

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions								
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else	
	PRIDE	Engine(~98,99,02,03,04)	1.3L SOHC gasoline FBC before 1998		√	√						
			1.3L SOHC gasoline AFM1 before 1998		√	√						
			1.3L SOHC GASOLINE MAP		√	√	√					
		AT(2002,03,04)		√	√	√						
	VISTO	Engine(ALL Year)	UNLEAD ALL		√	√	√	√				1.RESETTING ADAPTIVE VALUES
			UNLEAD IMMO		√	√	√	√				
			LEAD ALL		√	√	√	√				2.RESETTING ADAPTIVE VALUES
		AT(All Year)		√	√	√	√					
		ABS(All Year)		√	√	√	√	√	√			
	SRS(All Year)		√	√	√							
	AVELLA	Engine(ALL Year)	1.3/1.5 GASOLINE MAP		√	√	√					
		AT			√	√						
		ABS			√	√	√					
		Engine(2007-08)	1.6L CVVT EOBD	√	√	√	√	√				1.RESETTING ADAPTIVE VALUES
			1.6L CVVT GEN	√	√	√	√	√				1.RESETTING ADAPTIVE VALUES
1.6L CVVT LEAD			√	√	√	√	√				1.RESETTING ADAPTIVE VALUES	
1.4L DOHC EOBD			√	√	√	√	√				1.RESETTING ADAPTIVE VALUES	
1.4L DOHC GEN			√	√	√	√	√				1.RESETTING ADAPTIVE VALUES	
1.4L DOHC LEAD			√	√	√	√	√				1.RESETTING ADAPTIVE VALUES	
1.5L VGT DIESEL			√	√	√	√	√				01.INJECTOR CORRECTION 02.ENGINE TEST FUNCTION	
1.6 CVVT(2006)		√	√	√	√	√				1.RESETTING ADAPTIVE VALUES		
1.4 DOHC(2006)		√	√	√	√	√				1.RESETTING ADAPTIVE VALUES		

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				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
RIO		Engine(2000-06)	U 1.5L VGT DIESEL(2006)	√	√	√	√	√			01.INJECTOR CORRECTION 02.ENGINE TEST FUNCTION
			1.3/1.5 GASOLINE MAP		√	√	√				
			1.3/1.5L MAF		√	√	√				
			1.3/1.5L (RHD) MAP		√	√	√				
			1.3/1.5L (RHD) MAF		√	√	√				
			1.3/1.5L GASOLINE /IMMO		√	√	√				
			1.3/1.5L GASOLINE LEAD		√	√	√				
		AT(2007-08)		√	√	√	√	√			1.RESETTING ADAPTIVE VALUES
		AT(2000-06)	CAN BUS(2006)	√	√	√	√	√			
				√	√	√	√	√			
			TCU LHD		√	√	√				
			TCU RHD		√	√	√				
		ABS	ABS(2007-08)	√	√	√	√	√	√		
			ABS (2006)	√	√	√	√	√	√		
			DLC CABLE 16 (2003-05)		√	√	√	√	√		
			20PIN RED KIA CONNECTOR (2003-05)		√	√	√	√	√		
			ABS LHD (2000-02)		√	√	√	√			
			ABS RHD (2000-02)		√	√	√	√			
		SRS	SRS (2007-08)	√	√	√					
			SRS (2006)	√	√	√				√	
			A/BAG LHD(2000-05)		√	√					
			A/BAG RHD(2000-05)		√	√					

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				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
		IMMIBILIZER	IMM(2006~2008)				√				01.PASSWORD TEACHING/CHANGING 02.TEACHING 03.NEUTRAL MODE 04.LIMP HOME MODE
		ELEC. POWER STEERING(2006~2007)		√	√	√	√				
SEPHIA (MENTOR)		Engine	1.6L DOHC NON IMMO (2001-04)		√	√	√				
			1.6L DOHC W/IMMO (2001-04)		√	√	√				
			1.6L DOHC LEAD (2001-04)		√	√	√				
			1.8L DOHC GASOLINE TED (1998-2004)		√	√	√				
			1.5L GASOLINE BFD/BFE (1998-2000)		√	√	√				
			1.5/1.6L ENG(MTM) AFM1 (before 1998)		√	√					
			1.5/1.6L ENG(ATM) AFM1 (before 1998)		√	√					
			1.5 GASOLINE MAP (1998-2004)		√	√	√				
		AT	before 1998		√	√					
		ABS(1998-2004)			√	√	√	√			

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Areas	Vehicle	System	Sub System	Functions								
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else	
		SRS(before 1998-2004)			√	√						
SHUMA	Engine	1.6L DOHC NON IMMO (2001-04)			√	√	√					
		1.6L DOHC W/IMMO (2001-04)			√	√	√					
		1.6L DOHC LEAD (2001-04)			√	√	√					
		1.8L DOHC GASOLINE TED (1999-2004)			√	√	√					
		1.5L GASOLINE BFD/BFE (1999-2000)			√	√	√					
	AT(1999-2004)			√	√	√						
	ABS(1999-2004)			√	√	√	√	√				
	SRS(1999-2004)			√	√							
		LEAD 2.4L ALL(2007~2009)	√	√	√	√	√				1.RESETTING ADAPTIVE VALUES 2.FREEZE FRAME DATA	
		UNLEAD 2.4L GEN(2007~2009)	√	√	√	√	√				1.RESETTING ADAPTIVE VALUES 2.FREEZE FRAME DATA	
		UNLEAD 2.4L EOBD(2007~2009)	√	√	√	√	√				1.RESETTING ADAPTIVE VALUES 2.FREEZE FRAME DATA	
		LEAD 2.0L ALL(2007~2009)	√	√	√	√	√				1.RESETTING ADAPTIVE VALUES 2.FREEZE FRAME DATA	
		UNLEAD 2.0L GEN(2007~2009)	√	√	√	√	√				1.RESETTING ADAPTIVE VALUES 2.FREEZE FRAME DATA	

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Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
		Engine	UNLEAD 2.0L EOBD(2007~2009)	√	√	√	√	√			1.RESETTING ADAPTIVE VALUES 2.FREEZE FRAME DATA
			2.0L DIESEL(KWP) EURO-4(2007~2009)	√	√	√	√	√			1.CPF SERVICE REGENERATION 2.INJECTOR CORRECTION 3.COMPONENT CHANGE ROUTINE 4.ENGINE TEST FUNCTION
			2.0L DIESEL(CAN)(2007~2009)	√	√	√	√	√			1.CPF SERVICE REGENERATION 2.INJECTOR CORRECTION 3.COMPONENT CHANGE ROUTINE 4.ENGINE TEST FUNCTION
			2.0L DIESEL(CAN) EURO-4(2006)		√	√					1.CPF SERVICE REGENERATION 2.INJECTOR CORRECTION 3.COMPONENT CHANGE ROUTINE 5.ENGINE TEST FUNCTION
			2.0L DIESEL(KWP) EURO-4(2006)		√	√					1.CPF SERVICE REGENERATION 2.INJECTOR CORRECTION 3.COMPONENT CHANGE ROUTINE 6.ENGINE TEST FUNCTION
			2.0L/2.4L GASOLINE(2007)		√	√					
			2.0L CVVT ALL (2004-06)		√	√	√	√			1.RESTTING ADAPTIVE VALUES 2.VERSION CONFIGURATION
			1.8L LPG (2004-05)		√	√	√	√			
			2.0L LPG (2004-05)		√	√	√	√			

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Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
	CARENS		2.0L DIESEL (2003-06)	√	√	√	√	√			1.ENGINE TEST FUNCTION
			1.6L DOHC W/IMMO (2003-05)		√	√	√				
			1.6L DOHC EURO-IV (2003-05)		√	√	√				
			1.8L DOHC NON IMMO (2003-05)		√	√	√				
			1.8L DOHC W/IMMO (2003-05)		√	√	√				
			1.8L DOHC EURO-IV (2003-05)		√	√	√				
			1.8L DOHC LEAD (2003-05)		√	√	√				
			1.8L DOHC M/T (2001-02)		√	√	√				
			1.8L DOHC (2001-02)		√	√	√				
			1.8L DOHC GASOLINE TED (1999-2000)		√	√	√				
			DIESEL (2003-05)		√	√	√	√			
			GASOLINE (1999-2005)		√	√	√				

