

Toyota V48.81 Diagnostics List (Note:For reference only)

Connector	Module	Systems	Functions							
			Sys.Info	Read Dtc	Clear Dtc	Data stream	Actuation	FREEZE	Special functions	Others
										1.Check Mode 2.Reset Memory 3.DPF Deterioration Record Clear 4.A/F Sensor Compensation Reset 5.Crank Time Compensation Reset 6.Catalyst Record Clear 7.Auxiliary pump adaptation initialization 8.Vehicle Mileage Write 9.Deceleration Sensor 0 Point Calibration 10.Electric Throttle Learning 11.Read and write VIN Code 12.Mode changes 13.Evaporative System Check 14.G sensor Zero point learning 15.Auxiliary pump adaptation initialization 16.Injector Compensation 17.Cruise control initialization 18.AT correction initialization 19.Engine control initialization 20.The acceleration sensor zero point adaptation starts 21.The CVT oil pressure adaptation starts 22.Injector correction (read/save

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			Sys.Info	Read Dtc	Clear Dtc	Data stream	Actuation	FREEZE	Special functions	Others
16PIN DLC	POWERTRAIN	ENGINE		√	√	√	√	√	1.Check Mode 2.Electric Throttle Learning 3.Evaporative System Check 4.Read VIN Code 5.Mode changes 6.Deceleration sensor 0 Point Calibration 7.Cruise control initialization 8.Auxiliary pump adaptation initialization 9.Injector Compensation 10.Reset Memory 11.AT correction initialization 12.G sensor Zero point learning 13.A/F sensor adaptation initialization 14.Engine control initialization 15.Engine setting change 16.CVT fluid pressure learn 17.DPF Deterioration Record Clear 18.A/F Sensor Compensation Reset 19.Crank Time Compensation Reset 20.Catalyst Record Clear 21.Vehicle Mileage Write 22.All Readiness	

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			Sys.Info	Read Dtc	Clear Dtc	Data stream	Actuation	FREEZE	Special functions	Others	
										23.i-ART Learning Value Reset 24.Learning Values Save 25.Learning Values Write 26.Learning Values Confirmation 27.Engine Oil Pressure Control Check 28.Learning Value Reset 29.ATF Thermal Degradation Estimate Reset 30.Shift Control Synchronization 31.Chassis Dynamometer Mode 32.iMT Installation Information Reset 33.Switch Battery Type 34.Engine History Utility 35.HICM Resistance Learning Value Reset 36.Pressure Discharge Valve Check	

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			Sys.Info	Read Dtc	Clear Dtc	Data stream	Actuation	FREEZE	Special functions	Others	
16PIN DLC	POWERTRAIN	ECT		✓	✓	✓	✓	✓	✓	1.Check Mode 2.A/T Code Reset 3.Reset Memory 4.AT Code Manual register(Japan) 5.AT Code Auto register(Japan) 6.AT Code READ&Save(Japan) 7.All Readiness 8.ATF Thermal Degradation Estimate Reset 9.CVT Oil Pressure Calibration 10.CVT ECU Initial Learning 11.A/T Code Reset 12.Deceleration Sensor Zero Point Calibration 13.CVT Oil Pressure Calibration 14.All Readiness	
16PIN DLC	POWERTRAIN	Cruise Control		✓	✓	✓					
16PIN DLC	POWERTRAIN	Engine(LH Bank)		✓	✓	✓	✓	✓	✓	1.Check Mode 2.Reset Memory	
16PIN DLC	POWERTRAIN	Engine(RH Bank)		✓	✓	✓	✓	✓	✓	1.Check Mode 2.Reset Memory	
16PIN DLC	POWERTRAIN	HV Battery		✓	✓	✓	✓	✓	✓	1.Battery control data initialization 2.Initialization	

