SERVICE MANUAL

B80B

Backhoe Loader

Part number 48143704
1st edition English
April 2017

NEW HOLLAND CONSTRUCTION

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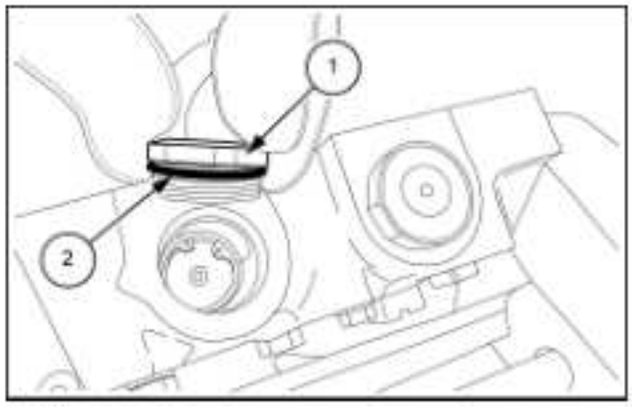
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Power shuttle transmission - Pressure test - 4 wheel drive, test two - Engine at 2200 rpm

Test port	Item	Specifications - 4 wheel drive	Actual
1 and 2	Supply pump flow	**62 – 70 l/min (16.4 – 18 US gpm)** at **1379 kPa (200 psi)** **14 bar (203 psi)** at **49 °C (120 °F)**	
1 and 2	Cold oil bypass	**3034 – 3310 kPa (440 – 480 psi)** **30.9 – 33.7 bar (448 – 489 psi)** at **49 °C (120 °F)**	
		Forward	
9	Pump supply pressure	**1586 – 1655 kPa (230 – 240 psi)** **16.2 – 16.9 bar (235 – 245 psi)**	
4	Regulated clutch pressure	**1276 – 1317 kPa (185 – 191 psi)** **13 – 14.1 bar (188 – 204 psi)**	
6	Torque converter IN	**827 – 965 kPa (120 – 140 psi)** **8.4 – 9.8 bar (122 – 142 psi)**	
7	Torque converter OUT	**434 – 455 kPa (63 – 66 psi)** **4.4 – 4.6 bar (64 – 67 psi)**	
8	Lubrication pressure	**290 – 303 kPa (42 – 44 psi)** **3 – 3.1 bar (44 – 45 psi)**	
		Neutral	
9	Pump supply pressure	**1407 – 1462 kPa (204 – 212 psi)** **14.4 – 14.9 bar (209 – 216 psi)**	
6	Torque converter IN	**724 – 862 kPa (105 – 125 psi)** **7.4 – 8.8 bar (107 – 128 psi)**	
7	Torque converter OUT	**483 – 503 kPa (70 – 73 psi)** **4.9 – 5.3 bar (71 – 77 psi)**	
8	Lubrication pressure	**414 – 434 kPa (60 – 63 psi)** **4.2 – 4.4 bar (61 – 64 psi)**	
		Reverse	
9	Pump supply pressure	**1585 – 1627 kPa (230 – 236 psi)** **15.9 – 16.6 bar (231 – 241 psi)**	
5	Regulated clutch pressure	**1276 – 1379 kPa (185 – 200 psi)** **13 – 14.1 bar (188 – 204 psi)**	
6	Torque converted IN	**827 – 965 kPa (120 – 140 psi)** **8.4 – 9.8 bar (122 – 142 psi)**	
7	Torque converter OUT	**339 – 414 kPa (49 – 60 psi)** **4 – 4.2 bar (58 – 61 psi)**	
8	Lubrication pressure	**241 – 255 kPa (35 – 37 psi)** **2.5 – 2.6 bar (36 – 38 psi)**	