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Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
		AT	1.8L LPG (2004-2005)		√	√	√				
			2.0L LPG (2004-2005)		√	√	√	√			
			2007		√	√					
			2.0/2.4 SIEMENS(2007~2009)	√	√	√	√	√			1.CPF SERVICE REGENERATION
			2.0L DIESEL(VET) EURO-4(2007~2009)	√	√	√	√	√			1.CPF SERVICE REGENERATION
		ABS	DLC CABLE 16 (2003-05)	√	√	√			√		
			20PIN RED KIA CONNECTOR (2003-05)	√	√	√					
			1999-2002		√	√	√	√			
			2006		√	√	√	√	√		
			2007~2009	√	√	√	√	√	√		
		SRS	2003-2005	√	√	√	√				
			1999-2002 2007	√	√	√	√				
			2007~2009	√	√	√					1.PASS.AIRBAG REALTIME INFO. 2.CRASHING INFORMATION
		A/C	2007	√	√	√	√	√			
			2007~2009	√	√	√		√			

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Areas	Vehicle	System	Sub System	Functions								
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else	
		IMMIBILIZER	2003~2009				√					01.SMARTRA NEUTRAL 02.PASSWORD TEACHING/CHANGING 03.TEACHING 04.NEUTRAL MODE 05.LIMP HOME MODE
		BCM	2007~2009	√			√	√				
			2.0L DIESEL(CAN) EURO-4(07~08)	√	√	√	√	√				1.CPF SERVICE REGENERATION 2.INJECTOR CORRECTION 3.COMPONENT CHANGE ROUTINE 4.ENGINE TEST FUNCTION
			2.0L DIESEL(CAN) EURO-4(06)		√	√						1.CPF SERVICE REGENERATION 2.INJECTOR CORRECTION 3.COMPONENT CHANGE ROUTINE 4.ENGINE TEST FUNCTION
			2.0L DIESEL(KWP) EURO-4(07~08)	√	√	√	√	√				1.CPF SERVICE REGENERATION 2.INJECTOR CORRECTION 3.COMPONENT CHANGE ROUTINE 4.ENGINE TEST FUNCTION
			2.0L DIESEL(KWP) EURO-4(06)		√	√						1.CPF SERVICE REGENERATION 2.INJECTOR CORRECTION 3.COMPONENT CHANGE ROUTINE 4.ENGINE TEST FUNCTION
			2.0L DIESEL EURO-3 (07-08)	√	√	√	√	√				1.ENGINE TEST FUNCTION

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Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
SPORTAGE	Engine	2.0L DIESEL ALL (2004-2006)	√	√	√	√	√			1.ENGINE TEST FUNCTION	
		2.0L CVVT EOBD (2004-2008)	√	√	√	√	√			1.RESETTING ADAPTIVE VALUES 2.VERSION CONFIGUTRATION	
		2.0L CVVT GEN (2004-2008)	√	√	√	√	√			1.RESETTING ADAPTIVE VALUES 2.VERSION CONFIGUTRATION	
		2.0L CVVT LEAD (2004-2008)	√	√	√	√	√			1.RESETTING ADAPTIVE VALUES 2.VERSION CONFIGUTRATION 3.IDLE CO ADJUSTMENT	
		2.7L V6 EOBD (2004-2008)	√	√	√	√	√			1.RESETTING ADAPTIVE VALUES 2.VERSION CONFIGUTRATION	
		2.7L V6 GEN (2004-2008)	√	√	√	√	√			1.RESETTING ADAPTIVE VALUES 2.VERSION CONFIGUTRATION	
		2.7L V6 LEAD (2004-2008)	√	√	√	√	√			1.RESETTING ADAPTIVE VALUES 2.VERSION CONFIGUTRATION 3.IDLE CO ADJUSTMENT	
		2.0L DOHC(HFM) BOSCH (2001-03)		√	√	√					
		2.0L DOHC(HFM) LEAD (1998-2003)		√	√	√	√				
		2.0L DIESEL RF-TCI (1998-2003)		√	√	√	√				
		2.0L GASOLINE (before 1998)		√	√	√	√				
		2.0L Diesel RF-TCI (before 1998)		√	√						

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Areas	Vehicle	System	Sub System	Functions									
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else		
		ABS	ABS/TCS/ESP (2004-2006)	√	√	√	√	√	√				
			ABS GASOLINE (2001-03)		√	√	√	√	√				
			ABS DIESEL (2001-03)		√	√	√	√	√				
		SRS	SRS AIRBAG ETC(08)	√	√	√	√					1.PASS.AIRBAG REALTIME INFO.	
			SRS AIRBAG CHINA(08)	√	√	√	√						
			SRS AIRBAG(07)	√	√	√	√						
			2004-2006	√	√	√				√			
		A/C	2004-2008	√	√	√	√	√					
		4WD	2004-2008	√	√	√							
		IMMIBILIZER	2004-2008				√					01.SMARTRA NEUTRAL 02.PASSWORD TEACHING/CHANGING 03.TEACHING 04.NEUTRAL MODE 05.LIMP HOME MODE	
		BCM	(2007-2008)	√			√	√					
		CLARUS	Engine	1.8L GASOLINE (before 1998-2000)		√	√	√	√				
				2.0L GASOLINE (before 1998-2000)		√	√	√	√				
AT	(1998-2000)			√	√	√							
	before 1998			√	√								
ABS(1998-2000)				√	√	√	√						
SRS(up to 2000)				√	√								

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Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
Optima 2009 (Magentis)	Engine control		01. 2.0L DIESEL(VGT) EURO-4	√	√	√	√	√			1.CPF SERVICE REGENERATION 2.INJECTOR CORRECTION 3.COMPONENT CHANGE ROUTINE 4.ENGINE TEST FUNCTION
			02. UNLEAD 2.0L(NON ETC) GEN	√	√	√	√	√			
			03. UNLEAD 2.0L(NON ETC) EOBD	√	√	√	√	√			
			04. LEAD 2.0L(NON ETC) ALL	√	√	√	√	√			
			05. UNLEAD 2.4L(ETC) GEN	√	√	√	√	√			
			07. LEAD 2.4L(ETC) ALL	√	√	√	√	√			
			08. UNLEAD 2.7L EOBD	√	√	√	√	√			1.PCM AUTO DETECTION RESET 2.PCM LOCK(MEC) SETTING
			09. UNLEAD 2.7L GEN	√	√	√	√	√			1.PCM AUTO DETECTION RESET 2.PCM LOCK(MEC) SETTING
			10. LEAD 2.7L ALL	√	√	√	√	√			1.PCM AUTO DETECTION RESET 2.PCM LOCK(MEC) SETTING
			Automatic Transaxle		01. 2.0L DIESEL(VGT) EURO-4	√	√	√	√	√	
	02. 2.4L CVVT	√			√	√	√	√			
	03. 2.0L CVVT	√			√	√	√	√			
	04. 2.7L CVVT	√			√	√	√	√			
	ABS/ESP			√	√	√	√	√			
	SRS-AIRBAG			√	√	√					
	SMART KEY SYSTEM	03. PDM DIAGNOSTIC MODE	√	√	√	√	√				

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Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
Optima 2007~2008 (Magentis)		FULL AUTO AIR/CON.		√	√	√	√	√			
		IMMIBILIZER				√					01.SMARTRA NEUTRAL 02.PASSWORD TEACHING/CHANGING 03.TEACHING 04.NEUTRAL MODE 05.LIMP HOME MODE
		ELEC.CONTROL SUSPENSION			√	√	√	√			
	ENGINE CONTROL	01. 2.0L DIESEL(VGT) EURO-4		√	√	√	√	√			1.CPF SERVICE REGENERATION 2.INJECTOR CORRECTION 3.COMPONENT CHANGE ROUTINE 4.ENGINE TEST FUNCTION
		02. UNLEAD 2.0L EOBD		√	√	√	√	√			1.RESETTING ADAPTIVE VALUS 2.VERSION CONFIGURATION
		03. UNLEAD 2.0L GEN		√	√	√	√	√			1.RESETTING ADAPTIVE VALUS 2.VERSION CONFIGURATION
		04. LEAD 2.0L ALL		√	√	√	√	√			1.RESETTING ADAPTIVE VALUS 2.VERSION CONFIGURATION
		05. UNLEAD 2.4L EOBD		√	√	√	√	√			1.RESETTING ADAPTIVE VALUS 2.VERSION CONFIGURATION
		06. UNLEAD 2.7L EOBD		√	√	√	√	√			1.PCM AUTO DETECTION RESET 2.PCM LOCK(MEC) SETTING
		07. UNLEAD 2.7L GEN		√	√	√	√	√			1.PCM AUTO DETECTION RESET 2.PCM LOCK(MEC) SETTING
		08. LEAD 2.7L ALL		√	√	√	√	√			1.PCM AUTO DETECTION RESET 2.PCM LOCK(MEC) SETTING
AUTOMATIC TRANSAXLE	01. 2.0L DIESEL(VGT) EURO-4		√	√	√	√	√				
	02. 2.0L CVVT		√	√	√	√	√				
	03. 2.4L CVVT		√	√	√	√	√				

