SERVICE MANUAL

F106.8 / F106.8A / F156.8 / F156.8A

Motor Grader

Part number 47829043
English
January 2015

NEW HOLLAND CONSTRUCTION

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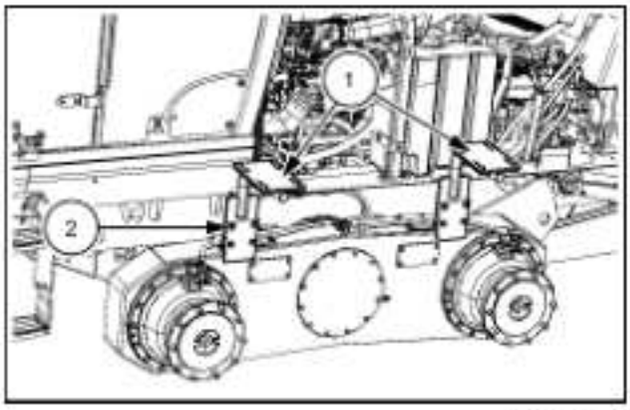
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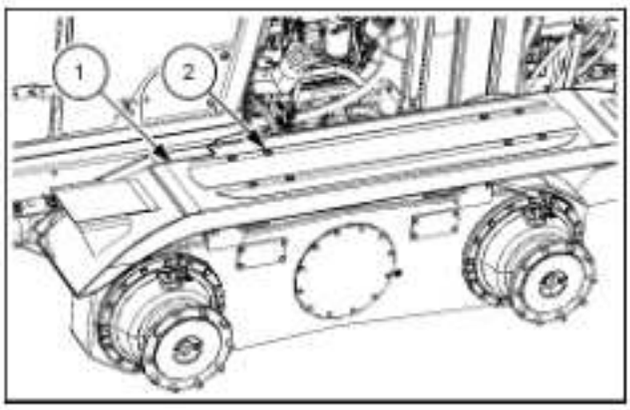
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28. Install the four wheel cover brackets **(1)** on the rear axle with the screws **(2)**.



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29. Install the two rear wheel cover **(1)** on the rear axle with the screws **(2)**.



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Next operation:
Engine hood panel rear support - Install (90.100).

Selective Catalytic Reduction (SCR) muffler and catalyst - Install (10.500)
Engine support and mounts - Install (10.001).
Radiator - Install (10.400).
Battery - Install (55.302).
Hood - Install (90.100).
Rear wheels - Install (44.520).
Engine - Complete (10.001).

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Rear wheels - Remove

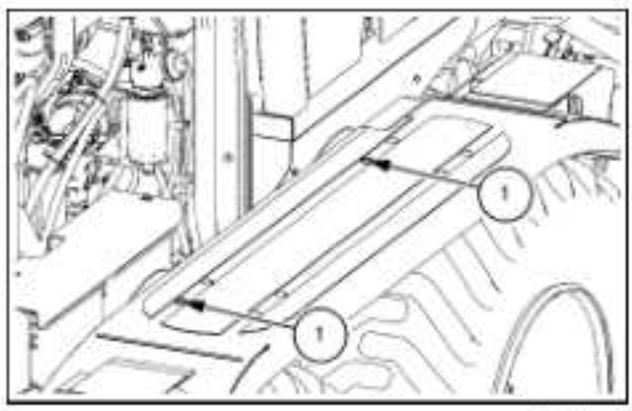
F106.8A	WE
F106.8	WE
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⚠ WARNING

Heavy objects!
Lift and handle all heavy components using lifting equipment with adequate capacity. Always support units or parts with suitable slings or hooks. Make sure the work area is clear of all bystanders. Failure to comply could result in death or serious injury.

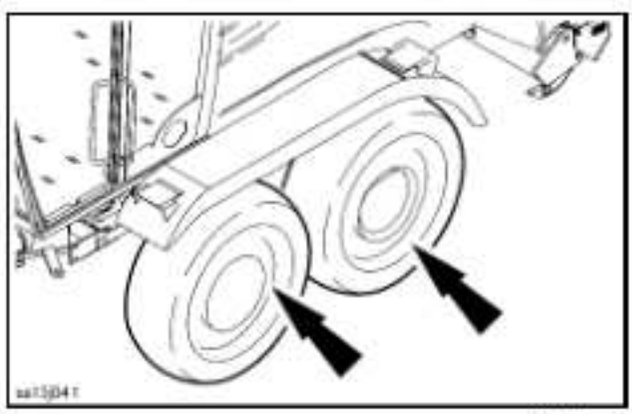
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1. Lift and jack up the vehicle using suitable lifting gear. Loosen the mounting bolts **(1)** and remove the two rear wheel covers.



