

# KIA V18.0

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### 1 Vehicle models covered

Area	Model	Year
Europe/General	BESTA(TP)	1997-2003
Europe/General	CADENZA(VG)	2010-2015
Europe/General	CARENS(FJ)	2000-2007
Europe/General	CARENS(UN)	2007-2013
Europe/General	CARENS/RONDO(RP)	2014-2015
Europe/General	CARNIVAL/SEDONA(GQ)	1998-2006
Europe/General	CARNIVAL/SEDONA(VQ)	2006-2014
Europe/General	CARNIVAL/SEDONA(YP)	2015
Europe/General	Cee'd(ED)	2006-2012
Europe/General	Cee'd(JD)	2013-2015
Europe/General	CERATO(LD)	2003-2009
Europe/General	CERATO/FORTE(TD)	2009-2013
Europe/General	CERATO/FORTE(YD)	2013-2015
Europe/General	CLARUS(FE)	1998-2000
Europe/General	ENTERPRISE(DB)	1997-2002
Europe/General	JOICE(NO)	1999-2002
Europe/General	K2500/K2700/K3000/K3000S(PU)	2004-2015
Europe/General	MOHAVE/BORREGO(HM)	2009-2015
Europe/General	OPIRUS(GH)	2004-2010
Europe/General	OPTIMA HEV(TF HEV)	2013-2015
Europe/General	OPTIMA(TF)	2011-2015
Europe/General	Optima/Magentis(MG)	2006-2010
Europe/General	Optima/Magentis(MS)	2001-2006
Europe/General	PICANTO(SA)	2003-2011
Europe/General	PICANTO(TA)	2012-2015
Europe/General	PREGIO(FP)	1997-2006
Europe/General	PRIDE(PRD)	2002-2004
Europe/General	Quoris(KH)	2013-2015
Europe/General	RETONA(JL)	1998-2001
Europe/General	RIO(BC)	2000-2013
Europe/General	RIO(JB)	2005-2011
Europe/General	RIO(QBR)	2012-2015
Europe/General	RIO(UB)	2012-2015
Europe/General	SEPHIA II(FB22)	1998-2000
Europe/General	SHUMA/SPECTRA(SD)	2001-2004

Area	Model	Year
Europe/General	SORENTO(BL)	2002-2009
Europe/General	SORENTO(UM)	2015
Europe/General	SORENTO(XM)	2009-2014
Europe/General	SOUL EV(PS EV)	2015
Europe/General	SOUL(AM)	2009-2013
Europe/General	SOUL(PS)	2014-2015
Europe/General	SPORTAGE(AL)	1998-2004
Europe/General	SPORTAGE(KM)	2005-2010
Europe/General	SPORTAGE(SL)	2011-2015
Europe/General	SPORTAGE(SLE)	2011-2014
Europe/General	VENGA(YN)	2010-2015
US	AMANTI(GH)	2004-2009
US	BORREGO(HM)	2009
US	FORTE/FORTE KOUP(TD)	2010-2012
US	OPTIMA HYBRID(TF HEV)	2011-2012
US	OPTIMA(MG)	2006-2010
US	OPTIMA(MS)	2001-2006
US	OPTIMA(TF/QF)	2011-2012
US	RIO(BC)	2001-2005
US	RIO(JB)	2006-2011
US	RIO(UB)	2012-2013
US	RONDO(UN)	2007-2010
US	SEDONA(GQ)	2002-2005
US	SEDONA(VQ)	2006-2012
US	SEPHIA(FB)	1994-2001
US	SORENTO(BL)	2003-2009
US	SORENTO(XM)	2011-2013
US	SOUL(AM)	2010-2012
US	SPECTRA(LD)	2004-2009
US	SPECTRA(SD)	2000-2004
US	SPORTAGE(AL)	1995-2002
US	SPORTAGE(KM)	2005-2010
US	SPORTAGE(SL)	2011-2012

## 2 Vehicle systems covered

System	DTC	Data_List	Active_Test	Special_Func
Active Air Flap	X	X	X	
Active Hood System	X	X	X	
Air Conditioner	X	X	X	
Air Conditioner (Dual)	X	X	X	
Air Conditioner (GEN)	X	X	X	
Air Conditioner [Dual Auto Temperature Control (DATC)]	X	X	X	
Airbag (Europe)	X	X		
Airbag (Event #1)	X	X		
Airbag (Event #2)	X	X		