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				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
			04. 2.7L CVVT	√	√	√	√	√			
		ABS/ESP		√	√	√	√	√	√		
		SRS-AIRBAG		√	√	√					
		IMMIBILIZER					√				01.SMARTRA NEUTRAL 02.PASSWORD TEACHING/CHANGING 03.TEACHING 04.NEUTRAL MODE 05.LIMP HOME MODE
		FULL AUTO AIR/CON.		√	√	√	√	√			
		ELEC.CONTROL SUSPENSION			√	√	√	√			
			2.0L DIESEL(VGT) EURO-4(06-07)	√	√	√	√	√			1.CPF SERVICE REGENERATION 2.INJECTOR CORRECTION 3.COMPONENT CHANGE ROUTINE 4.ENGINE TEST FUNCTION
			UNLEAD 2.0L EOBD(06-07)	√	√	√	√	√			1.RESETTING ADAPTIVE VALUS 2.VERSION CONFIGURATION
			UNLEAD 2.0L GEN(06-07)	√	√	√	√	√			1.RESETTING ADAPTIVE VALUS 2.VERSION CONFIGURATION
			LEAD 2.0L ALL(06-07)	√	√	√	√	√			1.RESETTING ADAPTIVE VALUS 2.VERSION CONFIGURATION
			UNLEAD 2.4L EOBD(06-07)	√	√	√	√	√			1.RESETTING ADAPTIVE VALUS 2.VERSION CONFIGURATION
			UNLEAD 2.7L EOBD(06-07)		√	√	√	√			1.PCM AUTO DETECTION RESET 2.PCM LOCK(MEC) SETTING
			UNLEAD 2.7L GEN(06-07)		√	√	√	√			1.PCM AUTO DETECTION RESET 2.PCM LOCK(MEC) SETTING
			LEAD 2.7L ALL(06-07)		√	√	√	√			1.PCM AUTO DETECTION RESET 2.PCM LOCK(MEC) SETTING

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				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
OPTIMA (MAGENTIS)	Engine	2.7L V6 GASOLINE (2002-05)	√	√	√	√	√			1.RESETTING ADAPTIVE VALUS 2.VERSION CONFIGURATION	
		2.5L V6(TIO2) EURO-III (2003-05)	√	√	√	√	√			1.RESETTING ADAPTIVE VALUS 2.VERSION CONFIGURATION	
		2.5L V6(ZRO2) EURO-II (2003-05)	√	√	√	√	√			1.RESETTING ADAPTIVE VALUS 2.VERSION CONFIGURATION	
		2.5L V6 GENERAL (2000-05)	√	√	√	√	√			1.RESETTING ADAPTIVE VALUS 2.VERSION CONFIGURATION	
		2.5L V6 LEAD (2000-05)	√	√	√	√	√			1.RESETTING ADAPTIVE VALUS 2.VERSION CONFIGURATION	
		2.4L DOHC MELCO (2000-04)	√	√	√	√	√				
		2.0L DOHC A/T MELCO (2000-04)	√	√	√	√	√				
		2.0L DOHC A/T LEAD (2000-04)		√	√	√	√				
		2.0L DOHC M/T MELCO (2000-04)	√	√	√	√	√				
		2.0L DOHC M/T LEAD (2000-04)		√	√	√	√				
		1.8L DOHC SIEMENS(2004)	√	√	√	√	√				
		2.0L LPG SILIUSI(2004)	√	√	√	√	√				
		2.0L LPG BETA(2004)	√	√	√	√	√				
		2.5L V6 EURO-III (2000-02)	√	√	√	√	√			1.RESETTING ADAPTIVE VALUS 2.VERSION CONFIGURATION	

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions								
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else	
		AT(2000-07)	2.0L DIESEL(VGT)		√	√						
			2.0L CVVT(06-07)		√	√						
			2.4L CVVT(06-07)		√	√						
			2.7L CVVT(06-07)		√	√						
			TCU FOR 2.5L/2.7L GASOLINE		√	√						
			TCU FOR 2.4L GASOLINE	√	√	√	√	√				
			TCU FOR 2.0L GASOLINE	√	√	√	√	√				
			CVT	√	√	√	√	√				
			1.8/2.5 SIEMENS REGAL	√	√	√	√	√				
		ABS(2000-07)		√	√	√	√	√	√			
		SRS(2000-07)		√	√	√	√					
		IMMIBILIZER	2006				√				01.SMARTRA NEUTRAL 02.PASSWORD TEACHING/CHANGING 03.TEACHING 04.NEUTRAL MODE 05.LIMP HOME MODE	
		A/C(2006-07)			√	√						
		ELEC. CONTROL SUSPENSION(2006-07)			√	√						
ELAN	Engine(1997-98)			√	√	√	√					
	SRS(1997-98)			√	√							
POTENTIA	Engine(All Year)	2.0L DOHC(HFM) UNLEAD		√	√	√						
		2.0L DOHC(HFM) LEAD		√	√							
	AT			√	√							

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions								
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else	
		ABS			√	√	√					
ENTERPRISE	Engine(All Year)	2.5L GASOLINE J5D			√	√	√					
			3.0L GASOLINE JED			√	√	√				
				OBD-II 98-99MY			√	√	√			
		AT(All Year)			√	√						
		ABS(All Year)	3.0L GASOLINE JED			√	√	√				
			3.6L GASOLINE J6D			√	√	√				
	SRS(All Year)			√	√							
	Engine(2007-2008)	2.7/3.8L GASOLINE EOBD	√	√	√	√	√				1.PCM AUTO DETECTION RESET 2.PCM LOCK(MEC) SETTING	
		2.7/3.8L GASOLINE GEN	√	√	√	√	√				1.PCM AUTO DETECTION RESET 2.PCM LOCK(MEC) SETTING	
		2.7/3.8L GASOLINE LEAD	√	√	√	√	√				1.PCM AUTO DETECTION RESET 2.PCM LOCK(MEC) SETTING	
J2.9 WGT(DIESEL)C/RAIL		√	√	√	√	√				1.ECU INITIALIZATION		
J2.9 VGT(DIESEL)C/RAIL		√	√	√	√	√				1.ECU INITIALIZATION		
AT(2007-2008)	TCU 2.7/3.8L (GASOLINE)	√	√	√	√	√						
	TCU 2.9 WGT(DIESEL)	√	√	√	√	√						
	TCU 2.9 VGT(DIESEL)	√	√	√	√	√						
ABS(2007-2008)		√	√	√	√	√	√			1.SOLENOID VALVE TEST 2.STEERING ANGLE SENSOR 3.VARIANT CODING		
SRS(2007-2008)	LONG BODY AIRBAG	√	√	√	√							
	SHORT BODY AIRBAG	√	√	√	√							
AC(2007-2008)		√	√	√	√	√						
FUEL(2007-2008)		√	√	√	√	√						

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
		POWER SLIDING / TAIL GATE	POWER SLIDING-LH	√	√	√	√				
			POWER SLIDING-RH	√	√	√	√				
			POWER TAIL GATE	√	√	√	√				
		bODY CONTROL MODULE(2007-2008)	IN PANEL MODULE				√				
			FRONT AREA MODULE				√				
			REAR AREA MODULE				√				
			DRIVER DOOR MODULE				√				
			ASSIST DOOR MODULE				√				
			INTEGRATED MEM SEAT				√				
		Engine(2006)	2.7/3.8L GASOLINE		√	√	√				1.PCM AUTO DETECTION RESET 2.PCM LOCK(MEC) SETTING
			J2.9 WGT(DIESEL) C/RAIL		√	√					1.ECU INITIALIZATION
			J2.9 VGT(DIESEL) C/RAIL		√	√					1.ECU INITIALIZATION
		AT(2006)	TCU 2.7/3.8L(GASOLINE)		√	√					
			TCU 2.9 WGT(DIESEL)		√	√					
			TCU 2.9 VGT(DIESEL)		√	√					
		ABS(2006)		√	√	√	√	√	√	1.SOLENOID VALVE TEST 2.STEERING ANGLE SENSOR 3.VARIANT CODING	
		SRS(2006)			√	√					
		A/C(2006)			√	√					
FUEL FIRED HEATER(2006)			√	√							