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2. Remove all four rear wheels.



SS13E041 2

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Harnesses and connectors - Electrical schematic sheet 36 – Miscellaneous, Blade control

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Location	Component
B2	Blade Control
B4	Fuse BC–F30A: Blade control fuse holder (**30 A**)
B4	Fuse BC–F5A: Blade control fuse holder (**5 A**)

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Fixed displacement pump - Dynamic description – Pump control

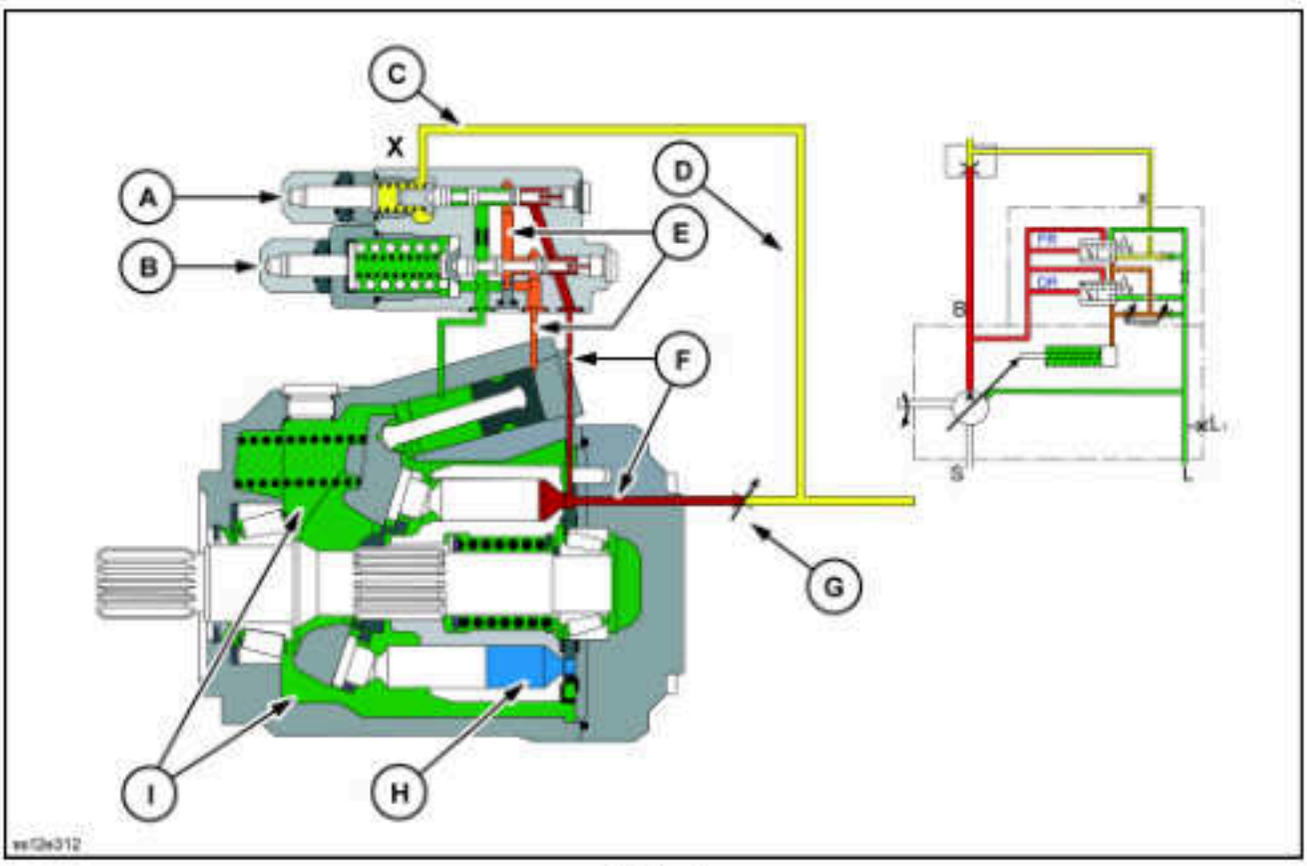
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Volume flow regulator (FR)

The volume flow regulator **(A)** controls the oil delivery from the pump according to load pressure. On the piston of the volume flow regulator, the pump pressure is applied to one side. Counteracting this pressure is the load pressure and the adjusted spring force of the regulator spring. If the volume flow regulator is actuated on the channel X with load pressure (LS signal), the regulator starts to change the actuating pressure accordingly for the swash plate adjustment, until the system comes back into equilibrium. The pump therefore only delivers the oil quantity actually needed by the consumer.