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			Sys.Info	Read Dtc	Clear Dtc	Data stream	Actuation	FREEZE	Special functions	Others	
16PIN DLC	POWERTRAIN	Hybrid Control		√	√	√	√	√	√	1.Initialization 2.Reset Memory 3.Read VIN Code 4.Mode changes 5.Service mode 6.battery control data initialization 7.Inspection Mode 8.B1 Air Bleeding 9.HV Batt Cell Low Volt Ready ON Prevention Cancel 10.Temporary Vehicle Start Up 11.Normal Battery Stack Average Voltage Calculation 12.Prediagnostic Battery Charge 13.Battery Diagnosis 14.Battery Status Info Update 15.Idling Stop Information, 16.ROM/RAM Check	
16PIN DLC	POWERTRAIN	Sequential M/T		√	√	√	√	√	√	1.Parts Exchange 2.Mode changes	

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			Sys.Info	Read Dtc	Clear Dtc	Data stream	Actuation	FREEZE	Special functions	Others	
16PIN DLC	POWERTRAIN	Stop And Go		✓	✓	✓	✓	✓	✓	1.Starter Exchange 2.Reset A/C Information 3.ECU Exchange 4.Oil Pump Air Bleeding 5.Check Mode 6.Deceleration Sensor Zero Point Calibration 7.Deceleration Sensor Zero Point Clear 8.Integrated Current Value Initialization 9.Total Number of Engine Starts Reset	
16PIN DLC	POWERTRAIN	Multi-Mode M/T		✓	✓	✓	✓	✓	✓	1.Initialization 2.Parts Exchange 3.AT unit correction (AT code register initialization) 4.Air Bleeding	
16PIN DLC	POWERTRAIN	Radar Cruise		✓	✓	✓				1. Laser/Radar Cruise Initialization	
16PIN DLC	POWERTRAIN	Radar Cruise2		✓	✓	✓					
16PIN DLC	POWERTRAIN	Laser Cruise		✓	✓	✓				1. Laser/Radar Cruise Initialization	

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			Sys.Info	Read Dtc	Clear Dtc	Data stream	Actuation	FREEZE	Special functions	Others
16PIN DLC	POWERTRAIN	E-ACM		✓	✓	✓	✓			
16PIN DLC	POWERTRAIN	Motor Generator		✓	✓	✓				
16PIN DLC	POWERTRAIN	FCDC		✓	✓	✓				
16PIN DLC	POWERTRAIN	FC External Power Supply		✓	✓	✓	✓			1.checkmode
16PIN DLC	POWERTRAIN	FC					✓			1.H2 sensor checking 2.Coolant (fuel cell) air bleeding 3.Clear diagnostic trouble code
16PIN DLC	POWERTRAIN	FCHV					✓			1.Service mode 2.Clear diagnostic trouble code
16PIN DLC	POWERTRAIN	Idle HV		✓	✓	✓	✓			
16PIN DLC	POWERTRAIN	Engine2		✓	✓	✓	✓	✓		
16PIN DLC	POWERTRAIN	Transmission		✓	✓	✓				
16PIN DLC	POWERTRAIN	ASG		✓	✓					1.All Readiness 2.ASG System Initial Learning

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			Sys.Info	Read Dtc	Clear Dtc	Data stream	Actuation	FREEZE	Special functions	Others	
16PIN DLC	POWERTRAIN	AMT		√	√	√				1.AMT Configuration Change 2.Transmission History Utility	
16PIN DLC	CHASSIS	ABS/VSC/TRC		√	√	√	√	√	√	1.Reset Memory 2.Test Mode 3.Inspection Mode 4.Mode changes 5.Service mode 6.The yaw rate/G sensor zero point reset (for ECB) 7.Linear pump adaptation initialization 8.Clear the backup memory 9.Air Bleeding 10.Accumulator Zero Down Drive 11.Accumulator Zero Down Drive(rear) 12.Signal Check) 13.AIR BLEED 14.ECB Utility 15.ES Calibration 16.ECB 2.0/2.5 Utility 17.Brake Fluid Replacement 18.VSC Sensor Neutral Memorization 19.VSC/TR(A)C/4WD Control Prevention Mode	