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions									
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else		
Non-Korea	CARNIVAL (SEDONA)	POWER SLIDING / TAIL GATE(2006)	POWER SLIDING – LH		√	√							
			POWER SLIDING – RH		√	√							
			POWER TAIL GATE		√	√							
		BODY CONTROL MODULE(2006)	IN PANEL MODULE		√	√							
			FRONT AREA MODULE		√	√							
			REAR AREA MODULE		√	√							
			DRIVER DOOR MODULE		√	√							
			ASSIST DOOR MODULE		√	√							
			INTEGRATED MEM SEAT		√	√							
			Engine	3.5L GASOLINE M/EAST (2003-04)		√	√	√	√				
		2.5L V6 EURO-III			√	√	√	√					
		2.5L GASOLINE(EUROPE) KV6(1998-2004)			√	√	√	√					
		2.4/2.5L GASOLINE(GEN) KV6(1998-2004)			√	√	√	√					
		2.9L DIESEL C/RAIL (2002-04)			√	√	√	√					
		3.0L DIESEL(EUROPE) J3TCI (1998-2004)			√	√							
		3.0L DIESEL(GEN) J3TCI (1998-2004)			√	√							

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
		AT	3.5L GASOLINE M/EAST (2003-04)		√	√	√	√			
			GASOLINE (2002-04)		√	√	√	√			
			DIESEL (2002-04)		√	√	√	√			
			TCU(GENERAL) GAS (1998-2001)		√	√	√	√			
			TCU(EUROPE) GAS (1998-2001)		√	√	√	√			
			TCU(GENERAL) DIESEL (1998-2001)		√	√	√				
			TCU(EUROPE) DIESEL (1998-2001)		√	√	√				
		ABS	ABS(2002-04)		√	√	√	√	√		
			ABS EURO-II(2002-04)		√	√	√	√	√		
			ABS C/RAIL(2002-04)		√	√	√	√	√		
			ABS(EUROPE) (1998-2001)		√	√	√	√	√		
			ABS(GENERAL) GAS (1998-2001)		√	√	√	√	√		
			ABS(GENERAL) DIESEL (1998-2001)		√	√	√	√	√		

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions								
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else	
		IMMBILIZER	2002~2004				√				01.PASSWORD TEACHING/CHANGING 02.TEACHING 03.NEUTRAL MODE 04.LIMP HOME MODE	
			2006~2008				√				01.SMARTRA NEUTRAL 02.PASSWORD TEACHING/CHANGING 03.TEACHING 04.NEUTRAL MODE 05.LIMP HOME MODE	
		SRS	(2002-2004)		√	√						
			A/BAG(Europe) (1998-2001)		√	√						
			A/BAG(GENERAL) (1998-2001)		√	√						
		RETONA	Engine(ALL Year)	2.0L GASOLINE		√	√	√				
				2.0L DIESEL RF-TCI		√	√	√	√			
			AT(ALL Year)			√	√	√				
			ABS(ALL Year)			√	√	√	√			
		JOICE	Engine(ALL Year)	2.0L GASOLINE EURO-III		√	√	√	√			
ABS(ALL Year)				√	√	√	√	√				
SRS(ALL Year)				√	√	√						
TOWNER												
PREGIO	Engine(2002-04)			√	√	√	√					
FRONTIER	Engine(2002-04)			√	√	√	√					
		UNLEAD 3.3/3.8L EOBD	√	√	√	√	√			1.PCM AUTO DETECTION RESET 2.PCM LOCK(MEC) SETTING		

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
		Engine(2007-2008)	UNLEAD 3.3/3.8L GEN	√	√	√	√	√			1.PCM AUTO DETECTION RESET 2.PCM LOCK(MEC) SETTING
			LEAD 3.3/3.8L ALL	√	√	√	√	√			1.PCM AUTO DETECTION RESET 2.PCM LOCK(MEC) SETTING
			2.5 DIESEL(CAN)EURO-4	√	√	√	√	√			1.INJECTOR CORRECTION 2.COMPONENT CHANGE ROUTINE 3.ENGINE TEST FUNCTION
			2.5 DIESEL(KWP)EURO-4	√	√	√	√	√			
			2.5 DIESEL EURO-3	√	√	√	√	√			1.INJECTOR CORRECTION 2.ENGINE TEST FUNCTION
		AT(2007-2008)	GASOLINE(CAN) BOSCH	√	√	√	√	√			
			GASOLINE(KWP) BOSCH	√	√	√	√	√			
			A2.5L DIESEL JATCO	√	√	√	√				
		ABS(2007-2008)		√	√	√	√	√	√		1.SOLENOID VALVE TEST 2.STEERING ANGLE SENSOR 3.VARIANT CODING
		SRS(2007-2008)		√	√	√	√				
		AC(2007-2008)		√	√	√	√	√			
		EPS(2007-2008)		√	√	√	√				
		4WD(2007-2008)		√	√	√					
		FUEL(2007-2008)		√	√	√	√	√			
		BODY CONTROL MODULE(2007~2008)		√			√	√			
		SMK(2007~2008)		√	√	√	√	√			
		Engine(2006)	3.3L/3.8L		√	√					
			2.5L DIESEL(CAN) EURO-4		√	√					

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions								
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else	
	SORENTO	Engine(2006)	2.5L DIESEL(KWP) EURO-4		√	√						
			2.5L DIESEL EURO-3		√	√						
		AT(2006)	GASOLINE (CAN) BOSCH		√	√						
			GASOLINE (KWP) BOSCH		√	√						
			A2.5L DIESEL JATCO		√	√						
		ABS(2006)		√	√	√	√	√				
		SRS(2006)		√	√	√	√					
		A/C(2006)										
		ELEC. POWER STEERING(2006)										
		4WD(2006)										
		FUEL FIRED HEATER(2006)										
		Engine(2003-05)	ENGINE DIESEL(A-ENG)		√	√	√	√				1.ENGINE TEST FUNCTION 2.INJECTION CORRECTION
			3.5L V6 GASOLINE ALL		√	√	√	√				1.IDLE RPM ADJUST MODE
			2.4L GASOLINE UNLEAD		√	√	√	√				
			2.4L GASOLINE LEAD		√	√	√	√				
		AT(2003-04)	AUTO.TRANSAXLE(4 GEARS)		√	√	√	√				
			AUTO.TRANSAXLE(5 GEARS)	√	√	√	√	√				
		ABS(2003-04)		√	√	√	√	√	√			
		SRS(2003-04)		√	√	√	√					

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
		ELEC. POWER STEERING(2003-04)		√	√	√	√				
		IMMBILIZER	2003~2006				√				01.PASSWORD TEACHING/CHANGING 02.TEACHING 03.NEUTRAL MODE 04.LIMP HOME MODE
			2007~2008				√				01.SMARTRA NEUTRAL 02.PASSWORD TEACHING/CHANGING 03.TEACHING 04.NEUTRAL MODE 05.LIMP HOME MODE
		4WD(2003-04)			√	√					
		FUEL FIRED HEATER(2003-04)			√	√	√	√			
		Engine(2009)	GASOLINE EOBD	√	√	√	√	√			1.PCM AUTO DETECTION RESET 2.PCM LOCK(MEC) SETTING
			GASOLINE EOBD KWP	√	√	√	√	√			1.PCM AUTO DETECTION RESET 2.PCM LOCK(MEC) SETTING
			GASOLINE GEN	√	√	√	√	√			1.PCM AUTO DETECTION RESET 2.PCM LOCK(MEC) SETTING
			GASOLINE GEN KWP	√	√	√	√	√			1.PCM AUTO DETECTION RESET 2.PCM LOCK(MEC) SETTING
			GASOLINE LEAD	√	√	√	√	√			1.PCM AUTO DETECTION RESET 2.PCM LOCK(MEC) SETTING
			GASOLINE LEAD KWP	√	√	√	√	√			1.PCM AUTO DETECTION RESET 2.PCM LOCK(MEC) SETTING
			ΔT(2009)	GASOLINE	√	√	√	√	√		

