



KIA® 1998 – 2009

OBDSII / 20-pin connector, CAN / non-CAN protocol, Diagnosis / Data / Coding

VERSION: 2011.01 DATE: JAN. 2011

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

SYSTEM	MODEL	DATA STREAM	READ CODE	CLEAR CODE	CODING / ADAPTATION
*ENGINE (gasoline)	CARENS(99~02:1.8L, 03~06:1.6/1.8/2.0L, 07~09: 2.0/2.4L), CARNIVAL/SEDONA(98~02: 2.5L, 03~05: 2.5/3.5L, 06~08: 2.7/3.8L), CERATO(04~08: 1.6/2.0L), CLARUS(all 1.8/2.0L), JOICE(all 2.0L EURO3), EURO STAR/PICANTO/MORNING(04~08: 1.0/1.1L), MOHAVE/BORREGO(08: 3.8L), OPIRUS/AMANTI(04~06: 3.5L, 07~08), OPTIMA/MAGENTIS(00~05: 2.0/2.4/2.5/2.7L, 06~08: 2.0/2.4/2.7L), POTENTIA(all unlead 2.0L), PRIDE(~98: 1.3L<parital>), RETONA(all 2.0L), RIO(00~03:1.3/1.5L, 06~08: 1.4/1.6L), SHUMA/SPECTRA(99~00: 1.5L/1.8L, 01~03: 1.6/1.8L), SORENTO(03~06: 2.4/3.5L, 07~08: 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 only, ~00: 1.5L, ~04: 1.6/1.8L), VISTO,	✓	✓	✓	✓ (refer to the coding table)

SYSTEM	MODEL	DATA STREAM	READ CODE	CLEAR CODE	CODING / ADAPTATION
*Engine (diesel)	CARENS(03~09: 2.0L), CARNIVAL/SEDONA(02~05: 2.9L, 06~08: J2.9), CERATO(06~08: 1.6L), EURO STAR/PICANTO/MORNING(06~08: 1.1L), FRONTIER(02~05: 2.5L 4D56 TCI), KAON/BONGO II(K2500(02~08: 2.5L 4D56 TCI)), KAON/BONGO III(K2900(K2.9 CRDi)), KAON K2900(K2.9 CRDi CAN), OPTIMA/MAGENTIS(06~08: 2.0L), PREGIO/BESTA(02~05: 2.5L 4D56 TCI), RIO(06~08: 1.5L), SORENTO(03~06, 07~08: 2.5L EURO-4), SPORTAGE(05~08: 2.0L),	✓	✓	✓	

SYSTEM	MODEL	DATA STREAM	READ CODE	CLEAR CODE	CODING / ADAPTATION
*AT	CARENS(99~02: gasoline, 03~06: gasoline/diesel, 07~09: 2.0/2.4L gasoline, 2.0L diesel), CARNIVAL/SEDONA(98~02: gasoline/diesel, 03~05: gasoline/diesel/3.5L gasoline, 06~08: 2.7/3.8L gasoline, 2.9L diesel), CERATO(04~06: 1.6/2.0, 07~08: 1.6/2.0L gasoline, 1.6L diesel), EURO STAR/PICANTO/MORNING(04~08: gasoline, 06~08: diesel), MOHAVE/BORREGO(08), OPIRUS/AMANTI(04~08), OPTIMA/MAGENTIS(00~05: 2.0/2.4/2.5/2.7L gasoline, 06~08: 2.0/2.4/2.7L gasoline, 2.0L diesel), RETONA, RIO(00~03: LHD/RHD, 06~08), SEPHIA/MENTOR(~04)(before 98: only read/clear), SHUMA/SPECTRA(99~03), SORENTO(03~06: 4 gear, 5 gear only read/clear DTC, 07~08: diesel JATCO only read/clear DTC, gasoline), SPORTAGE(98~03: gasoline/diesel, 05~08: 2.0L gasoline / diesel, 2.7L gasoline), VISTO,	✓	✓	✓	

