KOBELCO

SERVICE MANUAL

Hydraulic Excavator

70SR-2 Acera

S5YT0010E01

Issued November 2010

APPLICABLE:
70SR-2 Acera . . . . . YT06-18001 and higher

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23.3 HARNESS

23.3.1 HARNESS LIST

DIVISION		DRAWING No.		HARNESS			REMARKS
POSITION	ITEM	NAME	ASSEMBLY No.	CODE No.	NAME	DRAWING No.	
UPPER FRAME	3.2	INSTRUMENT PANEL ASSY	YT17M00074F1				
	3.3	CONTROLLER INSTALL	YT22E00091F1				
	3.4	OPERATOR CONTROLS	YT03M00174F1				
	3.5	UPPER ELECTRIC ASSY	YT03E00009F1				
	3.6	UPPER HARNESS ASSY	YT13E00099F1	1	HARNESS	YT13E01217P1	UPPER HARNESS
				2	CABLE	YT13E01145P2	STARTER
				3	CABLE	YT13E01142P1	BATTERY-RELAY
				4	CABLE	YT13E01143P1	BATTERY-GROUND
				5	CABLE	YT13E01144P2	BATTERY-BATTERY
				6	CABLE	LE13E01006P1	FLOOR GROUND
	3.7	UPPER HARNESS ASSY (FLOOR)	LF13E00040F1	1	HARNESS	LF13E01057P2	FLOOR HARNESS
				3	CABLE	LE13E01005P1	FLOOR GROUND
				4	HARNESS	YY13E01268P1	CAB SUB
CAB	3.8	CAB HARNESS	LF14E00012F1	1	HARNESS	LF14E01031P2	
				6	HARNESS	YN11E01205P1	
				7	HARNESS	LF14E01029P1	
BOOM	3.9	BOOM HARNESS ASSY	YT15E00003F1	1	HARNESS	YT15E01012P2	BOOM
LIGHT	3.10	BOOM LIGHT INSTALL	LE80E00002F1				
	3.11	UPPER LIGHT INSTALL	YT80E00012F1				
	3.12	LAMP INSTALL	YT80E00015F1	1	HARNESS	YT80E00015F1	FLASHER LEFT
				2	HARNESS	YT80E01014P1	FLASHER RIGHT
	3.13	ALARM ASSY	YT53E00004F2	7	HARNESS	LC53E01004P1	

Note

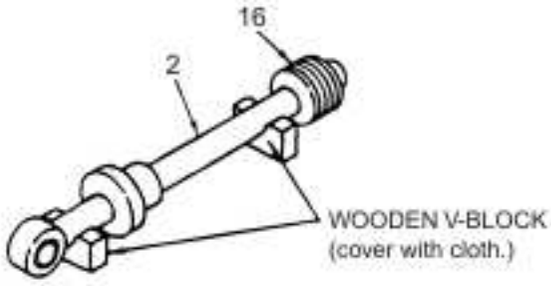
The parts number may be changed due to the improvement of machine, so use the number for reference only.

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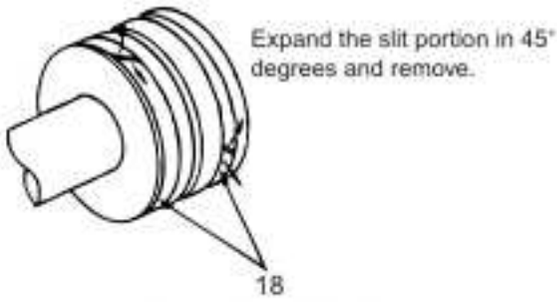
In this case, apply the hoisting force equivalent to the weight of piston rod, because the weight of piston rod weights upon the rod cover.

(7) Place pulled out piston rod assembly (2) on the wooden V-block horizontally.



Placing piston rod assembly

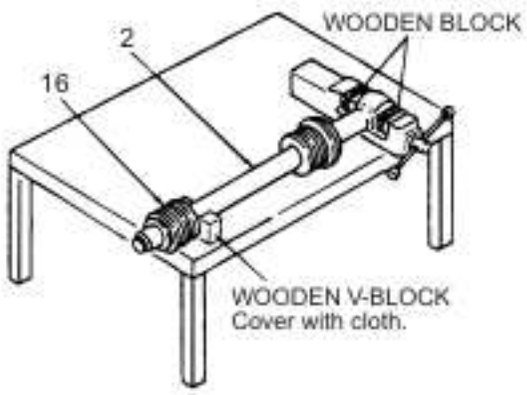
Remove slide ring (18).



