SERVICE MANUAL

E16B / E18B

Mini Excavator

Part number 84533365B
English
May 2014

NEW HOLLAND CONSTRUCTION

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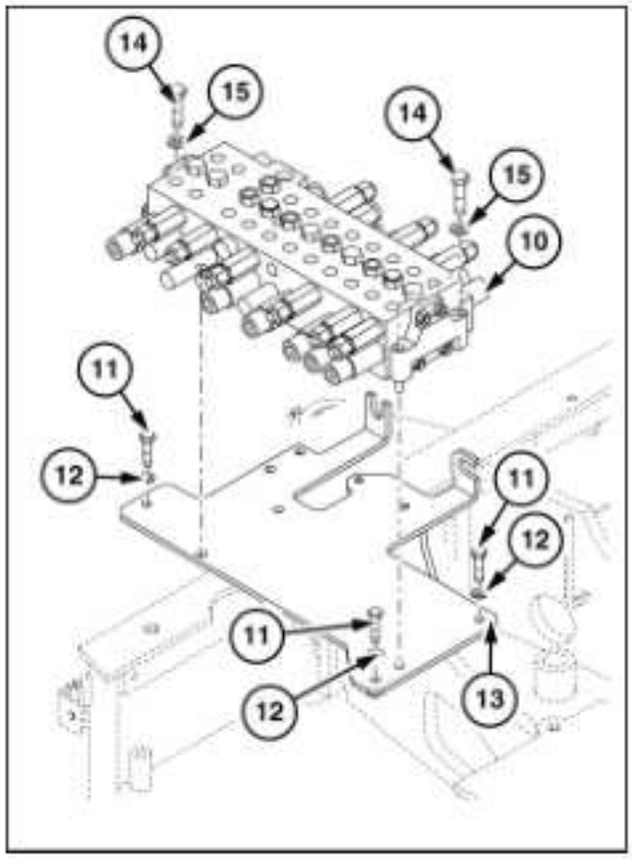
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Main control valve - Install - E18B

Install the control valve by following the removal procedures in reverse sequence.

NOTICE: *Clean the mounting surfaces and make sure to prevent any control valve damage.*

1. Install the control valve **(10)** on the bracket **(13)** and secure it with the 3 screws **(14)** and the washers **(15)**
2. Tightening torque of screws **(14)** = **33.3 N·m** (**25 lb ft**).
3. Assemble the control valve with the bracket on the machine by means of screws **(11)** and washers **(12)**. Tightening torque of screws **(11)** = **65.7 N·m** (**48 lb ft**)
4. Remove all plugs.
5. Connect all hoses to the control valve.



Tighten the hose fittings to prescribed torque:

Thread size	Fitting with O-ring	30° Flare type fitting
1/4	**36.3 N·m (27 lb ft)**	**29.4 N·m (22 lb ft)**
3/8	**73.5 N·m (54 lb ft)**	**49 N·m (36 lb ft)**
1/2	**108 N·m (80 lb ft)**	**78.5 N·m (58 lb ft)**
3/4	**162 N·m (119 lb ft)**	**118 N·m (87 lb ft)**
1	**255 N·m (188 lb ft)**	

