

D91

The Most Advanced All-In-One Scan Tool

16 in 1

For ACURA
DAEWOO
DAIHATSU
FORD
HONDA
HYUNDAI
INFINITI
KIA
LEXUS
MAZDA
MITSUBISHI
NISSAN
SUBARU
SUZUKI
TOYOTA
OBD-II

Specification

For the D91 – ASIAN PRO Package

English Version 6.00(EN)

October 2005

AUTOLAND
S C I E N T E C H



D91-HND For Acura/Honda 1991 – 2005

Version: V1.50 SP3 Date: September 27, 2005

Models equipped with 3-Pin Connector 9/1991 - 2002

SYSTEM	Year	Data Stream	Read Code	Clear Code	ECU Reset
Engine (PGM-FI)	9/1991 – 2002	✓	✓	✓	✓
Transmission (A/T)	5/1993 – 2002	✓	✓	✓	
Air Bag (SRS)	9/1993 – 2002	✓	✓	✓	
ABS/VSA	9/1995 – 2002		✓	✓	

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 Diagnostic Socket connector will up to 2002 in some countries.

Models equipped with OBD-II Connector 1997 - 2005

SYSTEM	Year	Data Stream	Read Code	Clear Code	O2 Sensor Monitoring	Data Scan Waveform
Engine	1997 – 2005	✓	✓	✓	✓	✓
Transmission (A/T)	1997 – 2005	✓	✓	✓		
Air Bag (SRS)	1997 – 2005		✓	✓		
ABS/VSA (Vehicle Stability Assistant)	1997 – 2005	✓	✓	✓		
PSE (Power Steering)	1997 – 2005	✓	✓	✓		
SCS	1997 – 2005		✓			



D91-DAW For Daewoo 1998-2003

Version: 1.02SP4 Date: July 07, 2005

System	Model	Data Stream	Read Code	Clear Code	Activation
Engine	Magnus, Matiz, Lemans (Racer), Espero, Prince, New-Prince, Super Salon, Cielo, Nexia, New-Brougham, Lanos, Nubira, Leganza (Tacuma), Rezzo / Lezo	✓	✓	✓	
AT	Magnus, Rezzo / Lezo	✓	✓	✓	✓
	Nubira II, Kalos	✓	✓	✓	
ABS	Magnus, Matiz, Rezzo / Lezo, Kalos	✓	✓	✓	✓
Air Bag	Magnus, Matiz, Kalos		✓	✓	
ISU	Magnus	✓	✓	✓	✓



For DAIHATSU

Version: 1.00 SP1 Date: July 1, 2005

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

System	Year	Data Stream	Read Code	Clear Code	Activation
Engine	1997 - 2004	✓	✓	✓	
Air Bag	1997 - 2004		✓	✓	

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For FORD Group OEM 1994-2003

VERSION: 1.10 Date: June 20, 2005

SYSTEM		Model	Year	Data Stream	Read Code	Clear Code	Adaptation
PCM	Engine	Mondeo / Metrostar, Escort, Taurus, Transit, Probe, MX-6, Explorer, Scorpio, Town Car, Windstar, Focus, Escape / Mazda Tribute	1994~2005 (NOTE)	✓	✓	✓	
	AT	Mondeo / Metrostar, Escort, Taurus, Transit, Probe, MX-6, Explorer, Scorpio, Town Car, Windstar, Focus, Escape / Mazda Tribute	1994~2005 (NOTE)	✓	✓	✓	
ABS		Mondeo / Metrostar, Escort, Taurus, Transit, Explorer, Scorpio, Town Car, Windstar, Focus, Escape / Mazda Tribute	1995~2005 (NOTE)	✓	✓	✓	
IABM/ECS/RCM (SRS)		Mondeo / Metrostar, Taurus, Explorer, Town Car, Windstar, Focus, Escape / Mazda Tribute	1995~2005 (NOTE)	✓	✓	✓	
EATC (Air Condition)		Mondeo / Metrostar, Explorer, Town Car	1998-2005 (NOTE)	✓	✓	✓	
ICM (Instrument cluster)		Windstar	1999	✓	✓	✓	
PATS (Immobilizer)		Mondeo / Metrostar, Escort, Taurus, Transit, Explorer, Scorpio, Windstar	1996-1999	✓	✓	✓	
PATS (Immobilizer)		Escape	2000~2005 (NOTE)				Key program / Key erase
NGSC (Cruise control)		Town Car, Windstar	1998-1999	✓	✓	✓	
ARC (4WD)		Explorer	1998-1999	✓	✓	✓	
RASM (Rear air suspension)		Town Car	1998-1999	✓	✓	✓	
SARC (Elect. suspension)		Taurus	1996-1999	✓	✓	✓	

