

# TRUCK DIAGNOSTIC SYSTEM



## Comparison

	Truck Diagnostic	Premium Tech Tool
Diagnostic Trouble Codes Readout	X	X
Clear Diagnostic Trouble Codes	X	X
Retrieve Vehicle Information	X	X
Learned Data Reset	Limited <i>(ref. p5)</i>	X
Manual Injector Cut-Out	X	X
Manual DPF Service Regeneration	X	X
After Treatment	Limited	X
Trip Reporting	X <i>(ref. p2-3)</i>	X
Parameter Programming	X <i>(ref. p4)</i>	X
Sensor and Parameters Monitoring	X <i>(ref. p5)</i>	X
Transmission Sensor Values	Limited <i>(ref. p5)</i>	X
Engine Sensor Values	Limited <i>(ref. p5)</i>	X
SIR Compliant	Limited <i>(ref. p5)</i>	X
IMPACT Access (Available Separately)		X
Software Download		X
Use on Warranty Repairs		X
Guided Diagnostics (US07 and Newer)		X

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## Trip Report Parameters

	Current Trip Report		Life of Vehicle (LOV) Report
Trip Header Info	Vehicle ID	VIN	
	Trip Fault Summary	Trip Fault Count	LOV Fault Count
	Active Fault Time Total	Trip Accumulated Fault Time	
	Current Odometer	Total Vehicle Distance	
	Trip Dates	Trip Start Date Trip Report Date	
Service Trip Values	Trip Totals	Trip Time	Trip Time
		Trip Distance	Trip Distance
		Trip Fuel Quantity	Trip Fuel Quantity
		Trip Fuel Economy (Calculated)	Trip Fuel Economy (Calculated)
	Driving	Trip Time Driving	Trip Time Driving
		Trip % Driving (Calculated)	Trip % Driving (Calculated)
		Trip Fuel While Driving	Trip Fuel While Driving
		Trip % Fuel While Driving (Calculated)	Trip % Fuel While Driving (Calculated)
		Trip Fuel Economy While Driving (Calculated)	Trip Fuel Economy While Driving (Calculated)
	Top Gear	Trip Average Driving Speed (Calculated)	Trip Average Driving Speed (Calculated)
		Trip Time in Top Gear	Trip Time in Top Gear
		Trip Distance in Top Gear	Trip Distance in Top Gear
		Trip Fuel in Top Gear	Trip Fuel in Top Gear
		Top Gear Fuel Economy (Calculated)	Top Gear Fuel Economy (Calculated)
	Cruise	Top Gear Average Speed (Calculated)	Top Gear Average Speed (Calculated)
		Trip Time in Active Cruise Control	Trip Time in Active Cruise Control
		Trip Distance in Active Cruise Control	Trip Distance in Active Cruise Control
		Trip Fuel in Active Cruise Control	Trip Fuel in Active Cruise Control
		Cruise Average Fuel Economy (Calculated)	Cruise Average Fuel Economy (Calculated)
	True Idle	Cruise Average Speed (Calculated)	Cruise Average Speed (Calculated)
		Trip Time Idling	Trip Time Idling
		% Time Idling During Trip (Calculated)	% Time Idling During Trip (Calculated)
		Trip Fuel Idling	Trip Fuel Idling
		% Fuel Idling During Trip (Calculated)	% Fuel Idling During Trip (Calculated)
	Qualified Idle	Trip Qualified Idle Time	Trip Qualified Idle Time
		Trip % Qualified Idle Time (Calculated)	Trip % Qualified Idle Time (Calculated)
		Trip Qualified Idle Fuel	Trip Qualified Idle Fuel
		Trip % Qualified Idle Fuel (Calculated)	Trip % Qualified Idle Fuel (Calculated)
	Sweet Spot	Trip Time in Sweet Spot	Total Time in Sweet Spot
		Trip Distance in Sweet Spot	Total Distance in Sweet Spot
		Trip Fuel in Sweet Spot	Total Fuel in Sweet Spot
		Trip Sweet Spot Fuel Economy (Calculated)	Total Sweet Spot Fuel Economy (Calculated)
		Average Speed in Sweet Spot (Calculated)	

