

S Series Combine Valuemax Inspection



Work Order & Unit Information

Date	Tech	Customer		Phone #
Work Order #	Model	Serial #	Engine Hours	Seperator Hours

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 Section	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
1	Stored Codes						Recall, Record and Clear Fault Codes.	
2	Active Codes						Recall, Record Active Fault Codes.	
3	Software Updates						Recommend Updating All Software. Check Gen4 and Reciever Software.	
4	ECU Load Profile						Download ECU Profile from Service Advisor and Analyze.	
5	MTG Model						Check if 2G/3G, recommend update to 4G.	
6	MTG Connection						Check to see if Activation is Current .	
7	PIP'S						Check for Any Open PIP'S.	
8	Take Fluid Test Sample						Perform Fluid Sample (TY26860 – 4 sample kit).	
	Feederhouse Section	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
9	Feeder House Frame						Inspect Feeder House Frame for Cracks, Wear and Damage.	

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	Feederhouse Section - Continued	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
10	Feederhouse Drive Chain, Sprockets, Idlers and Guides						Inspect Components for Chain Stretch, Sprocket Damage and Hooking, Damaged or Worn Bearings, Worn Idlers and Damaged or Worn Guides.	
11	Back Shaft Speed Sensor & Wiring						Inspect Speed Sensor, Tone Wheel and Wiring for Loose or any Damage.	
12	Feederhouse Slip Clutch						Inspect Slip Clutch for damage, Missing or Damaged Cotter Pin, Loose Nut and Slip Clutch for any Play.	
13	Feeder House Top Shaft Drive						Inspect Pulley and Bearings for Damage and Wear.	
14	Conveyor Chain, Plastic Chain Guides & Eyebolt						Inspect for Damaged or Stretched Conveyor Chain (chain pitch 41mm) Check for Cracked/Broken Slats Damaged Chain links and Connectors, Worn Plastic Chain Guides, Worn or Broken Eye bolts and Mounting Hardware.	
15	Reverser/Header Drive Spline Shaft						Inspect Splined Shafts on Both sides for Wear, Sharp Edges and Damage.	
16	Reverser Gearcase Operation, Oil Level/Change						Inspect Operation of Feederhouse Reverser. Check Oil Level and I Oil Needs Changed. Check for Leaks. Recommend Oil Change at 800HRS.	

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17	Reverser Drive Belt						Check Belt for Cracks and Wear Damage that Could Lead to Failure.	
18	Reverser Drive Belt Tensioner						Inspect Tensioner Idlers and Bearings for Wear, Inspect J-bolt Rod, Bushings for Wear, Damage and Tensioned Properly.	
19	Lower Variable Sheaves, Idlers and Bearings						Inspect Sheaves for Wear, Check for Failed or Damaged Idlers and Bearings.	
20	Single Point Coupler						Inspect Couplers and Hoses Leaks, Inspect Wiring Harness for Damaged Pins and Wiring.	
21	Single Point Header Latch/ Cable						Inspect Header Latch Pins for Binding, Damage and Broken Shear Bolts. Inspect Cable for Damage and Function.	
22	Feederhouse Drum						Inspect Drum for Wear Ring Damage, Severe Dents and Holes. Check for Failed Bearings, Damaged or Worn Supports. Inspect Drum Adjustment Bolts, Stops and Pins for Looseness and Damage.	
23	Front Feederhouse Floor						Inspect Front Floor Sheet for Damage.	
24	Main Feederhouse Floor						Inspect Main Floor for Holes and Damage.	
25	Hinged Curved Feed Plate						Inspect for Holes, Bent and Adjustment.	

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26	Stone Trap Door						Inspect Stone Trap for holes, Damage to Door and Linkage. Check for Proper Door Adjustment and Fitment.	
27	Feederhouse Reverser Cooler						Inspect fittings and cooler lines for leaks.	
28	Check Shoe Auger Backlash						Check for .76MM of Backlash on Bevel Gears.	
29	Shoe Auger Shaft and Keys						Check for Worn Shoe Augers, Inspect for Worn Shoe Auger Shaft and Keys.	
30	Shoe Auger Bearings						Inspect Shoe Auger Bearings Front and Rear for Failed Bearings. Check for Rough, Dry Sounding or Hard to Turn Bearings.	
31	Shoe Auger Speed Sensor and Wiring						Inspect Speed Sensor, Tone wheel and Wiring for Damage.	
32	Cleaning Shoe Augers						Auger- Worn to 1mm, Sharp Edges or Damaged.	
33	Cleaning Shoe Auger Troughs						Inspect Trough for Wear and Damage. Check for Loose or Missing Hardware.	
34	Feederhouse Lift Cylinder Supports and Pivots						Inspect for Damage to Pins, Missing Cotter Pins. Check for Damage to Feederhouse Cylinder Safety Stop.	
35	Feederhouse Lift Cylinders						Inspect for Leaking or Damaged Cylinders, Hoses and Fittings.	
36	Top Door Seal						Inspect Top Door Seal for Damage and Adjustment.	