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Body

SYSTEM	Model	Year	Data Stream	Read Code	Clear Code	Adaptation
RIM	Mondeo / Metrostar, Escort, Transit	1997-1999		✓	✓	
CSM (Central security module)	Mondeo / Metrostar, Focus,	1998-2000	✓	✓	✓	
GEM (Generic elec. module)	Mondeo / Metrostar, Taurus, Explorer, Windstar, Escape / Mazda Tribute	1996-2003	✓	✓	✓	
ACM (Audio control module)	Mondeo / Metrostar, Town Car	1998-2003	✓	✓	✓	
HEC (Hybrid electrical cluster)	Mondeo / Metrostar, Town Car, Focus	1998-2003	✓	✓	✓	
RHID (Right hi-intensity discharge lamp)	Mondeo / Metrostar	2000-2003	✓	✓	✓	
LHID (Left high intensity discharge lamp)	Mondeo / Metrostar	2000-2003	✓	✓	✓	
RAP	Taurus, Explorer, Windstar	1996-1999	✓	✓	✓	
RCC	Taurus	1996-1999	✓	✓	✓	
CTM (Central timer module)	Explorer, Focus	1998-2000	✓	✓	✓	
DSM (Driver seat module)	Explorer, Town Car	1998-1999	✓	✓	✓	
DDM (Drivers door module)	Town Car, Windstar	1998-1999	✓	✓	✓	
LCM (Lamp control module)	Town Car	1998-1999	✓	✓	✓	
FFH (Diesel fuel heating)	Focus	2000	✓	✓	✓	
MCM (Information system)	Focus, Windstar	1999-2000	✓	✓	✓	
REM (Rear elec. module)	Windstar	1999	✓	✓	✓	

NOTE: Current version does not support above systems if those adopted with CAN protocol.

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HYUNDAI, 1989~2003

Version: 1.00 Date: JUNE 21, 2005

Models equipped with OBD-II connector

System	Model	Data Stream	Read Code	Clear Code	Activation
*Engine (gasoline)	ACCENT(1995~2003), ATOS(1998~2003), COUPE(1997~2003), ELANTRA(1992~2003), SANTA-FE(2001~2003), SONATA(1989~2003), TERRACAN(2001~2003), TRAJET(2001~2003), XG(1999~2003), MATRIX(2002~2003), GETZ(2003), GALLOPER-II	✓	✓	✓	
*Engine (diesel)	GETZ(2003)	✓	✓	✓	
*AT	ACCENT(1995~2003), ATOS(1998~2003), COUPE(1997~2003), ELANTRA(1992~2003), SANTA-FE(2001~2003), SONATA(1989~2003), TERRACAN(2001~2003), TRAJET(2001~2003), XG(1999~2003), MATRIX(2002~2003), GETZ(2003)	✓	✓	✓	
*ABS	ACCENT(1995~2003), ATOS(1998~2003), COUPE(1997~2003), ELANTRA(1992~2003), SANTA-FE(2001~2003), SONATA(1994~2003), TERRACAN(2001~2003), TRAJET(2001~2003), XG(1999~2003), MATRIX(2002~2003), GALLOPER-II		✓	✓	
*Airbag	ACCENT(1995~2003), ATOS(1998~2003), COUPE(1997~2003), ELANTRA(1992~2003), SANTA-FE(2001~2003), SONATA(1994~2003), TERRACAN(2001~2003), TRAJET(2001~2003), XG(1999~2003), GALLOPER-II		✓	✓	

* The manufacture may change the ECU versions without notification which cause the software fail to communicate with the ECU.

