

9R 4WD
VALUEMAX INSPECTION



WORK ORDER & UNIT INFORMATION

Date .	Tech	Customer	PHONE #
Work Order #	Model	Engine Hours	Serial #

A: Critical Needs Repair	B: Operational Signs of Wear	C: OK Passed	N/A Not Applicable	R: Customer Approved Repair
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	Control System	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
1	Stored Codes						Recall, Record and Clear Fault Codes.	
2	Software Updates						Recommend Updating All Software. Check Gen4 and Receiver Software.	
3	ECU Load Profile						Download ECU Profile from Service Advisor and Analyze	
4	MTG Model						Check if 2G/3G, recommend update to 4G	
5	MTG Connection						Check to see if Activation is Current .	
6	PIP'S						Check for Any Open PIP'S.	
7	Take Fluid Test Sample						Perform Fluid Sample (TY26859 – 3 sample kit)	

	Engine Section	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
8	Engine Compartment						Check for Debris/Crop Material in Hazardous Areas (Around, Turbo, Exhaust Manifold, Exhaust).	
9	Front Crankshaft Dampener						Inspect for Cracking/Damage. Recommend Replace at 5000Hrs. (13.5L)	
10	Rear Torsional Dampener						Inspect for Cracking/Damage. Recommend Replace at 4500Hrs.	

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	Engine Section Continued	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
11	Engine Valve Clearance (15L)						Recommend Valve Clearance Adjust at 3000hrs.	
12	Engine Valve Clearance (9.0L FT4 & 13.5L FT4)						Recommend Valve Clearance Adjust at 3000hrs.	
13	Engine Valve Clearance (13.5L IT4)						Recommend Valve Clearance Adjust at 2500hrs.	
14	Engine Oil Level						Check Engine Oil Level and Condition	
15	Open Crankcase Vent System (OCV)						Check for Plugging/Restrictions. Recommend New Filter at 3000hrs (15L).	
16	Engine Air Filter/Housing						Check for Damaged Housing and Proper Lid Sealing.	
17	Air Intake System						Check for Loose/Missing Hardware/Clamps, Damaged Hoses/Pipes.	
18	Head Gasket						Inspect for Oil/Coolant Leakage. Dust Collection, Paint Discoloration.	
19	Turbo Inspection						Inspect for Excessive Noise, Oil/Coolant Leakage.	
20	Turbo Actuator						Inspect Operation and Linkages.	
21	DPF Exhaust System						Inspect for Leaks, Debris, Damage and Loose or Missing Shields and Hardware.	
22	DEF System						Inspect for Leaks. Check for Def Related Fault Codes.	

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	Engine Section Continued	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
23	DPF Filter Maintenance						Check Ash Load on Machine, any Failed Regens (last 5 failed in service advisor tests), Frequent Regens (Frequent Regen Test in Service Advisor) Shouldn't be below 30 Hours.	
24	Exhaust System						Inspect for Debris, Damage and Loose or Missing Hardware.	
25	Exhaust Manifold						Inspect for Damage, Loose, Broken or Missing Hardware.	
26	Aux Drive Belt/Tensioner/ Idler						Inspect Belt for Cracks/Wear. Inspect Tensioner and idlers for failure, Loose or Missing Hardware.	
27	Engine Wiring Harness						Visually Inspect wiring for Damage and Check for Rub Points.	
28	Block Heater (If Equipped)						Check Operation of Block Heater. Check Condition of Cord.	
29	Oil Leaks						Visually Inspect for Oil Leaks.	
	Cooling System Section	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
30	Coolant						Recommend Replacing at 6 Years or 6000hrs. Drain, Flush and Refill Cooling System.	
31	Coolant Level						Check Coolant Level.	
32	Coolant Condition						Check Coolant Condition, Freeze Points using Test Strip. Recommend Checking Annually or at 1000hrs. Freeze Point *C:	

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	Cooling System Section - Continued	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
33	Hoses and Clamps						Check Hose and Clamp Condition. Check for Loose or Missing Hardware.	
34	Coolant Leaks						Inspect System for Coolant Leaks.	
35	Radiator/Cooling Package						Inspect for Debris Plugging and Damaged Fins, Leaks and Rubbing.	
36	Reservoir Cap(S)						Test Reservoir Cap PSI Recommend Replace Every 1500hrs.	
37	Thermostats						Check for Leaks at Thermostat Housing. Check for Loose, Damaged and Missing Hardware.	
38	Vari-Cool Fan Drive (9.0L & 13.5L)						Inspect for Leaks/Wear/Play. Inspect Belt condition. Recommend Lubricating Annually or Every 500hrs.	
39	Hydraulic Cooling Fan (15.0L)						Inspect for Oil Leaks at Fan Motor, Pump and Lines.	
40	Cooling Fan						Inspect for Damaged Fan Blades, Shroud for Loose or Missing Hardware.	
41	Water Pump						Inspect Weep Hole for Leakage (9.0L & 13.5L) and Seal for Leakage (15L).	
	Fuel System Section	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
42	Fuel Leaks						Inspect Fuel System for Leaks. Check for Loose/Missing Hardware.	