Removing slide ring

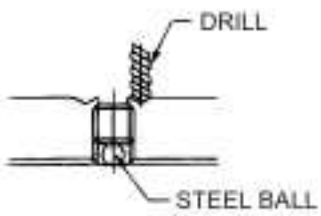
32.2.1.3.2 REMOVING PISTON assembly

(1) Fix piston rod (2) grasping the installing pin portions with vise. Then fix it in strength so that it can withstand the tightening torque for piston rod (2) because the piston rod (2) is secured with large tightening torque.



Fixing piston rod assembly

(2) Shave off the caulked section on set screw (20) with hand drill, loosen set screw and take out steel ball (21).



Removing setscrew

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Table 46-29

Error code	B083		
Trouble	Swing left pressure sensor's wiring is disconnected.		
Judging condition	The input voltage from swing left pressure sensor is 0.1V or less.		
Symptom	Swing parking brake does not work.		
Control in the event of failure	Swing parking solenoid valve is changed to non-excitation.		
Returned in normal condition	It returns automatically in normal condition.		
Service diagnosis checking screen	Screen No.	6	B-7 SWING (Higher Pressure is selected between swing left and right, and the higher one is indicated.)
	Screen No.		
	Screen No.		

Checking object		Checking contents and remedy
1	-Swing pressure sensor SE-41	When B083 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-127F CN-101F	When B083 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.

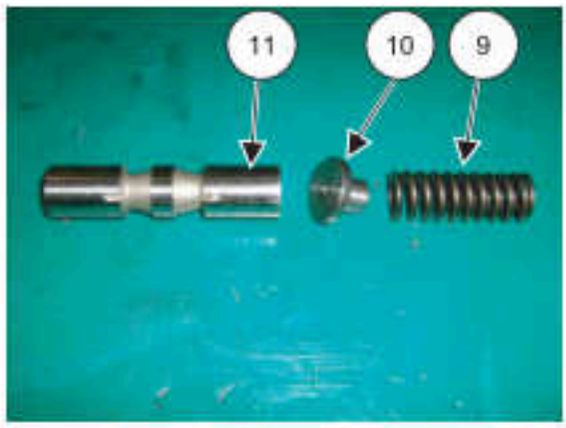
Table 46-30

Error code	B084		
Trouble	Swing left pressure sensor's power source is shortcut.		
Judging condition	The input voltage from bucket dump pressure sensor is 4.7V or more.		
Symptom	Swing parking brake does not work.		
Control in the event of failure	Swing parking solenoid valve is changed to non-excitation.		
Returned in normal condition	It returns automatically in normal condition.		
Service diagnosis checking screen	Screen No.	6	B-7 SWING (Higher Pressure is selected between swing left and right, and the higher one is indicated.)
	Screen No.		
	Screen No.		

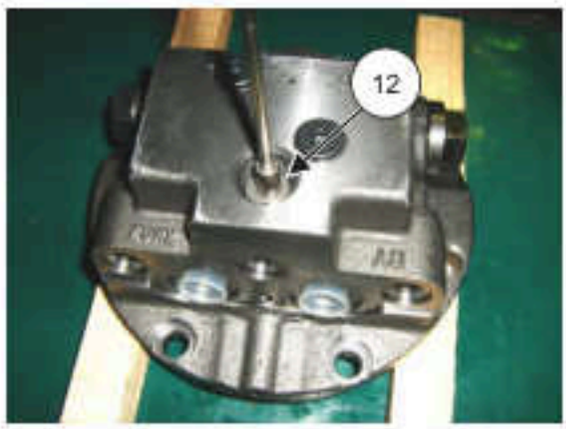
Checking object		Checking contents and remedy
1	-Swing pressure sensor SE-41	When B084 is cancelled and other error occurs by turning starter switch on after exchanging the connector with other sensor. Check sensor unit for possible failure. If failure found, replace it.
2	-Wiring between swing pressure sensor and controller CN-127F CN-101F	When B084 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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8. Remove the spring (9), pusher (10), and spool (11) from the motor cover. These parts are located under the cover (8).



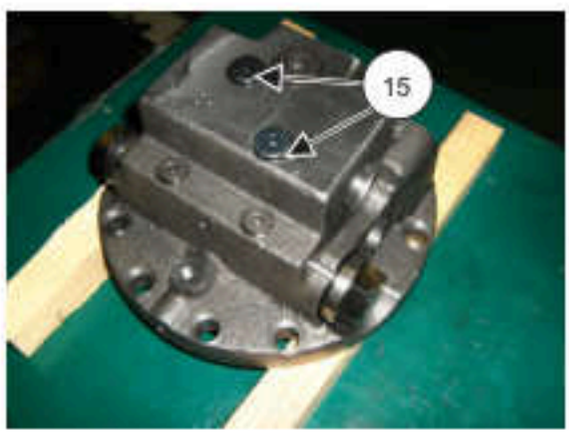
9. Remove the plug (12) from top of the motor cover.