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37	Feederhouse Pivots						Inspect Feederhouse Pivots, Bushings and Mounting Hardware for ware, damaged and or looseness.	
38	Top Shaft, Bearings, Sprockets & Stripper plates						Inspect for Damage and Wear on Shaft and Sprockets, Rough or Failed Bearings. Top Sprocket Spec 12mm Wear.	
39	Contour Master Cylinder & Hoses						Check for Oil Leaks at Hoses and Cylinders.	
40	Feederhouse Fore/Aft Cylinder & Hoses						Check for Oil Leaks at Hoses and Cylinders.	
41	Contour Master Wear Pads						Inspect for Damage and Wear at Wear Pads and Mounting Hardware.	
42	Feederhouse Position Sensor & Wiring						Inspect Feederhouse Position Sensor, Wiring and Linkages for Wear and Damage.	
43	Feederhouse Fore/Aft Position Sensor & Wiring						Inspect Feederhouse Fore/Aft Position Sensor, Wiring and Linkage for Wear and Damage.	
44	Contour Master Position Sensor & Wiring						Inspect Contour Master Position Sensor, Wiring and Linkage for Wear and Damage.	
	Transmission/Final Drive Section	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
45	Transmission – Drive Shafts, Hoses & Couplers						Inspect Drive Shaft, Couplers for Wear at Splines and Snap Rings, Hoses for Leaks and Wear.	
46	Transmission Oil Level & Condition. (3 Speed Machines Only)						Check Oil Level and Oil Condition.	

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47	Final Drives						Inspect Final Drive Oil Level and Condition. Check for Leaks at Housing, Input Shaft Seal and Pinion Seal Cap. Check for Failed Bearings. Recommend Oil Change at 2000Hrs	
48	Front Wheels & Tires						Inspect Wheel for Broken or Damaged Bolts, Inspect for Damaged Rims and Tires, Check Tire Pressures.	
49	Hydro Motor Housing, Lines and Fittings						Inspect Housing for Damage and Leaks. Check Wiring for Damage, Check Lines and Hoses for Leaks and Wears Spots from Rubbing	
	Feed Accelerator (FAST) Section	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
50	Feed Accelerator Drive Belt						Inspect Drive Belt for Cracks and Wear Damage That Could Lead to Failure.	
51	Feed Accelerator Tension Arm, Spring & Idler						Inspect for Damage To Tension Arm, Spring, Idler and Bearings.	
52	Feed Accelerator – Wings & Bearings						Inspect for Bent, Missing and Damaged Wings and Failed Bearings. Check for Missing and Damaged Hardware.	
53	Stamped Style Wing						Note Wing Style	
54	Gusset Style Wing						Note Wing Style	
55	Feed Accelerator Wear Strips						Inspect for Damaged and Missing Wear Strips. Check for Missing and Damaged Hardware. 8mm Thick 51mm Height.	

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56	4"x2" Serrated Wear Strip Wing						Note Wing Style	
57	4"x3" Serrated Wear Strip Wing						Note Wing Style	
58	9" Serrated Wear Strip Wear Strip						Note Wing Style	
59	Plastic Dust Shroud						Inspect for Wear, Holes and Missing Hardware. Make Sure Shroud is Installed Correct.	
60	Front Rotor Bearing, Speed Sensor & Wiring						Inspect Front Rotor Bearing for Failure, Rough Sound and Loose or Missing Hardware. Check Rotor Speed Sensor, Tone Wheel and Wiring for Damage.	
61	Tri Flow Feed Ramp						Inspect for Damage, Holes and Missing or Worn Hardware.	
62	Front Feed Flights						Inspect for Worn or Damaged Outer Edges and Hardware.	
63	Rear Feed Flights						Inspect for Wear or Damage. Worn When Casting Number on Rear Flight Wears Off.	
	Left Hand Side Section	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
64	Batteries – Cables & Connections. (S680, S690, S780, S790)						Inspect Battery Cables for Damaged/Loose Connections.	
65	Battery Condition						Test Batteries. V: CCA: V: CCA: Check Batteries Individually.	

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66	Electric Clutch & Brush Module						Inspect Electric Clutch for Bushing Wear and Play. Check Rubber Strap and Brush Module. Check for Loose Or missing Hardware.	
67	Primary Countershaft 90* Gear Case						Check Oil Level & Condition. Check for Damage and Oil Leaks. Check for Missing or Loose Hardware and Mounting Bolts. Recommend Service Oil Annually.	
68	Drive Shaft						Inspect Drive Shaft for Damage, Loose or Missing Hardware and Inspect Steady Bearing and Mounts.	
69	Engine to 90* Gearcase U-Joints						Inspect for Failed or Damaged Universal Joints.	
70	Front End Drive Belt						Inspect Belt for Cracks and Wear Damage that Could Lead to Failure.	
71	Reel Pump & Bearing						Inspect Reel Drive Pump for Leaks and Bearings for Wear or Failure. Check for Loose or Missing Hardware.	
72	Cleaning Fan, Housing, Fins, Bearings, Speed Sensor & Wiring						Inspect Cleaning Fan Housing and Fins for Wear, Cracks and Missing or Loose Hardware. Check for Failed Bearings. Inspect Speed Sensor and Tone Wheel for Damage or Loose Hardware. Check for Damaged Wiring.	

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73	Cleaning Shoe Pitman Arms, Hangers, Bolts, Bearings and Bushings						Inspect for Broken or Damaged Pitman Arms and Hangers. Inspect Bolts for Damage and Loose Hardware. Check for Failed Bearings and Bushings.	
74	Clean Grain Speed Sensor and Wiring						Inspect for Failed Speed Sensor and Check for Damage to Wiring and Connector.	
75	Tailings Auger Speed Sensor and Wiring						Inspect for Failed Speed Sensor and Check for Damaged to Wiring and Connector.	
76	Hydraulic Stack Valve & Accumulator						Check for Oil Leaks and Wiring, Connector Damage.	
77	Separator Frame						Inspect for Cracks, Alignment and Any Other Damage. Check for Loose, Damaged or Missing Hardware.	
78	Concave Inserts						Inspect for Damage and Missing Hardware.	
79	Top Covers-Feeding, Threshing & Separating						Inspect for Holes, Worn Through and Loose or Missing Hardware.	
80	Plastic Threshing & Separator Covers						Inspect for Missing Covers, Seals, Locking Pins and Latches.	
81	Separator Side Rail						Inspect for Bent or Cracked Side Rails. Check for Loose or Missing Hardware.	
82	Rotor Mid Plate						Inspect for Damage and Missing or Loose Hardware.	