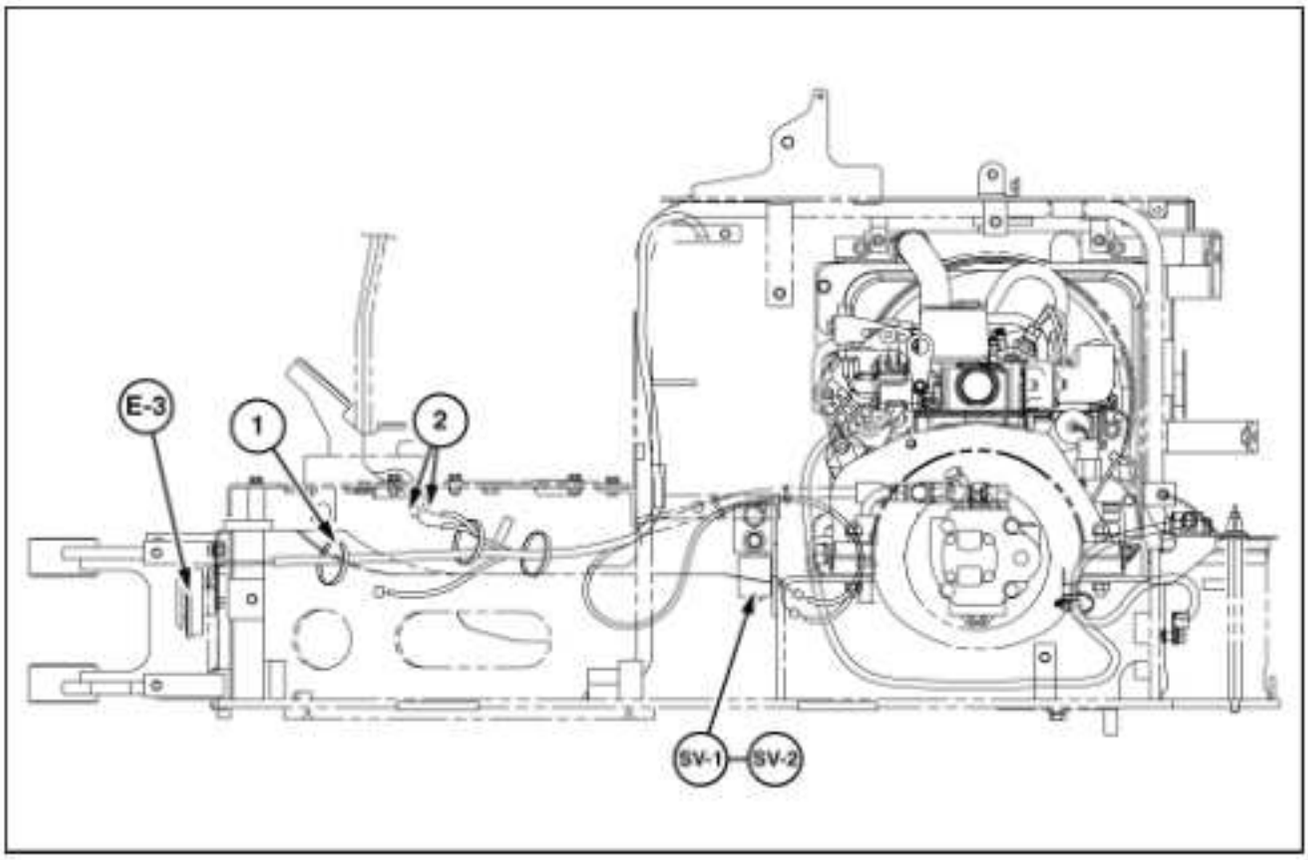
6. Operate the working attachment to check the performance.
7. Check the tank and lines for oil leaks and the oil level inside of the tank.

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Pedal control - Troubleshooting

Problem	Possible Cause	Correction
Secondary pressure low	Primary pressure insufficient	Adjust the primary pressure on the valve
	Fix adjustment of secondary pressure adjusting screw	Replace the spring
	Excessive distance between spool and casing	Replace the valve assy.
	Control section loose	Replace the pieces of the control section
Unstable secondary pressure	Sliding pieces jammed	Eliminate the jamming
	The pressure of the hydraulic system fluctuates	Direct the oil flow directly to the tank
	Air in the pipes	Bleed the air
High secondary pressure	High pressure in the hydraulic system	Direct the oil flow directly to the tank
	Sliding pieces jammed	Eliminate the jamming
Damping does not work	Air in the piston chamber	Bleed the air
	Sliding pieces jammed	Eliminate the jamming
	Spring fixed adjustment	Replace the spring
	Too much distance between piston and seat	Replace the valve assy.
	Check valve malfunctioning	Disassemble and check the valve
	Piston opening diameter too large	Replace the piston
The damping torque is heavy	Sliding pieces jammed	Eliminate the jamming
	Piston opening clogged	Repair or replace the piston