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
		AT(2009)	GASOLINE KWP		√	√	√	√			
		ABS(2009)		√	√	√	√	√			
		SRS(2009)		√	√	√	√				
		IMMBILIZER	2004~2005				√				01.PASSWORD TEACHING/CHANGING
			2007~2009				√				01.SMARTRA NEUTRAL 02.PASSWORD TEACHING/CHANGING 03.TEACHING 04.NEUTRAL MODE 05.LIMP HOME MODE
		BCM(2009)	BODY CONTROL MODULE	√	√	√	√	√			
			DRIVER POWER WINDOW		√	√	√	√			
			PASSENGER POWER WINDOW		√	√	√	√			
			DRIVER POWER SEAT		√	√	√	√			
			TILT & TELESCOPE		√	√	√	√			
		SMART KEY SYSTEM(2009)	SMART KEY UNIT	√	√	√	√	√			
			PDM DIAGNOSTIC MODE	√	√	√	√	√			
		PERSONAL ID. CARD(2009)	INTERFACE UNIT(IFU)	√	√	√	√	√			
			SMART KEY UNIT(PIC)		√	√	√	√			
		FULL AUTOA/C(2009)		√	√	√	√	√			

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
	OPIRUS	ELEC. POWER STEERING(2009)		√	√	√	√				
		ELEC. CONTROL SUSPENTION(2009)		√	√	√	√	√			
		AHLS(2009)		√	√	√	√				
		ENGINE CONTROL (2007~2008)			√	√					1.PCM AUTO DETECTION RESET 2.PCM LOCK(MEC) SETTING
		Engine(2004~2005)	3.5L V6 EOBD		√	√	√	√			
			3.5L V6 GEN		√	√	√	√			
			2.7L		√	√					
			2007		√	√					
		AT	(2004~2005)		√	√	√	√			
			2007		√	√					
		ABS/TCS/ESP (2004~2007)			√	√	√	√			
		SRS	(2004~2005)		√	√	√				
			2007		√	√					
		BODY CONTROL MODULE(2004~2007)	BODY CONTROL MODULE	√	√	√	√	√			
	DRIVER POWER WINDOW			√	√	√	√				
	PASSENGER POWER WINDOW			√	√	√	√				

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
			DRIVER POWER SEAT		√	√	√	√			
			TILT & TELESCOPE		√	√	√	√			
			DIAGNOSE ECM TOTALY		√						
		A/C		√	√	√	√				
		ELEC. POWER STEERING		√	√						
		ELEC. CONTROL SUSPENSION		√	√						
		AHLS		√	√	√	√				
		SMART KEY	IFU	√			√	√			
	SPECTRA	Engine(All Year)	Eng. 1.5L/1.6(Non Immo)		√	√	√				
			Eng. 1.5L/1.6(W/Immo)		√	√	√				
			Eng. 1.5L/1.6 Lead		√	√	√				
		AT(All Year)		√	√	√					
		ABS(All Year)		√	√	√	√				
		SRS(All Year)		√	√						
	Engine(All Year)	CREDOS 1.8 DOHC ENG		√	√	√	√				
		CREDOS 2.0 SOHC ENG		√	√	√	√				
		CREDOS 2.0 DOHC ENG		√	√	√	√				
		CREDOS 1.8 LPG ENG		√	√	√	√				
		CREDOS 2.0 LPG ENG		√	√	√	√				
		CREDOS II 1.8 DOHC ENG		√	√	√	√				
		CREDOS II 2.0 SOHC ENG		√	√	√	√				
CREDOS II 2.0 DOHC ENG			√	√	√	√					
CREDOS II V6 ENG		√	√	√							

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
CREDOS	AT(All Year)	CREDOS 1.8 LPG AT									
		CREDOS 2.0 LPG AT									
		CREDOS II 1.8 DOHC AT		√	√	√					
		CREDOS II 2.0 SOHC AT		√	√	√					
		CREDOS II 2.0 DOHC AT		√	√	√					
		CREDOS II V6 AT		√	√	√					
	SRS(All Year)	CREDOS 1.8 DOHC SRS		√	√	√					
		CREDOS 2.0 SOHC SRS		√	√	√					
		CREDOS 2.0 DOHC SRS		√	√	√					
		CREDOS II 1.8 DOHC SRS		√	√	√					
		CREDOS II 2.0 SOHC SRS		√	√	√					
		CREDOS II 2.0 DOHC SRS		√	√	√					
	CARSTAR	Engine(All Year)	CARSTAR FBM(LPG) ENG		√	√	√				
		ABS(All Year)	CARSTAR DOHC ABS		√	√	√	√			
CARSTAR FBM(LPG) ABS				√	√	√	√				
SRS(All Year)		CARSTAR DOHC SRS		√	√	√					
	CARSTAR FBM(LPG) SRS		√	√	√						
	Engine(2008)	J2.9 WGT C/RAIL	√	√	√	√				1.ECU INITIALIZATION	
	TCU 2.9 WGT(2008)		√	√	√	√					
	IMMBILIZER(2008)					√				01.SMARTRA NEUTRAL 02.PASSWORD TEACHING/CHANGING 03.TEACHING 04.NEUTRAL MODE 05.LIMP HOME MODE	

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
	K2500	Engine(2007)	2.5L Diesel Eng. (4D56 TCI)		√	√	√	√			
		Engine(2006)	2.5L Diesel Eng. (4D56 TCI)		√	√	√	√			
		Engine(2004~2005)	2.5L Diesel Eng. (4D56 TCI)		√	√	√	√			
		Engine(2003)	2.5L Diesel Eng. (4D56 TCI)		√	√	√	√			
		Engine(2002)	2.5L Diesel Eng. (4D56 TCI)		√	√	√	√			
	Engine(2008)	1.1L VGT DIESEL CAN	√	√	√	√	√			1.ENGINE TEST FUNCTION 2.INJECTION CORRECTION	
		1.0L/1.1L EOBD CAN	√	√	√	√	√				
		1.0L/1.1L EOBD KWP	√	√	√	√	√				
		1.0L/1.1L GEN CAN	√	√	√	√	√				
		1.0L/1.1L GEN KWP	√	√	√	√	√				
		1.0L/1.1L LEAD CAN	√	√	√	√	√				
		1.0L/1.1L LEAD KWP	√	√	√	√	√			1.IDLE CO ADJUSTMENT	
	AT(2008)	GASOLINE	√	√	√	√	√			1.RESETTING ADAPTIVE VALUES	
		DIESEL	√	√	√	√	√			1.RESETTING ADAPTIVE VALUES	
	ABS/ESP(2008)		√	√	√	√	√	√			
FULL AUTO A/C(2008)		√	√	√	√	√					

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
	PICANTO (MORNING)	IMMOBILIZER	2008				√				01.SMARTRA NEUTRAL 02.PASSWORD TEACHING/CHANGING 03.TEACHING 04.NEUTRAL MODE 05.LIMP HOME MODE
		SRS(2008)		√	√	√	√				
		ELEC. POWER STEERING(2008)		√	√	√	√				
		Engine(2006~2007)	1.1L VGT DIESEL CAN		√	√					1.ENGINE TEST FUNCTION 2.INJECTION CORRECTION
			1.1L VGT DIESEL KWP		√	√					1.ENGINE TEST FUNCTION 2.INJECTION CORRECTION
		AT(2006~2007)	GASOLINE		√	√	√				
			DIESEL		√	√					
		ABS(2006~2007)		√	√	√	√	√	√		
		SRS(2006~2007)		√	√	√				√	
		ELEC. POWER STEERING(2006~2007)			√	√					1.EPS TYPE RECOGNITION
		Engine(2004~2005)	1.0L/1.1L SOHC EOBD		√	√	√				
			1.0L/1.1L SOHC GEN		√	√	√				
			1.0L/1.1L SOHC Lead		√	√	√				1.IDLE CO ADJUSTMENT
	AT(2004~2005)			√	√	√					