System	DTC	Data_List	Active_Test	Special_Func
Airbag (General)	X	X		
Airbag Control	X	X		
Airbag Control (Autonet)	X	X		
Airbag Control (Event #1)	X	X		
Airbag Control (Event #2)	X	X		
Airbag Event #1 (UB PE)	X	X		
Airbag Event #2 (UB PE)	X	X		
Airbag [Weight Classification]	X	X		
Anti - Lock Brake	X	X	X	X
Anti - Lock Brake (Bosch)	X	X	X	X
Anti - Lock Brake (Mando)	X	X	X	
Anti - Lock Brake System	X	X	X	X
Assist Door Module	X	X	X	
Assist Power Seat Module	X	X	X	
Auto Headlamp Leveling System	X	X	X	
Battery Management System [EV Battery System]	X	X	X	
Battery Management System [HEV Battery System]	X	X	X	
Blind Spot Detection	X	X	X	
Body Control Module	X	X	X	
Body Control Module (5DR)		X	X	
Body Control Module (EURO)	X	X	X	
Body Control Module (GEN)	X	X	X	
Body Control Module (KOUP)		X	X	
Body Control Module (UB PE)	X	X	X	
Body Control [Assist Door Module]	X	X	X	
Body Control [Cluster Module]	X	X	X	
Body Control [Driver Door Module]	X	X	X	
Body Control [Front Area Module]	X	X	X	
Body Control [Haptic Seat Module]	X	X	X	
Body Control [Instrument Panel Module (Leaded)]	X	X	X	
Body Control [Instrument Panel Module (North America)]	X	X	X	
Body Control [Instrument Panel Module]	X	X	X	
Body Control [Integrated Memory System]	X	X	X	
Body Control [Power Seat Module]	X	X	X	
Body Control [Power Seat]	X	X	X	
Body Control [Power Window Assistance]	X	X	X	
Body Control [Power Window Assist]	X	X	X	
Body Control [Power Window Main]	X	X	X	
Body Control [Rear Area Module]	X	X	X	
Body Control [Smart Junction Block]	X	X	X	
Body Control [Smart Junction Box]	X	X	X	
Body Control [Steering Column Module]	X	X	X	

System	DTC	Data_List	Active_Test	Special_Func
Body Control [Tilt & Telescope]	X	X	X	
Brake [ABS (C / Rail)]	X	X	X	
Brake [ABS (EURO - 3)]	X	X	X	
Brake [ABS (MEB - 2)]	X	X	X	
Brake [ABS / ESC]	X	X	X	X
Brake [ABS / ESP (MGH - 25)]	X	X	X	
Brake [ABS / ESP]	X	X	X	X
Brake [Active Hydraulic Booster]	X	X	X	
Brake [Electronic Stability Control]	X	X	X	X
Brake [Electronic Stability Program]	X	X	X	X
Brake [ESC (MEB - 2)]	X	X	X	
Brake [ESP (MEB - 2)]	X	X	X	
Central Gateway	X			X
Cluster Module	X	X	X	
Cruise Control System [Smart Cruise Control]	X	X		
Driver Door Module	X	X	X	
Driveshaft [4WD (EST)]	X	X		
Driveshaft [4WD (TOD - AUTO)]	X			
Driveshaft [4WD (TOD)]	X	X	X	
Driveshaft [4WD Control (EST)]	X	X		
Driveshaft [4WD Control (TOD)]	X	X	X	
Driveshaft [4WD Control]	X	X	X	X
Dual Clutch Transmission	X	X	X	
E - Shifter	X	X	X	
Electric Parking Brake	X	X	X	X
Electric Parking Brake [Electronic Parking Brake ]	X	X	X	X
Electronic Control Suspension	X	X	X	
Electronic Hydraulic Power Steering System	X	X	X	
Electronic Power Steering	X	X		X
Engine (C / Rail)	X	X	X	X
Engine (China)	X	X	X	
Engine (CPF - )	X	X	X	
Engine (CPF+)	X	X	X	
Engine (M / East)	X	X	X	
Engine (WGT)	X	X	X	
Engine Control	X	X	X	X
Engine Control (A / T)	X	X	X	X
Engine Control (AUS)	X	X		
Engine Control (CPF - )	X	X	X	
Engine Control (CPF+)	X	X	X	
Engine Control (ISG+)	X	X	X	
Engine Control (Low Power)	X	X	X	
Engine Control (M / T)	X	X	X	X
Engine Control (SULEV)	X	X	X	X
Engine Control (ULEV)	X	X	X	X
Engine Control - AT	X	X		

