SERVICE MANUAL

E215C
E245C ME
Hydraulic Excavator

Part Number
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1st Edition
English 03/2015

NEW HOLLAND
CONSTRUCTION

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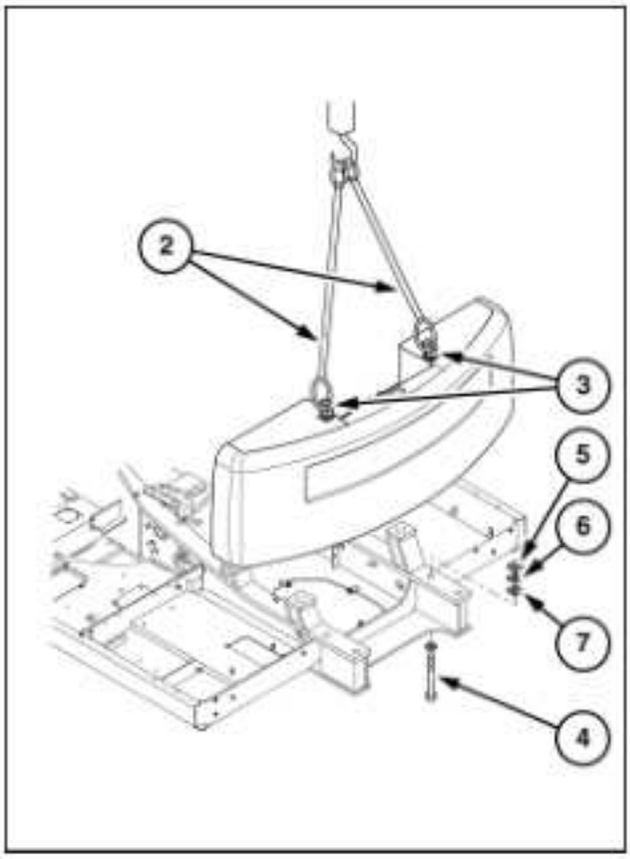
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Counterweight - Install

NOTE: *Approximate weight of counterweight:* ***4900 kg (10803 lb)***.

1. Attach lifting tools **(2)** to eyebolts **(3)** of counterweight.
2. Install shim **(5)**, **(6)**, **(7)** onto the frame as it was.
3. Lift counterweight and install it onto the frame.
4. Install bolts **(4)** and washers to counterweight and tighten temporarily.

   : **46 mm**

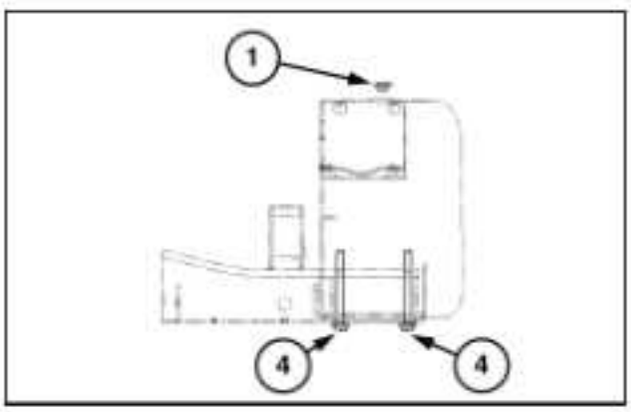


1

5. Remove wire rope.
   Tighten the bolts **(4)** with a power wrench and torque wrench.

   : **46 mm**

   : **1471 - 1765 N·m (1085 - 1302 lb ft)**
6. Remove eyebolts **(3)** and install plugs **(1)** onto the counterweight.