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83	Concave Actuator Motor, Gears & Linkage (Standard Concaves)						Inspect Actuator, Linkage and Gears. Check Wiring and Connectors for Damage.	
84	Remove & Install Concave						Remove Concaves to Inspect Rotor and Threshing Element Condition. Inspect for Damage, Loose or Missing Hardware.	
85	Small Wire Concave						Inspect Small Wire Concaves for Damage or Wear to Bars and Nails. Spec. 38mm Bars Less than 34mm.	
86	Small Wire Interrupt Bars						Spec. 19mm Less than 15mm. Inspect for Wear and Damage.	
87	Large Wire Concave						Spec. 38mm Less than 34mm. Inspect for Wear and Damage.	
88	Howard Concaves							
89	Sunny Brook Concave							
90	Standard Concave Level & Calibration						Recommend Checking and Performing Standard Concave Level & Calibration.	
91	Active Concave Level & Calibration						Recommend Checking and Performing Active Concave Calibration.	
92	Filler Plates						Check for Damage and Missing or Loose Hardware.	
93	Bulkhead Cracks						Inspect for Cracks and Damage. Check for Loose or Missing Hardware.	

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94	Threshing Elements						Inspect for Damaged, Missing or Loose Elements. Check for Wear Spec. 18mm Std. 24mm Rice Std. Trailing Edge is Worn to 13mm - Check Using KXE10110 Clearance Gauge.	
95	Separator Grates						Inspect for Damage or Missing Grates. Check for Loose or Missing Hardware.	
96	Separator Grate Covers						Inspect for Damage or Missing Grate Covers.	
97	Separator Tines						Inspect for Broken or Missing Tines. Spec. 124mm. Less than 110mm (Measure on the Rear edge of Tine from Base)	
98	Separator Loss Monitor, Pads & Wiring						Inspect Loss Pads to Make Sure they are Working. Inspect Wiring and Connectors for Wear or Damage.	
99	Separator Shaker Pan						Inspect for Damage, Bending, Cracking and Loose or Missing Hardware.	
100	Unloading Auger Sump, Bevel Drive Gears & Bearings (Open Gearcase Only)						Inspect for Leaks and Failed Bearings. Check for Missing or Loose Hardware.	
101	Unloading Auger Sump Outer Bearing						Inspect for Failed Bearings and Check for Loose or Missing Hardware.	
102	Unloading Auger Drive Chain, Sprockets & Guides						Inspect Chain for Stretching and Wear to Guides and Sprockets. Check Adjustment. Spec. Chain 3% Elongation.	

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103	Unloading Auger Jackshaft, Pulleys & Bearings						Inspect Bearings and Pulley for Wear. Check for Loose and Missing Hardware.	
104	Unloading Auger Drive Belts, Tensioner, Guides & Cylinder						Inspect Belts for Cracks and Wear Damage That Could Lead to Failure. Check Tensioner, Guides and Cylinder for Wear, Damage Loose or Missing Hardware. Check for Oil Leaks.	
105	Shoe & Service Lights						Check Light Operation Ensure all Lights are Working.	
106	Chopper Raise & Lower & Actuators						Check to Make sure Chopper Raises and Lowers all the Way. Check for Loose or Missing Hardware. Inspect Wiring and Connectors for Damage.	
107	Chop to Drop (If Equipped)						Inspect for Damage and Check Operation.	
108	Rotor Drive Belt						Inspect Belt for Damage, Stretch, Wear.	
109	Rotor Variable Sheaves- Grease & Cycle Through Range						Inspect Rotor Sheave Gap 8mm. Check for Full Range of Operation. Check for Leaks.	
110	Rotor Speed Shift Lever						Inspect Lever Ensure Lever Will go into all Positions. Check for Loose or Missing Pins/Cotter Pins.	
111	Left Hand Fuse Panel – Seal. (S680, S690, S780, S790)						Inspect Fuse Panel Cover and Seal for Proper Installation. Check Wiring and Connectors for Damage.	

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112	Hydro Cable (Non-Pro Drive)						Inspect Cable for Damage and Loose hardware.	
113	Discharge Beater Bearings						Inspect for Damaged or Failed Bearings and Loose or Missing Hardware.	
114	Discharge Beater Belt & Sheaves						Inspect for Cracks and Wear Damaged to Belt That Could Lead to Failure. Inspect Sheaves for Wear and Damage.	
115	Discharge Beater Wings & Wear Strips						Inspect for worn or Damaged Wings and Wear Strips. Spec. 4.5mm, 50mm Hight. Replace when Wear Strips Looses Original Hight. Check for Loose or Missing Hardware.	
116	Discharge Beater Speed Sensor & Wiring						Inspect Sensor and Wiring for Operation and Check for Damaged Wiring and Connectors.	
117	Discharge Beater Grate						Inspect for Damage to Grate. Check for Loose or Missing Hardware.	
118	Left Steering Cylinder & Tie Rod						Inspect for Damage and Leaks, Check for Loose Tie Rod Ends and Loose or Missing Hardware.	
119	Left Rear Axle Spindles						Inspect Spindles for Play.	
120	Wheel Bearings & Seals						Inspect for Failed Wheel Bearings and Damaged Seals.	
121	Left Rear Wheel & Tire						Inspect wheel for Broken or Damaged Bolts, Inspect for Damaged Rims and Tires, Check Tire Pressures.	