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions								
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else	
		IMMOBILIZER	2004~2007				√					01.SMARTRA NEUTRAL 02.PASSWORD TEACHING/CHANGING 03.TEACHING 04.NEUTRAL MODE 05.LIMP HOME MODE
		ABS(2004~2005)		√	√	√	√	√	√			
		SRS(2004~2005)		√	√	√					√	
		Engine(2007~2008)	UNLEAD 2.0L GEN	√	√	√	√	√				1.RESETTING ADAPTIVE VALUES
			UNLEAD 2.0L EOBD	√	√	√	√	√				1.RESETTING ADAPTIVE VALUES
			LEAD 2.0L ALL	√	√	√	√	√				1.RESETTING ADAPTIVE VALUES
			LEAD 1.6L GEN	√	√	√	√	√				1.RESETTING ADAPTIVE VALUES
			LEAD 1.6L EOBD	√	√	√	√	√				1.RESETTING ADAPTIVE VALUES
			LEAD 1.6L ALL	√	√	√	√	√				1.RESETTING ADAPTIVE VALUES
			DIESEL VGT	√	√	√	√	√				1.ENGINE TEST FUNCTION 2.INJECTION CORRECTION
		AT(2007~2008)	1.6 GASOLINE	√	√	√	√	√				
			2.0 GASOLINE	√	√	√	√	√				
			1.6 DIESEL	√	√	√	√	√				
		ABS(2007~2008)		√	√	√	√	√		√		
		SRS(2007~2008)			√	√	√					
		AC(2007~2008)		√	√	√	√	√				
			2.0L/1.6L GASOLINE		√	√						
			1.6L DIESEL(VGT) EURO-4		√	√						
			2.0L Diesel Eng. All	√	√	√	√	√				1.ENGINE TEST FUNCTION
			1.6L DOHC EOBD	√	√	√	√	√				

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
	CERATO (SPECTRA)	Engine(2004~2005)	1.6L DOHC general	√	√	√	√	√			
			1.6L DOHC lead-content	√	√	√	√	√			1.IDLE CO ADJUSTMENT
			2.0L DOHC (+CVVT) EOBD	√	√	√	√	√			1.RESTTING ADAPTIVE VALUES 2.VERSION CONFIGURATION
			2.0L DOHC (-CVVT) EOBD	√	√	√	√	√			1.RESTTING ADAPTIVE VALUES 2.VERSION CONFIGURATION
			2.0L DOHC (+CVVT) general	√	√	√	√	√			1.RESTTING ADAPTIVE VALUES 2.VERSION CONFIGURATION
			2.0L DOHC (-CVVT) general	√	√	√	√	√			1.RESTTING ADAPTIVE VALUES 2.VERSION CONFIGURATION
			2.0L DOHC (+CVVT) lead-content	√	√	√	√	√			1.RESTTING ADAPTIVE VALUES 2.VERSION CONFIGURATION
			2.0L DOHC (-CVVT) lead-content	√	√	√	√	√			1.RESTTING ADAPTIVE VALUES 2.VERSION CONFIGURATION
		Engine(2005)	1.5L DIESEL ALL	√	√	√	√	√			1.ENGINE TEST FUNCTION 2.INJECTION CORRECTION
		AT(2004~2007)	1.6LDOHC ALL		√	√	√	√			
			2.0LDOHC ALL		√	√	√	√			
		ABS(2004~2007)		√	√	√	√	√	√		
		SRS(2004~2007)		√	√	√				√	
		IMMOBILIZER	2004~2008				√				01.SMARTRA NEUTRAL 02.PASSWORD TEACHING/CHANGING 03.TEACHING 04.NEUTRAL MODE 05.LIMP HOME MODE
		A/C(2007)			√	√					
		BETA 2.0L	√	√	√	√	√			1.RESTTING ADAPTIVE VALUES	
		GAMMA 1.4L/1.6L	√	√	√	√	√			1.RESTTING ADAPTIVE VALUES	

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
CEE'D		Engine(2007)	U 1.6L DIESEL (- CPF)	√	√	√	√	√			1.ENGINE TEST FUNCTION 2.INJECTION CORRECTION
			U 1.6L DIESEL (+ CPF)	√	√	√	√	√			1.CPF SERVICE REGENERATION 2.INJECTOR CORRECTION 3.COMPONENT CHANGE ROUTINE 4.ENGINE TEST FUNCTION
			2.0L DIESEL(CAN) EURO-4	√	√	√	√	√			1.CPF SERVICE REGENERATION 2.INJECTOR CORRECTION 3.COMPONENT CHANGE ROUTINE 4.ENGINE TEST FUNCTION
		AT(2007)	1.4/1.6 GASOLINE	√	√	√	√	√			
			2.0 GASOLINE	√	√	√	√	√			
		ABS(2007)		√	√	√	√	√	√		1.SOLENOID VALVE TEST 2.VARIANT CODING
		SRS(2007)		√	√	√				√	
		A/C(2007)		√	√	√	√	√			
		TPMS		√	√	√	√	√			
		BODY CONTROL MODULE(2007)		√			√	√			
		IMMOBILIZER					√				01.SMARTRA NEUTRAL 02.PASSWORD TEACHING/CHANGING 03.TEACHING 04.NEUTRAL MODE 05.LIMP HOME MODE
		ELEC. POWER STEERING(2007)		√	√	√	√				

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
SOUL(2009)		ENGINE CONTROL	UNLEAD 1.6L GEN	√	√	√	√	√			1、 RESETTING ADAPTIVE VALUES
			UNLEAD 1.6L EOBD	√	√	√	√	√			1、 RESETTING ADAPTIVE VALUES
			LEAD 1.6L ALL	√	√	√	√	√			1、 RESETTING ADAPTIVE VALUES 2、 IDLE CO ADJUSTMENT
			2.0L CVVT EOBD	√	√	√	√	√			1、 RESETTING ADAPTIVE VALUES
			2.0L CVVT GEN	√	√	√	√	√			1、 RESETTING ADAPTIVE VALUES
			2.0L CVVT LEAD	√	√	√	√	√			1、 RESETTING ADAPTIVE VALUES 2、 IDLE CO ADJUSTMENT
			1.6L VGT EURO5 CPF-	√	√	√	√	√			1、 INJECTION CORRECTION
			1.6L VGT EURO5 CPF+	√	√	√	√	√			1、 INJECTION CORRECTION
		AT	GAMMA 1.6/U2 1.6 CAN	√	√	√	√	√			1、 RESETTING AUTO T/A VALUES
			BETA GASOLINE 2.0 CAN	√	√	√	√	√			1、 RESETTING AUTO T/A VALUES
		ABS/ESP		√	√	√	√	√	√		1、 SAS SENSOR ZERO SETTING
		SRS									
		BCM									
		EPS									
		IMMOBILIZER						√			02.PASSWORD TEACHING/CHANGING 03.TEACHING 04.IMMOBILIZER RESET 05.LIMP HOME MODE 06.SMARTRA NEUTRAL

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
MOHAVE/B ORREGO		ENGINE (2008)	UNLEAD 3.8L EOBD	√	√	√	√	√			1.PCM AUTO DETECTION RESET 2.PCM LOCK(MEC) SETTING
			UNLEAD 3.8L GEN	√	√	√	√	√			1.PCM AUTO DETECTION RESET 2.PCM LOCK(MEC) SETTING
			LEAD 3.8L ALL	√	√	√	√	√			1.PCM AUTO DETECTION RESET 2.PCM LOCK(MEC) SETTING
			UNLEAD 4.6L EOBD	√	√	√	√				1.RESETTING ADAPTIVE VALUES
			3.0L VGT EURO4 DIESEL	√	√	√	√	√			1.INJECTOR CORRECTION 2.COMPONENT CHANGE ROUTINE 3.ENGINE TEST FUNCTION
		AT(2008)	TCU 3.8L	√	√	√	√	√			
			ZF TCU	√	√	√	√	√			
		ABS(2008)		√	√	√	√	√	√		1.STEERING ANGLE SENSOR 2.VARIANT CODING
		IMMOBILIZER					√				01.SMARTRA NEUTRAL 02.PASSWORD TEACHING/CHANGING 03.TEACHING 04.NEUTRAL MODE 05.LIMP HOME MODE
		SRS- AIRBAG(2008)		√	√	√					1.PASS.AIRBAG REALTIME INFO. 2.CRASHING INFORMATION
		ELEC.POWER STEERING(2008)		√	√	√	√				
		IN PANEL MODULE(2008)	IPM	√	√	√	√	√			
			FAM	√	√	√	√	√			
			RAM	√	√	√	√	√			
			DDM	√	√	√	√	√			