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Electrical system - Electrical schematic sheet 02

Item	Description	Code
33	Mechatro Controller	C–1
34	Fuel supply pump (automatic fuel stop)	M–11
35	Rotary lamp switch (opt.)	SW–40
36	Cab rotary lamp light (opt.)	L–20
37	Tank rotary lamp light (opt.)	L–21
38	Cab rotary lamp light (opt.)	L–22
39	DC - DC converter	E–23
40	Nibbler open/close switch	SW–99
41	Nibbler open proportional solenoid valve (right slide)	PSV–6
42	Nibbler close proportional solenoid valve (left slide)	PSV–7
43	Power boost right switch	SW–20
44	Extra (A1, A2) switch (left handle)	SW–100
45	Horn right switch	SW–10
46	Extra (A2) proportional solenoid valve (right slide)	PSV–8
47	Extra (A1) proportional solenoid valve (left slide)	PSV–9
48	Pressure switch (proportional)	SW–98
49	Seat heater	E–26
50	Auto greasing switch (opt.)	SW–60
51	Auto greasing motor (opt.)	M–8
54	Quick coupler operation solenoid valve	SV–14
55	Quick coupler operation switch	SW–64
56	Diode	D–23
57	Diode	D–22
58	Engine oil level sensor	SE–12
59	Indipendence travel switch	SW–37
60	Engine coolant level switch	SW–24
61	Pressure release switch	SW–96
62	Horn "high"	E–5
63	Horn "low"	E–6
64	Cab work lights switch	SW–26
65	Cab working light front 1	L–7
66	Cab working light front 2	L–8
67	Cab working light front 3	L–15
68	Cab working light front 4	L–16
69	Travel alarm switch	SW–13
70	Travel alarm	E–13
71	Overload alarm select switch	SW–12
72	Overload alarm sensor	SE–26
73	Boom working light right	L–6
74	Boom working light left	L–1
75	Frame working light	L–2
76	Working light switch	SW–55
77	Flasher relay (opt.)	R–19
78	Swing flasher left and working light relay (opt.)	L–3
79	Swing flasher right and working light relay (opt.)	L–4
80	9P Connector	–

Electrical system diagram (No. 2)

