



STS COMBINE JOHN DEERE INSPECTION

CUSTOMER					COMBINE INFORMATION		
Name:				Work Order:		Serial Number:	
Address:						Engine Hours:	
City:						Separator Hours:	
Phone:				Date:		Warranty End Date:	
Control System	CONDITION			Customer OK's Repair	Recommended Service Intervals (Annual *)	Recommended Service, Inspection Specification, Additional Information	Comments
	OK	Repair / Replace	Needs Adjusted				
Fluid test kit - TY26860							
Stored Codes						Record & Clear all Stored Codes	
ECU Load Profile (if equipped)						Download ECU profile, analyze & review with customer.	
Feeder House Area	CONDITION			Customer OK's Repair	New Specification	Replacement Specification	Comments
	OK	Needs Replaced	Needs Adjusted				
Safety Shields							
Feeder House Drive Chain, Sprockets, Idlers & Guides						Chain - 3% Elongation	
Back Shaft Speed Sensor & Wiring Harness							
Slip Clutch							
Reverser/Header Drive Spline Shaft, Hoses, Couplers & Wiring							
Drum - Wear Ring, Bearings, Supports, Stops & Pins						Wear ring is damaged or worn through	
Floor Sheet & Seal							
Feed Plate						Worn through the hinges	
Stone Trap							
Feeder House Reverser Cooler							
Hydro Motor - Housing & Fittings							
Shoe Auger - Front Bearings & Bevel Gears					Bevel Gears Backlash - 0.76mm		
Shoe Auger - Drive Shaft & Bearings							
Reverser Control Linkage & Cable							
Lift Cylinders, Hoses, Pins & Safety Stop							
Lift Cylinder Support & Pivots						= 78mm + Bottom of bracket to bottom hole = 16mm less	
Transmission - Drive Shaft, Hoses & Couplers							

Feeder House Area--continued	CONDITION			Customer OK's Repair	New Specification	Replacement Specification	Comments
	OK	Needs Replaced	Needs Adjusted				
Oil Level and Condition							
Final Drives, Front Wheel(s) & Tire(s)					Torque - 200N m plus 1/4 turn		
Top Door Seal							
Conveyor Chain, Plastic Chain Guides & Eyebolts					Chain Pitch - 41 mm	3% elongation or set links removed & no adjustment left; Guides - When worn through; Chain Pitch -	
Feeder House Pivots						8mm or less install verton bushing and stops	
Top Shaft, Bearings, Sprockets & Stripper Plates						Sprocket Worn to 12mm - can be reversed; Stripper Plates - 1/8 in from top shaft to stripper	
Reverser Gear Case - Operation, Oil Level/Change						Change Oil once a year	
Reverser Belt, Lower Variable Sheaves, Idler & Bearings					Sheaves - Low Speed = 3mm		
Contour Master Cylinder & Hoses							
Check Slides							
Top Variable Drive, Sheaves & Bearings					Top Variable Sheaves = 3mm		
Hoses, Couplers & Wiring							
Check Frame for Cracks & Holes							
Feeder House Position Sensor & Wiring							
Shoe Auger, Speed Sensor & Wiring Harness						Auger - Worn to 1mm, Sharp Edges or Damaged	
Check Multi-point harness and hoses							
Check singe-point connection, cartridges and pins							
Final Drives, Front Wheel(s) & Tire(s)					Torque - 200N m plus 1/4 turn (150 lb-ft + 1/4 turn)		
Feed Accelerator (FAST)	CONDITION			Customer OK's Repair	New Specification	Replacement Specification	Comments
	OK	Needs Replaced	Needs Adjusted				
Feed Accelerator Drive Belt							
Feed Accelerator Tension Arm, Spring & Idler							
Feed Accelerator - Wings & Bearings							
Serrated Wear Strips					8mm thick 51mm height	After strips have been half worn & reversed, replace if height is shorter than original- All must be	
Smooth Wear strips					8mm thick 51mm height	After strips have been half worn & reversed, replace if height is shorter than original - All must be	
Back Swept Wear Strips					8mm thick	Leading edge wears to the point, reducing overall height dimension	
Plastic Dust Shroud						Thin Spots or Holes	
Rotor Bearing, Speed Sensor & Wiring							
Tri-Flow Feed Ramp						Worn through or damage	
Front Feed Flights					5 mm above rear flight support	Outer edge is worn down approx. 5 mm. Embossed part number on the top of the rear feed flight	
Rear Feed Flights					8 mm thick	When the casting number on the rear flight begins to wear off	