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43	Fuel Tank and Sump						Inspect for Leaks.		
44	Fuel Tank Vent						Inspect for Plugging and Buildup of Dirt/Debris. Recommend Replace Every 1500hrs.		
45	Fuel Water Separator						Inspect for Leaks. Recommend Cleaning Every 500hrs or as Needed.		
46	Fuel Transfer Pump						Check for Leakage and Operation.		
47	Aftertreatment Fuel Injector (15L)						Recommend Cleaning Injector Every 1500hrs.		
	Electrical System Section	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments	
48	Battery Condition						Test Batteries.	V: CCA: V: CCA: V: CCA:	
49	Battery Cables/Ends						Inspect Battery Cables for Damaged/Loose Connections.		
50	Dual Beam Radar						Inspect for Damage and Debris. Recommend Checking Every 500Hrs.		
51	Alternator Charging System						Check Alternator Charging Output. Inspect for Damage and Loose Connections.		
52	Lights/Turn Signals						Check Operation of all Lights. Field Lights, Warning Lights and Turn Signals.		
53	Neutral Start System						Check operation of Neutral Start System.		
54	Starter Terminal Guard						Check to Ensure Starter Terminal Guard is in Place.		

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55	Starter Operation						Check Operation of Starter. Check for Loose Connections.	
56	Starting Aid (If Equipped)						Check Operation of Starting Aid.	
57	Wiring Harness						Inspect Machine Wiring Harness for Damage, Wear Points and Rubbing.	
	Power Train Section	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
58	Transmission/ Hydraulic Oil Level.						Check Transmission/Hydraulic Oil Level and Condition.	
59	System Pressure						Check Transmission System Pressure PSI:	
60	Lube Pressure						Check Transmission Lube Pressure PSI:	
61	Transmission Element Leak Test						Check PTO, Park Brake and Diff Lock for Leak Down.	
62	PTO Clutch and Brake (If Equipped)						Check PTO Clutch PSI: and Brake PSI :	
63	Transmission Breather						Inspect for Plugging.	
64	Transmission Operation						Check Transmission Shifting Forward/Reverse. Note Rough, Abnormal and Delayed Shifting.	
65	Transmission Park						Check Park System Recommended Every 250hrs	

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	Power Train Section - Continued	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
66	Transmission Sump Screen						Recommend Checking/Cleaning Sump Screen Every 1500hrs.	
67	Telescoping Drive Shafts						Inspect Drive Shafts and Universal Joints for Wear and Damage.	
68	PTO Drive Shaft						Inspect Drive Shafts and Universal Joints for Wear and Damage.	
	Steering and Brakes Section	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
69	Brake Operation						Check Brake Operation Every 250hrs.	
70	Steering Operation						Ensure Steering Operation Functions Correctly.	
71	Steering Drift						Check Steering Operation for Drift.	
72	Steering Motor, Cylinder and Hoses						Inspect for Leaks, Damage, Loose or Missing Hardware.	
73	Steering Valve						Inspect for Leaks and Check Operation.	
74	Steering Pin/Bushings						Inspect for Loose, Worn and Damaged Pins and Bushings.	
75	Steering Cylinders and Hoses						Inspect for Leaks, Worn and Damaged to Cylinders and Hoses.	
76	Hinge Pins						Inspect for Loose, Worn and Damaged Pins and Bushings.	
	Hitch and Hydraulic System Section	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
77	Hydraulic Pump Flow Test from SCV's						AS PER OPERATIONS AND TESTS MANUAL	