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122	Power Rear Wheel Assist, Hoses & Fittings						Inspect for Leaks.	
123	Blower Drive Belt, Pulleys & Tensioner						Inspect Belt for Cracks and Wear Damage That Could Lead to Failure. Check Pulley, Idler and Tensioner for Damage and Failed Bearings.	
124	Blower Air Filter & Plumbing						Inspect Filter for Cleanliness and Check Cover and Plumbing for Proper Seal and for Loose and Missing Hardware.	
125	Gull Wings & Gas Cylinders						Inspect for Damage to Gull Wings. Check Latches for Proper Adjustment and Loose or Missing Hardware. Inspect Gas Shock for Leaks and Ensure it Holds Up Gull Wing.	
126	Chopper Upper Jackshaft Drive Belts						Inspect Belt for Cracking and Wear Damage That Could Lead to Failure.	
127	Chopper Speed Sensor & Wiring						Inspect Sensor and Wiring for Operation and Check for Damaged Wiring and Connectors.	
128	Chopper Engage Tension Arm & Idler Pulley						Inspect for Damaged Tension Arm and Idler Pulley. Check for Failed Bearings.	
129	Chopper Drive Belt, Idler & Bearings						Inspect Belt for Cracking and Damage That Could Lead to Failure. Check Idler and Bearings for Failure, Wear and Missing Hardware.	

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	Chopper							
130	Tail Board & Vanes						Inspect for Bent and Cracks on Tail Board. Check for Damaged Vanes and Loose, Missing or Worn Hardware.	
131	Chopper Rotor & Bearings						Inspect for Failed bearings. Check for Loose or Missing Hardware.	
132	Chopper Hammers						Inspect Chopper Hammers for Wear. Check for Worn, Missing or Damaged Hardware.	
133	Housing & Knife Bank						Inspect Housing for Holes and Damage. Check for Loose or Missing Hardware. Inspect Knife Bank for Wear, Broken or Missing Knives.	
Powercast Tailboard								
134	Spreader Disks & Rubber Flaps						Inspect for Wear and Damage. Check for Loose or Missing Hardware.	
135	Spreader Hydraulic Motor, Hoses & Fittings						Inspect for Leaks, worn or Rubbing Hoses. Check Speed Sensor Operation and Wiring and Connector for Wear and Damage.	
136	Spreader Frame						Inspect for Cracks and Bent Components.	
Advance Powercast								
137	Fingers						Inspect for damage, Loose or Missing Fingers and Hardware.	
138	Hydraulic Motor, Hoses & Fittings						Inspect for Leaks, Worn or Rubbing Hoses. Check Speed Sensor Operation and Wiring and Connector for Wear and Damage.	

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139	Shroud Movement						Inspect to Make Sure Shroud Moves. Check for Loose or Missing Hardware. Check Wiring and Connectors	
	Shoe /Chaffer Area							
140	Cob Deflector Door						Inspect for Wear and Damage. Ensure the Door Moves Freely. Check for Missing or Damaged Hardware.	
141	Shoe Loss Monitors & Wiring						Inspect Loss Pads to Make Sure they are Working. Inspect Wiring and Connectors for Wear or Damage.	
142	Adjustable Pre-Chaffer						Inspect for Wear and Damage. Check for Alignment, Loose or Missing Hardware.	
143	Non- Adjustable Pre- Chaffer						Inspect for Wear and Damage. Check for Alignment, Loose or Missing Hardware.	
144	Sieve & Chaffer Louvers						Inspect for Bending or Damage to Louvers. Check for Cracks.	
145	Sieve & Chaffer Adjustment Gauges/Factory						Check that Display Matches Actual Shoe Setting.	
146	Sieve & Chaffer Frames						Inspect for Cracks on Sieve and Chaffer Frames. Check for Broken, Damaged, Loose or Missing Hardware.	
147	Sieve & Chaffer Seals						Inspect Rubber Seals for Tearing and Damage.	

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	Right Hand Side Section	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
148	Batteries, Cables, Connections & Fluid Level. (S670 AND S770)						Load Test Batteries, Check Fluid Levels. Inspect Cables and Cable Ends for Corrosion and Damage.	
149	Right Hand Fuse Panel – Seal. (S670, S770)						Inspect Fuse Panel Cover and Seal for Proper Installation. Check Wiring and Connectors for Damage.	
150	Right Hand Fuse Panel – Seal. (S670, S770)						Inspect Fuse Panel Cover and Seal for Proper Installation. Check Wiring and Connectors for Damage.	
151	Gull Wings & Gas Cylinders						Inspect for Damage to Gull Wings. Check Latches for Proper Adjustment and Loose or Missing Hardware. Inspect Gas Shock for Leaks and Ensure it Holds Up Gull Wing.	
152	Cab Wall Electrical Connectors						Inspect Connectors and Wiring at Outer Right Hand of Cab Wall.	
153	Primary Countershaft and Bearings						Inspect Bearings and Shaft for Wear and Possible Failure.	
154	Front Countershaft Belt, Tensioner & Pulleys						Inspect Belt for Cracks and Wear Damage That Could Lead to Failure. Check Tensioner and Pulleys for Damage and Loose or Missing Hardware.	
155	Rear Countershaft Belt, Tensioner & Pulleys						Inspect Belt for Cracks and Wear That Could Lead to Failure. Check Tensioner and Pulleys for Damage and Loose or Missing Hardware.	