Left-Hand Side	CONDITION			Customer OK's Repair	New Specification	Replacement Specification	Comments
	OK	Needs Replaced	Needs Adjusted				
Safety Shields							
Electric Clutch & Brush Module							
Primary Countershaft 90° Gear Case							
Drive Shaft -							
Engine to 90° Gear Case U-joints							
Front End Drive Belt							
Reel Pump & Bearings							
Reel Speed Valve & Actuator							
Cleaning Fan, Housing, Fins, Bearings, Speed							
Cleaning Shoe Pitman Arms, Hangers, Bolts,							
Clean Grain Auger Speed Sensor & Wiring						Auger - Worn to 1mm, Sharp Edges or Damaged	
Tailings Auger Speed Sensor & Wiring						Auger - Worn to 1mm, Sharp Edges or Damaged	
Hydraulic Filter - Hoses & Fittings							
Hydraulic Stack Valve & Accumulator							
Separator Frame							
Inspect concave inserts							
Top Covers - Feeding, Threshing & Separating						Worn through or damaged	
Plastic Threshing & Separator Covers							
Separator Side Rail							
Rotor mid-plate							
Concave Z-Bar						Must be worn through the second layer of material	
Concave Actuator Motor, Gears & Linkage							
Concaves							
Small Wire Concave					38 mm	Bar less than 34 mm	
-Small Wire Interrupter Bar					19mm	Less than 15mm	
Large Wire Concave					38mm	Bar less than 34 mm	
Round Bar Concave					16mm	Bar is less than 12mm	
Filler Plates							
Threshing Elements					Std.18mm Rice 24mm	Std. Trailing edge is worn to 13mm When fingers wear to a point or broken out	
Separator Grates					NA		
Separator Tines					124mm	Less than 110 mm (Measure on the rear edge of tine from base to highest point) - Replaced in Sets of Three	
Cleaning Shoe Augers & Rear Bearings						Auger - Worn to 1mm, Sharp Edges or Damaged	
Cleaning Shoe Auger Troughs							
Separator Loss Monitor, Pads and Wiring							
Separator Shaker Pan						Bending or Damage	
Unloading Auger Sump, Bevel Drive Gears &							
Unloading Auger Drive Chain, Sprockets & Guides						Chain - 3% elongation	
Unloading Auger Jackshaft, Pulleys & Bearings							
Unloading Auger Drive Belts, Tensioner, Guides & Switches							

Left-Hand Side--continued	CONDITION			Customer OK's Repair	New Specification	Replacement Specification	Comments
	OK	Needs Replaced	Needs Adjusted				
Shoe & Service Lights							
Chopper Raise & Lower							
Rotor Variable Sheaves					Max - 10mm, Min 6mm & Spec 8mm		
Rotor Speed Shift Lever							
Hydrostatic Filter - Hoses & Fittings							
Hydro Cable							
Discharge Beater, Bearing, Belt & Sheaves							
Discharge Beater Speed Sensor & Wiring							
Discharge Beater Wings & Wear Strips					4.5 mm, 50 mm Height	When Wear Strips Loose Original Height	
Discharge Beater Grate							
Chaffer & Sieve Adjustment Gauges							
Steering Cylinder & Tie Rod							
Rear Axle & Spindles							
Wheel Bearings & Seals							
					Toe-in Front of Steering Wheels - 13mm; Torque - non powered - 315 N'm (232 lb-ft), powered - 200 N'm + 1/4 turn (150 lb-ft + 1/4 turn)		
Rear Wheel & Tire							
Power Rear Wheel Assist, Hoses & Fittings							
Gull Wings & Air Cylinders							
Chopper Jack Shaft Drive Belts							
Chopper Speed Sensor & Wiring							
Chopper Engage Tension Arm & Idler Pulley							
Chopper Drive Belt, Idler & Bearings							
Chopper Raise/Lower Cylinder							
<i>Chopper</i>							
Tail Board & Vanes							
Rotor & Bearings							
Housing & Knife Bank							
Cob Deflector Door							
Shoe Loss Monitors & Wiring							
Front Chaffer, Chaffer, Sieve & Seals							
Shoe Frames & Seals							
Rear Panel, Lights & SMV Sign							
<i>Spreader</i>							
Disks & Rubber Flaps							
Hydraulic Motor, Hoses & Fittings							
Frame							

