / MULTI-EM1 / IM5-3**.

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**SUBARU® Page 1**
### CHAIRMAN

<table>
<thead>
<tr>
<th>DRIVE</th>
<th>DATA STREAM</th>
<th>READ / CLEAR CODES</th>
<th>ACTIVATION</th>
<th>ADAPTATION</th>
<th>INITIAL CODING</th>
</tr>
</thead>
<tbody>
<tr>
<td>LH-SFI / LH-SFI LEFT</td>
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<td>✓</td>
<td>✓</td>
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<tr>
<td>LH-SFI RIGHT</td>
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<td>✓</td>
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<td>HFM-SFI</td>
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<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>ME 2.0 / 2.1</td>
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<td>✓</td>
<td></td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>EAG 722.5 (5-speed automatic ETC)</td>
<td></td>
<td>✓</td>
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<td>EGS 722.6</td>
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<tr>
<td>IFI / ERE (Electronic Inline injection)</td>
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### CHASSIS

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<th>ACTIVATION</th>
<th>ADAPTATION</th>
<th>INITIAL CODING</th>
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<tbody>
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<td>ASR</td>
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</tr>
<tr>
<td>ETS</td>
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<td></td>
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</tr>
<tr>
<td>ESP (Electronic Stability Program)</td>
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### BODY

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<th>READ / CLEAR CODES</th>
<th>ACTIVATION</th>
<th>ADAPTATION</th>
<th>INITIAL CODING</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB (SRS / Airbag)</td>
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### REXTON

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<th>READ / CLEAR CODES</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Engine Diesel (D27DT)</td>
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<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AT(DC 5 AT T-Tronic)</td>
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<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AT(BTRA 4 AT)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>ABS(TEVES)</td>
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<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ABS/ESP(TEVES)</td>
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<tr>
<td>ABS(BOSCH)</td>
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<td></td>
</tr>
<tr>
<td>SRS-AIRBAG(SRE-NCS)</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4WD(NEW PART TIME)</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4WD(NEW TOD)</td>
<td>✓</td>
<td>✓</td>
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</tr>
<tr>
<td>4WD(TOD)</td>
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</tr>
<tr>
<td>SSPS(POWER STEERING)</td>
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</table>
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**STAVIC / RODIUS**

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<td>Engine Diesel (D20DT)</td>
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<td>✓</td>
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<tr>
<td>AT</td>
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<td>ABS/ESP(TEVES)</td>
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<tr>
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None OBD-II for SUZUKI® 1991 – 2003
Models equipped with GM® 12-Pin Diagnostic Connector.

<table>
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<tr>
<th>SYSTEM</th>
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<th>DATA STREAM</th>
<th>READ CODE</th>
<th>CLEAR CODE</th>
<th>ACTIVATION</th>
</tr>
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<tbody>
<tr>
<td>ENGINE</td>
<td>1991-2003</td>
<td>✓(1)</td>
<td>✓(1)</td>
<td>✓</td>
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<tr>
<td>AT</td>
<td>1991-2003</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>ABS</td>
<td>1991-2003</td>
<td>✓(2)</td>
<td>✓(2)</td>
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<tr>
<td>SRS</td>
<td>1991-2003</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>IMMOBILIZER</td>
<td>1991-2003</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

(1) Not available on ALTO (SH410), Baleno Diesel (SY419)
(2) Not available on Nissinbo, Bosch, Delco 2WD / 4WD

OBD-II for SUZUKI® 1997– 2006
Models equipped with OBD-II vehicle Diagnostic Connector:

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>YEAR</th>
<th>DATA STREAM</th>
<th>READ CODE</th>
<th>CLEAR CODE</th>
<th>ACTIVATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGINE</td>
<td>1999-2006</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>AT</td>
<td>1999-2006</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>ABS</td>
<td>1999-2006</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>SRS</td>
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<td>✓</td>
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<tr>
<td>ESP</td>
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<td>✓</td>
<td>✓</td>
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<tr>
<td>BCM</td>
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<td>✓</td>
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**OBD-II for TOYOTA / LEXUS 1997 - 2006**
Models equipped with OBD-II connector only for non-CAN system