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156	Top Covers- Feeding, Threshing & Separating						Inspect for Holes, Worn Through and Loose or Missing Hardware.	
157	Plastic Threshing & Separator Covers						Inspect for Missing Covers, Seals, Locking Pins and Latches.	
158	Separator Side Rail						Inspect for Bent or Cracked Side Rails. Check for Loose or Missing Hardware.	
159	Concaves & Hangers						Inspect for Damage and Wear. Check for Loose or Missing Hardware.	
160	Separator Grates						Inspect for Damage or Missing Grates. Check for Loose or Missing Hardware.	
161	Cleaning Shoe Pitman Arms, Hangers, Bolts, Bearings & Bushings						Inspect for Broken or Damaged Pitman Arms and Hangers. Inspect Bolts for Damage and Loose Hardware. Check for Failed Bearings and Bushings.	
162	Shoe Fan Housing, Fins & Bearings						Inspect Cleaning Fan Housing and Fins for Wear, Cracks and Missing or Loose Hardware. Check for Failed Bearings. Inspect Speed Sensor and Tone Wheel for Damage or Loose Hardware. Check for Damaged Wiring.	
163	Shoe, Fan & Conveyor Auger Belt, Idlers, Tensioners & Pulley						Inspect Belt for Cracks and Wear Damage That Could Lead to Failure. Check for Failed Bearings and Loose or Missing Hardware and Damage to Tensioner, Idler and Pulley.	

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164	Cleaning Fan Variable Belt						Inspect Belt for Cracks and Wear Damage That Could Lead to Failure.	
165	Cleaning Fan Variable Sheaves						Inspect for Wear and Damage to Sheaves. Check for Loose or Missing Hardware.	
166	Cleaning Fan Adjustment Motor, Linkage						Inspect Actuator, Linkage and Gears for Wear and Damage. Check Wiring and Connectors for Damage.	
167	Tailings Elevator Return Auger Drive Chain (S670 and S770)						Inspect Chain for Stretch Spec. 3% Elongation. Check for Worn Sprockets, Loose or Missing Hardware.	
168	Active Tailings (S680, S690, S780, S790)						Inspect Chain, Sprockets and Hex Shafts for Wear, Damage and Loose or Missing Hardware.	
169	Active Tailings Wear Bars						Inspect for Wear and Damage to Bars. Check for Loose or Missing Hardware.	
170	Upper Auger Flighting						Inspect Flighting for Wear and Sharp Edges.	
171	Upper Auger Housing for Cracks & Wear						Inspect for Cracks and Holes in housing.	
172	Active Tailings Zero Concave Adjustment						Adjust Active Tailings Concave to Zero.	

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	Right Hand Side Section - Continued	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
173	Tailings Elevator Return Auger, Bearings & Boot						Inspect for Worn, Sharp Edges on Auger. Check for Damaged or Failed Bearings. Check for Worn or Cracked Boot. Spec. 3mm Thick, 67mm Height. Replace: Auger- Worn to 1mm, Sharp Edges or Damaged.	
174	Tailings Elevator Slip Clutch						Inspect Slip Clutch for Wear and Damage. Check for Loose or Missing Hardware.	
175	Tailings Elevator Paddle Chain & Sprockets						Inspect Chain for Stretch. Check Paddles for Wear and Damage. Inspect Sprockets for Wear and Hooking.	
176	Tailings Elevator Monitor Sensor & Wiring						Inspect Wiring Harness and Connectors.	
177	Clean Grain Drive Belt & Idlers						Inspect Belt for Cracks and Wear Damage that Could Lead to Failure. Check Idlers for Wear and Failed Bearings.	
178	Clean Grain Elevator Chain, Paddles						Inspect Chain for Stretch. Check Paddles for Wear Spec. 78mm x 151mm Replace: 3mm Wear 75mm x 148mm.	
179	Clean Grain Elevator Chain Sprockets and Bearings						Inspect Sprockets and Bearings for Wear and Damage.	
180	Clean Grain Elevator Housing & Boot						Inspect for Cracks and Holes in housing and Boot.	

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	Right Hand Side Section - Continued	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
181	Clean Grain Auger & Bearings						Inspect Clean Grain Auger for Wear and Sharp Edges. Check for Rough or Failed Bearings. Spec. Auger-Worn to 1mm, Sharp Edges or Damage.	
182	Green Star Moisture Sensor & Wiring						Inspect Wiring Harness and Connectors.	
183	Grain Quality Monitor							
184	Tailings Elevator Monitor Sensor & Wiring						Inspect Wiring Harness and Connectors.	
185	Overshot Beater Drive Belts & Idler (Alignment & Wear) if equipped						Inspect Belt for Cracks and Wear Damage that Could Lead to Failure. Check Alignment of Pulleys. Check Idler Bearings.	
186	Overshot Beater Bearings						Inspect for Failed Bearings, Check for Loose or Missing Hardware.	
187	Overshot Beater Wear Strips						Inspect for Damaged and Missing Wear Strips. Check for Missing and Damaged Hardware.	
188	Check Operation of Variable Stream Vanes						Cycle Vanes from Standard to Advance and Check Operation.	
189	Grain Tank Unloading Cross Auger Bearings						Inspect for Rough and Failed Bearings. Check for Loose or Missing Hardware.	
190	Right Steering Cylinder & Tie Rod						Inspect for Damage and Leaks, Check for Loose Tie Rod Ends and Loose or Missing Hardware.	
191	Right Rear Axle Spindles						Inspect Spindles for Play.	