Right-Hand Side	CONDITION			Customer OK's Repair	New Specification	Replacement Specification	Comments
	OK	Needs Replaced	Needs Adjusted				
Safety Shields							
Gull Wings & Air Cylinders							
Cab Wall Electrical Connectors							
Primary Countershaft Bearing							
Front Counter Shaft Belt, Tensioner & Pulleys							
Rear Counter Shaft Belt, Tensioner & Pulleys							
Top Covers - Feeding, Threshing & Separating						Worn through or damaged	
Plastic Threshing & Separator Covers							
Separator Side Rail							
Concave Z-Bar						Must be worn through the second layer of material	
Concaves & Hangers							
Separator Grates					NA	When fingers wear to a point or broken out	
Cleaning Shoe Pitman Arms, Hangers, Bolts,							
Cleaning Fan Housing, Fins & Bearings							
Shoe, Fan & Conveyor Auger Belt, Idlers, Tensioner							
Cleaning Fan Variable Belt							
Cleaning Fan Adjustment Motor, Linkage & Variable							
Tailings Elevator Return Auger Drive Chain						3% elongation	
Tailing Elevator Return Auger, Bearings & Boot					3 mm Thick, 67 mm Height	Auger - Worn to 1mm, Sharp Edges or Damaged	
Tailing Elevator Drive Belt, Tensioner, Idler &							
Tailings Elevator Slip Clutch							
Clean Grain Drive Belt & Idlers							
Clean Grain Elevator Chain, Paddles, Sprockets & Bearings					Paddles - 78mm x 151mm	Chain - 3% elongation; Paddles - 3mm wear on three working surfaces (75mm x 175mm)	
Clean Grain Elevator Housing & Boot							
Green Star Yield & Moisture Sensor & Wiring							
Tailings Housing & Boot							
Tailings Elevator Monitor Sensor & Wiring							
Tailings Elevator Paddle Chain and Sprockets					Paddles - 78mm x 151mm	Chain - 3% elongation; Paddles - 3mm wear on three working surfaces (75mm x 175mm)	
Tailings Auger & Bearings						Auger - Worn to 1mm, Sharp Edges or Damaged	
Grain Tank Unloading Cross Auger Bearings							
RH Control Unit & Wiring							
Steering Cylinder & Tie Rod							
Power Rear Wheel Assist, Hoses & Fittings							

Engine Compartment	CONDITION			Customer OK's Repair	New Specification	Replacement Specification	Comments
	OK	Needs Replaced	Needs Adjusted				
Ladder							
Rotary Screen & Belt							
After Cooler & Fins							
Check Oil Cooler							
Lines for Oil Cooler & A/C							
Coolant Level						800 hours	
Air Filter & Aspirator							
Hydro Charge filter						400 hours	
Main Hydraulic filter						400 hours	
Drive Belts for Alternator & Fan							
A/C Belt							
Water Pump							
Engine Oil & Filter						250 hours	
Engine Gear Case - Oil & Filter							
Engine Front and Rear Seals							
Engine crankshaft Damper						4500 hours or 5 years	
Engine PTO gear case oil						2000 hours	
Valve Lash adjustment						2000 hours	
Clean Radiator/Hoses & Clamps						cracked	
ECU - Connections & Seals							
Fuse Panel - Seal							
Hydraulic Reservoir							
Fuel Tank Vent - Clean							
Ether Can							
Batteries - Cables, Connections & Fluid Level							
Rear Engine Gear Case Seal							
Heater Hoses							
Inspect turbo charger							
Inspect exhaust manifold belts							
Muffler & Rain Cap							
Check All Hoses and Clamps							
Rotor Belt Torque Sensing Unit					Max 10 mm, Min 6 mm & Spec 8mm		
Rotor Belt							
Two Speed Gear case - Oil Level & Condition						2000 hours	