### POWER TRAIN SYSTEM, non-CAN

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>YEAR</th>
<th>DATA STREAM</th>
<th>READ / CLEAR CODE</th>
<th>ACTIVATION</th>
<th>ADAPTATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine (Gasoline / Diesel)</td>
<td>1997-2006</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>Reset ECM / Memory</td>
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<tr>
<td>Engine (Diesel D4D)</td>
<td>-2006</td>
<td>✓</td>
<td></td>
<td>✓</td>
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<tr>
<td>Transmission</td>
<td>1997-2006</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Transmission (Diesel D4D)</td>
<td>-2006</td>
<td>✓</td>
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<tr>
<td>CCS (Cruise Control System)</td>
<td>1997-2006</td>
<td>✓</td>
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<tr>
<td>Laser/Radar CCS</td>
<td>1997-2006</td>
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<tr>
<td>HV CCS</td>
<td>1997-2006</td>
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<tr>
<td>HV ECU (Hybrid Vehicle ECU)</td>
<td>1997-2006</td>
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<tr>
<td>HV Battery</td>
<td>1997-2006</td>
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<td>✓</td>
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<td>1. Onboard Equalizing Charge</td>
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<tr>
<td>Stop and Go</td>
<td>1997-2006</td>
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<td></td>
<td>✓</td>
<td>2. ECU Initialization</td>
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<tr>
<td>Sequential MT (Manual Transmission)</td>
<td>1997-2006</td>
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### CHASSIS SYSTEM, non-CAN

<table>
<thead>
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<th>READ / CLEAR CODE</th>
<th>ACTIVATION</th>
<th>ADAPTATION</th>
</tr>
</thead>
</table>
| ABS / VSC / TRC                                      | 1997-2006| ✓           | ✓                 | ✓                                            | 1. Zero Point Calibration  
2. ECB Utilities  
3. Reset Memory                                                           |
| AHC / EMS / TEMS (Air Suspension)                    | 1997-2006| ✓           | ✓                 |                                               | 1. Height Offset Utility                                                  |
| TPWS (Tire Pressure Warning System)                   | 1997-2006| ✓           | ✓                 |                                               |                                                                             |
| TPMS (Tire Pressure Monitoring System)                | 1997-2006| ✓           | ✓                 |                                               | 1. ID Registration (Color Code)  
2. ID Registration (ID Code)                                               |
| EMPS / EHPS (Electric Motor Assisted Power Steering) | 1997-2006| ✓           | ✓                 |                                               | 1. Torque Sensor Zero Point Adjustment                                   |
| T/M Control                                          | 1997-2006|             | ✓                 |                                               |                                                                             |
| VGRS (Variable Gear-Ratio Steering)                  | 1997-2006|             | ✓                 |                                               | 1. Steer Angle Adjust  
2. Counter Clear  
3. Clear Pre-driver Malfunction Counter  
4. System lock  
5. System unlock                                              |
| KDSS (Kinetic Dynamic Suspension System)             |          |             |                   |                                               |                                                                             |
| Stabilizer                                           |          |             | ✓                 |                                               | 1. Backup Memory Reset                                                    |

### AIR CONDITION SYSTEM, non-CAN

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>YEAR</th>
<th>DATA STREAM</th>
<th>READ / CLEAR CODE</th>
<th>ACTIVATION</th>
<th>ADAPTATION</th>
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<tr>
<td>A/C</td>
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### IMMOBILIZER SYSTEM, non-CAN