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Table 28

Table 29

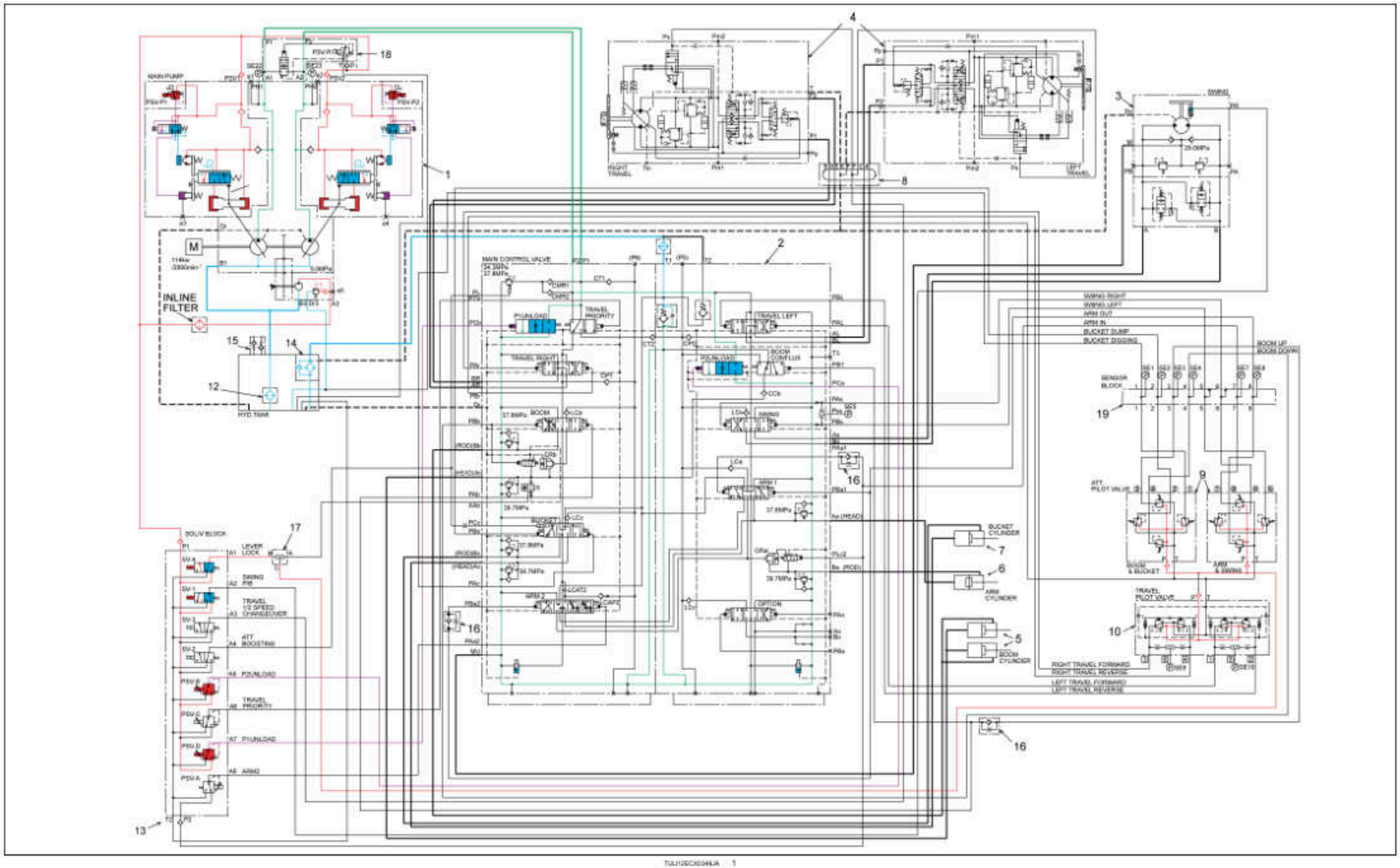
Error code			B074
Trouble			Swing pressure sensor's power source is shortcut
Judging condition			The input voltage from swing pressure sensor is **4.7 V** or more
Symptom			The swing operability becomes poor
Control in the event of failure			Set proportional valve output rate of P1 and P2 pumps to constant current (Current when all operation is in neutral) Only on independent operation of swing, set output of P2 unload proportional valve to **750 mA**
Returned in normal condition			It returns automatically in normal condition
Service diagnosis checking screen	Screen No.	6	B–7 SWING
	Screen No.		
	Screen No.		
Checking object			Checking contents and remedy
1	Swing pressure sensor SE–5		When B074 is cancelled and other error occurs by turning starter switch On after exchanging the connector with other sensor Check sensor unit for possible failure. If failure found, replace it
2	Wiring between swing pressure sensor and controller CN–169F CN–103F		When B074 is displayed after turning the starter switch On after the connector is exchanged with other sensor Check wiring for possible failure according to the wiring checking procedure and repair it if necessary
3	Mechatro controller		Check that the error is corrected after replacement of controller

Table 29

Table 30

Error code			B092
Trouble			Travel right pressure sensor outputs error
Judging condition			After starter switch On and engine does not start yet. And the input voltage from the travel right pressure sensor after starter switch On is in the range of **1.4 V** or more to less than **4.7 V**
Symptom			The travel right operability becomes poor
Control in the event of failure			Normal control
Returned in normal condition			Not returned automatically under normal condition. Switch the power OFF once and turns on it again
Service diagnosis checking screen	Screen No.	6	B–9 TRAVEL (R)
	Screen No.		
	Screen No.		
Checking object			Checking contents and remedy
1	Travel right pressure sensor SE–9		When B092 is cancelled and other error occurs by turning starter switch On after exchanging the connector with other sensor Check sensor unit for possible failure. If failure found, replace it
2	Wiring between travel right pressure sensor and controller CN–301F CN–102F		When B092 is displayed after turning the starter switch On after the connector is exchanged with other sensor Check wiring for possible failure according to the wiring checking procedure and repair it if necessary
3	Mechatro controller		Check that the error is corrected after replacement of controller

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