

Engine warranty Registration Check Sheet

Information required for warranty registration (Fully fill out <u>all</u> light blue shaded boxes) Follow Cummins[®] installation procedures and initial each box after task completion. Return completed form to H-E Parts Engine Solutions by fax to (206-621-8805) or email (berger@h-eparts.com)

Preper inter opinge, there, creates, create	Engine Model: Engine Seria Equipment Unit No. Unit Serial N H-E Parts B&G Machine Job No. Site Air Inlet System A Replace all rubber beets and slamps with new	No N	nstallation Date: /eter Hrs.: CM Clock Hrs. Total Fuel Burn: LASH FILE PART #
Binspect machine harmess for problems, base, fraged, broken, or disconnected wires) and repair as necessary Concert engine harmess and power up: 1. Check for current codes and correct all sensor problems if applicable Program machine senial number into ECM. Program machine senial number into the dist of the pump drive shaft and torque to spec. Check PTO thrust end play Torue Program machine and Engine A Review converter records for replacement (<u>GAUTION: A bad converter can cause engine damage and or poor performance). Check and necord cranshaft endpity before and after mounting Torque Converter. Before Program machine fuel supply holes with new Proplace expansion fings with new if applicable A Replace expansion fings with new if applicable A Replace any render mount machine held lifters with new Beplace any render mount machine held lifters with new Program A Replace machine fuel supply holes with new Program callator holes and program all fills A Service realiator notes and claring with new Constant supply holes and program in the service system and check for leaks (machine and Engine) A Service realiator notes and adapter data if non system A Revise and have and territor system A fill fills connection to pri-lube engine white filling A Service realiator notes and adapter data if non system A Promp fuel pressure up to 50 PSI Service Terret any service builds immediately. (If not shut of engine immediately, and investigate) Check for leaks (hashine and Engine) A Servi</u>	B Inspect inlet piping, (holes, cracks, chafing, welds, and loose brack C Wipe out inside of piping with solvent and dry with clean rags D Tighten all clamps, then re-check all for proper torque. E Install new primary and secondary air filters Electrical System A Inspect harness pin connector on the machine side for problems	ets) and repair or replace as necessary	
Instal new U-nings on all coder connections to engine Constant new U-prings and abots on both ends of the pump drive shaft and torque to spec. Check PTO thrust end play Torque Converter A Review converter records for replacement (<u>CAUTION: A bad converter can cause engine damage and or poor performance)</u> A Review converter records for replacement (<u>CAUTION: A bad converter can cause engine damage and or poor performance)</u> A Review converter records for replacement (<u>CAUTION: A bad converter can cause engine damage and or poor performance)</u> A Review converter records for replacement (<u>CAUTION: A bad converter can cause engine damage and or poor performance)</u> A Review converter records for replacement (<u>CAUTION: A bad converter can cause engine damage and or poor performance)</u> A Review converter records for replacement (<u>CAUTION: A bad converter can cause engine damage and or poor performance)</u> A Review converter records for replacement (<u>CAUTION: A bad converter can cause engine damage and or poor performance)</u> A Replace any renote mount machine lutel (If the set the set the set the set of the set set of the set	B Inspect machine harness for problems, (bare, frayed, broken, or dis C Connect engine harness and power up E.T. Check for current code D Program machine serial number into ECM. Hydraulic Pump System A Inspect and repair all problems with hydraulic system before engine	connected wires) and repair as necessar s and correct all sensor problems if applic e installation	y :able
A Replace from the function of the production of the root converter. Before Check and record cankshaft endplay before and after root converter. Before Check and record cankshaft endplay before and after root converter. Before A Replace from the shaft of the shaft of the root converter. Before A Replace search of the shaft of the s	B Install new O-rings on all cooler connections to engine C Install new U-joints and bolts on both ends of the pump drive shaft Torque Converter A Review converter records for replacement (CAUTION: A bad conv	and torque to spec. Check PTO thrust en	d play
A Replace exhaust clamps to engine with new Replace expansion rings with new if applicable Fuel System A Replace machine fuel supply hoses with new B Replace any remote mount machine fuel filters with new Coring in fuel from tanks to get rid of eadiment and water. Flush tank if necessary. D Fill fuel tanks / Pressurize system and check for leaks (machine and engine) Cooling System A Service radiator (Clean, pressure check, or replace cores) Replace all radiator hoses and clamps with new Coring in tadiator hoses and clamps with new Coring in the other system A Service radiator (Clean, pressure check, or replace cores) Replace all radiator hoses and clamps with new Coring indicates and the system Coring indicates and the system of the system of the system Coring indicates and the system of the system of the system Replace all indicates and the system of the system of the system Replace all indicates and the system of the system Replace all indicates and the system of the syste	B Check and record crankshaft endplay before and after mounting To C Replace front drive shaft U-joint and bolts with new Exhaust System	rque Converter. Before	After