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## Trip Report Parameters cont'd

	Current Trip Report cont'd	Life of Vehicle (LOV) Report cont'd
Vehicle Overspeed	Vehicle Overspeed Threshold Setting	Vehicle Overspeed Threshold Setting
	Trip Count Vehicle Overspeed	Total Count Vehicle Overspeed
	Trip Time Vehicle Overspeed	Total Time Vehicle Overspeed
	Trip Maximum Vehicle Overspeed	Maximum Vehicle Overspeed
		Total Distance at Overspeed
		Total Fuel at Overspeed
Vehicle Excessive Speed (Fueled)	Fueled Excessive Speed Threshold	Fueled Excessive Speed Threshold
	Trip Fueled Excessive Speed Time	Total Fueled Excessive Speed Time
Kick Down Pedal	Trip Kick Down Count	Total Kick Down Count
	Trip Kick Down Distance	Total Kick Down Distance
	Trip Kick Down Fuel	Total Kick Down Fuel
Vehicle Dynamic Events	Trip Brake Antilock Count	Total Brake Antilock Count
	Trip Brake Yaw Count	Total Brake Yaw Count
	Trip Rollover Protection Count	Total Rollover Protection Count
	Trip Traction Loss Count	Total Traction Loss Count
Vehicle Brake Events	Trip Hard Braking Count	Total Hard Braking Count
	Trip Braking Count	Total Braking Count
Engine Brake Use	Trip Engine Brake Time	Total Engine Brake Time
	Trip Engine Brake Distance	Total Engine Brake Distance
Fan Cycles	Trip Fan Cycle Count	Total Fan Cycle Count
Transmission		Transmission Time in Manual Mode
		Transmission Time in Auto Mode
		I-SHIFT Kick Down Time
		I-SHIFT Economy Distance
		I-SHIFT Power Distance
		I-SHIFT Kick Down Distance
		I-SHIFT Brake Distance
		I-SHIFT Distance (Calculate)
		Transmission % Auto (Calculate)
		Transmission % Manual (Calculate)
		Transmission % Kickdown (Calculate)
		Transmission % Braking (Calculate)
	Transmission % Economy Mode (Calculate)	
	Transmission % Power Mode (Calculate)	
Diesel Exhaust Fluid		DEF Used



## **Customer Parameter Programming**

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**Road Speed Limit**  
**Enable Cruise Control**  
**Idle Shutdown Time**  
**Parking Brake Required for PTO Operation**  
**Cruise Control Max Set Speed**  
**Cruise Control Min Set Speed**

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## Diagnosis Features

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### Sensor and Parameters Monitoring

Engine Oil Pressure  
Engine Oil Temperature  
Fuel Supply Pressure  
Engine Load  
Intake Manifold Pressure  
Intake Manifold Temperature  
Turbo Nozzle Position  
Turbo Actuator Motor Effort  
Turbo Actuator Temperature  
Coolant Temperature  
Coolant Level  
Engine Speed  
Vehicle Speed (EECU)  
Vehicle Speed (VECU)  
Accelerator Pedal Position  
Crankcase Pressure  
EECU Supply Voltage  
VECU Supply Voltage  
EGR Temperature  
EGR Mass Flow  
EGR Differential Pressure  
EGR Valve Position  
Relative Humidity  
Inlet Air Temperature  
Ambient Temperature  
Atmospheric Pressure  
Exhaust Temperature- Pre-Filter  
Exhaust Temperature- DPF Outlet  
Exhaust Temperature- DPF Flame Temperature  
DPF Differential Pressure  
Aftertreatment Injector Fuel Pressure  
DEF Pressure  
DEF Tank Temperature  
DEF Tank Level

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### Learned Data Reset

EGR Differential Pressure Sensor  
Venturi  
VGT  
EGR Cooler  
Boost Pressure Sensor  
Boost Temperature Sensor  
EGR Temperature Sensor  
Injectors  
NOx Sensors

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### Manual Injector Cut-Out

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### Manual DPF Service Regeneration

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### Diagnostic Trouble Codes Readout