SERVICE MANUAL

E135BSR
ROPS Tier III
Crawler Excavator

Print No. 84396007A

NEW HOLLAND CONSTRUCTION

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1. OUTLINE

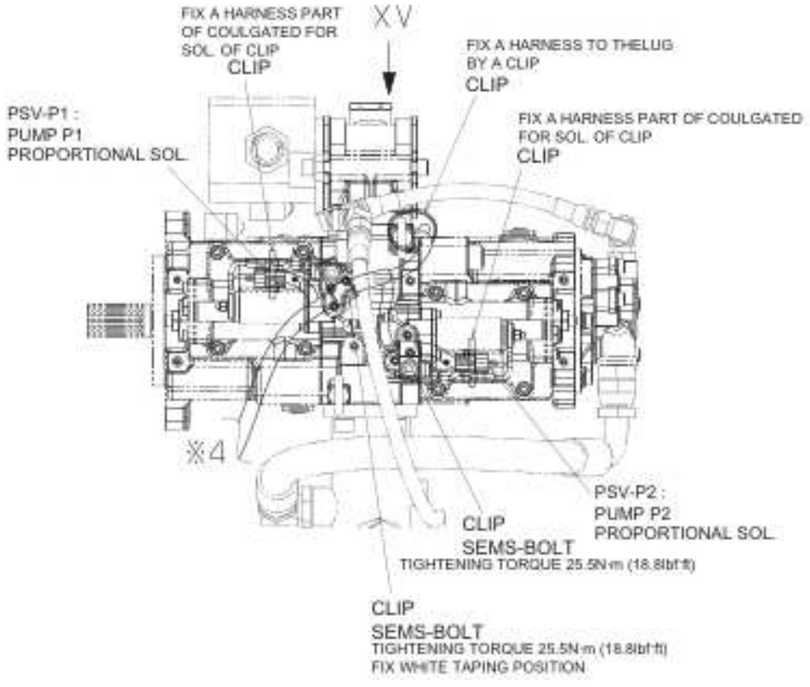
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Book Code No. **S5YN0129E01**

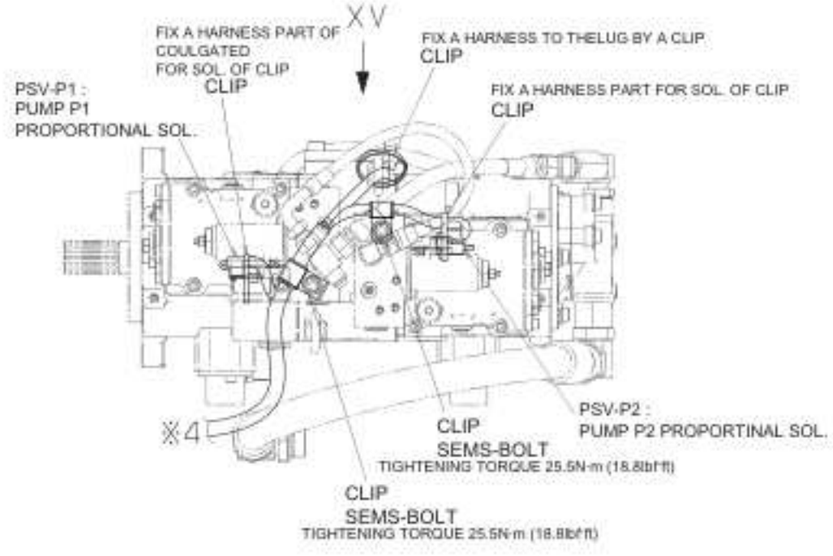
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23.3.6 UPPER HARNESS ASSY (4/8)



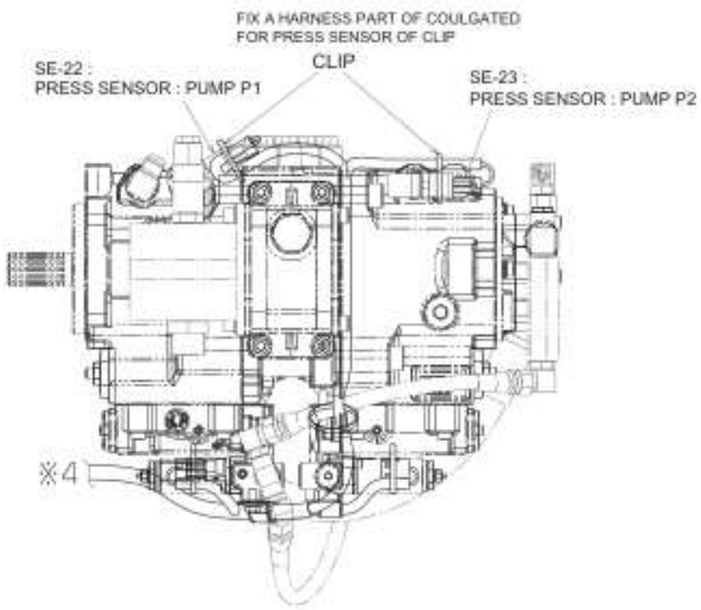
VIEW Ⅲ

(DETAIL OF PUMP P1, P2 PROPORTICNAL SOL. INSTALL)



