SERVICE MANUAL

E85CMSR

Midi Excavator

Part number 47516729A
English
April 2013

NEW HOLLAND CONSTRUCTION

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Error code		C044		
Trouble		Boom rod pressure sensor's power source is shortcut.		
Judging condition		The input voltage from boom rod pressure sensor is **4.7 V** or more.		
Symptom		Indication load value of High-reach crane becomes abnormal		
Control in the event of failure		Normal control		
Returned in normal condition		It returns automatically in normal condition		
Service diagnosis checking screen		Screen No.	7	**C-4** BOOM-ROD
		Screen No.		
		Screen No.		
Checking object				Checking contents and remedy
1.	Boom rod pressure sensor **SE-25**			When **C044** 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 boom rod pressure sensor and controller **CN-705F** **CN-104F**			When **C044** 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 47

Error code		C082		
Trouble		**P3** pump pressure sensor outputs error		
Judging condition		After starter switch ON and engine does not start yet. And the input voltage from the P3 pump pressure sensor after starter switch ON is in the range of **1.4 V** or more to less than **4.7 V**.		
Symptom		The **P1** pump 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.	17	
		Screen No.		
		Screen No.		
Checking object				Checking contents and remedy
1.	**P3** pump pressure sensor **SE-80**			When **C082** 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 **P3** pump pressure sensor and controller **CN-424F** **CN-104F**			When **C082** 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 48

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Cab controls - Overview

Cab harness assy (1/2)

Upper harness assy		YT14E00034F1	(02)	
Item	**Part name**	**Part No.**	**Qty.**	**Remarks**
1.	Harness	**YT14E01086P2**	1	
6.	Harness	**YN11E01205P1**	1	Hour meter
7.	Harness	**LF14E01033P1**	1	**12 V** socket

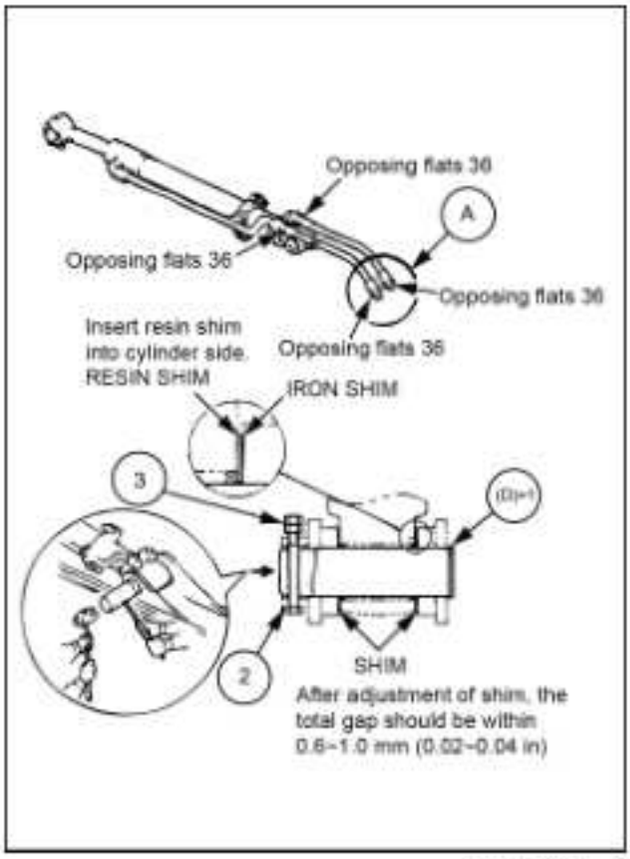
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Completion of removal of front attachments
When the removing and attaching of cylinder are not required, the work is finished.
Removing arm cylinder
Disconnect hose at **(A)** section, and plug both ends.
Plug: Tools (See **Dimension — Plugs ()**).
Plugs for ORS fitting

Tools: Spanner: **36 mm**

Tightening torque : **216 N·m** (**159 lb ft**)

Removing arm cylinder head pin **(D)**.
Loosen nut **(3)**, remove capscrew **(2)** and pull out pin **(D)**.
Removing arm cylinder **(2)** .
Weight of arm cylinder: **70 kg** (**154 lb**)



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Removing boom cylinder
Disconnect hose at **(B)** section. Plug both ends.