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			Sys.Info	Read Dtc	Clear Dtc	Data stream	Actuation	FREEZE	Special functions	Others
16PIN DLC	CHASSIS	AHC		✓	✓	✓	✓			
16PIN DLC	CHASSIS	AIR SUSPENSION		✓	✓	✓	✓			1.Signal Check
16PIN DLC	CHASSIS	FREE TRONIC		✓	✓	✓	✓	✓		1.Air Bleeding 2.PARTS EXCHANGE(*)(?) 3.Pressure Release
16PIN DLC	CHASSIS	EHPS		✓	✓	✓	✓	✓		1. Steering Angle sensor output correction 2. STEERING Zero POINT correction(*)(?) 3. Mode changes 4. Check Mode 5. Abnormal Operation History 6. Signal Check
16PIN DLC	CHASSIS	EMPS		✓	✓	✓		✓		1.Abnormal Operation History 2.Signal Check 3.Torque Sensor Adjustment 4.STEERING Zero POINT correction 5.Mode changes 6.Check Mode 7.Steering Angle sensor output correction 8.STEERING Zero POINT correction
16PIN DLC	CHASSIS	EMS		✓	✓	✓	✓			1.Signal Check

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			Sys.Info	Read Dtc	Clear Dtc	Data stream	Actuation	FREEZE	Special functions	Others
16PIN DLC	CHASSIS	Electronic-Controlled Power Steering								
16PIN DLC	CHASSIS	VGRS		✓	✓	✓		✓	1.Abnormal Operation History 2.Steering Angle Adjust 3.Mode changes 4.Actuator angle neutral compensation 5.System lock 6.System unlocking 7.Clear the driving light fault counter 8.Signal Check	
16PIN DLC	CHASSIS	Stabilizer		✓	✓	✓			1.Clear the backup memory 2.Mode changes 3.Stabilizer System Check	
16PIN DLC	CHASSIS	Intelligent Parking Assist		✓	✓	✓				
16PIN DLC	CHASSIS	Electric Parking Brake		✓	✓	✓	✓	✓	1.Clear the backup memory	
16PIN DLC	CHASSIS	Lane Keeping Aisst		✓	✓	✓				
16PIN DLC	CHASSIS	Front Stabilizer		✓	✓	✓	✓			

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Connector	Module	Systems	Functions							
			Sys.Info	Read Dtc	Clear Dtc	Data stream	Actuation	FREEZE	Special functions	Others
16PIN DLC	CHASSIS	Rear Stabilizer		✓	✓	✓	✓			
16PIN DLC	CHASSIS	ARS		✓	✓	✓				1.Mode changes
16PIN DLC	CHASSIS	PPS		✓	✓	✓				
16PIN DLC	CHASSIS	Front Recognition Camera		✓	✓	✓				
16PIN DLC	CHASSIS	LKA/LDA		✓	✓	✓	✓			1.Recognition Camera Target Position Memory
16PIN DLC	CHASSIS	LKA/LDA (Sub)		✓	✓	✓				1.Camera Axis Adjustment 2.Camera Target Position Memory
16PIN DLC	CHASSIS	PCS/LDA/RSA/LVN		✓	✓	✓				
16PIN DLC	CHASSIS	Parking Assist Camera		✓	✓	✓				
16PIN DLC	BODY	AFS		✓	✓	✓	✓			Customize