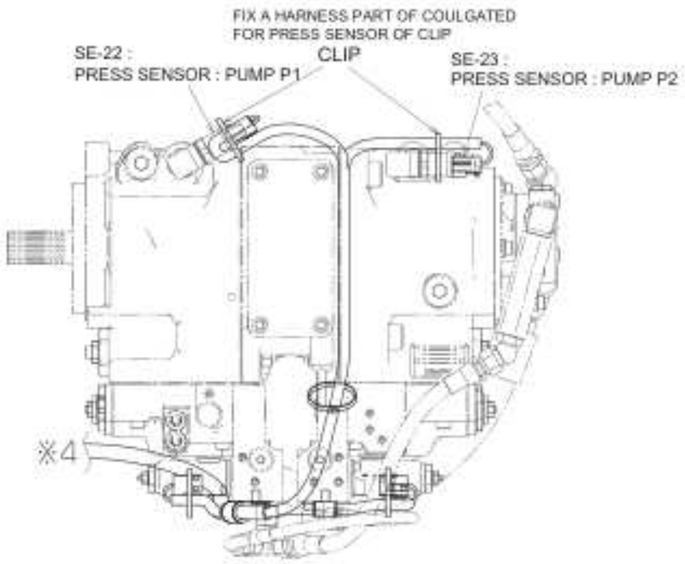
VIEW Ⅲ

(DETAIL OF PUMP P1, P2 PROPORTICNAL SOL. INSTALL)
(CASE OF PUMP AUTO EMERGENCY FUNCTION)



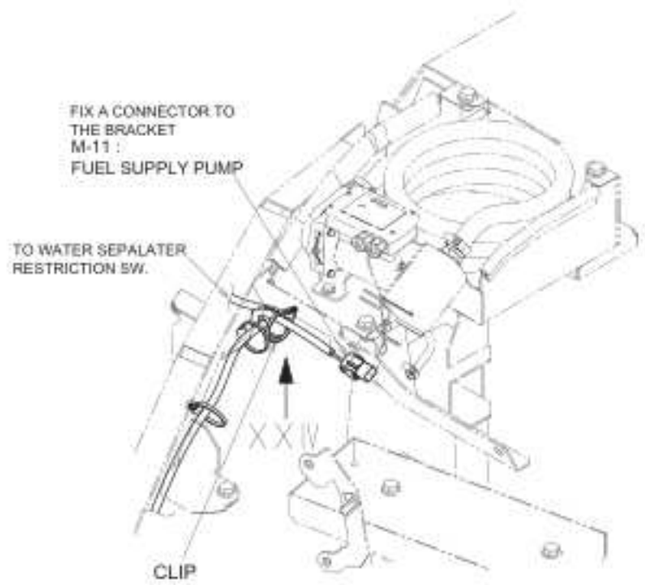
VIEW XV

(DETAIL OF PRESS SENSOR : PUMP P1, P2 INSTALL)



VIEW XV

(DETAIL OF PRESS SENSOR : PUMP P1, P2 INSTALL)
(CASE OF PUMP AUTO EMERGENCY FUNCTION)



VIEW XXIII

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Code No. Parts Name Parts No. Use Applicable Machine	Specifications	Description

M - 4

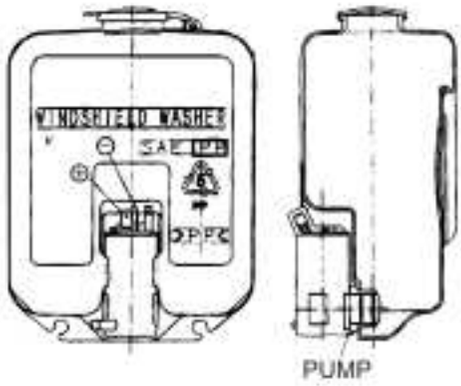
Motor (Reservoir)

YT54C00003F1

Window washer

LC10 - 07001 ~
YC10 - 03501 ~
YF05 - 02001 ~
YU05 - 02001 ~
YY05 - 12001 ~
YH05 - 07001 ~
YH06 - 08001 ~

Rated voltage	DC 24V
Injection flow	1.2L (0.32 gal) / min or more
Capacity	1.5L (0.4 gal)
Time rated	Max. continuous 60 sec.
Injection nozzle	ϕ 1 X 2 pcs.