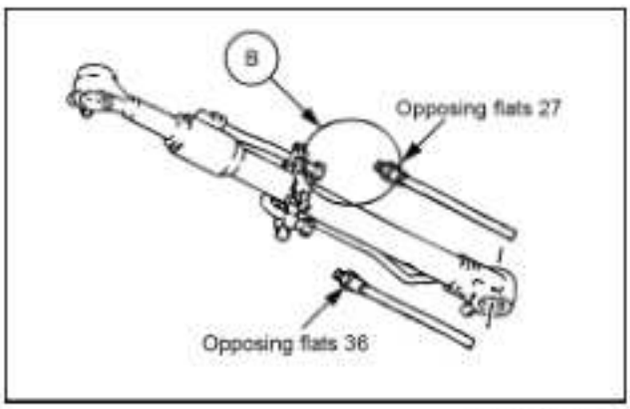
plug : Tools section (See **Dimension — Plugs ()**).

Tools: Spanner: **36 mm**

Tightening torque : **216 N·m** (**159 lb ft**)

Tools: Spanner: **27 mm**

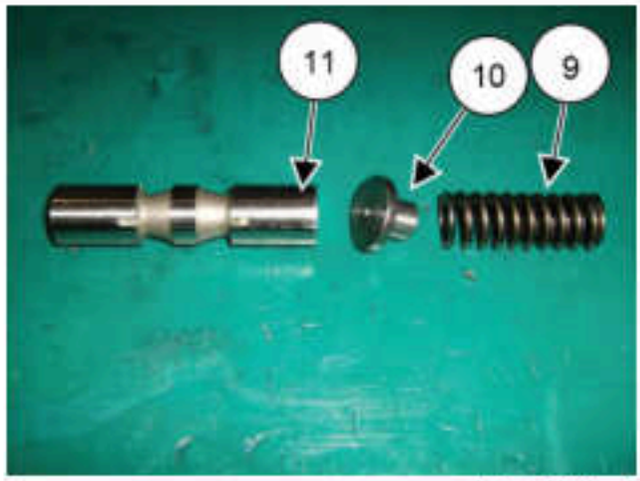
Tightening torque : **108 N·m** (**80 lb ft**)



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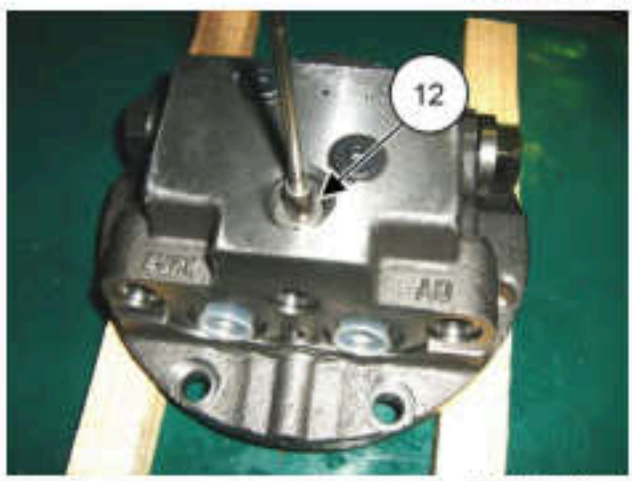
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8. Remove the spring **(9)**, pusher **(10)**, and spool **(11)** from the motor cover. These parts are located under the cover **(8)**.