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	Right Hand Side Section - Continued	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
192	Wheel Bearings & Seals						Inspect for Failed Wheel Bearings and Damaged Seals.	
193	Right Rear Wheel & Tire						Inspect wheel for Broken or Damaged Bolts, Inspect for Damaged Rims and Tires, Check Tire Pressures.	
194	Power Rear Wheel Assist, Hoses & Fittings						Inspect for Leaks.	
	Engine Compartment Area	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
195	Ladder						Inspect Ladder for Damage and Functionality. Check for Loose or Missing Hardware.	
196	Rotary Screen, Tensioner & Belt						Inspect Belt for Cracked and Damaged Belt that Could Lead to Failure. Inspect Rotary Screen and Tensioner for Damage.	
197	Rotary Screen Propeller Bearings						Inspect for Rough and Failed Bearings. Check for Loose and Missing Hardware.	
198	Rotary Screen Jackshaft, Bearings & Belt						Inspect for Rough and Failed Bearings. Check Belt Alignment and Condition. Check Tensioner for Loose or Missing Hardware and Proper Set up.	
199	After Cooler & Fins						Inspect for Damaged and Plugged Fins. Recommend Washing Out.	
200	Check Oil Cooler & Fins						Inspect for Damaged and Plugged Fins. Recommend Washing Out.	

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	Engine Compartment Area - Continued	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
201	Check Fuel & Oil Coolers						Inspect for Damaged and Plugged Fins. Recommend Washing Out.	
202	Lines for Oil Cooler & A/C						Inspect Lines for Leaks and Rubbing.	
203	Coolant Level						Check Coolant Level. Recommended Service at 2000hr or 6 Years.	
204	Thermostats						Inspect for Leaks at Housing and Hoses.	
205	Engine Air Filter & Aspirator						Inspect for Dirty and Plugged Filter and Aspirator. Recommended Service Replace as Required or Annually.	
206	Vacuum Fan/Belt, Tensioner and Idlers						Inspect Vacuum Fan Belt for Cracks or Damage that Could Lead to Failure. Inspect Tensioner and Idler Bearings for Failure.	
207	Alternator & Fan Drive Belts						Inspect Belt for Cracks or Damage that Could Lead to Failure.	
208	Alternator & Fan						Inspect Brackets for Cracks and Damage. Inspect for Damaged or Loose Fan Blades and Components.	
209	A/C Belt						Inspect Belt for Cracks or Damage that Could Lead to Failure	
210	Water Pump						Inspect Water Pump for Signs of Leakage.	
211	Engine Oil Level						Check Engine Oil Level.	

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	Engine Compartment Area - Continued	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
212	Engine Oil & Filter						Recommend Oil/Filter Change. Recommended Service at 250Hrs When Not Using Plus 50 II Oils. 400Hrs When Plus 50 II Oil and John Deere Filters Used.	
213	Engine Front Seal						Inspect for Oil Leaks at Front Engine Seal.	
214	Engine Crankshaft Dampener						Inspect for Cracks and Damage to Dampener. Recommended Service at 4500Hrs or 5 Years.	
215	Valve Lash Adjustment						Recommended Service at 2000Hrs.	
216	Radiator/Hose & Clamps						Inspect for Leaks at Radiator, Hoses and Clamps. Check for Bent Fins. Recommend Washing Out Radiator.	
217	ECU - Connections/Seals						Inspect ECU Connectors for Damaged Connectors and Wiring. Ensure Locking Tabs are in Place.	
218	Open Crankcase Vent System (OCV)							
219	Fuel Filters						Recommended Service at 400Hrs. Clean Separator Bowl and Fuel Pre-Cleaner Filter.	
220	DEF Dosing Pump Filter						Service Interval 4500Hrs or 3 Years. Recommend Annually.	
221	DEF Tank Vent						Recommend Replace Annually.	
222	Ether Can						Check Operation and Replace if Required.	
223	Heater Hoses						Inspect Hoses for Leaks and Potential Wear Spots.	

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	Engine Compartment Area - Continued	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
224	Inspect Turbocharger						Inspect for Leaks, Worn Linkages, Seized Linkages.	
225	Inspect Exhaust Manifold/Bolts/Gaskets						Inspect for Exhaust Leaks, Broken Bolts.	
226	DPF Exhaust System						Inspect for Damage, Loose or Missing Hardware.	
227	DPF Hardware, Wiring & Shield						Inspect for Loose or Missing Hardware. Check for Damage to Shields and Wiring.	
228	Check all Hoses & Clamps						Inspect Hoses and Clamps for Leaks and Potential Wear Spots.	
229	Hydraulic Reservoir Level & Condition						Inspect Oil Level and Oil Condition. Recommended Service at 2000Hrs.	
230	Main Engine Gearcase Oil Level and Condition						Inspect Oil Level and Oil Condition. Recommended Service at 1000Hrs.	
231	Hydraulic Pump Stack and Control Housing						Inspect Pump Stack and Control Valve for Leaks, Loose or Rubbed Lines and Fittings.	
232	Hydrostatic Pump						Inspect Pump, and Lines for Leaks.	
233	Main Engine Gearcase Seal						Inspect for Oil Leak at Gearcase Seal.	
234	Rear Engine Dampener							
235	Two Speed Gearcase - Oil Level & Condition						Inspect Oil Level and Condition. Recommended Service at 2000Hrs.	
236	Fuel Tank Breather – Clean						Inspect Vent and Replace. Recommended Service at 400Hrs.	