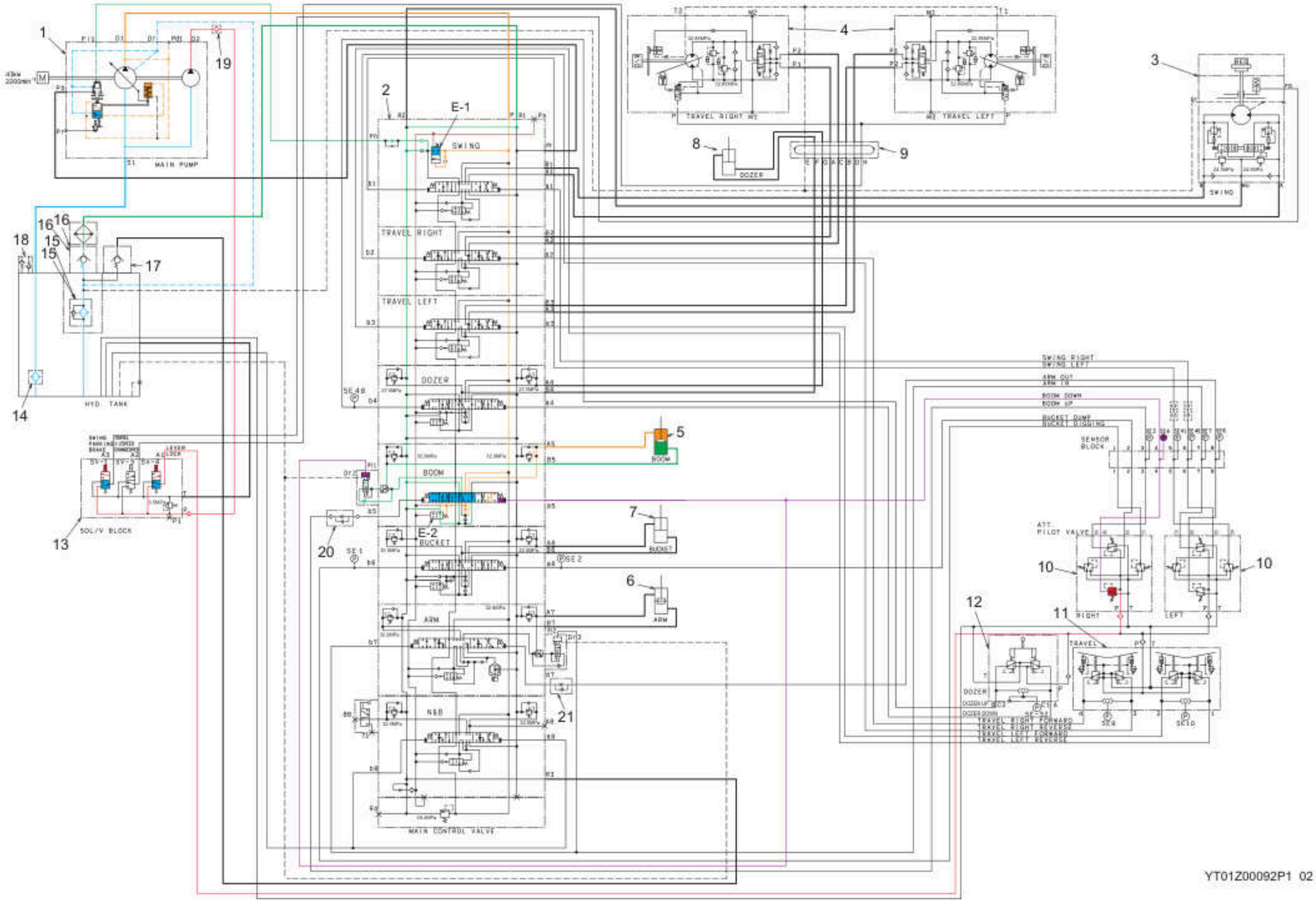
10. Remove the spring (13) and spool (14) from the motor cover. These parts are located under the plug (12).



11. Remove 2 plugs (15).



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YT01Z00092P1 02

Boom circuit: Boom lower (down) operation

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