Pressure regulator (DR)

The pressure regulator **(B)** sets the maximum permitted pump pressure. On the piston of the pressure regulator, the pump pressure is applied to one side. Counteracting this pressure is the adjusted spring force of the regulator spring. If the pump pressure exceeds the allowed value (**200 bar** (**2900.0 psi**)), the piston is pushed against the spring force and creates a direct connection between the pump pressure channel and the swash plate adjustment piston. The pressure regulator therefore prevents further deflection, or causes backward deflection of the adjustment pump (towards pressure shutoff), and holds this position until the pump pressure is below the set pressure value of the pressure regulator.

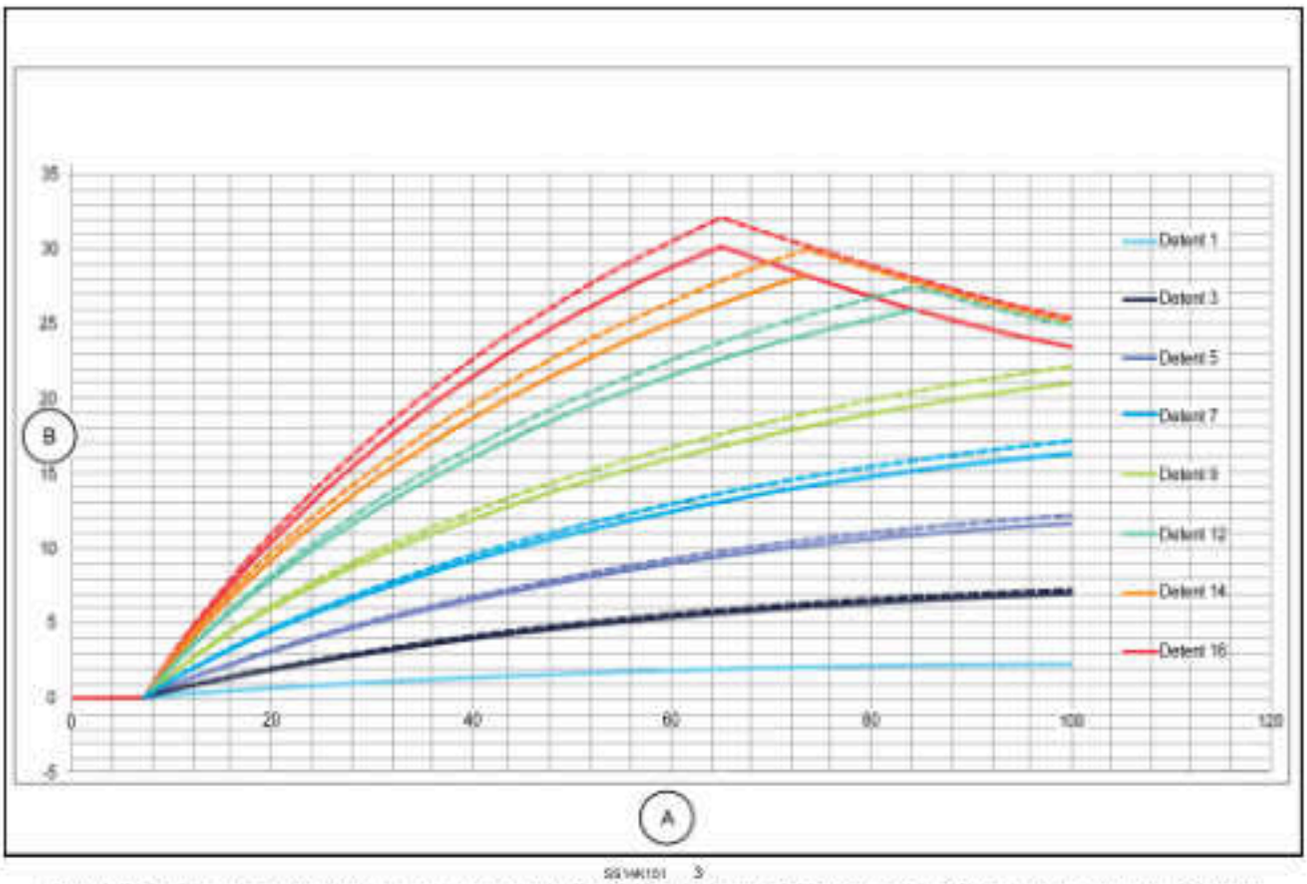


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Pos.	Designation	Pos.	Designation
A	Volume flow regulator (FR)	F	High-pressure console
B	Pressure regulator (DR)	G	Orifice plate in LS control block
C	Load signal line	H	Suction line
D	LS load pressure	I	Leakage oil line
E	Pressure line console		