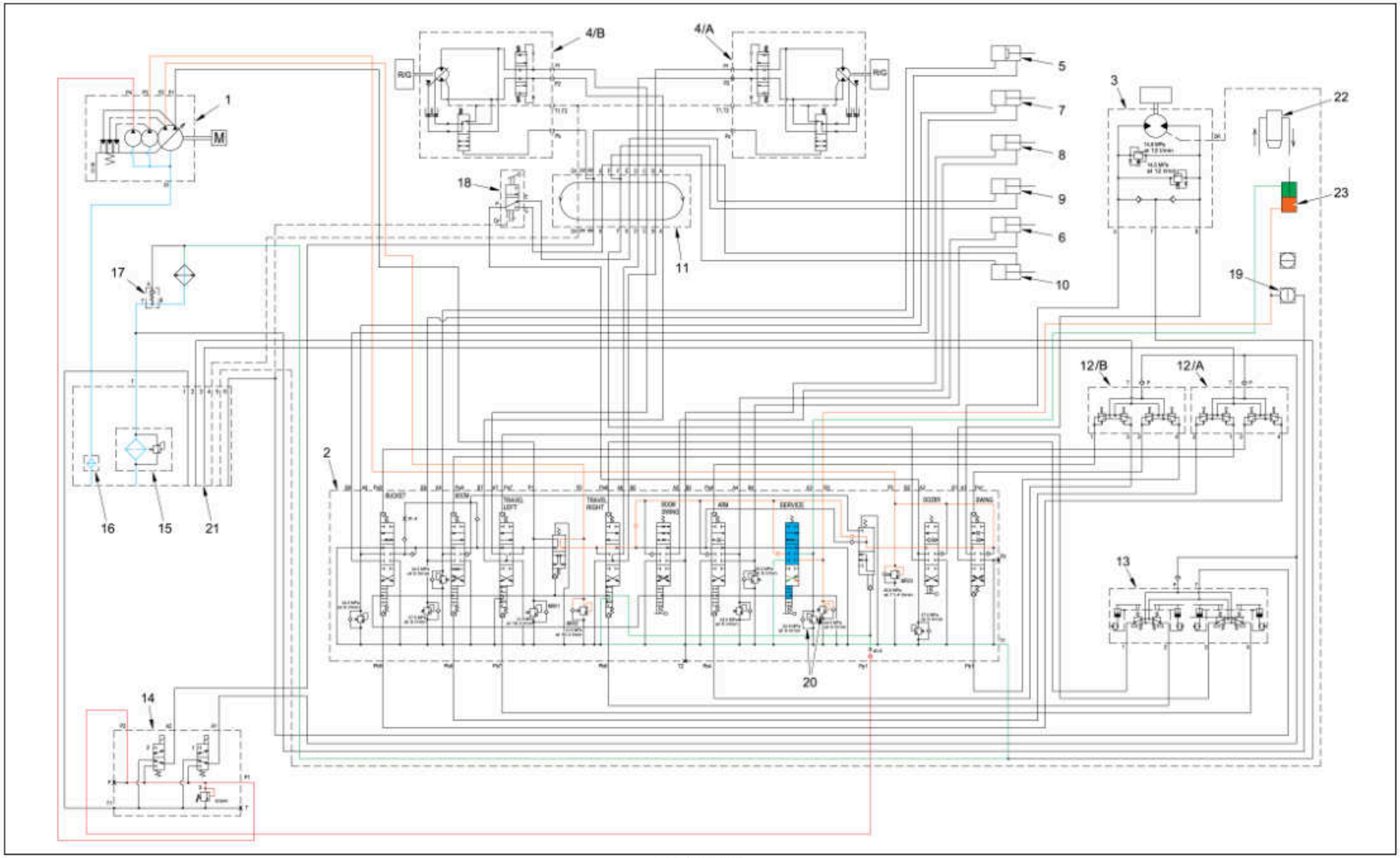
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1. To boom wiring harness
2. To 2nd speed (two speed **E16B** + **E18B**)
E-3. Horn
SW-6. Engine oil pressure switch
SV-1. Control lever lock solenoid
SV-2. 2nd speed selection solenoid (two speed **E16B** + **E18B**)

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