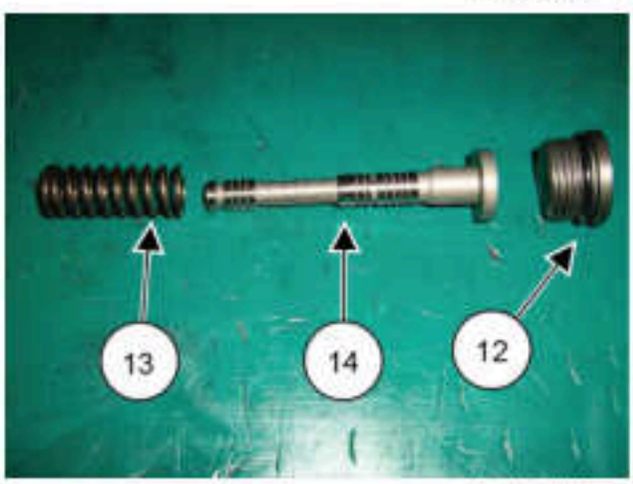
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9. Remove the plug **(12)** from top of the motor cover.



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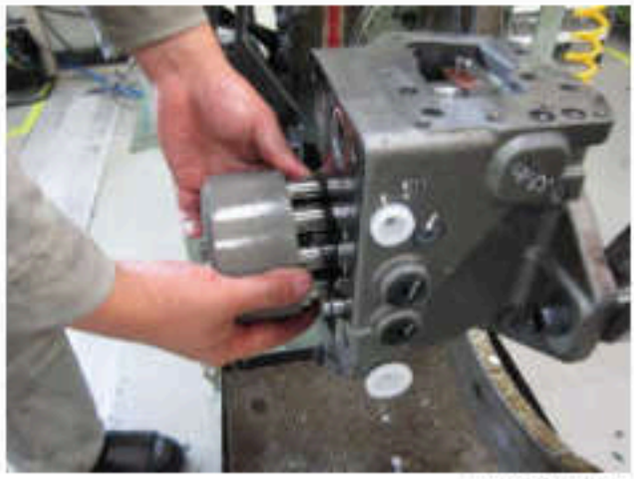
10. Remove the spring **(13)** and spool **(14)** from the motor cover. These parts are located under the plug **(12)**.



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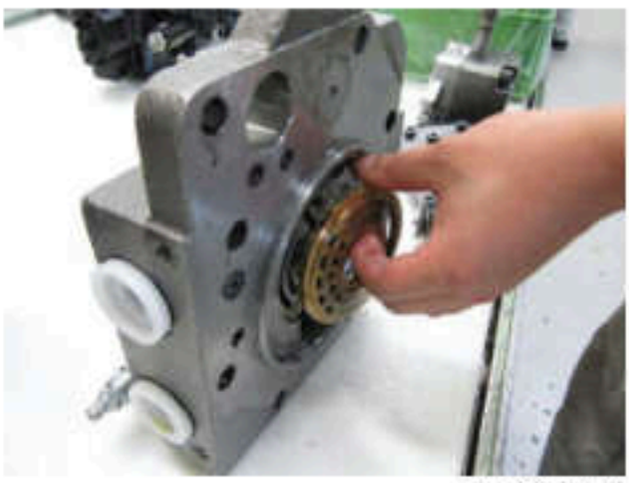
5. Assemble the cylinder block **(141)**, piston sub **(151)** and **(152)** , retainer plate **(153)**, spherical bushing **(156)** and cylinder spring **(157)** and align the spherical bushing with the cylinder block spline and then insert them into the drive shaft **(111)**.



5

ATTENTION: *pay attention not to score the sliding surfaces of the cylinder block, spherical bushing, shoe and swash plate.*

6. Install the valve plate **(313)** to the pump casing **(F)** **(271)** side of the valve cover **(312)** by aligning the valve plate with the spring pin **(885)**.