A: Critical Needs Repair		B: Operational Signs of Wear		C: OK Passed		N/A Not Applicable		R: Customer Approved Repair
	Grain Tank Section	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
237	Bin Extensions & Tank						Inspect for Loose or Missing Hardware. Check for Damage to Extensions.	
238	Check Operation of Folding Covers if Equipped						Check for Operation of Folding Hopper. Check Linkages for Proper Adjustment, Loose or Missing Hardware and Damage. Ensure Loading Auger is Tight Against Housing.	
239	Grain Sample Trough						Inspect for Damage to Trough. Make Sure Trough is Installed in Correct Position.	
240	Grain Tank Light, Level Switch & Wiring						Check Operation of Grain Tank Light and Grain Tank Level Switches. Inspect Wiring and Connectors for Damage.	
241	Grain Tank Loading Auger, Housing, Bearing & Driver						Inspect Loading Auger for Sharp Edges and Damage. Check for Failed Bearing and Loose or Missing Hardware. Inspect Loading Auger Driver for Wear. New Spec. Auger-4.5mm thick, 95mm Height. Replacement Spec. Auger-Worn 1mm or to Sharp Edge.	
242	Upper Clean Grain Elevator Top Shaft, Sprockets, Bearing and Housing						Inspect for Worn Upper Top Sprockets and Loose or Missing Hardware. Inspect Housing for Wear. Inspect for Failed Bearings and Worn Top Shaft.	

A: Critical Needs Repair		B: Operational Signs of Wear		C: OK Passed		N/A Not Applicable		R: Customer Approved Repair
	Grain Tank Section - Continued	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
243	Clean Grain Elevator Impact Plate, Greenstar Mass Flow Sensor						Inspect Impact Plate for Damage to Plate and Wiring. Make Sure Plate is Clean. Check Wiring for Mass Flow Sensor and Ensure it Cycles.	
244	Loading Auger Gearcase						Inspect for Leaks and Check Gearcase Oil Level and Condition.	
245	Cross Augers, Top Covers & Floor						Inspect for worn Cross Augers and Floor. Check for Loose or Missing Hardware. New Auger Spec. Auger-(STD) 3.4mm thick (HD) 4.8mm Thick Replacement Spec. Auger-Worn 1mm or to Sharp Edge.	
246	Unload Auger Anti Dribble Door						Inspect Door for Proper Operation. Check for Loose or Missing Parts.	
247	Unload Auger Sump Clean Out						Inspect Both Sides for Loose or Missing Plates, Seals and Bolts.	
248	Vertical Auger & Housing						Inspect Auger for Wear and Sharp Edges. Check Housing for Holes and Damage. New Spec. (STD) 6mm Thick (HD) 6.6mm Thick 110mm. Replace When Worn to a Sharp Edge.	
249	90* Gear Case						Check Mounting Hardware for Loose or Missing Bolts.	
250	Horizontal Auger & Housing						Inspect for Worn or Sharp Edges on Augers. Check Housing for Wear. New Auger Spec. 4.5mm Thick 95mm Height. Replacement Spec. Worn to 1mm or to Sharp Edge	

A: Critical Needs Repair		B: Operational Signs of Wear		C: OK Passed		N/A Not Applicable		R: Customer Approved Repair
	Cab Section	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
251	Cab Ladder						Inspect Ladder for Damage and Loose or Missing Hardware. Check to Make Sure Ladder Functions Properly.	
252	Cab Roof						Inspect for Cracks and Damage to Roof. Check for Loose or Missing Hardware.	
253	Mirrors						Inspect Mirrors Operation. Check for Cracks and Damage to Mirrors and Mirror Mounts.	
254	Cab Air Filter-Pre-Cleaner, Air Filter & Recirculating Filte						Inspect Filters. Recommend Replacement if Dirty. Check for Proper Sealing.	
255	Windshield Wiper Fluid Level						Check Washer Fluid Level.	
256	Lights-All Outside Lights & Functions, Dome Light, Warning Lights						Inspect all Lights for Proper Operation.	
257	Backup Alarm & Cab Alarm Buzzer						Check for Backup Alarm and Warning Buzzer Operation.	
258	Climatrak - Defrost, Temp Control, Fan Speed						Check for Fan Speed Operation. Check to Make Sure Temperature goes from Hot to Cold. Check Defrost Operation and Air Blows Out all Vents.	
259	Radio & Speakers						Check Radio and Speaker Operation. Ensure all Speakers are Working	

A: Critical Needs Repair		B: Operational Signs of Wear		C: OK Passed		N/A Not Applicable		R: Customer Approved Repair
	Cab Section - Continued	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
260	Windshield Wipers & Fluid Operation						Inspect Wiper Blade Condition. Ensure Wipers & Washer Fluid Pump are Working.	
261	Sun Visor						Inspect Sun visor Condition.	
262	Steering Column						Inspect Steering Column Tilts and Steering Wheel Telescopes. Check for any Binding and Damage to Column.	
263	Horn						Check Horn Operation.	
264	Parking Brake						Check Parking Brake Operation. Make Sure Park Brake Holds and No Active Fault Codes	
265	Steering Brakes						Check Steering Brake Operation. Check Oil Reservoir Level and for Leaks.	
266	Refrigerator Operation						Check Fridge to Make Sure it is Cooling.	
267	Operator's Manual						Check to Ensure Operator's Manual is Present.	
268	Corner Post/ Command Center						Check Operation of Cornerpost and Armrest Display.	
269	Auxiliary Power Strip						Check for Power Strip Operation on Key, Constant Power and Ground.	
270	VisionTrak Display / Command Center							

