SERVICE MANUAL

G140 VHP
G170 VHP
TIER 3
MOTOR GRADERS

NEW HOLLAND
CONSTRUCTION

75314490 NA

MidWestTech | New Holland G140 VHP, G170 VHP Tier 3 Motor Grader Service Manual |...

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G140VHP - G170VHP - G200 GRADERS
Repair Manual

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NOTE: CNH Latin America reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.

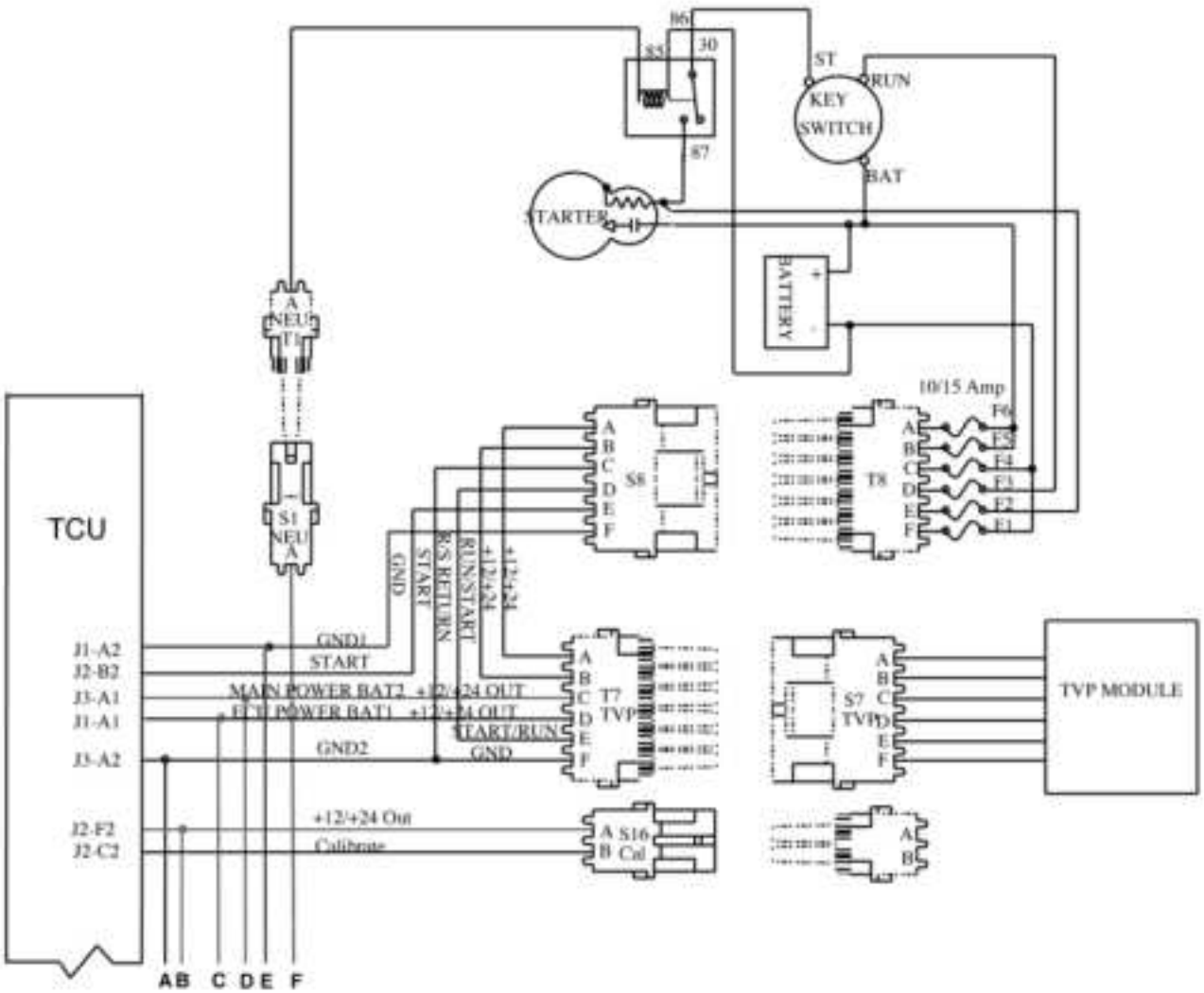
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TROUBLESHOOTING

