LANDROVER V31.50 Diagnostics List (Note:For reference only)

Year	Model	ENG TYPE	PCM	TCM/ Gear box	ABS	RCM/ SRS/ Airbag	ICCM /IP	RLCM /Air Suspension	BCM/ BODY	HVAC/Air Conditioning	VDCM	SASM /Steering	TPM	PBM	Parking assist	Parking Aid	AHCM	VICM/ Security/Immo	DDM	DSM	PDM	PSM	ATCM	TCCM/Transfer Box	ADCM	SCM	RDCM	Rain Sensor	RBCM	Light check/ Lighting	OCS	HCM	ICM	KVM	Television
1997-2006	Freelander	TD4	CDTV S1	CDTV	CDTV S2,S3	CV	CVD S4											VD S5,S6												VD					
		EMS2000	CDTV S1	CDTV	CDTV S2,S3	CV	CVD S4											VD S5,S6												VD					
		EDC Diesel	CDV	CDTV	CDTV S2,S3	CV	CVD S4											VD S5,S6												VD					
		mem3 (2001-2004)	CDTV S2	CDTV	CDTV S2,S3	CV	CVD S4											VD S5,S6												VD					
		mems1.9(before 2001)	CD S2	CDTV	CDTV S2,S3	CV	CVD S4											VD S5,S6												VD					
		Petrol MS43 KV6 (NAS V6)	CDTV S1	CDTV	CDTV S2,S3	CV	CVD S4											VD S5,S6												VD					
2007-2010	Freelander 2	Petrol I6	CDV S14,S30	CDV S14,S31	CD V S32,S22,S33,S34,S35	CDV	CDV S19,S65,S67		CDV S36,S57,S55,S56,S59	CDV S40,S41,S42		CDV			CDV		CDV		CDV S37	CDV S39	CDV S38		CDV				CDV				CDV	CDV, S66	CDV		
		Diesel I4	CDV S46,S47,S48,S49,S50,S51,S52,S53,S58,S62	CDV S14,S31	CDV S32,S22,S33,S34,S35	CDV	CDV S19,S65,S67		CDV S36,S57,S55,S56,S59	CDV S40,S41,S42		CDV			CDV		CDV		CDV S37	CDV S39	CDV S38		CDV				CDV				CDV	CDV, S66	CDV		
2011	Freelander 2	Petrol I6	CDV S14	CDV S14,S31	CDV S35,S32,S22,S33,S34	CDV	CDV S19,S65,S67		CDV S36,S55,S56,S59	CDV S40,S41,S42		CDV			CDV		CDV		CDV S37	CDV S39	CDV S38		CDV				CDV				CDV	CDV, S66	CDV		
		Diesel I4	CDV S46,S52,S48,S50	CDV S14,S31	CDV S35,S32,S22,S33,S34	CDV	CDV S19,S65,S67		CDV S36,S55,S56,S59	CDV S40,S41,S42		CDV			CDV		CDV		CDV S37	CDV S39	CDV S38		CDV				CDV				CDV	CDV, S66	CDV		
before 2007	Defender	petrol MS4	CDV	DV	CDTV																														
		GEMS NAS	CD	DV	CDTV																														
		diesel TD5	CDTV	DV	CDTV																														
2007-2010	Defender	Diesel I4 2.4L	CDV				CDV																												
2011	Defender	Diesel I4 2.4L	CDV		CDV		CDV																												
1996-1999	Discovery I	TDI 300	CDV																																
		GEMS NAS	CD																																
1999-	Discovery II	petrol m52	CDTV S1	DV	CDTV S8,S9,S10	C												DV												DV					