6

ATTENTION: *apply grease to the installation surfaces of the valve cover and valve plate to avoid dropping. Pay attention not to mistake the suction and delivery sides of the valve plate.*

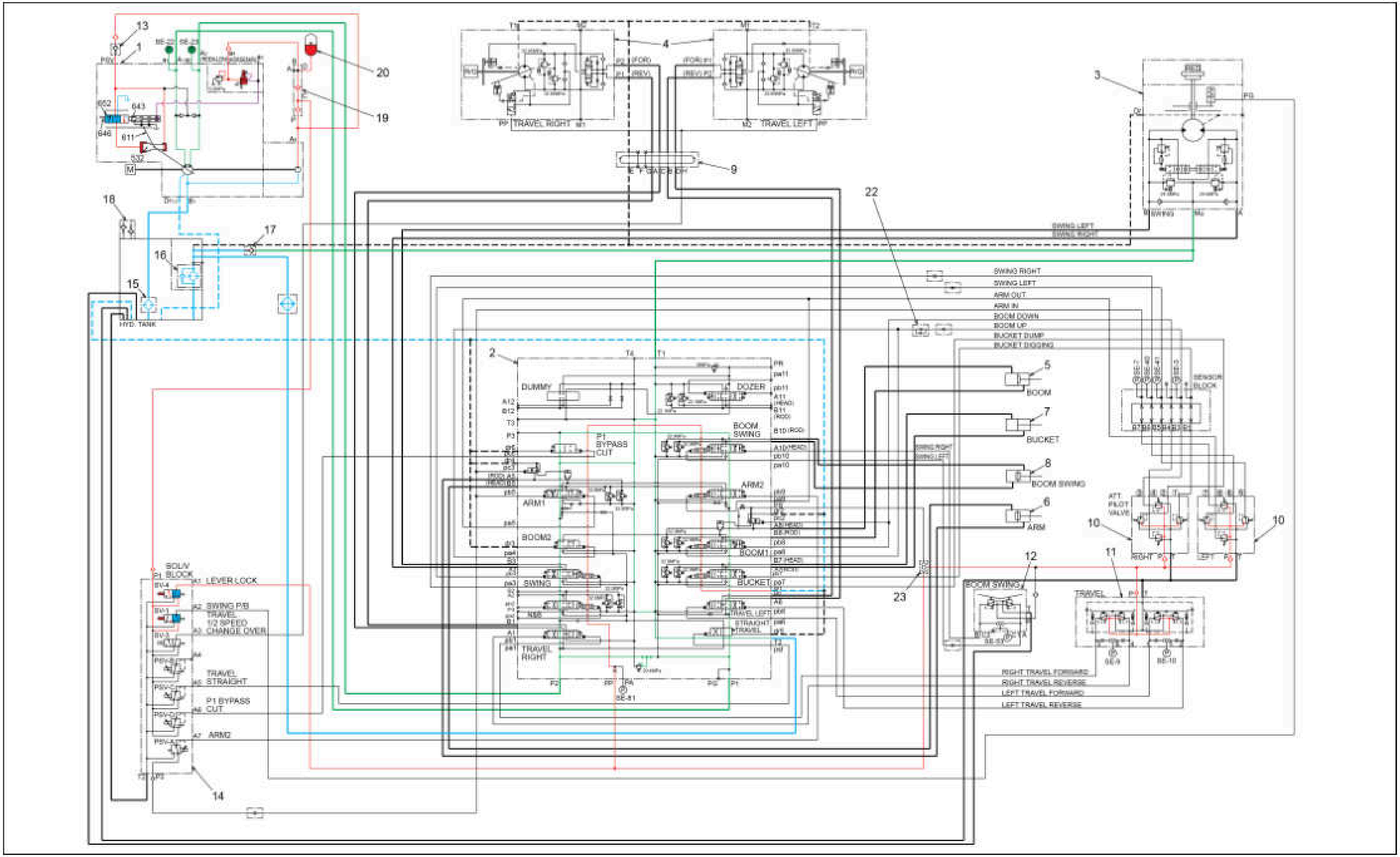
7. Install the spool assy **(650)** to the pump casing **(F)** **(271)**.



7

ATTENTION: *install the spool assy with its oval hole for the pin **(653)** facing upward.*

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