R - 1

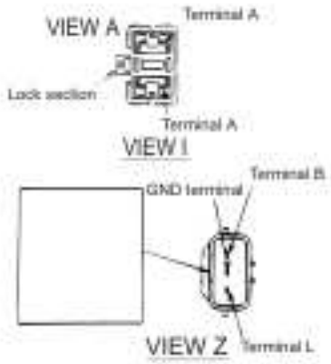
Relay

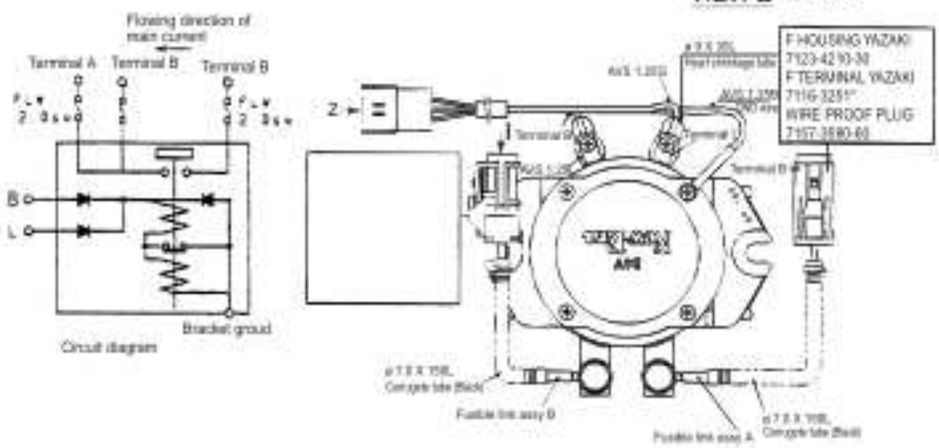
YN24S00008F1

Battery relay

YN11 - 45001 ~
YQ11 - 06001 ~
LC10 - 07001 ~
YC10 - 03501 ~
YF05 - 02001 ~
YU05 - 02001 ~
YY05 - 12001 ~
YH05 - 07001 ~
YH06 - 08001 ~

Rated voltage / current	At start 24V2000A(0.1 sec) At charge 28V120A(Continuous)
Exciting current	0.4A or less / 24V
Contact pressure	37.2N {8.4 lb} or more
Closed circuit voltage	16V or less
Open circuit voltage	7V or less
Insulation resistance	3MΩ or more/500V megger





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Table46-89

Error code	R134			
Trouble	Swing flasher right relay error			
Judging condition	The mechatro controller output line to swing flasher right relay is short-circuited with the power source.			
Symptom	Right swing flasher does not light.			
Control in the event of failure	Relay output is stopped.			
Returned in normal condition	When the power is OFF			
Service diagnosis checking screen	Screen No.	22	D13	
	Screen No.			
	Screen No.			
Checking object			Checking contents and remedy	
1	• Swing flasher relay R-19		When error is cancelled after removing connector (CN-74F) of swing flasher relay, check relay unit for failure, replace it with new one if failed. When resistance between relays (HB) and (HC) is 0 Ω, it is in abnormal condition. 	
2	• Wiring between swing flasher relay and controller CN-74F, CN-109F		When R134 is left displayed with the relay removed Check that no power 24V is produced on relay (-) line (as shown right upper figure C) according to the wiring checking procedure and replace it if necessary.	
3	• Mechatro controller		Check that the error is corrected after replacement of controller.	

Table46-90

Error code	R144			
Trouble	Swing flasher left relay error			
Judging condition	The mechatro controller output line to swing flasher left relay is short-circuited with the power source.			
Symptom	Left swing flasher does not light.			
Control in the event of failure	Relay output is stopped.			
Returned in normal condition	When the power is OFF			
Service diagnosis checking screen	Screen No.	22	D14	
	Screen No.			
	Screen No.			
Checking object			Checking contents and remedy	
1	• Swing flasher relay R-19		When error is cancelled after removing connector (CN-74F) of swing flasher relay, check relay unit for failure, replace it with new one if failed. When resistance between relays (HB) and (HC) is 0 Ω, it is in abnormal condition. 	
2	• Wiring between swing flasher relay and controller CN-74F, CN-109F		When R144 is left displayed with the relay removed Check that no power 24V is produced on relay (-) line (as shown right upper figure B) according to the wiring checking procedure and replace it if necessary.	
3	• Mechatro controller		Check that the error is corrected after replacement of controller.	