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			Sys.Info	Read Dtc	Clear Dtc	Data stream	Actuation	FREEZE	Special functions	Others	
16PIN DLC	BODY	AIR CONDITIONER		✓	✓	✓	✓			1.Rear Cooling Unit Check 2.Blower Motor Brush Wear Amount Initialization 3. Servomotor Initialization 4.Refrigerant Gas Volume Check 5.A/C Operation Limitation History Count Clear	Customize
16PIN DLC	BODY	BACK DOOR		✓	✓	✓	✓				Customize
16PIN DLC	BODY	BODY		✓	✓	✓	✓			1.Wireless Code Registration, (*) 2.Wireless Code Erasure(*) (?) 3.ECU link message initialization 4.Wireless Door Lock Diagnosis Mode	Customize
16PIN DLC	BODY	BODY2		✓	✓	✓	✓				Customize
16PIN DLC	BODY	BODY NO3				✓	✓				Customize
16PIN DLC	BODY	BODY NO4		✓	✓	✓	✓				Customize
16PIN DLC	BODY	BODY NO5		✓	✓	✓	✓				

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			Sys.Info	Read Dtc	Clear Dtc	Data stream	Actuation	FREEZE	Special functions	Others
16PIN DLC	BODY	CLEARANCE SONAR		✓	✓	✓	✓	✓	1.Steering wheel adjustment	Customize
16PIN DLC	BODY	COMBI SW				✓				Customize
16PIN DLC	BODY	D-DOOR		✓	✓	✓	✓			Customize
16PIN DLC	BODY	D-SEAT		✓	✓	✓	✓			Customize
16PIN DLC	BODY	GATEWAY		✓	✓	✓			1. Initialization	
16PIN DLC	BODY	MIRROR				✓	✓			
16PIN DLC	BODY	MIRROR-L				✓	✓			Customize
16PIN DLC	BODY	MIRROR-R				✓	✓			Customize
16PIN DLC	BODY	OCCUPANT DETECT		✓	✓	✓			1. Zero Point Calibration 2.Sensitivity Check 3.ECU Exchange	
16PIN DLC	BODY	P-DOOR		✓	✓	✓	✓			Customize

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			Sys.Info	Read Dtc	Clear Dtc	Data stream	Actuation	FREEZE	Special functions	Others
16PIN DLC	BODY	P-SEAT		✓	✓	✓	✓			Customize
16PIN DLC	BODY	PWR SOURCE CTRL		✓	✓	✓	✓			
16PIN DLC	BODY	RAIN SENSOR		✓	✓	✓				Customize
16PIN DLC	BODY	REAR-SEAT SW				✓				
16PIN DLC	BODY	RL-DOOR MOTOR		✓	✓	✓	✓			Customize
16PIN DLC	BODY	RL-SEAT				✓	✓			Customize
16PIN DLC	BODY	RR-DOOR MOTOR		✓	✓	✓	✓			Customize
16PIN DLC	BODY	RR-SEAT				✓	✓			Customize
16PIN DLC	BODY	SLIDE ROOF		✓	✓	✓	✓			Customize
16PIN DLC	BODY	SRS AIRBAG		✓	✓	✓	✓		1.CHECK MODE(*)(?) 2.Mode changes 3.singal check	

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			Sys.Info	Read Dtc	Clear Dtc	Data stream	Actuation	FREEZE	Special functions	Others
16PIN DLC	BODY	STEERING PAD SWITCH				✓				
16PIN DLC	BODY	TILT&TELESCO		✓	✓	✓	✓	✓		
16PIN DLC	BODY	WIPER				✓	✓			
16PIN DLC	BODY	Main Body		✓	✓	✓	✓		1.Initialization 2.Wireless Code Erasure 3.Wireless Code Registration 4.ECU link message initialization 5.Wireless Door Lock Diagnosis Mode 6.Remote Door Lock Setting 7.ECU Communication ID Registration	Customize
16PIN DLC	BODY	Tvss		✓	✓	✓	✓			