System	DTC	Data_List	Active_Test	Special_Func
Engine Control - MT	X	X		
Engine [A / T (Leaded)]	X	X	X	
Engine [A / T (Unleaded)]	X	X	X	
Engine [EURO - 3]	X	X		
Engine [Gasoline KV6]	X	X	X	
Engine [General KV6]	X	X	X	
Engine [ISG ( - ) / CPF ( - )]	X	X	X	
Engine [ISG ( - ) / CPF (+)]	X	X	X	
Engine [ISG (+) / CPF ( - )]	X	X	X	
Engine [ISG (+) / CPF (+)]	X	X	X	
Engine [Leaded All ( - CVVT)]	X	X	X	X
Engine [Leaded All (+CVVT)]	X	X	X	X
Engine [Leaded All]	X	X	X	X
Engine [M / T (Leaded)]	X	X	X	
Engine [M / T (Unleaded)]	X	X	X	
Engine [Unleaded (IMMO - )]	X	X		
Engine [Unleaded (IMMO+)]	X	X		
Engine [Unleaded (RHD) - MAF]	X	X		
Engine [Unleaded (RHD) - MAP]	X	X		
Engine [Unleaded - MAF]	X	X		
Engine [Unleaded - MAP]	X	X		
Engine [Unleaded - W / IMMO]	X	X		
Engine [Unleaded All]	X	X	X	X
Engine [Unleaded EOBD ( - CVVT)]	X	X	X	X
Engine [Unleaded EOBD (+CVVT)]	X	X	X	X
Engine [Unleaded EOBD (TiO2)]	X	X	X	X
Engine [Unleaded EOBD (ZrO2)]	X	X	X	X
Engine [Unleaded EOBD]	X	X	X	X
Engine [Unleaded EURO - 3]	X	X	X	
Engine [Unleaded EURO - 4]	X	X		
Engine [Unleaded GEN ( - CVVT)]	X	X	X	X
Engine [Unleaded GEN (+CVVT)]	X	X	X	X
Engine [Unleaded GEN]	X	X	X	X
Engine [Unleaded IMMO ( - )]	X	X		
Engine [Unleaded IMMO (+)]	X	X		
Engine [Unleaded]	X	X		
ETACS		X	X	
Front Smart Junction Box [Front Smart Junction Block]	X	X	X	
Fuel Fired Heater	X	X	X	
Head Lamp [Adaptive Front Lighting System]	X	X	X	
Head Lamp [AHLS]	X	X		X
Head Lamp [Auto Headlamp Leveling (EURO)]	X	X	X	
Head Lamp [Auto Headlamp Leveling System]	X	X	X	X
Head Lamp [Auto Headlamp Leveling]	X	X	X	