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2004	Discovery II	Diesel TD5	CDTV S7	DV	CDTV S8,S9, S10	C												DV												DV					
2005-2009	Discovery III	Petrol V6	CDV S14	CDV S14	CDV	CDV, S54	CDV S19	CDV S43,S44,S45	CDV S15,S16,S17	CDV	CDV S23	CDV S18	CDV ,S55, S56	CDV S20, S21, S22, S24	CDV		CDV						CDV	CDV		CDV	CDV								CDV
		Petrol V8	CDV S14	CDV S14	CDV	CDV, S54	CDV S19	CDV S43,S44,S45	CDV S15,S16,S17	CDV	CDV S23	CDV S18	CDV ,S55, S56	CDV S20, S21, S22, S24	CDV		CDV						CDV	CDV		CDV	CDV								CDV
		Diesel V6	CDV S46,S52,S58	CDV S14	CDV	CDV, S54	CDV S19	CDV S43,S44,S45	CDV S15,S16,S17	CDV	CDV S23	CDV S18	CDV ,S55, S56	CDV S20, S21, S22, S24	CDV		CDV						CDV	CDV		CDV	CDV								CDV
2010-2011	Discovery 4	3.0L Diesel V6	CDV S46,S52,S58	CDV S14	CDV S23, S35	CDV	CDV S19	CDV	CDV S55,S56,S59,S36, S63	CDV S60		CDV S18		CDV S20, S21, S22, S24	CDV		CDV	CDV	CDV S37	CDV S39, S61	CDV S38		CDV	CDV		CDV	CDV, S64				CDV S28	CDV		CDV	CDV
		2.7L Diesel V6	CDV S46,S52,S58	CDV S14	CDV S23, S35	CDV	CDV S19	CDV	CDV S55,S56,S59,S36, S63	CDV S60		CDV S18		CDV S20, S21, S22, S24	CDV		CDV	CDV	CDV S37	CDV S39, S61	CDV S38		CDV	CDV		CDV	CDV, S64				CDV S28	CDV		CDV	CDV
		Petrol V8	CDV S14	CDV S14	CDV S23, S35	CDV	CDV S19	CDV	CDV S55,S56,S59,S36, S63	CDV S60		CDV S18		CDV S20, S21, S22, S24	CDV		CDV	CDV	CDV S37	CDV S39, S61	CDV S38		CDV	CDV		CDV	CDV, S64				CDV S28	CDV		CDV	CDV
2005-2009	Range Rover Sport	Petrol V8	CDV S14	CDV S14	CDV	CDV S28,S29	CDV S19	CDV S43,S44,S45	CDV S15,S16,S17	CDV	CDV S23	CDV S18	CD, S55, S56	CDV S20, S21, S22, S24	CDV		CDV						CDV	CDV		CDV	CDV								
		Diesel V8	CDV S46,S52,S58	CDV S14	CDV	CDV S28,S29	CDV S19	CDV S43,S44,S45	CDV S15,S16,S17	CDV	CDV S23	CDV S18	CD, S55, S56	CDV S20, S21, S22, S24	CDV		CDV						CDV	CDV		CDV	CDV								
		Diesel V6	CDV S46,S52,S58	CDV S14	CDV	CDV S28,S29	CDV S19	CDV S43,S44,S45	CDV S15,S16,S17	CDV	CDV S23	CDV S18	CD, S55, S56	CDV S20, S21, S22, S24	CDV		CDV						CDV	CDV		CDV	CDV								
		Diesel V6	CDV S46,S52,S58	CDV S14	CDV S23, S35	CDV	CDV S19	CDV S43,S44,S45	CDV S55,S56,S59,S36, S63	CDV S60		CDV S18		CDV S20, S21, S22, S24	CDV			CDV	CDV S37	CDV S39, S61	CDV S38		CDV	CDV	CDV		CDV, S64				CDV S28	CDV		CDV	CDV

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Year	Model	ENG TYPE	PCM	TCM/ Gear box	ABS	RCM/ SRS/ Airbag	ICCM /IP	RLCM /Air Suspension	BCM/ BODY	HVAC/Air Conditioning	VDCM	SASM /Steering	TPM	PBM	Parking assist	Parking Aid	AHCM	VICM/ Security/Immo	DDM	DSM	PDM	PSM	ATCM	TCCM/Transfer Box	ADCM	SCM	RDCM	Rain Sensor	RBCM	Light check/ Lighting	OCS	HCM	ICM	KVM	Television
2010 - 2011	Range Rover Sport	Diesel V8	CDV S46,S52,S58	CDV S14	CDV S23, S35	CDV	CDV S19	CDV S43,S44,S45	CDV S55,S56,S59,S36, S63	CDV S60		CDV S18		CDV S20, S21, S22, S24	CDV			CDV	CDV S37	CDV S39, S61	CDV S38		CDV	CDV	CDV		CDV, S64				CDV S28	CDV		CDV	CDV
		Petrol V8	CDV S14	CDV S14	CDV S23, S35	CDV	CDV S19	CDV S43,S44,S45	CDV S55,S56,S59,S36, S63	CDV S60		CDV S18		CDV S20, S21, S22, S24	CDV			CDV	CDV S37	CDV S39, S61	CDV S38		CDV	CDV	CDV		CDV, S64				CDV S28	CDV		CDV	CDV
1995-1999	Range Rover	GEMS	CD	CV	C					CD																									
		GEMS NAS ONLY	CD	CV	C					CD																									
		EDC Diesel	CDV	CV	C					CD																									
1999-2002	Range Rover	diesel eng(2001--2002)	CDV	CDV	CDTV	C				CD																									
		Petrol eng	CDTV S1	CDTV S1	CDTV	C				CD																									
2002-2005	New RangeRover	diesel Engine	CDTV	CDTV	CDTV S11	CDV	CDV	CDTV S12,S13	CDV	CDV		CDV				CDV		CDV						CDV						CDV					CDV
		Petrol Engine	CDTV S1	CDTV	CDTV S11	CDV	CDV	CDTV S12,S13	CDV	CDV		CDV				CDV		CDV						CDV						CDV					CDV
2006	Range Rover	STR6 Diesel	CDV	CD		CDV	CDV S19	CDV S43,S44,S45	C S16	CD	C	C	CDV ,S55, S56	CDV S20, S21, S22, S24		CD	CD	CDV		CD			CDV	CDV				C S15, S25	CDV S26, S27	CD	CDV S28				CDV
		Petrol V8	CDV S14	CDV S14		CDV	CDV S19	CDV S43,S44,S45	C S16	CD	CDV S23	CDV S18	CDV ,S55, S56	CDV S20, S21, S22, S24		CD	CD	CDV		C			CDV	CDV				C S15, S25	CDV S26, S27	CD	CDV S28				CDV
2007-2009	Range Rover	Petrol V8	CDV S14	CDV S14	CDV	CDV	CDV S19	CDV S43,S44,S45	C S16	CD	CDV S23	CDV S18	CDV ,S55, S56	CDV S20, S21, S22, S24		CD	CD	CDV		C			CDV	CDV			CDV	C S15, S25	CDV S26, S27	CD	CDV S28				CDV
		Diesel V8	CDV	CDV S14	CDV	CDV	CDV S19	CDV S43,S44,S45	C S16	CD	CDV S23	CDV S18	CDV ,S55, S56	CDV S20, S21, S22, S24		CD	CD	CDV		C			CDV	CDV			CDV	C S15, S25	CDV S26, S27	CD	CDV S28				CDV
2010 -	Range Rover	Diesel V8	CDV S46,S52,S58	CDV S14	CDV S23, S35	CDV	CDV S19	CDV S43,S44,S45	CDV S55,S56,S59,S36, S63	CDV S60		CDV S18		CDV S20, S21, S22, S24	CDV			CDV	CDV S37	CDV S39	CDV S38	CDV	CDV	CDV	CDV	CDV	CDV		CDV S26, S27		CDV S28	CDV		CDV	