Grain Tank Section	CONDITION			Customer OK's Repair	New Specification	Replacement Specification	Comments
	OK	Needs Replaced	Needs Adjusted				
Bin Extensions & Tank							
Grain Sample Trough							
Grain Tank Light, Level Switch & Wiring							
Grain Tank Loading Auger, Housing, Bearings, Driver, Top Sprockets & Clamps					Auger - 4.5mm thick, 95mm height	Auger - Worn 1mm or to a sharp edge	
Clean Grain Elevator Top Shaft & Bearings							
Clean Grain Elevator Top Housing, Impact Plate, Loading Auger Gear case							
Cross Augers, Top Covers & Floor					Auger - (STD) 3.4mm thick (HD) 4.8mm thick 64mm height	Auger - worn 1mm or to a sharp edge	
Unload On-The-Go Baffle							
Unloading Auger Sump							
Vertical Auger & Housing					(STD) 6mm thick (HD) 6.6mm thick 110 mm height	When worn to a sharp edge	
90° Gear case						Front bracket to back hole =	
Horizontal Auger & Housing					4.5mm thick 95mm height	Worn to 1mm or to a sharp edge	
Grain Saver Door & Boot							
Cab Section	CONDITION			Customer OK's Repair	New Specification	Replacement Specification	Comments
	OK	Needs Replaced	Needs Adjusted				
Cab Ladder						Front bracket to back hole =	
Fire Extinguisher							
Cab Roof							
Mirrors							
Cab Air Filters - Pre-Cleaner, Air Filter & Recirculating Filter							
CEB (Central Electronic Box) - Seals & Wiring							
Windshield Wiper Fluid Level							
Lights - All Outside Lights & Functions Dome Light,							
ClimaTrak - Defrost, Temp. Control, Fan Speed							
Radio & Speakers							
Windshield Wipers & Fluid Operation							
Sun Visor							
Steering Column							
Height Adjust & Tilt							
Horn							
Parking Brake							
Steering Brakes							
Reverser							
Transmission Shift Lever / ProDrive							
Greenstar Display - Use Pre-Harvest Greenstar							

Cab Section--continued	CONDITION			Customer OK's Repair	New Specification	Replacement Specification	Comments
	OK	Needs Replaced	Needs Adjusted				
Corner post							
<i>Display Tachometer</i>							
Engine RPM, Rotor RPM							
Concave Clearance							
Fan Speed							
Header Back Shaft Speed							
Service Intervals - Reset							
<i>VisionTrak Display / Command Center</i>							
Calibrate							
Seed size							
Diagnostics - Error Codes, Back Button & Enter Button							
<i>Active Header Control Display</i>							
Console							
<i>HydroHandle -</i>							
Header Raise/Lower, Corn Header Back Shaft Speed, Reel Raise/Lower, Reel For/Aft							
Unloading Auger Swing							
Unloading Auger Engage							
Emergency Stop							
Neutral Safety Switch							
Header Engage							
Separator Engage							
Road Disconnect							
Concave Adjust							
Rotor Speed							
Cleaning Fan Speed							
Engine RPM's - Three buttons							
Power Strip							
Operator Presence Switch							
Air Seat							
Seat Belts - Operator and Instructional Seat							

AMS	CONDITION			Customer OK's Repair	New Specification	Replacement Specification	Comments
	OK	Needs Replaced	Needs Adjusted				
AutoTrac Combine Machine Kit						PF90876 - 50 Series Pin 695101 and above. PF90875 - 60 Series. PF90629 - 70 Series.	
AutoTrac RowSense kit for Universal Sensor						PF90742	