System	DTC	Data_List	Active_Test	Special_Func
Head Up Display	X			
HEV Control System	X	X		X
HEV Motor Control System	X	X	X	
Immobilizer	X	X		X
Immobilizer [IMMO (C / Rail)]		X		X
Lane Departure Warning System	X	X		
Lane Departure Warning System [Lane Departure Warning System]	X	X		
Lane Keeping Assist System	X	X		
LDWS [Blind Spot Detection]	X	X	X	
LDWS [Lane Departure Warning System]	X	X		
LDWS [Lane Departure Warning System]	X	X		
LDWS [Lane Keeping Assist System]	X	X		
Low DC / DC Converter	X	X		
Motor Control System [HEV Motor System]	X	X	X	
Motor driven Power Steering	X	X	X	
Motor Driven Power Steering	X	X		
Motor Driven Power Steering (EURO)	X	X		
Motor Driven Power Steering (GEN)	X	X		
Motor Driven Power Steering (Mobis)	X	X		
Multi Function Switch	X	X		
On Board Charger	X	X	X	
Power Seat Module	X	X	X	
Power Sliding Door	X	X		
Power Sliding Door - LH	X	X		
Power Sliding Door - RH	X	X		
Power Steering	X	X		
Power Steering (KOUP)	X	X		
Power Tail Gate	X	X		
Power Tail Gate [Power Tailgate]	X	X		
Power Trunk Module	X	X		
PSB - LH	X	X		
PSB - RH	X	X		
Rear Smart Junction Box [Rear Smart Junction Block]	X	X	X	
Smart Cruise Control	X	X		
Smart Junction Box [Smart Junction Block]	X	X	X	
Smart Key Code Saving		X		
Smart Key Code Saving (North America)		X		
Smart Key Unit	X	X	X	X
Smart Key Unit (Button)	X	X	X	X
Smart Key Unit (North America)	X	X	X	
Smart Key [Interface Unit]	X	X	X	X
Smart Key [Multiselection]	X	X	X	

System	DTC	Data_List	Active_Test	Special_Func
Smart Key [Power Distribution Module (North America)]	X	X	X	
Smart Key [Power Distribution Module (W / ESCL)]	X	X	X	
Smart Key [Power Distribution Module (W / O ESCL)]	X	X	X	
Smart Key [Power Distribution Module]	X	X	X	
Smart Parking Assist System	X	X	X	
SPAS [Smart Parking Assist System]	X	X	X	
Steering Column Module	X	X	X	
Steering Wheel Remote Control	X	X		
Steering [MDPS]	X	X		
Surround View Monitor System	X	X	X	
Suspension [NON - ECS]	X	X	X	
Tire Pressure Monitoring	X	X	X	
Tire Pressure Monitoring (North America)	X	X	X	
Tire Pressure Monitoring System	X	X	X	
Tire Pressure Monitoring [TPMS (HIGH)]	X	X	X	
TPMS [Tire Pressure Monitoring (HIGH)]	X	X	X	
TPMS [Tire Pressure Monitoring (LOW)]	X	X	X	
TPMS [Tire Pressure Monitoring System]	X	X	X	
TPMS [Tire Pressure Monitoring]	X	X	X	
Transmission [4 - Speed]	X	X	X	X
Transmission [5 - Speed]	X	X	X	X
Transmission [A / T (Europe)]	X	X		
Transmission [A / T (General)]	X	X		
Transmission [Automatic Transaxle (4 - Speed)]	X	X	X	X
Transmission [Automatic Transaxle (AUS)]	X	X		
Transmission [Automatic Transaxle (RHD)]	X	X		
Transmission [Automatic Transaxle]	X	X	X	X
Transmitter Code Saving		X		
Vehicle Motor Control System	X	X	X	

### 3 Vehicle Special Function covered

System	Special Function
Anti - Lock Brake	HCU Air Bleeding Mode
Anti - Lock Brake (Bosch)	HCU Air Bleeding Mode
Anti - Lock Brake System	HCU Air Bleeding Mode
Brake [ABS / ESC]	Longitudinal G Sensor Calibration
Brake [ABS / ESP]	Longitudinal G Sensor Calibration (HAC / DBC Only)