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			Sys.Info	Read Dtc	Clear Dtc	Data stream	Actuation	FREEZE	Special functions	Others	
16PIN DLC	BODY	Entry&Start		✓	✓	✓	✓	✓	✓	1.Key Code Registration (*) (?) 2.Key Code Erasure (*) (?) 3.Initialization 4.Communication Check(Key Diag Mode) 5.ECU Communication ID Registration 6.Key Code Registration 3.1 7.Driver Information Registration 8.Wireless Door Lock Diagnosis Mode	Customize
16PIN DLC	BODY	Master Switch		✓	✓	✓	✓				Customize
16PIN DLC	BODY	HV Gateway		✓	✓	✓				1. Initialization	
16PIN DLC	BODY	Night View		✓	✓	✓	✓			1.Camera angle adjustment	
16PIN DLC	BODY	HL AutoLeveling		✓	✓	✓	✓			1. Height Sensor Initialization	Customize
16PIN DLC	BODY	Gateway BEAN		✓	✓						
16PIN DLC	BODY	Accessory Gateway		✓	✓	✓					

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			Sys.Info	Read Dtc	Clear Dtc	Data stream	Actuation	FREEZE	Special functions	Others
16PIN DLC	BODY	Front Left Seat A/C		✓		✓	✓			Customize
16PIN DLC	BODY	Front Right Seat A/C		✓		✓	✓			Customize
16PIN DLC	BODY	Gateway CAN		✓	✓				1. Initialization	
16PIN DLC	BODY	ECM Gateway		✓	✓	✓			1. Initialization	
16PIN DLC	BODY	ECB Gateway		✓	✓	✓			1. Initialization	
16PIN DLC	BODY	WIL Gateway		✓	✓	✓			1. Initialization	
16PIN DLC	BODY	Center Console Switch			✓	✓				
16PIN DLC	BODY	Rear Console Switch		✓	✓	✓	✓			
16PIN DLC	BODY	Rear Left Seat A/C		✓		✓	✓			Customize
16PIN DLC	BODY	Rear Right Seat A/C		✓		✓	✓			Customize

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			Sys.Info	Read Dtc	Clear Dtc	Data stream	Actuation	FREEZE	Special functions	Others
16PIN DLC	BODY	Electric Power Control		✓	✓	✓	✓	✓		
16PIN DLC	BODY	Active Headrest R		✓	✓	✓	✓			
16PIN DLC	BODY	Active Headrest L		✓	✓	✓	✓			
16PIN DLC	BODY	Combination Meter		✓	✓	✓	✓			Customize
16PIN DLC	BODY	Theft Deterrent		✓	✓	✓	✓		1.Communication Check(Key Diag Mode) 2.Key Code Erasure 3.Key Code Registration 4.Key Number Change 5.Key Number Registration 6.Wireless Code Registration 7.Wireless Code Erasure 8.Wireless Door Lock Diagnosis Mode	Customize
16PIN DLC	BODY	Pre-Crash		✓	✓	✓	✓		1.Optical axle adjustment	

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			Sys.Info	Read Dtc	Clear Dtc	Data stream	Actuation	FREEZE	Special functions	Others	
16PIN DLC	BODY	Pre-Crash 2		✓	✓	✓	✓			1.Camera/Target Position Memory 2.Camera Axis Adjust 3.Rear Radar Sensor Check 4.Rear Beam Axis Adjustment 5.Recog ECU H Temp Hist Reset 6.Control Mode 7.Fron Beam Axis Adjustment 8.Fron Beam Axis Misalignment Reading 9.Fron Beam Axis Offset Reading 10.Initialization 11.Left Lateral Radar Beam Axis Adjustment 12.Right Lateral Radar Beam Axis Adjustment	
16PIN DLC	BODY	PM1 Gateway		✓	✓	✓				1. Initialization	
16PIN DLC	BODY	PM2 Gateway		✓	✓	✓				1. Initialization	
16PIN DLC	BODY	Charging Control		✓	✓	✓	✓				
16PIN DLC	BODY	Night		✓	✓	✓	✓				