<table>
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<tr>
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<th>YEAR</th>
<th>DATA STREAM</th>
<th>READ / CLEAR CODE</th>
<th>ACTIVATION</th>
<th>ADAPTATION</th>
</tr>
</thead>
</table>
| Immobilizer (Engine ECU) | 1997-2006| ✓           | ✓                 | 1. Key Utility  
2. Immobilizer ECU Reset     |                                           |
| Immobilizer / Steering Lock | 1997-2006| ✓           | ✓                 | 1. Key Utility  
2. Immobilizer ECU Reset     |                                           |
<p>| TDS (Thief Deterrent)   |          |             |                   |                               |                                            |
| Smart Key              |          |             |                   |                               |                                            |</p>
<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>YEAR</th>
<th>DATA STREAM</th>
<th>READ / CLEAR CODE</th>
<th>ACTIVATION</th>
<th>ADAPTATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRS / Airbag</td>
<td>1997-2006</td>
<td>-</td>
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<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Meter / Combination Meter</td>
<td>1997-2006</td>
<td>✓</td>
<td>-</td>
<td>✓</td>
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<tr>
<td>Tilt &amp; Telescopic / Steering Wheel</td>
<td>1997-2006</td>
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<td>1. Wireless Register</td>
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<td>2. Automatic Door Locking and Unlocking</td>
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<td>3. ECU Connection Information Initialization</td>
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<tr>
<td>Body / Gateway</td>
<td>1997-2006</td>
<td>-</td>
<td>✓</td>
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<td>-</td>
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<tr>
<td>Body 2</td>
<td>1997-2006</td>
<td>✓</td>
<td>✓</td>
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<td>1. Steering Sensor Initialization</td>
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<td>Body 3</td>
<td>1997-2006</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Body 4</td>
<td>1997-2006</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Body 5</td>
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<td>✓</td>
<td>-</td>
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<tr>
<td>Power Source Control</td>
<td>1997-2006</td>
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<tr>
<td>Pre-Crash / Pre-Collision</td>
<td>1997-2006</td>
<td>✓</td>
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<tr>
<td>Wiper</td>
<td>1997-2006</td>
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<tr>
<td>Rain Sensor</td>
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<td>-</td>
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<tr>
<td>Clearance Soner</td>
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<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mirror / Mirror-Right</td>
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<td>✓</td>
<td>-</td>
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<tr>
<td>Mirror-Left</td>
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</tr>
</tbody>
</table>
### SEAT / DOOR / ROOF SYSTEM, non-CAN

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>YEAR</th>
<th>DATA STREAM</th>
<th>READ / CLEAR CODE</th>
<th>ACTIVATION</th>
<th>ADAPTATION</th>
</tr>
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<tbody>
<tr>
<td>Occupant Detection</td>
<td>1997-2006</td>
<td>✔</td>
<td>✔</td>
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<td>1. Zero Calibration</td>
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<tr>
<td>RTRCTBL Hardtop</td>
<td>1997-2006</td>
<td>✔</td>
<td>✔</td>
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<td>2. Sensitivity Check</td>
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<tr>
<td>D-DOOR (Driver Door)</td>
<td>1997-2006</td>
<td>✔</td>
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<tr>
<td>P-DOOR (Passenger Door)</td>
<td>1997-2006</td>
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<tr>
<td>RL-DOOR (Rear Left Door)</td>
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<tr>
<td>RR-DOOR (Rear Right Door)</td>
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</tr>
<tr>
<td>BACK-DOOR</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>D-SEAT (Driver Seat)</td>
<td></td>
<td>✔</td>
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<td></td>
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<tr>
<td>P-SEAT (Passenger Seat)</td>
<td></td>
<td>✔</td>
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</tr>
<tr>
<td>RR-SEAT (Rear Right Seat)</td>
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</tr>
<tr>
<td>RL-SEAT (Rear Left Seat)</td>
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<tr>
<td>Slide Roof</td>
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</table>

### SWITCH SYSTEM, non-CAN

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>YEAR</th>
<th>DATA STREAM</th>
<th>READ / CLEAR CODE</th>
<th>ACTIVATION</th>
<th>ADAPTATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master Switch</td>
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<tr>
<td>D-SEAT Switch</td>
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<td>✔</td>
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<tr>
<td>Combination Switch</td>
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<tr>
<td>Steering Pad</td>
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</tr>
<tr>
<td>Rear-Seat Switch</td>
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<td>✔</td>
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</tbody>
</table>
## WORK SUPPORT