System	Special Function
Brake [Electronic Stability Control]	Longitudinal G Sensor Calibration (HAC / DBC Only)
Brake [Electronic Stability Control]	Longitudinal G Sensor Calibration
Brake [Electronic Stability Program]	Longitudinal G Sensor Calibration (HAC / DBC Only)
Central Gateway	Erase Network Configuration
Driveshaft [4WD Control]	Clutch Learning Reset
Electric Parking Brake	Cancel Factory Mode
Electric Parking Brake [Electronic Parking Brake ]	PAD Change Mode (Before Change)
Electric Parking Brake [Electronic Parking Brake ]	PAD Change Mode (After Change)
Electronic Power Steering	EPS Type Recognition
Engine (C / Rail)	ECU Initialization
Engine Control	ECU Initialization
Engine Control	Read VIN
Engine Control	Resetting Adaptive Values
Engine Control	Auto Detected Configuration Reset
Engine Control	Resetting E - CVVT Values
Engine Control	ISG TEST (Option)
Engine Control (A / T)	Read VIN
Engine Control (M / T)	Read VIN
Engine Control (SULEV)	Auto Detected Configuration Reset
Engine Control (SULEV)	Resetting Adaptive Values
Engine Control (SULEV)	Read VIN
Engine Control (ULEV)	Resetting Adaptive Values
Engine Control (ULEV)	Auto Detected Configuration Reset
Engine Control (ULEV)	Read VIN
Engine [Leaded All ( - CVVT)]	Resetting Adaptive Values
Engine [Leaded All ( - CVVT)]	Auto Detected Configuration Reset
Engine [Leaded All (+CVVT)]	Resetting Adaptive Values
Engine [Leaded All (+CVVT)]	Auto Detected Configuration Reset
Engine [Leaded All]	Read VIN
Engine [Leaded All]	Resetting Adaptive Values
Engine [Leaded All]	Auto Detected Configuration Reset
Engine [Unleaded All]	Read VIN
Engine [Unleaded EOBD ( - CVVT)]	Resetting Adaptive Values
Engine [Unleaded EOBD ( - CVVT)]	Auto Detected Configuration Reset
Engine [Unleaded EOBD (+CVVT)]	Resetting Adaptive Values
Engine [Unleaded EOBD (+CVVT)]	Auto Detected Configuration Reset
Engine [Unleaded EOBD (TiO2)]	Resetting Adaptive Values
Engine [Unleaded EOBD (TiO2)]	Auto Detected Configuration Reset
Engine [Unleaded EOBD (ZrO2)]	Resetting Adaptive Values
Engine [Unleaded EOBD (ZrO2)]	Auto Detected Configuration Reset
Engine [Unleaded EOBD]	Read VIN
Engine [Unleaded EOBD]	Resetting Adaptive Values
Engine [Unleaded EOBD]	Auto Detected Configuration Reset
Engine [Unleaded GEN ( - CVVT)]	Resetting Adaptive Values
Engine [Unleaded GEN ( - CVVT)]	Auto Detected Configuration Reset
Engine [Unleaded GEN (+CVVT)]	Resetting Adaptive Values
Engine [Unleaded GEN (+CVVT)]	Auto Detected Configuration Reset
Engine [Unleaded GEN]	Resetting Adaptive Values
Engine [Unleaded GEN]	Auto Detected Configuration Reset



System	Special Function
Engine [Unleaded GEN]	Read VIN
Head Lamp [AHLS]	Sensor Initialization
Head Lamp [Auto Headlamp Leveling System]	System Initialization
HEV Control System	Engine Test Off
Immobilizer	Password Teaching / Changing
Immobilizer	EMS Neutral Mode
Immobilizer	Smatra Neutral Mode
Immobilizer	Limp Home Mode
Immobilizer	Limp Home Mode
Immobilizer	Neutral Mode
Immobilizer [IMMO (C / Rail)]	EMS Neutral Mode
Immobilizer [IMMO (C / Rail)]	Limp Home Mode
Smart Key Unit	Current FOB Key Check
Smart Key Unit	ESCL OPEN STATUS CHECK
Smart Key Unit	ESCL ENABLE OUTPUT CHECK
Smart Key Unit (Button)	Current FOB Key Check
Smart Key Unit (Button)	ESCL OPEN STATUS CHECK
Smart Key Unit (Button)	ESCL ENABLE OUTPUT CHECK
Smart Key [Interface Unit]	ECM Neutralization
Transmission [4 - Speed]	Resetting Auto T / A Values
Transmission [5 - Speed]	Resetting Auto T / A Values
Transmission [Automatic Transaxle (4 - Speed)]	Resetting Auto T / A Values
Transmission [Automatic Transaxle]	Resetting Auto T / A Values
Transmission [Automatic Transaxle]	CLEAR CAN Learnable Status
Transmission [Automatic Transaxle]	Init Of TCU Learning