SYSTEM	MODEL	DATA STREAM	READ CODE	CLEAR CODE	CODING / ADAPTATION
*ABS	CARENS(03~09), CARNIVAL/SEDONA(98~01, 02~08), CERATO(04~08), CLARUS, EURO STAR/PICANTO/MORNING(04~08), JOICE, MOHAVE/BORREGO(08), OPIRUS/AMANTI(04~08), OPTIMA/MAGENTIS(00~01, 02: mando/bosch, 03~05, 06~08), RIO(03~05, 06~08), SHUMA/SPECTRA(99~01<partial>), SORENTO(03~08), SPORTAGE(98~03: gasoline/diesel, 05~08), SEPHIA(98~01<parital>), VISTO,	✓	✓	✓	
*Air Bag	CARENS(99~02, 03~06, 07~09), CARNIVAL/SEDONA(98~05, 06~08), CERATO(04~08), CLARUS, EURO STAR/PICANTO/MORNING(04~08), JOICE, MOHAVE/BORREGO(08), OPIRUS/AMANTI(04~08), OPTIMA/MAGENTIS(00~05, 06~08), RIO(00~05: LHD/RHD, 06~08), SEPHIA/MENTOR(~98, 98~04), SHUMA/SPECTRA(99~03), SORENTO(03~08), SPORTAGE(~03, 05~08), VISTO,	✓ (Only for JOICE)	✓	✓	

SYSTEM	MODEL	DATA STREAM	READ CODE	CLEAR CODE	CODING / ADAPTATION
*IMMO.	CARENS(07: gasoline, 06: diesel), CARNIVAL/SEDONA(06: diesel), CERATO(07: diesel), EURO STAR/PICANTO/MORNING(06: diesel), OPTIMA/MAGENTIS(06), RIO(06), SORENTO(07: diesel), SPORTAGE(06: diesel),	✓ (Only for CAN)			
*4WD	SPORTAGE(05~08), SORENTO(03~06: TOD AUTO, 07~08),		✓	✓	

* 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 06~08 and KAON BONGO III K2900 is supported.

CODING / ADAPTATION FUNCTIONS

MODELS	FUNCTINS
CARENS(03~06: 2.0L)	1. Adaptation Reset, 2.Transmission Type Selection, 3.TCS exist or not
SPORTAGE(05~06: 2.0L)	1. Adaptation Reset, 2.Transmission Type Selection, 3.TCS exist or not, 4.ABS/Vehicle Speed exist or not
OPTIMA/MAGENTIS(00~05: 2.5<PARTIAL>/2.7L)	1. Adaptation Reset, 2.Transmission Type Selection, 3.TCS exist or not
VISTO(all lead/unlead)	1. Adaptation Reset

GASOLINE ENGINE ACTIVATION FUNCTIONS

MODELS	ACTIVATIONS
CARENS(99~02:1.8L, 03~06:1.6/1.8L), CARNIVAL/SEDONA(02~05: 2.5L V6), SEPHIA/MENTOR(~98:1.5/1.6L AFM, 98~00:1.5/1.8L , 01~04:1.6/1.8L), SHUMA/SPECTRA(99~03:1.5/1.6/1.8L), SPORTAGE(98~03: 2.0L(UNLEAD/BOSCH)/UNLEAD(AUS)),	<p>ECU do not have any activation function</p>
CARENS(03~06: 2.0L), CARNIVAL/SEDONA(98~05: 2.5L KV6/3.5L, 06~08: 2.7/3.8L), CERATO(04~06: 2.0L CVVT), CLARUS(ALL 1.8/2.0L), EURO STAR/PICANTO/MORNING(04~08), MOHAVE/BORREGO(08: 3.8L), OPTIMA/MAGENTIS(07~08: 2.7L CAN), OPIRUS/AMANTI(04~06: 3.5L, 07~08),SEPHIA/MENTOR(~98:1.8L), SORENTO(03~06: 2.4/3.5L, 07~08: 3.3/3.8L CAN), SPORTAGE(~98: 2.0L, 98~03: 2.0L LEAD, 05~08: 2.0/2.7L NON CAN),	<p style="text-align: center;">✓</p>

DIESEL ENGINE ACTIVATION FUNCTIONS

MODELS	ACTIVATIONS
CARENS(03~09: 2.0L), CARNIVAL/SEDONA(02~05: 2.9L, 06~08: J2.9), EURO STAR/PICANTO/MORNING(06~08: 1.1L), KAON K2500(02~08: 2.5L 4D56 TCI), K2900, SORENTO(03~06), SPORTAGE(05~08: 2.0L), OPTIMA/MAGENTIS(06~08: 2.0L), RIO(06~08: 1.5L), CERATO(06~08: 1.6L),	✓

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