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78	Main Hydraulic Pump Standby Pressure							Standby PSI :
79	Main Hydraulic Pump Stall Pressure							Stall PSI :
80	Selective Control Valves (SCV)						Check Operation of SCV's.	
81	SCV Couplers						Check for Damage and Leaking Couplers. Check for Coupler Leak Down.	
82	Hydraulic Leaks						Check Hydraulic System for Leaks.	
83	Hydraulic Lines, Hoses and Clamps						Check for Damaged Lines/Hoses. Check for loose, Missing Clamps and Hardware.	
84	Rear Hitch (if Equipped)						Check Operation of Rear Hitch Raise/Lower. Lubricate Every 250hrs.	
85	Rear Hitch Draft Sensor (if Equipped)						Lubricate Every 250hrs.	
	Operator Station Section	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
86	Air Conditioning							
87	Operation						Check Operation of A/C System.	
88	Condenser						Check for Debris and Plugging.	
89	System Charge							
90	Heater Operation						Check Heater Operation.	
91	Blower Motor						Check Operation of Blower Motors.	
92	Instruments/ Indicator Lights						Check Operation of Indicators and Warning Lights	

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93	High and Low Idle Speeds							Low: RPM High: RPM	
94	Cab Door						Check Operation of Cab Door.		
95	Cab Body						Inspect for Damage to Cab, Cab Panels, Door, Windows, Roof.		
96	Cab Body Mounting						Check for Loose Cab Mount Hardware.		
97	Mirrors						Check Mirror Function. Check for Damage to Mirror Glass and		
98	ROPs								
99	Seat Belts						Check for Damage, Wear, or Improper Function of Seat Belts.		
100	Seat Operation						Check Full Function of Seat Operation, check Heated Seat Operation.		
101	Operator Presence Switch						Check Operation of Operator Out of Seat Switch (Safety).		
102	Wipers and Washers						Function Test Wipers and Washer Motors and Nozzles.		
103	Wipers						Inspect Wiper Blade/Arm Condition.		
104	AM/FM Radio						Test Radio function		
105	Horn						Test Horn Operation.		
106	Operators Manual						Is Operators Manual Present		
	Service Item Section	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments	
107	Engine Air Filter						Inspect Engine Air Filters. Recommend Replacing Annually or as Needed.		
108	Engine Oil and Filter						Recommend Replace Oil and Filter 400hrs (15L) and 500hrs (9.0L & 13.5L)		

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	Service Item Section -	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
109	Fuel Filters						Recommend Replacing Filters 400hrs (15L) and 500hrs (9.0L & 13.5L)	
110	Diesel Exhaust Fluid (DEF) Tank Header Filter						Recommend Replace at 1500hrs and Every 3 Years or 4500hrs.	
111	Diesel Exhaust Fluid (DEF) Dosing Unit Filter						Recommend Replacing Every 4500hrs or 3 Years.	
112	Diesel Exhaust Fluid (DEF) Tank Vent						Recommend Replacing Every 1500hrs	
113	Transmission/ Hydraulic/Axle Oil						Recommend Replacing Every 1500hrs.	
114	Transmission/ Hydraulic Filters						Recommend Replacing Every 1500hrs.	
115	Axle Lube Filter						Recommend Replacing Every 1500hrs.	
116	Cab Filter Fresh Air						Recommend Replacing Annually or Every 1000hrs.	
117	Cab Filter Recirculation						Recommend Replacing Annually or Every 1000hrs.	
118	Grease Unit							
	Misc. Section	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
119	Wheels and Tires						Inspect Wheels for Cracks and Damage. Check Tire Pressures	
120	Wheels and Weights						Recommend Checking and Torquing Wheels and Weight Hardware Every 500hrs	
121	Axle End Play						Recommend Checking Axle End Play Every 1500hrs	
122	Gudgeon						Inspect Gudgeon for Excessive Movement	

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123	Drawbar and Support						Check for Damage and Loose or Missing Hardware. Recommend Tightening Every 500hrs	
124	Drawbar Pin						Note if Draw Pin is Present and Condition of Drawbar Pin.	
125	Frame and Weights						Recommend Checking Front and Rear Weight Support Brackets and Weight Hardware Torque.	
126	Fire Extinguisher (if Equipped)						Check for Proper Mounting and Charge of Extinguisher.	
127	PTO Shield						Inspect for Damage, Loose or Missing Hardware. Ensure Shield is Installed Properly.	
128	Safety Decals						Check for Missing and Damaged Safety Decals.	
129	SMV Sign						Inspect for Missing or Damaged SMV Sign	
130	Battery Disconnect						Check function of Battery Disconnect.	
131	Tow Cable						Check Condition of Tow Cable, Check for Loose or Missing Hardware.	
132	CAT5 to CAT 4 Drawbar Adapter Kit						Check for Condition of Adapter, Drawbar Pin and for Loose or Missing Hardware.	