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
			ADM	√	√	√	√	√			
		ELEC.CONTROL SUSPENTION(2008)		√	√	√	√	√			
		4WD(2008)	TOD(EPS)	√	√	√	√				
			TOD(ABS)	√	√	√	√				
			4WD(EST-MANUAL)	√	√	√	√				
		IMMOBILIZER				√					
		FULL AUTOAIR		√	√	√	√	√			
	SMART KEY SYSTEM(2008)	SMART KEY UNIT	√	√	√	√	√				
		PDM DIAGNOSTIC MODE	√	√	√	√	√				
	YN	ENG(2007~2008)	GAMMA 1.4L/1.6L	√	√	√	√	√			
		AT(2007~2008)	1.4/1.6L GASOLINE	√	√	√	√	√			
		AC(2007~2008)		√	√	√	√				
		EPS(2007~2008)		√	√	√	√				
	SORENTO R(XM)	ENG(2009)	2.4 THETA 2	√	√	√	√	√			
			3.5 LAMDA 2	√	√	√	√	√			
		AT		√	√	√	√	√			
		ABS			√	√	√	√			
AC			√	√	√	√	√				
EPS			√	√	√	√					
SRS			√	√	√	√					
BCM			√	√	√	√	√				
SMART KEY	SMART KEY UNIT	√	√	√	√	√					

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions								
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else	
		SYSTEM	PDM(POWER DISTRIBUTIN)	√	√	√	√	√				
		AHLS		√	√	√	√					
		4WD			√	√	√					
		TPMS		√	√	√	√	√				
	CADENZA (VG)	ENGINE CONTROL	UNLEADED 3.5 GASOLINE	√	√	√	√	√				
			LEADED 3.5 GASOLINE	√	√	√	√	√				
		AT		√	√	√	√	√				
	ABS		√	√	√	√	√					
	SRS		√	√	√	√						
PRIDE(05~)	PRIDE(~04)	Engine	NEW STYLE ENGINE SIEMENS		√	√	√					
	Engine	1.6 CVVT			√	√	√	√				
		1.4 DOHC				√	√	√	√			
		U 1.5L VGT DIESEL				√	√	√	√			
	AT				√	√	√	√				
	ABS			√	√	√	√	√	√			
	HYBRID	Hybrid Control(HCU)				√	√	√	√			
		Motor control(MCU)				√	√	√	√			
		Battery Control(BMS)				√	√	√	√			
	SRS			√	√	√	√					
	AC			√	√	√	√	√				
EPS				√	√	√	√					
	AT				√	√	√					
VISTO	Engine		ENGINE 0.8 SOHC		√	√	√	√				
	ABS				√	√	√	√	√			

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
		SRS			√	√	√				
	MORNING	Engine	ENGINE 1.0 SOHC		√	√	√				
		AT		√	√	√	√	√			
		ABS		√	√	√	√	√	√		
		SRS		√	√	√				√	
	AVELLA	AT			√	√					
		ABS				√	√	√			
	RIO	Engine	ENGINE 1.3/1.5 SIEMENS		√	√	√				
		AT			√	√	√				
		ABS				√	√	√	√		
		SRS				√	√				
	RIO SF	Engine	ENGINE 1.3/1.5 SIEMENS		√	√	√				
		AT			√	√	√				
		ABS			√	√	√	√	√	√	
		SRS				√	√				
	ELAN	Engine	ENGINE 1.8 DOHC BOSCH		√	√	√	√			
		SRS				√	√				
	SEPHIA	AT			√	√					
		SRS				√	√				
	SEPHIA II	Engine	ENGINE 1.5 SOHC SIEMENS		√	√	√				
			ENGINE 1.5 DOHC BOSCH		√	√	√				
			ENGINE 1.8 BOSCH		√	√	√				
		AT			√	√	√				
		ABS				√	√	√	√		
		SRS				√	√				

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
	SPECTRA(WING)	Engine	ENGINE 1.8 BOSCH		√	√	√				
			ENGINE 1.5 BOSCH		√	√	√				
		AT			√	√	√				
		ABS			√	√	√	√			
			SRS			√	√				
	SHUMA	Engine	ENGINE 1.5 SOHC SIEMENS		√	√	√				
			ENGINE 1.5 DOHC BOSCH		√	√	√				
			ENGINE 1.8 BOSCH		√	√	√				
		AT			√	√	√				
		ABS			√	√	√	√			
			SRS			√	√				
	CERATO	Engine	ENGINE 2.0 CVVT SIEMENS	√	√	√	√				
			Diesel ENG. 1.6LVGT	√	√	√	√				
			Engine 1.5/1.6 CVVT	√	√	√	√				
Engine 2.0L(MT)			√	√	√	√					
Engine 2.0L(AT)			√	√	√	√					
AT		1.5 IMPROVED TYPE (INTEGRATION)			√	√	√	√			
		1.6 L(new)	√	√	√	√					
		2.0 L(new)	√	√	√	√					
		Diesel	√	√	√	√					
ABS				√	√	√	√	√			
SRS		F/L new	√	√	√	√					
		SRS old	√	√	√	√					
AC			√	√	√	√	√				

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
CARENS	Engine(2006-)	LPI(EMS ECU)	√	√	√	√	√				
		LPI(IFB ECU)	√	√	√	√	√				
		DIESEL	√	√	√	√	√				
		AT(2006-)	LPI	√	√	√	√	√			
			DIESEL	√	√	√	√	√			
		ABS(2006-)		√	√	√	√				
		SRS(2006-)	√	√	√	√					
		A/C(2006-)	√	√	√	√	√				
		BODY CONTROL MODULE(2006-)	√			√	√				
	Engine	ENGINE 1.8 BOSCH		√	√	√					
		ENGINE 1.8 LPG MODERN AUTONET		√	√	√	√				
		ENGINE 2.0 LPG MODERN AUTONET		√	√	√	√				
		AT		√	√	√					
		ABS		√	√	√	√				
	SRS		√	√							
	CARENS II	Engine	ENGINE 1.8 LPG MODERN AUTONET		√	√	√	√			
			ENGINE 2.0 LPG MODERN AUTONET		√	√	√	√			
			ENGINE 1.8		√	√	√				
ENGINE 2.0 CVVT SIEMENS				√	√	√	√				
AT		1.8LPG/1.8 GASOLINE		√	√	√					
		2.0LPG/2.0 GASOLINE		√	√	√	√				

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
		ABS		√	√	√	√	√	√		
		SRS		√	√	√	√				
	CREDOS	Engine	ENGINE 1.8 DOHC BOSCH		√	√	√	√			
			ENGINE 2.0 SOHC BOSCH		√	√	√	√			
			ENGINE 2.0 DOHC BOSCH		√	√	√	√			
		SRS			√	√	√				
	CREDOS II	Engine	ENGINE 1.8 DOHC BOSCH		√	√	√	√			
			ENGINE 2.0 SOHC BOSCH		√	√	√	√			
			ENGINE 2.0 DOHC BOSCH		√	√	√	√			
		SRS			√	√	√				
	OPTIMA	Engine	ENGINE 1.8/2.0 MELCO		√	√	√	√			
			ENGINE 1.8 DOHC SIEMENS	√	√	√	√	√			
			ENGINE 2.5 V6 SIEMENS		√	√	√	√			
			ENGINE 2.0 LPG SIRIUS ENGINE	√	√	√	√	√			
			ENGINE 2.0 LPG BETA ENGINE	√	√	√	√	√			
		AT	1.8/2.0/2.5 ALL		√	√	√	√			
			CVT	√	√	√	√	√			
		ABS	MANDO TYPE		√	√	√	√			
			BOSCH TYPE		√	√	√	√			
		SRS			√	√	√				
		ENGINE 1.8 DOHC SIEMENS	√	√	√	√	√				