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	Cab Section - Continued	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
271	Active Header Control Display						Check for Icons on Corner Post. Header Height Resume, Header Height Sensing, Lateral Tilt Control, Reel Position Resume, Active Header Float, Feeder House Fore/Aft Tilt.	
	Console	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
272	Hydro Handle						Check Operation of Hydro Handle. Make sure Moves Forward and Reverse.	
273	Header Raise/ Lower, Corn Head Back Shaft Speed, Reel Raise/Lower, Reel Fore Aft.						Check Feeder House Raise/Lower Operation. Reel Raise/Lower, Reel Fore/Aft. Lateral Tilt and Feeder House Fore/Aft. If No Header is Attached Check if Codes are Displayed.	
274	Unload Auger Swing						Check That the Unload Auger Swings out and in all the Way	
275	Unload Auger Engage						Check to Make Sure Unload Auger Engages and Dis Engages with Switch.	
276	Emergency Stop						Test the Yellow Emergency Stop Switch to Make Sure it Stops the Feeder House and Separator.	
277	Neutral Safety Switch						Test the Neutral Safety Switch Operation. Place Hydro Handle in Forward and Reverse and see if Combine Starts.	

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	Console - Continued	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
278	Auto Trac Operation						Test Auto Trac Operation. (Need Receiver and Display to Test). Ensure Combine will Pick up the Line and Run Straight with Auto Trac Engaged. Make sure it Disengages When Steering Wheel is Turned.	
279	Header Engage						Make Sure Header Engages and Disengages when Switch is Turned on and off.	
280	Separator Engage						Make Sure Separator Engages and Disengages when Switch is Turned on and off.	
281	Rotor Speed Adjust						Check to Make Sure Rotor Speed Adjusts from Min to Max Rotor Speed.	
282	Concave Adjust						Check to Make Sure Concave Adjusts from Full Min to Full Max Adjustment.	
283	Cleaning Fan Speed Adjust						Check to Make Sure Cleaning Fan Adjust from Min to Max Fan Speed.	
284	Chaffer/Sieve Adjust						Check Sieve and Chaffer Adjust from Cab Ensure Fully Close and Open.	
285	Spreader Speed Adjust						Check Spreader Speed adjustment from the Cab.	
286	Engine Rpm's 3 Buttons						Check Operation of Push Button Throttle. Ensure it Operates on All 3 Speeds.	
287	Transmission Speed Ranges						Make Sure Transmission Shifts to all Gears.	

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	Console - Continued	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
288	Air Seat						Check Air Seat Operation. Make Sure Seat Raises and Lowers with Switch.	
	Safety Section	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
289	All Safety Shields in Place						Check to Make Sure all Safety Shields are in Place and Note Missing Shields.	
290	Safety Decals in Place and Readable							
291	Feederhouse Safety Stop Operational							
292	Ladder Safety Chains in Place							
293	Road Disconnect Switch							
294	Operator Presence Switch							
295	Gullwing Door Lock Pins in Place						Inspect Gull Wings for Damage. Check to Make Sure Latches are Working and not Damaged. Make Sure Lock Pins are Present.	
296	Backup Alarm						Check Back Up Alarm Operation.	
297	Fire Extinguisher Charged & In Correct Location						Inspect Fire Extinguishers for Proper Operation, Charge and Damage to Gauge, Tank and Handle. Check to Make Sure they are In Correct Locations.	
298	Seat Belts - Operator & Instructional Seat						Check Seat Belt Operation. Make Sure it Locks and Unlocks with No Issue.	

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	Service Item Section	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
299	Engine Air Filters						Inspect Engine Air Filters. Recommend Replacing Annually or as Needed.	
300	Engine Oil and Filter						Recommend Replace Oil and Filter 500hrs When John Deere Plus50II is Used and 250hrs When other oils are used.	
301	Diesel Exhaust Fluid (DEF) Tank Header Filter						Recommend Replace at 1500hrs and Every 3 Years or 4500hrs.	
302	Diesel Exhaust Fluid (DEF) Dosing Unit Filter						Recommend Replacing Every 4500hrs or 3 Years.	
303	Diesel Exhaust Fluid (DEF) Tank Vent						Recommend Replacing Every 1500hrs.	
304	Fuel Filters						Recommend Replacing Every 500hrs.	
305	Hydraulic Oil						Recommend Replacing Every 1000hrs.	
306	Hydraulic and Hydrostatic Filters						Recommend Replacing Every 1000hrs.	
307	Hydro Charge Filter (ProDrive)						Service at 400Hrs	
308	Hydro Charge Filter (Non						Service at 400Hrs.	
309	Main Hydraulic Filter (In Hydraulic Reservoir)						Service at 1000Hrs	
310	Pro Drive Filter (RH Front of Combine)						Service at 400Hrs.	
311	Main Engine Gearcase Oil & Filter (S670)						Service at 400Hrs.	

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	Service Item Section - Continued	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
312	Hydraulic Filter (S670)						Service at 400Hrs.	
313	Overshot Beater Gearcase Oil Level						Check Oil Level and Condition of Oil. 400hr Service Interval.	
314	Cab Filter Fresh Air						Recommend Replacing Annually or Every 1000hrs.	
315	Cab Filter Recirculation						Recommend Replacing Annually or Every 1000hrs.	
	Misc. Installed Options Section	A	B	C	N/A	R	Repair/Replace/ Adjust	Comments
316	Camera System						Check Camera Operation. Make Sure all Cameras are Working.	
317	Toolbox						Check for Toolbox. Make Sure it is With Machine or if Customer Has it.	
318	Static Drag Chain/ Cable						Inspect Drag Cable for Damage and Proper Installation. Recommend New Cable if Damaged or Missing.	
319	Remote Front Grease Lines						Check to Make sure Grease Lines are Installed. Recommend Installing if Missing.	
320	Upgrade to HP Chaffer						Recommend HP Chaffer Upgrade.	