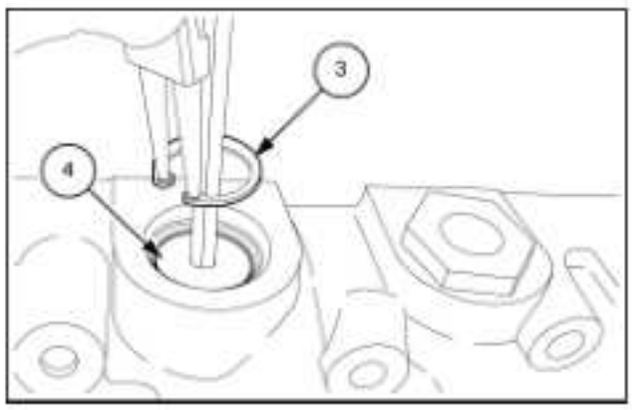
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5. Lock the control valve with a clamp.
   Remove the plug **(1)**.
   Remove the O-ring **(2)**.



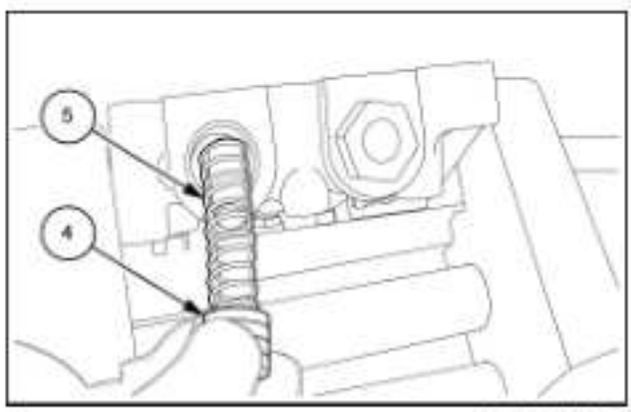
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6. Push down the piston **(4)** then remove the snap ring **(3)**.



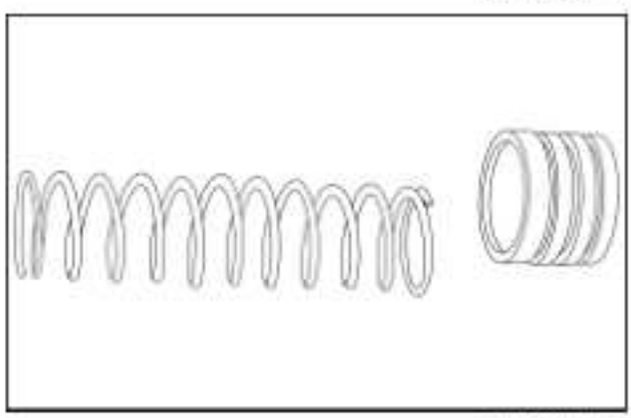
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7. Remove the piston **(4)** and the spring **(5)**.



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8. Check the wear conditions of removed parts.

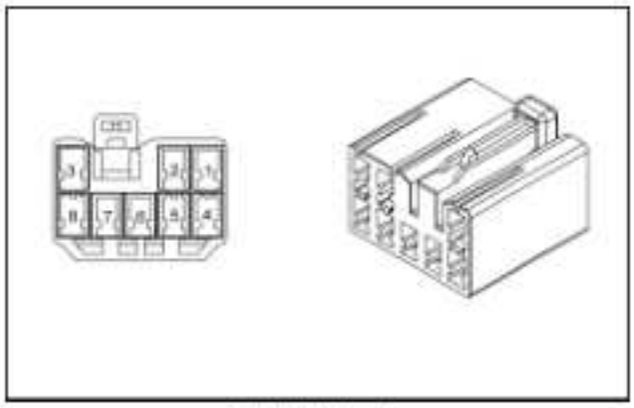


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CONNECTOR X-093 – To cab harness