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>FUNCTIONS</th>
</tr>
</thead>
</table>
| Transmission                | 1. SMT Learning Value Initialization  
2. G Sensor Zero Point Learning  
3. AT/CTV Learning Value Initialization  
4. CVT Oil Pressure Learning  
5. Clutch Oil Pressure Learning |
| Electronic Controlled Diesel (ECD) | 1. Injector Correction (Each Cylinder Code Confirmation)  
2. Injector Correction (Manual ID Code Registration)  
3. Injector Class Confirmation  
4. Injector Class Setting  
5. Filter's related work (compulsion again start)  
6. Filter's related work (difference presses confirmation)  
7. Supply Pump Initialization  
8. Engine Setting Change |
| Radar Cruise                | 1. Optical Axis Adjustment  
2. Radar Cruise Initialization |
| Battery                     | 1. ECU Initialization |
| Mild HV                     | 1. Refresh Charge  
2. SOC Learning |
| Stop & Go                   | 1. Starter Active Count Display  
2. Starter Active Count Setting  
3. Starter Active Count Clear  
4. CVT Oil Pressure Pump Air Bleeding |
| VGRS (Variable Gear-Ratio Steering) | 1. Actuator Angle Center Adjustment  
2. System Lock  
3. System Unlock  
4. Clear Predriver Malfunction Counter Value |
| Power Steering              | 1. Steering Wheel Zero Point Adjustment |
OBD-II for TOYOTA® / LEXUS® after 2006

Models equipped with OBD-II connector only for CAN system (Use IM5 interface card instead of IM-ASIAN interface card)

POWER TRAIN SYSTEM, after 2006

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>YEAR</th>
<th>DATA STREAM</th>
<th>READ / CLEAR CODE</th>
<th>ACTIVATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine (Petrol / Diesel) and ECT</td>
<td>2006 - 2009</td>
<td>✔</td>
<td>✔</td>
<td>1. Injector Compensation (Diesel Engine)</td>
</tr>
<tr>
<td>ECT (Transmission)</td>
<td>2006 - 2009</td>
<td>✔</td>
<td>✔</td>
<td>2. G Sensor, Zero Point Learning</td>
</tr>
<tr>
<td>Hybrid Control</td>
<td>2006 - 2009</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>HV Battery</td>
<td>2006 - 2009</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>E-ACM</td>
<td>2006 - 2009</td>
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<td>✔</td>
<td></td>
</tr>
<tr>
<td>Cruise Control (Engine ECU)</td>
<td>2006 - 2009</td>
<td>✔</td>
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</tr>
<tr>
<td>Cruise Control (HV ECU)</td>
<td>2006 - 2009</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Radar Cruise (HV ECU)</td>
<td>2006 - 2009</td>
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## Chassis System, after 2006

<table>
<thead>
<tr>
<th>System</th>
<th>Year</th>
<th>Data Stream</th>
<th>Read/Clear Code</th>
<th>Activation</th>
<th>Adaptation</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABS / VSC / TRC</td>
<td>2006-2009</td>
<td>✔</td>
<td>✔</td>
<td>1. Zero Point Calibration</td>
<td></td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td>2. ECB Utilities</td>
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<tr>
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<td></td>
<td></td>
<td>3. Reset Memory</td>
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</tr>
<tr>
<td>Advanced Parking Guidance System</td>
<td>2006-2009</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EMPS (Electric Motor Assisted Power Steering)</td>
<td>2006-2009</td>
<td>✔</td>
<td>✔</td>
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<td></td>
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<tr>
<td>Tire Pressure Monitor</td>
<td>2006-2009</td>
<td>✔</td>
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<td>1. Reset Memory</td>
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<td>2. ID Registration (ID Code)</td>
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<td>EPB (Electric Parking Brake)</td>
<td>2006-2009</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Air Suspension</td>
<td>2006-2009</td>
<td>✔</td>
<td>✔</td>
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</tr>
<tr>
<td>Lane Keeping Assist</td>
<td>2006-2009</td>
<td>✔</td>
<td>✔</td>
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</tr>
<tr>
<td>Front Stabilizer</td>
<td>2006-2009</td>
<td>✔</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Rear Stabilizer</td>
<td>2006-2009</td>
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</table>