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Creep Mode, Pump displacement (B) versus accelerator pedal position (A) — Calibrated with CM pump high speed offset

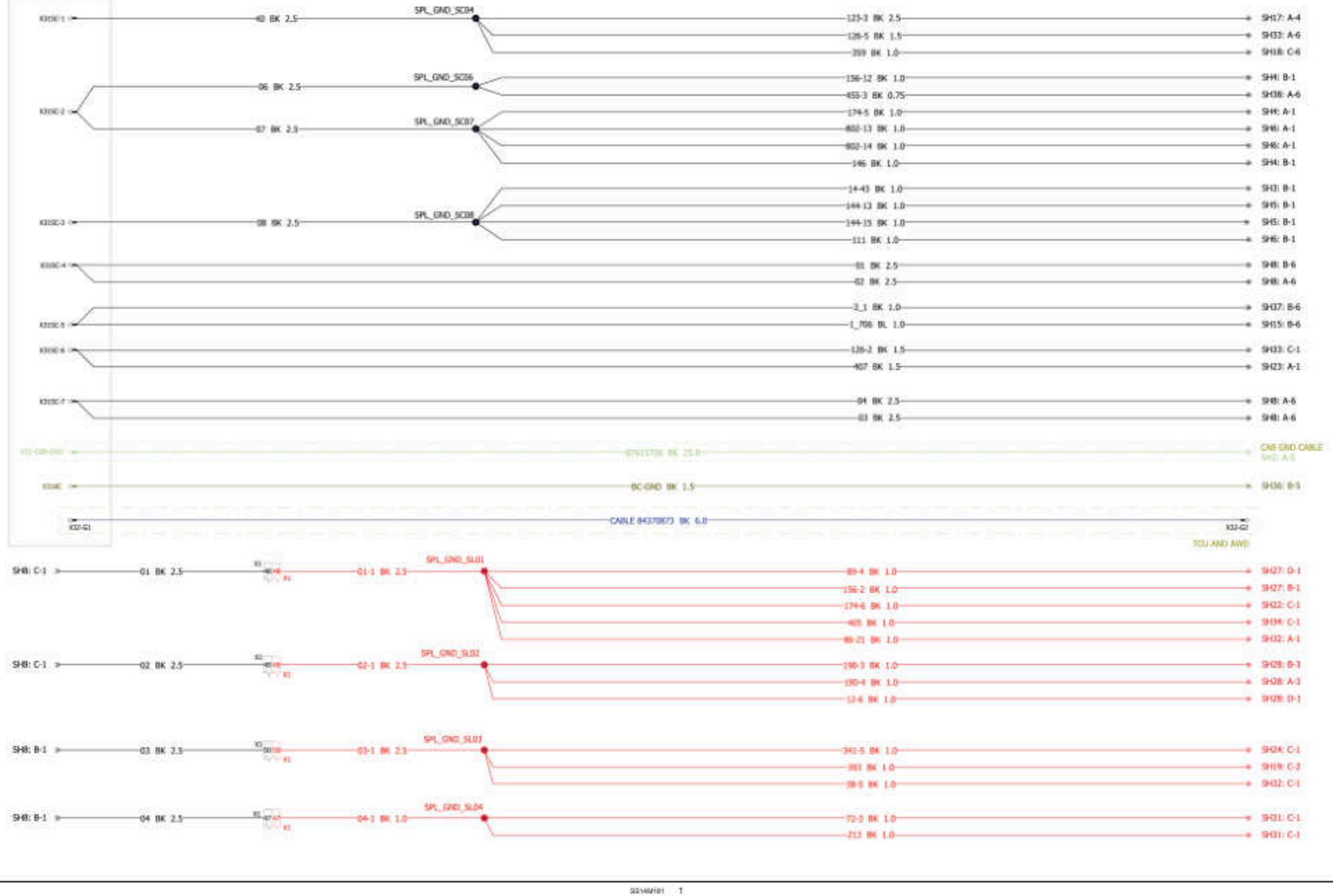


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Pump Displacement curves compensated with CM Pump High Speed offset parameter (positive)

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CAB GROUND BLOCK (M6 HOLES)



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