A Replace machine fuel supply hoses with new C Drain fuel from tanks to get rid of sediment and water. Flush tank if necessary. Coling System A Service radiator (Clean, pressure check, or replace cores) B Replace any removes much machine fuel filters with new C Drain fuel from tanks to get rid of sediment and water. Flush tank if necessary. Coling System A Service radiator (Clean, pressure check, or replace cores) B Replace all radiator hoses and cleans with new C Drain fuel from soft colonat, and purge all air from system C Prill lengine with colonat, and purge all air from system C Charge engine with oil through filter connection to pre-lube engine while filling B Replace all removes the oil through filter connection to pre-lube engine while filling B Replace through of the connection to pre-lube engine while filling C Run for 1 minute and use ground level shut off to check operation. Follower part engine or "ENONE DDLING" side of dip sitek C Run for 1 minute and use ground level shut off to check operation. Follower part engine to warm to operating temperature at low idle C A start engine B Allow engine to warm to operating temperature at low idle B Allow engine to warm to operating temperature at low idle C Concet any sensor codes F Assure that all functions of E.T. are reading correctly A New frame isolators installed and torqued to manufacturers specifications B Cenerator reading of coupler finang checked: 12 o'clock C Generator reading science to spec. G Crankshaft deflection checked: D o'clock is deflected to spec. C Runkshaft deflection checked: D o'clock D o'clock to spece. F Assure that deflection checked: D o'clock to spece. C A start the deflection checked: D o'clock to spece. F A set of the out of through polys to spece. O crankshaft deflection c	A Replace exhaust clamps to engine with new B Replace expansion rings with new if applicable Fuel System		
Loong system A B Replace all radiator (Clean, pressure check, or replace cores) B Replace all radiator hoses and clamps with new C Fill engine with coolant, and purge all air from system D Check for leaks (Machine and Engine) E Grease fan hub, and tensioner pulley zerk fittings until full Oil system A A Charge engine with oil through filter connection to pre-lube engine while filling B Fill engine to: "ENGINE IDLING's ide of dip stick C Recheck oil level after start up and top off. It will be low. Initial Start-up A Pump fuel pressure up to 50 PSI B B Start engine A Allow engine to warm to operating temperature at low idle C C Crieck oil level and top off E.T. are reading correcity G Apply brakes and stall engine to check stall speed. (compare against spec.) Generator installed and torqued to manufacturers specifications B octock B Generator racing screws backed off B octock C Generator installed and torqued to manufacturers specifications B octock B Generator caching screws backed off B oc	A Replace machine fuel supply hoses with new B Replace any remote mount machine fuel filters with new C Drain fuel from tanks to get rid of sediment and water. Flush tank if D Fill fuel tanks / Pressurize system and check for leaks (machine an	necessary. d engine)	
A Charge engine with oil through filter connection to pre-lube engine while filling B Fill engine to "ENGINE IDLING" side of dip stick C Recheck oil level after start up and top off. It will be low. Initial Start-up A Pump fuel pressure up to 50 PSI B Start engine and assure that oil pressure builds immediately. (If not shut off engine immediately, and investigate) C Run for 1 minute and use ground level shut off to check operation. Follow-up Start-up A Start engine and assure that oil pressure builds immediately. (If not shut off engine immediately, and investigate) C Run for 1 minute and use ground level shut off to check operation. Follow-up Start-up A Allow engine to warm to operating temperature at low idle C Check oil level and top off B Allow engine to sasure that all air is bled out of cooling system and level is topped off C Correct any sensor codes F Assure that all functions of E.T. are reading correctly G Apply brakes and stall engine to check stall speed. (compare against spec.) Generator install Only A New frame isolators installed and torqued to manufacturers specifications B Generator caligned / coupler flange checked: 12 o'clock 3 o'clock G Generator coupler boils torqued to spec. C Generator coupler boils torqued to spec. G Generator coupler boils torqued to spec. G Generator coupler boils torqued to spec. C Crankshaft end thrust measured: I Vibration tested OK D Vibration tested OK	A Service radiator (Clean, pressure check, or replace cores) B Replace all radiator hoses and clamps with new C Fill engine with coolant, and purge all air from system D Check for leaks (Machine and Engine) E Grease fan hub, and tensioner pulley zerk fittings until full		
A Pump fuel pressure up to 50 PSI B Start engine and assure that oil pressure builds immediately. (If not shut off engine immediately, and investigate) C Run for 1 minute and use ground level shut off to check operation. Follow-up Start-up A Start engine A A Start engine A Allow engine to warm to operating temperature at low idle C Check oil level and top off D Re-check to assure that all air is bled out of cooling system and level is topped off C Correct any sensor codes F Assure that all functions of E.T. are reading correctly G Apply brakes and stall engine to check stall speed. (compare against spec.) Generator Install Only A New frame isolators installed and torqued to manufacturers specifications G Generator mount bolts torqued to spec. G Generator mount bolts torqued to spec. G Crankshaft deflection checked: H Crankshaft deflection checked: Vibration tested OK	A Charge engine with oil through filter connection to pre-lube engine v B Fill engine to "ENGINE IDLING" side of dip stick C Recheck oil level after start up and top off. It will be low. Initial Start-up	vhile filling	
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A source that all functions of E.1. are reading contectly G Apply brakes and stall engine to check stall speed. (compare against spec.) Generator Install Only A New frame isolators installed and torqued to manufacturers specifications B Generator re-aligned / coupler flange checked: 12 o'clock 3 o'clock 6 o'clock 9 o'clock Generator jacking screws backed off D Generator mount bolts torqued to spec. E Generator coupler bolts torqued F End bell housing to flywheel housing bolts torqued to spec. G Crankshaft deflection checked: H Crankshaft end thrust measured: Vibration tested OK	A Start engine A Start engine B Allow engine to warm to operating temperature at low idle C Check oil level and top off D Re-check to assure that all air is bled out of cooling system and lev E Correct any sensor codes E Assure that all functions of E T are reading correctly.	el is topped off	
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