* The specification for non-OBDII connector is at the next page.



D91-HYUNDAI, 1989~2003

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

System	Data Stream	Read Code	Clear Code	Activation
Engine	✓	✓	✓	✓
AT	✓	✓	✓	✓
ABS		✓	✓	
Airbag		✓	✓	

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D91-NSN For Infiniti/Nissan 1990 - 2005

Version: V2.70SP8 Date: Sep. 19, 2005

Models equipped 14-Pin Connector and OBD-II Connector

SYSTEM	Year	Data Stream	Read Code	Clear Code	Activation and Worksupport
Engine	1989 – 2005	✓	✓	✓	✓
Automatic Transmission	1991 – 2003	✓	✓	✓	
NCVT (Nissan Continuous Variable Transmission)	From prod. up to 2004	✓	✓	✓	
ABS	From prod. up to 2005	✓	✓	✓	
Air Bag	From prod. up to 2005		✓	✓	
TCS	From prod. up to 2002		✓	✓	
4WD	From prod. up to 2003	✓	✓	✓	
D/SUS (Dumping Suspension)	From prod. up to 2000		✓	✓	
NATS (Nissan Anti-Theft System)	From prod. up to 2003		✓	✓	✓ Initialization Coding
IVMS (In Vehicle Multiple System)	From prod. up to 2003		✓	✓	
BCM (Body Control Module)	From prod. up to 2004		✓	✓	
SMART ENTRANCE	From prod. up to 2004		✓	✓	
HEAD LAMP LEVELIZER	From prod. up to 2004		✓	✓	

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.



D91-KIA 1998~2005

Version: 1.0 Date: JUNE 21, 2005

OBD-II connector/20-pins connector

System	Model	Data Stream	Read Code	Clear Code	Activation
*Engine (gasoline)	CARENS(99~02:1.8L, 03~05:1.6/1.8/2.0L), CARNIVAL/SEDONA(98~02:2.5L, 03~05:2.5/3.5L), EURO STAR/PICANTO/MORNING(04~05), SPORTAGE(~98:2.0L lead, 98~00:2.0L, 01~03:2.0L BOSCH/LEAD, 05:2.0L), SORENTO(03~05:2.4/3.5L), RIO(00~03:1.3/1.5L), SHUMA/SPECTRA(99~00:1.8L, 01~03:1.6/1.8L), OPTIMA/MAGENTIS(00~02:2.0/2.4/2.5/2.7L, 03:2.0/2.4/2.5(Ti O2)/2.7L), SEPHIA/MENTOR(98~00:1.8L, 01~04:1.6/1.8L) POTENTIA(all year:unlead 2.0L), RETONA(all year: 2.0L), VISTO(all)	✓	✓	✓	
*Engine (diesel)	CARNIVAL/SEDONA(00~05:2.9L), FRONTIER(02~03: 2.5L 4D56 TCI), PREGIO/BESTA(02~03: 2.5L 4D56 TCI),	✓	✓	✓	

* Please refer to the next page for more systems.