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
Korea	OPTIMA (REGAL)	Engine	ENGINE 2.0 DOHC MELCO		√	√	√	√			
			ENGINE 2.5 V6 SIEMENS		√	√	√	√			
			ENGINE 2.0 LPG BETA ENGINE	√	√	√	√	√			
		AT	2.0		√	√	√	√			
			1.8/2.5 SIEMENS	√	√	√	√	√			
			CVT	√	√	√	√	√			
		ABS	BOSCH TYPE		√	√	√	√			
	SRS		√	√	√	√					
	SPORTAGE (-97)	Engine	ENGINE 2.0 BOSCH		√	√	√	√			
	SPORTAGE (98-03)	Engine	ENGINE 2.0 BOSCH		√	√	√				
		AT			√	√	√				
		ABS			√	√	√	√	√		
	SPORTAGE (04-)	Engine	2.0 WGT EURO 3 DIESEL	√	√	√	√	√			
			2.0L CVVT SIEMENS	√	√	√	√	√			
			DIESEL		√	√	√	√			
		AT	2.0L DIESEL MELCO	√	√	√	√	√			
			2.0L DIESEL BOSCH	√	√	√	√	√			
			2.0L CVVT SIEMENS	√	√	√	√	√			
		ABS/TCS/ESP		√	√	√	√	√	√		
	A/C		√	√	√	√	√				

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions									
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else		
SORENTO	4WD			√	√	√							
		WIPER SENSOR(VVALID)		√			√	√					
		WIPER SENSOR(INVALID)		√			√	√					
	Engine	2.5L CRDI DIESEL WGT(~03)				√	√	√	√				
		2.5L CRDI DIESEL WGT(04~)				√	√	√	√				
		2.5L CRDI DIESEL WGT(05~)				√	√	√	√				
		3.5 GASOLINE				√	√	√	√				
		2.5L DIESEL(EURO3) CAN	√			√	√	√	√	√			
		2.5L DIESEL(EURO3) KWP				√	√	√	√	√			
	AT	Automatic transmission(4S)				√	√	√	√				
	ABS		√			√	√	√	√	√			
	SRS		√			√	√	√	√				
	ELEC. POWER STEERING		√			√	√	√	√				
	4WD	4WD(TOD-AUTO)				√	√						
	FUEL FIRED HEATER					√	√	√	√				
CARNIVAL/ CARNIVAL II	Engine	ENGINE 3.0 DIESEL				√	√						
		ENGINE 2.5 LPG				√	√	√	√				
	AT				√	√	√	√					
	ABS				√	√	√	√	√	√			
	SRS				√	√							

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
GRAND CARNIVAL	Engine	KJ 2.9 CRDI WGT DIESEL			√	√	√	√			
		KJ 2.9 CRDI VGT DIESEL		√	√	√	√	√			
		2.7 LPI(EMS ECU)		√	√	√	√	√			
		2.7 LPI(IFB ECU)		√	√	√	√	√			
	AT	KJ 2.9 CRDI VGT DIESEL		√	√	√	√	√			
		KJ 2.9 CRDI WGT DIESEL		√	√	√	√	√			
		2.7 LPI			√	√	√	√			
	ABS				√	√	√	√			
	SRS				√	√				√	
	A/C				√	√	√	√			
	POTENTIA	Engine	ENGINE 2.0 DOHC BOSCH			√	√				
		AT				√	√				
		ABS	ABS 5			√	√	√			
	ABS/ASR 5(TCS INCLUDED)			√	√	√					
NEW POTENTIA	Engine	ENGINE 2.0L(before 2001)			√	√					
		ENGINE 2.0L(after 2001)			√	√	√				
		ENGINE 2.5 V6 JAPAN ELECTROMOTION			√	√	√				
	AT				√	√					
	ABS	ABS 5			√	√	√				
		ABS/ASR 5(TCS INCLUDED)			√	√	√				

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
ENTERPRISE	Engine	ENGINE 2.5 V6		√	√	√					
		ENGINE 3.0 V6 JAPAN ELECTROMOTION		√	√	√					
		ENGINE 3.6 V6 JAPAN ELECTROMOTION		√	√	√					
		ENGINE 2.5 V6 BOSCH(00MY~)		√	√	√					
		AT		√	√						
	ABS	ABS 5		√	√	√					
		ABS/ASR 5(TCS INCLUDED)		√	√	√					
	SRS			√	√						
	OPIRUS	Engine	ENGINE 3.0/3.5 ETS MELCO		√	√	√	√			
			2.7L		√	√					
F/L new			√	√	√	√					
Old Lamda				√	√	√	√				
LPI(EMS ECU)redo car			√	√	√	√					
LPI(EMS ECU) delta			√	√	√	√	√				
LPI(EMS ECU)			√	√	√	√					
AT		Old Lamda	√	√	√	√	√				
		2.7/3.0/3.5 TCU		√	√	√	√				

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
		ABS			√	√	√	√			
		SRS			√	√	√				
		A/C			√	√	√	√			
		ELEC. POWER STEERING			√	√					
		ELEC. CONTROL SUSPENSION			√	√					
		AHLS		√	√	√	√				
		SMART KEY	INTERBASE UNIT (IFU)	√			√	√			
	LOTZE	Engine	1.8/2.0 & 2.4+ET		√	√	√	√			
			LPI (EMS ECU)		√	√	√	√			
			LPI (IFB ECU)		√	√	√	√			
		AT	1.8/2.0 & 2.4+ET		√	√	√	√			
			Diesel CAN BUS		√	√	√	√			
		ABS			√	√	√	√			
	SRS			√	√				√		
	BONGO III	Engine	2.5 (TCI)	√	√	√	√	√			
			2.9 (COMMON RAIL)	√	√	√	√	√			
		AT		√	√	√	√				
		ABS		√	√	√	√	√			
	RIO	2003-2005	ENG		√	√	√				
			AT		√	√	√				
ABS			√	√	√	√	√				
SRS				√	√						

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
USA Area		2001-2002	ENG		√	√	√				
			AT		√	√	√				
			ABS		√	√	√	√			
			SRS		√	√					
	SPECTRA	2006MY	ENGINE CONTROL	√	√	√	√	√			
			AUTOMATIC TRANSAXLE	√	√	√	√	√			
			BRAKE SYS(ABS/TCS)	√	√	√	√	√			
			SRS-AIRBAG	√	√	√	√				
	RONDO	2009MY	ENG	√	√	√	√	√			
			AT	√	√	√	√	√			
			ABS	√	√	√	√	√			
	OPTIMA	2009MY	ENG_2.4L(SIEMENS SYS)	√	√	√	√	√			
			ENG_01.2.7(DELPHI SYS)	√	√	√	√	√			
			AT_2.4L(SIEMENS SYS)	√	√	√	√	√			
			AT_01.2.7(DELPHI SYS)	√	√	√	√	√			
			BRAKE SYS(ABS/TCS/ESP)	√	√	√	√	√			
			SRS-AIRBAG	√	√	√	√				
			FULL AUTO AIR/CON.	√	√	√	√	√			
			BODY CONTROL MODULE	√			√	√			
	ENG	2.4 THETA 2		√	√	√	√	√			
			3.5 LAMDA 2	√	√	√	√	√			
		AT		√	√	√	√	√			
		ABS			√	√	√	√			
		AC		√	√	√	√	√			
		EPS		√	√	√	√				

KIA V41.50Diagnostics List (Note:For reference only)

Areas	Vehicle	System	Sub System	Functions							
				System Info.	Read Dtc	Clear Dtc	Data stream	Actuation	Air bleed	Impact Info.	Else
	SORENTO R(XM) (2009)	SRS	01.AIRBAG CONTROL UNIT[ACU]	√	√	√	√				
			02.WEIGHT CLASSIFICATION SYS		√	√		√			
		BCM		√	√	√	√	√			
		SMART KEY SYSTEM	SMART KEY UNIT	√	√	√	√	√			
			PDM(POWER DISTRIBUTIN)	√	√	√	√	√			
		AHLS		√	√	√	√				
		4WD			√	√	√				
TPMS		√	√	√	√	√					

(*):Tested;

(?):Manual on website(www.x431.com)

The final interpretation of the products belongs to LAUNCH TECH CO.,LTD.

CONNECTOR	X431	DIAGUN
SMART OBD	Use for the cars of 16-PIN Diagnostic socket	N/A
KIA-20	Use for the cars of 20PIN Diagnostic socket	Use for the cars of 20PIN Diagnostic socket
OBD 16C	N/A	N/A
CANBUS II	Use for the cars of 16-PIN Diagnostic socket	N/A
diagun connector	N/A	Use for the cars of 16-PIN Diagnostic socket
SUPER 16	Use for the cars of 16-PIN Diagnostic socket	N/A