## Air Condition System, after 2006

<table>
<thead>
<tr>
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<th>Year</th>
<th>Data Stream</th>
<th>Read/Clear Code</th>
<th>Activation</th>
<th>Adaptation</th>
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</thead>
<tbody>
<tr>
<td>A/C</td>
<td>2006-2009</td>
<td>✔</td>
<td>✔</td>
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<td>1. Servomotor Initialization</td>
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<tr>
<td>Front Right Seat A/C</td>
<td>2006-2009</td>
<td>✔</td>
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<tr>
<td>Front Left Seat A/C</td>
<td>2006-2009</td>
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<td>✔</td>
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<tr>
<td>Rear Right Seat A/C</td>
<td>2006-2009</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Rear Left Seat A/C</td>
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## Immobilizer System, after 2006

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<th>Year</th>
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<th>Read/Clear Code</th>
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<th>Adaptation</th>
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<tbody>
<tr>
<td>Starting Control</td>
<td>2006-2009</td>
<td>✔</td>
<td>✔</td>
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</tr>
<tr>
<td>Remote Engine Starter</td>
<td>2006-2009</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Entry &amp; Start (Smart Key)</td>
<td>2006-2009</td>
<td>✔</td>
<td>✔</td>
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</tbody>
</table>
### BODY SYSTEM, after 2006

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>YEAR</th>
<th>DATA STREAM</th>
<th>READ / CLEAR CODE</th>
<th>ACTIVATION</th>
<th>ADAPTATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRS / Airbag</td>
<td>2006 - 2009</td>
<td>✔</td>
<td>✔</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Combination Meter</td>
<td>2006 - 2009</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>-</td>
</tr>
<tr>
<td>Rain Sensor</td>
<td>2006 - 2009</td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AFS / Head Light Auto Leveling</td>
<td>2006 - 2009</td>
<td></td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre-Collision</td>
<td>2006 - 2009</td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre-Crash 2</td>
<td>2006 - 2009</td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electric Power Control</td>
<td>2006 - 2009</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intuitive P/A (Intuitive Parking Aid)</td>
<td>2006 - 2009</td>
<td>✔</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Main Body</td>
<td>2006 - 2009</td>
<td>✔</td>
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</tbody>
</table>

### GATEWAY SYSTEM, after 2006

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>YEAR</th>
<th>DATA STREAM</th>
<th>READ / CLEAR CODE</th>
<th>ACTIVATION</th>
<th>ADAPTATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gateway CAN</td>
<td>2006 - 2009</td>
<td>✔</td>
<td></td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>ECM Gateway</td>
<td>2006 - 2009</td>
<td>✔</td>
<td></td>
<td>✔</td>
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</tr>
<tr>
<td>ECB Gateway</td>
<td>2006 - 2009</td>
<td>✔</td>
<td></td>
<td>✔</td>
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</tr>
<tr>
<td>Mayday Gateway</td>
<td>2006 - 2009</td>
<td>✔</td>
<td></td>
<td>✔</td>
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</tr>
<tr>
<td>PM1 Gateway</td>
<td>2006 - 2009</td>
<td>✔</td>
<td></td>
<td>✔</td>
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</tr>
</tbody>
</table>
## SEAT / DOOR / ROOF SYSTEM, after 2006

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>YEAR</th>
<th>DATA STREAM</th>
<th>READ / CLEAR CODE</th>
<th>ACTIVATION</th>
<th>ADAPTATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>RL-DOOR (Rear Left Door)</td>
<td>2006 - 2009</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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</tr>
<tr>
<td>RR-DOOR (Rear Right Door)</td>
<td>2006 - 2009</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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</tr>
<tr>
<td>D-Door Motor</td>
<td>2006 - 2009</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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</tr>
<tr>
<td>P-Door Motor</td>
<td>2006 - 2009</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>RR-Door Motor</td>
<td>2006 - 2009</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>RR-Door Motor</td>
<td>2006 - 2009</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>D-SEAT (Driver Seat)</td>
<td>2006 - 2009</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>P-SEAT (Passenger Seat)</td>
<td>2006 - 2009</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>RR-SEAT (Rear Right Seat)</td>
<td>2006 - 2009</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>RL-SEAT (Rear Left Seat)</td>
<td>2006 - 2009</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Back Door Power Window</td>
<td>2006 - 2009</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Slide Roof</td>
<td>2006 - 2009</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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</table>