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System	Model	Data Stream	Read Code	Clear Code	Activation
*AT	CARENS(99~02:gasoline, 03~05:gasoline/diesel), CARNIVAL/SEDONA(98~02:gasoline/diesel, 03~05:gasoline/diesel/3.5L gas.), EURO STAR/PICANTO/MORNING(04~05), SPORTAGE(98~03:gasoline/diesel, 05:gasoline), SORENTO(03, 04~05:4 gear), RIO(00~03:LHD/RHD), SHUMA/SPECTRA(99~03), OPTIMA/MAGENTIS(00~03:2.0/2.4/2.5/2.7L gasoline), SEPHIA/MENTOR(98~04), RETONA(all), VISTO(all)	✓	✓	✓	
*ABS	CARENS(03~05), CARNIVAL/SEDONA(98~01<partial>, 02~05), SPORTAGE(01~03:gasoline/diesel<partial>,05) RIO(03), SHUMA/SPECTRA(99~01<partial>), OPTIMA/MAGENTIS(00~01, 02:mando/bosch, 03), SEPHIA(98~01<parital>), VISTO(all),		✓	✓	
*Air Bag	CARNIVAL/SEDONA(00~05<partial>), SORENTO(03~05), RIO(01~05:LHD/RHD<partial>), OPTIMA/MAGENTIS(00~03), VISTO(all)		✓	✓	

* The manufacture may change the ECU versions without notification which cause the software fail to communicate with the ECU.

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D91-TYT For Toyota/Lexus 1991 - 2004

Version: V2.00SP2 Date: Sep. 19, 2005

Non OBD-II for Toyota / Lexus 1991 - 1997

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

SYSTEM	Year	Data Stream	Read Code	Clear Code	Activation
Engine	1991 - 1999	✓	✓	Disconnect fuse	
Transmission	1991 - 1997		✓	Disconnect fuse	
Air Bag	1991 - 1997		✓	✓	
ABS	1991 - 1997		✓		
Traction	1991 - 1997		✓		
Auto A/C	1991 - 1997		✓		
Cruise Control	1991 - 1997		✓		

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OBD-II for Toyota / Lexus 1997 - 2004
 Models equipped with OBD-II connector only

SYSTEM	Year	Data Stream	Read Code	Clear Code	Activation
Engine	1997-2004	✓	✓	✓	✓
Transmission	1997-2004	✓	✓	✓	✓
ABS/Traction/VSC	1997-2004	✓	✓	✓	Bleeding
AHC/EMS/AIR Suspension	1997-2004		✓	✓	
Tire Pressure Warning System(TPWS)	1997-2004		✓	✓	
A/C	1997-2004	✓	✓	✓	
SRS Air Bag	1997-2004		✓	✓	
Immobilizer	1997-2004	✓	✓	✓	Key registration
Meter	1997-2004	✓	✓	✓	
Tilt & Telescopic/Steering Wheel	1997-2004		✓	✓	
Thief Detection System(TDS)	1997-2004		✓	✓	
Clearance Sonar	1997-2004		✓	✓	
Retractable Hardtop	1997-2004		✓	✓	
Gateway or Body	1997-2004		✓	✓	
Body 2	1997-2004	✓	✓	✓	
Body 4	1997-2004	✓	✓	✓	
Driver's Door	1997-2004	✓	✓	✓	
Passenger's Door	1997-2004	✓	✓	✓	
Rear Left Door	1997-2004	✓	✓	✓	
Rear Right Door	1997-2004	✓	✓	✓	

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For MAZDA 1990 – 2003

Version: V1.62 SP1 Date: October 16, 2004

SYSTEM		Year	Data Stream	Read Code	Clear Code	Switch Test
PCM	Engine	1996 – 2005	✓	✓	✓	
	AT	1996 – 2005	✓	✓	✓	
Engine (Impulse code)		1990 – 2002		✓	✓	✓
TCM / AT (Impulse code)		1990 – 2002		✓	✓	
Air Bag		From prod. up to 2002		✓	✓	
ABS		From prod. up to 2002		✓	✓	
Cruise Control		From prod. up to 2002		✓	✓	
A/C		From prod. up to 2002		✓	✓	

NOTE: Current version does not support above systems if those adopted with CAN protocol.