Fault Code	Lamp Color	Cummins Description
2347	—	Turbocharger Compressor Outlet Temperature (Calculated) - Data Valid but Above Normal Operational Range - Least Severe Level
2362	Amber	Engine Brake Actuator Circuit #1 - Voltage Below Normal, or Shorted to Low Source
2363	Amber	Engine Brake Actuator Circuit #2 - Voltage Below Normal, or Shorted to Low Source
2366	Amber	Engine Brake Actuator Circuit #1 - Voltage Above Normal, or Shorted to High Source
2367	Amber	Engine Brake Actuator Circuit #2 - Voltage Above Normal, or Shorted to High Source
2377	Amber	Fan Control Circuit - Voltage Above Normal, or Shorted to High Source
2384	Amber	VGT Actuator Driver Circuit - Voltage Below Normal, or Shorted to Low Source
2385	Amber	VGT Actuator Driver Circuit - Voltage Above Normal, or Shorted to High Source
2555	Amber	Intake Air Heater #1 Circuit - Voltage Above Normal, or Shorted to High Source
2556	Amber	Intake Air Heater #1 Circuit - Voltage Below Normal, or Shorted to Low Source
2557	Amber	Auxiliary PWM Driver #1 - Voltage Above Normal, or Shorted to High Source
2558	Amber	Auxiliary PWM Driver #1 - Voltage Below Normal, or Shorted to Low Source
2963	—	Engine Coolant Temperature High - Data Valid but Above Normal Operational Range - Least Severe Level
2964	—	Intake Manifold Temperature High - Data Valid but Above Normal Operational Range - Least Severe Level
2973	Amber	Intake Manifold Pressure Sensor Circuit - Data Erratic, Intermittent, or Incorrect

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TRANSMISSION WIRING HARNESS 1 OF 4



NOTE: Letters A,B,C,D,E,F are labels to link to the next page.
Wiring harness is + 24Volts grader G140VHP/G170VHP

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OTHER MATERIAL

Name	Use
Transmission Fluid	All moving parts and o-rings.

SPECIFICATIONS

Item	Measurement	Specification
Control valve-to-front housing cap screw (27).	Torque	40 N·m (30 lb-ft)
Proportional valve nut-to-proportional solenoid assembly (8).	Torque	1.7—2.8 N·m (15—25 lb-in)
7/16-20 plug-to-valve housing (12).	Torque	12 N·m (9 lb-ft)
9/16-18 plug-to-valve housing (2).	Torque	25 N·m (18 lb-ft)
Temperature sensor-to-valve housing.	Torque	16 N·m (12 lb-ft)
Proportional valve-to-valve housing (8).	Torque	16—20 N·m (10—15 lb-ft)
Main regulator assembly-to-valve housing.	Torque	142 N·m (105 lb-ft)
Relief valve assembly-to-valve housing.	Torque	102 N·m (75 lb-ft)

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MOLDBOARD LIFT CYLINDERS



WHEEL LEAN CYLINDER



CIRCLE SHIFT CYLINDER



ARTICULATION CYLINDER



SADDLE PIN LOCK CYLINDER



SCARIFIER OR DOZER BLADE CYLINDER

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Install the ripper teeth on the support with their respective bolts and cotter pins.



The teeth of the ripper are replaceable; to replace them, remove the elastic lock pin.
Try to notice the mounting angle to avoid breaking the claws.



REAR RIPPER G170VHP-G200

The mounting process is similar to the one for the G140VHP Notice that, besides the ripper teeth, there are the scarifier teeth.



The scarifier replacement process is similar to that of the front. To replace the ripper teeth it is necessary to remove the elastic lock pins.



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