## SWITCH SYSTEM, after 2006

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>YEAR</th>
<th>DATA STREAM</th>
<th>READ / CLEAR CODE</th>
<th>ACTIVATION</th>
<th>ADAPTATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>MASTER SW</td>
<td>2006 - 2009</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>D-SEAT SW</td>
<td>2006 - 2009</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Center Console Switch</td>
<td>2006 - 2009</td>
<td>✓</td>
<td>✓</td>
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</tr>
<tr>
<td>Rear Console Switch</td>
<td>2006 - 2009</td>
<td>✓</td>
<td>✓</td>
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</tr>
<tr>
<td>Combination Switch</td>
<td>2006 - 2009</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steering Pad Switch</td>
<td>2006 - 2009</td>
<td>✓</td>
<td>✓</td>
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</tbody>
</table>
### Non OBD-II for TOYOTA® / LEXUS® 1991 - 1997

Models equipped with 23-Pin, 17-Pin and OBD-II Vehicle Diagnostic Connector:

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>YEAR</th>
<th>DATA STREAM</th>
<th>READ CODE</th>
<th>CLEAR CODE</th>
<th>ACTIVATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine</td>
<td>1991 - 1999</td>
<td>✓</td>
<td>✓</td>
<td>Disconnect fuse</td>
<td>-</td>
</tr>
<tr>
<td>Airbag / SRS</td>
<td>1991 - 1997</td>
<td>-</td>
<td>✓</td>
<td>✓</td>
<td>-</td>
</tr>
<tr>
<td>ABS</td>
<td>1991 - 1997</td>
<td>-</td>
<td>✓</td>
<td>✓</td>
<td>-</td>
</tr>
<tr>
<td>Traction</td>
<td>1991 - 1997</td>
<td>-</td>
<td>✓</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Auto A/C</td>
<td>1991 - 1997</td>
<td>-</td>
<td>✓</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Cruise Control</td>
<td>1991 - 1997</td>
<td>-</td>
<td>✓</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Air Suspension</td>
<td>1991 - 1997</td>
<td>-</td>
<td>✓</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

- ECU does not support
✓ Available Function

**TROUBLE SHUTTLING:**

Some models equip not only one connector. Some functions can be found on OBDII / 17-pin connector, and the other systems will be found on 23-pin connector. Try to connect to those systems using different connectors and different interfaces (ASIAN-IM1 and OBDII-IM5).

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OBD-II ISO9141 and ISO14230 / KWP 2000 / SAE 1850 VPW / SAE 1850 PWM / ISO 15765 CAN

Version: 4.00   Date: July, 2008

*** VEHICLES: 
Vehicle Powertrain system adopt:
  ISO 9141 (using adaptor OBDII-IM3 / IM4)
  SAE 1850 VPW (using adaptor OBDII-IM4)
  SAE 1850 PWM (using adaptor OBDII-IM4)
  ISO 15765 CAN (using adaptor OBDII-IM3 / IM4)

Model Year: 1996 and Later

*** AVAILABLE TESTS:
1 & 2. Read and Clear DTC
   Read & Clear Diagnostic Trouble Codes (DTC's) (OBD-II Mode 3 & 4)
   Read Diagnostic Trouble Codes (DTC's)
   Reset DTC's and Freeze Frame data.

3. Data Stream
   Pid Status (OBD-II Mode 1)
   Parameter Identification (PID) information
   Status and Readiness of PID's
   Live PID information
   Read Live Data (OBD-II Mode 6, 7 & 8)

4. Freeze Frame
   "Freeze Frame" data for Diagnostic Trouble Codes (DTC). (OBD-II Mode 2)

5. Readiness Status
   "Monitoring function" operating status.

6. O2S Monitoring
   Oxygen Sensor operation and testing. (OBD-II Mode 5)

7. Data Scan-Waveform
   RPM signal / O2 sensor signal / Mass air flow sensor signal / Ignition timing / TPS signal / MAP sensor signal