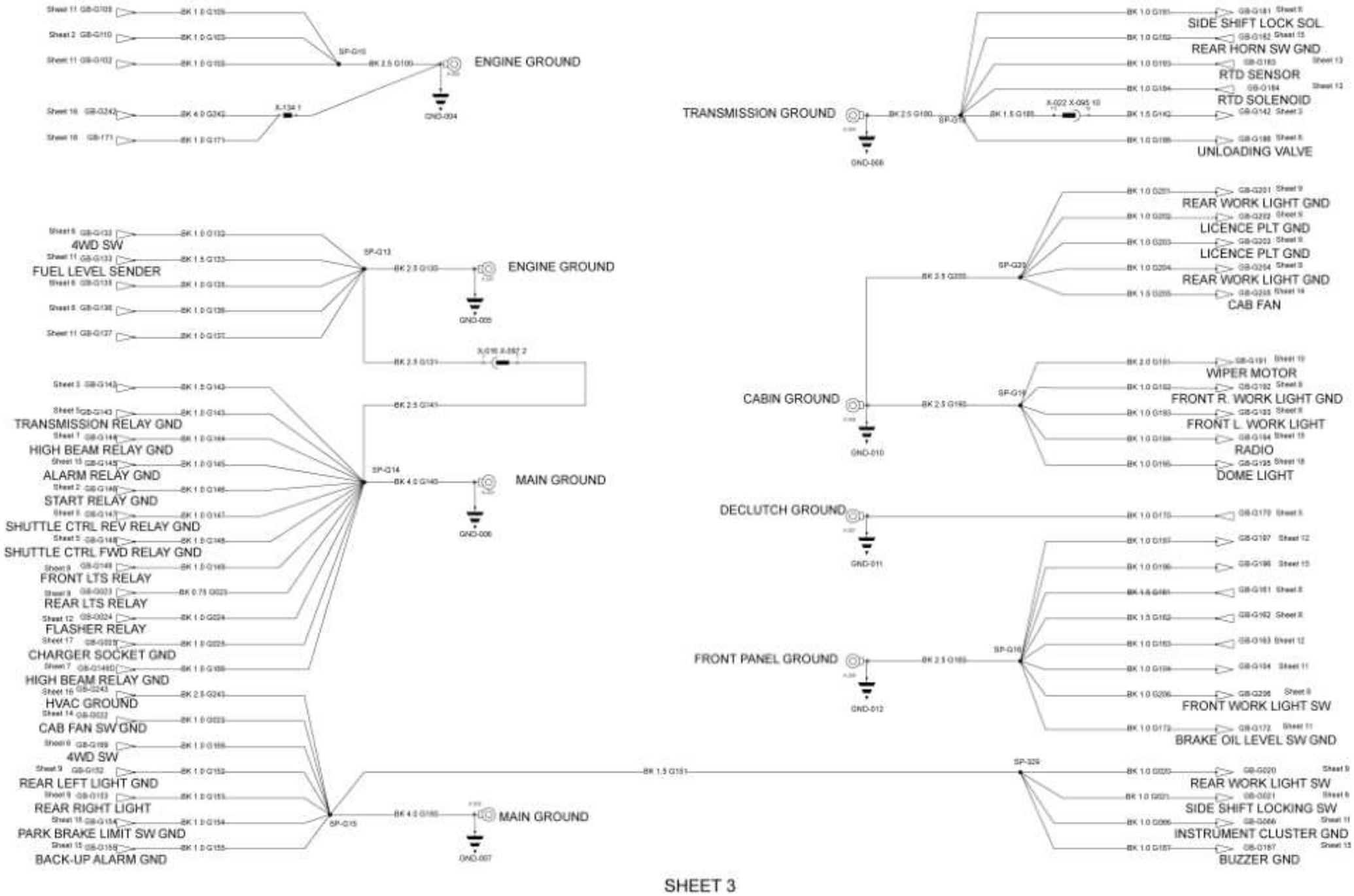
CONNECTOR X-093 – To cab harness		
CAV ID	**WIRE ID**	**COLOR**
1		
2	3320	VT
3	42C1	VT
4	3C06	YE
5	P008	RD
6	6303	BR
7	3573	VT
8	4010	BR



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GROUNDING



SHEET 3

PTX-13TLB3166JA 1

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