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			Sys.Info	Read Dtc	Clear Dtc	Data stream	Actuation	FREEZE	Special functions	Others
16PIN DLC	BODY	Romote Security		√	√	√	√			
16PIN DLC	BODY	CAN bus Gateway		√	√	√				
16PIN DLC	BODY	Remote Generator Start				√				Customize
16PIN DLC	BODY	Powertrain Gateway2		√	√	√				
16PIN DLC	BODY	Pedal			√	√				
16PIN DLC	BODY	Radar Cruise		√	√	√			1.Laser/Radar Cruise Initialization	
16PIN DLC	BODY	Front Left Door		√	√	√	√			
16PIN DLC	BODY	Front Right Door		√	√	√	√			Customize
16PIN DLC	BODY	Telematic		√	√	√				
16PIN DLC	BODY	P Master Switch		√	√	√	√			Customize

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			Sys.Info	Read Dtc	Clear Dtc	Data stream	Actuation	FREEZE	Special functions	Others
16PIN DLC	BODY	Blind Spot Monitor R		✓	✓	✓				
16PIN DLC	BODY	Blind Spot Monitor L		✓	✓	✓				
16PIN DLC	BODY	Active Rear Wing								
16PIN DLC	BODY	Transmission Control		✓	✓	✓		✓		
16PIN DLC	BODY	Multi Bus Gateway		✓	✓	✓				
16PIN DLC	BODY	Multi Bus Monitor No.1		✓	✓	✓			1.Initialization	
16PIN DLC	BODY	Multi Bus Monitor No.2		✓	✓	✓			1.Initialization	
16PIN DLC	BODY	Gateway V		✓	✓	✓			1.Initialization	

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			Sys.Info	Read Dtc	Clear Dtc	Data stream	Actuation	FREEZE	Special functions	Others	
16PIN DLC	ANTI THEFT	IMMOBILISER		✓	✓	✓	✓			1.Transponder Code Registration 2.Transponder Code Erasure 3.Auto Reg Closure 4.Key Code Erasure 5.Key Code Registration 6.ECU Communication ID Registration 7.Key Number Change 8.Key Number Registration 9.Transponder Code Erasure 2 10.Transponder Code Registration	
16PIN DLC	BODY	Central Gateway		✓	✓	✓					
16PIN DLC	BODY	Head Up Display		✓	✓	✓				1.Bluetooth Communication Module Information Display	
16PIN DLC	BODY	IPA/ICS/Clearance Sonar		✓	✓	✓					
16PIN DLC	BODY	PSD_RH		✓	✓	✓					
16PIN DLC	BODY	PSD_LH		✓	✓	✓					

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			Sys.Info	Read Dtc	Clear Dtc	Data stream	Actuation	FREEZE	Special functions	Others	
16PIN DLC	ANTI THEFT	steering lock		✓	✓	✓	✓			1. ECU Communication ID Registration 2. Transponder Code Registration 3. Transponder Code Erasure 4. Key Number Change 5. Key Number Registration	
17PIN TOYOTA- 17 DLC	ENGINE			✓	✓	✓					
17PIN TOYOTA- 17 DLC	SRA AIR BAG			✓	✓						
17PIN TOYOTA- 17 DLC	ECT			✓	✓						
17PIN TOYOTA- 17 DLC	ABS			✓	✓						
17PIN TOYOTA- 17 DLC	CCS			✓	✓						
17PIN TOYOTA- 17 DLC	AIR SUSPENSION			✓	✓						

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			Sys.Info	Read Dtc	Clear Dtc	Data stream	Actuation	FREEZE	Special functions	Others
17PIN TOYOTA- 17F or 22PIN DLC	ENGINE			√	√	√				
17PIN TOYOTA- 17F or 22PIN DLC	SRA AIRBAG			√	√					
17PIN TOYOTA- 17F or 22PIN DLC	ABS(available for TOYOTA-22)			√	√					

(*):Tested;

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

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