Connectors and Systems:

6+1 Pin Connector:	PCM (Engine)
20 Pin Connector:	PCM (Engine)TCM (Automatic Transmission) 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+8PinConnector. OBD-II Connector only supports Generic OBD-II protocol communication only. MAZDA from year 2000 begin equipped with OBD-II Connector only.



D91-Mitsu For Mitsubishi 1988 – 2004

Version: V2.00SP8 Date: Sep. 12, 2005

SYSTEM	Year	Data Stream	Read Code	Clear Code	Activation	ID NO. Display
Engine (Gasoline / GDI / Diesel)	1988 – 2004	✓	✓	✓	✓	
Transmission (ELC-4 / 5 AT)	1988 – 2004	✓	✓	✓	✓	
Air Bag	From prod. up to 2004	✓	✓	✓	✓	
ABS	From prod. up to 2004	✓	✓	✓	✓	
TCL (Traction Control)	From prod. up to 2004	✓	✓	✓	✓	
A/C	From prod. up to 2004	✓	✓	✓	✓	
Immobilizer	From prod. up to 2004	✓	✓	✓	Special function	
Other Systems	From prod. up to 2004					✓

Note:

- 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.
- Other Systems include Cruise, SWS, 4WS and ECS. Only connection protocol is supported right now.
- 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.
- 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.
- Recommend remote control register procedure:
 - Short the diagnostic connector pin 1 to ground.
 - Switch ignition to ACC within 10seconds, stay for 1 second.
 - Switch to OFF, stay for 1 second.
 - 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.
 - Push key remote control button twice. (The first push has to be within 10 seconds).
 - After the procedure is carried out, the locks of the vehicle will lock and unlock automatically once.
 - Finished.
 - To set the second remote controller, repeat procedure (1) to (7). NOTICE! The central lock module can only store two passwords (keys).



For SUBARU

Version: 1.00 SP2 Date: July 1, 2005

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

System	Year	Data Stream	Read Code	Clear Code	Activation
Engine	1996 - 2004	✓	✓	✓	



Suzuki 1991-2005

Version: 1.00SP7 Date: September 27, 2005

None OBD-II for Suzuki 1991 – 2005

Models equipped with GM 12-Pin Diagnostic Connector.

Models equipped with GM 12-Pin Diagnostic Connector will up to 2003 in some countries.

System	Year	Data Stream	Read Code	Clear Code	Activation
Engine	1991-2005	✓(1)	✓(1)	✓	
AT	1991-2005			✓	
ABS	1991-2005	✓(2)	✓(2)	✓	
SRS	1991-2005	✓	✓	✓	
Immobilizer	1991-2005			✓	

(1) Not available on ALTO (SH410), Baleno Diesel (SY419)

(2) Not available on Nissinbo, Bosch, Delco 2WD / 4WD

OBD-II for Suzuki 1997– 2005

Models equipped with OBD-II vehicle Diagnostic Connector:

System	Year	Data Stream	Read Code	Clear Code	Activation
Engine	1999-2005	✓	✓	✓	
AT	1999-2005	✓	✓	✓	
ABS	1999-2005	✓	✓	✓	
SRS	1999-2005	✓	✓	✓	
ESP	1999-2005	✓	✓	✓	
Immobilizer	1999-2005			✓	

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For OBD-II ISO9141 and 14230 / KWP-2000 / SAE 1850 VPW / SAE 1850 PWM / ISO 15765 CAN

Version: 3.00 Date: December 3, 2004

 **Vehicles:**

Vehicle Powertrain system adopt :

- ISO 9141 (using adaptor OBDII-IM3)
- ISO 14230/KWP-2000 (using adaptor OBDII-IM3)
- SAE 1850 VPW (using adaptor F-OBDII)
- SAE 1850 PWM (using adaptor F-OBDII)
- ISO 15765 CAN (using adaptor OBDII-IM3)

1 **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