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2011	Range Rover	Petrol V8	CDV S14,S62	CDV S14	CDV S23, S35	CDV	CDV S19	CDV S43,S44,S45	CDV S55,S56,S59,S36, S63	CDV S60		CDV S18		CDV S20, S21, S22, S24	CDV			CDV	CDV S37	CDV S39	CDV S38	CDV	CDV	CDV	CDV	CDV	CDV		CDV S26, S27		CDV S28	CDV		CDV	

Note:

C	DTC
D	DATA DISPLAY
T	ACTION TEST
V	VERSION INFORMATION

S1:	Reset adaptions	S39:	Driver's seat calibration
S2:	Configuration	S40:	Humidity sensor replacement
S3:	Calibration 'G' Sensor	S41:	Seat heater module calibration
S4:	INTRUMENT PACK RENEWAL	S42:	Stepper motor replacement
S5:	Remote key(PLIP) programming	S43:	Air suspension height calibration
S6:	EKA display	S44:	Air suspension deflation
S7:	Read/Set Injector Grades	S45:	Air suspension deflation
S8:	Suspension configuration	S46:	Diesel particulate filter dynamic regeneration
S9:	SLS suspension calibration	S47:	Injector replacement
S10:	SLS transfer mode set	S48:	Diesel fueling adaption re-initialization
S11:	Steering column correction	S49:	Exhaust gas recirculation replacement
S12:	Height recalibration	S50:	Diesel particulate filter differential pressure sensor replacement
S13:	Headlight calibration	S51:	Diesel particulate filter air temperature sensor replacement
S14:	Adaption clear	S52:	Diesel particulate filter replacement
S15:	Rain sensor initialisation	S53:	Diesel lambda sensor replacement
S16:	Sliding roof module initialisation	S54:	Seats-Seat cover replacement
S17:	Driver's memory seat calibration	S55:	Tire pressure sensor replacement
S18:	Steering wheel angle sensor calibration	S56:	Tire pressure monitor confirmation application
S19:	Service interval reset	S57:	Security - Keyfob remote functionality
S20:	Drive the parking brake to the mounting position.	S58:	Oil service counter reset
S21:	Driver the parking brake to the latching position.	S59	Battery replacement
S22:	Longitudinal accelerometer sensor calibration	S60	Evaporator and heater test
S23:	Brake bleed.	S61	Seat entry/exit enable
S24:	Parking brake unjam procedure.	S62	Idle speed - Adjustment

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S25:	Rain sensor windshield setup										S63	Valet mode reset																							
S26:	Service mode enabled.										S64	Control module calibration																							
S27:	Service mode disabled										S65	Fuel consumption units																							
S28:	Seat cushion replacement.										S66	Headlamp control module system calibration																							
S29:	Third button configuration										S67	Message centre display contrast																							
S30:	Fuel prime routine.																																		
S31:	Gear selector sensor calibration.																																		
S32:	Lateral accelerometer calibration																																		
S33:	Pressure sensor calibration																																		
S34:	Roll rate sensor calibration																																		
S35:	Yaw Rate sensor calibration																																		
S36:	Sunroof calibration																																		
S37:	Driver's door window glass calibration																																		
S38:	Passenger's door window glass calibration																																		
	(*):Tested;																																		
	(?):Manual on website(www.x431.com)																																		
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