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3.
Installing feedback lever (See Fig."Regulator exploded view")
Insert pin (897) of feedback lever (611) into the pin hole of the sleeve and fix the feedback lever with fulcrum plug (614).



Installing feedback lever (611)

CAUTION

Operate the feedback lever and make sure that it does not have much looseness and that it operates without catching.

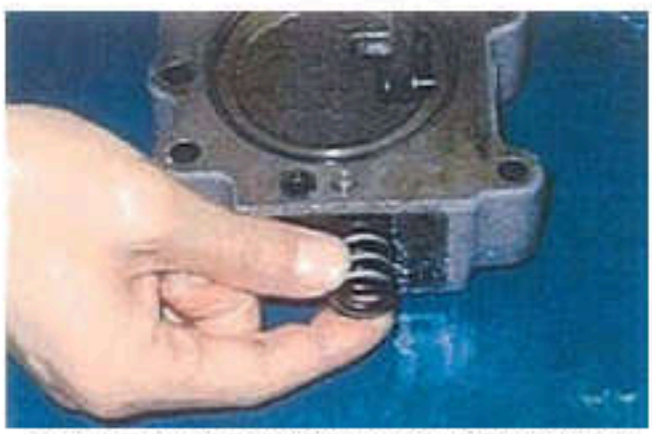
4.
Installing plug
Place the prevention plug (616).



Installing plug (616)

5.
Installing spring seat, pilot spring and plunger (See Fig."Regulator exploded view")
Place spring seat (624), pilot spring (646) and plunger (627) into the hole in the sleeve.

6.
Installing cover (See Fig."Regulator exploded view")Attach cover (656) to casing (601) and fasten them together with socket bolts (402).



Installing spring seat (624),pilot spring (646) and plunger (627)

Note

The cover is fitted with adjusting screw (924) and hex nut (801).

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Note

When attach plug (324) to rear flange (301), insert carefully so as not to deform spring (328).

5. Temporarily tighten plug (324) (2 pcs) into rear flange (301).

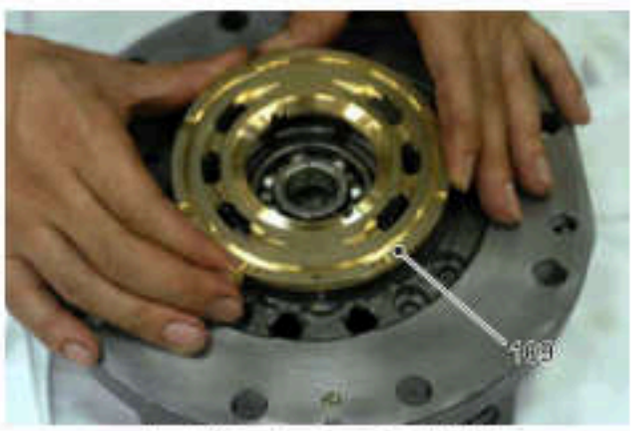
(15) Assembling rear flange mounted parts

1. Apply hydraulic fluid to ball bearing (150), and fit ball bearing (150) into rear flange (301).
2. Insert two parallel pins (341) in the pin holes of rear flange (301).
3. Apply grease to the mating face of timing plate (109) in contact with rear flange (301) of timing plate (109).



Installing ball bearing (150)

4. Fit timing plate (109) on rear flange (301) using parallel pins (341) as the guide.

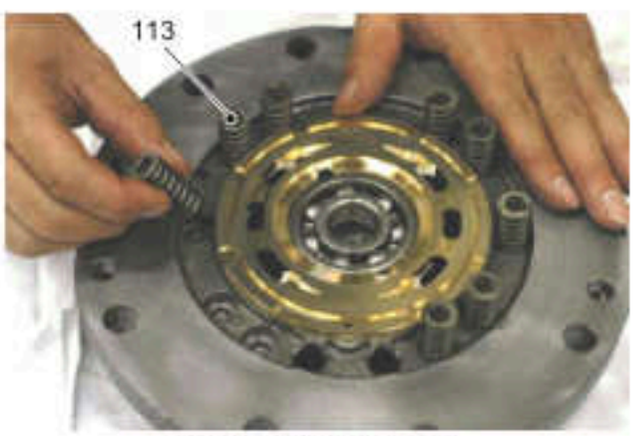


Installing timing plate (109)

Note

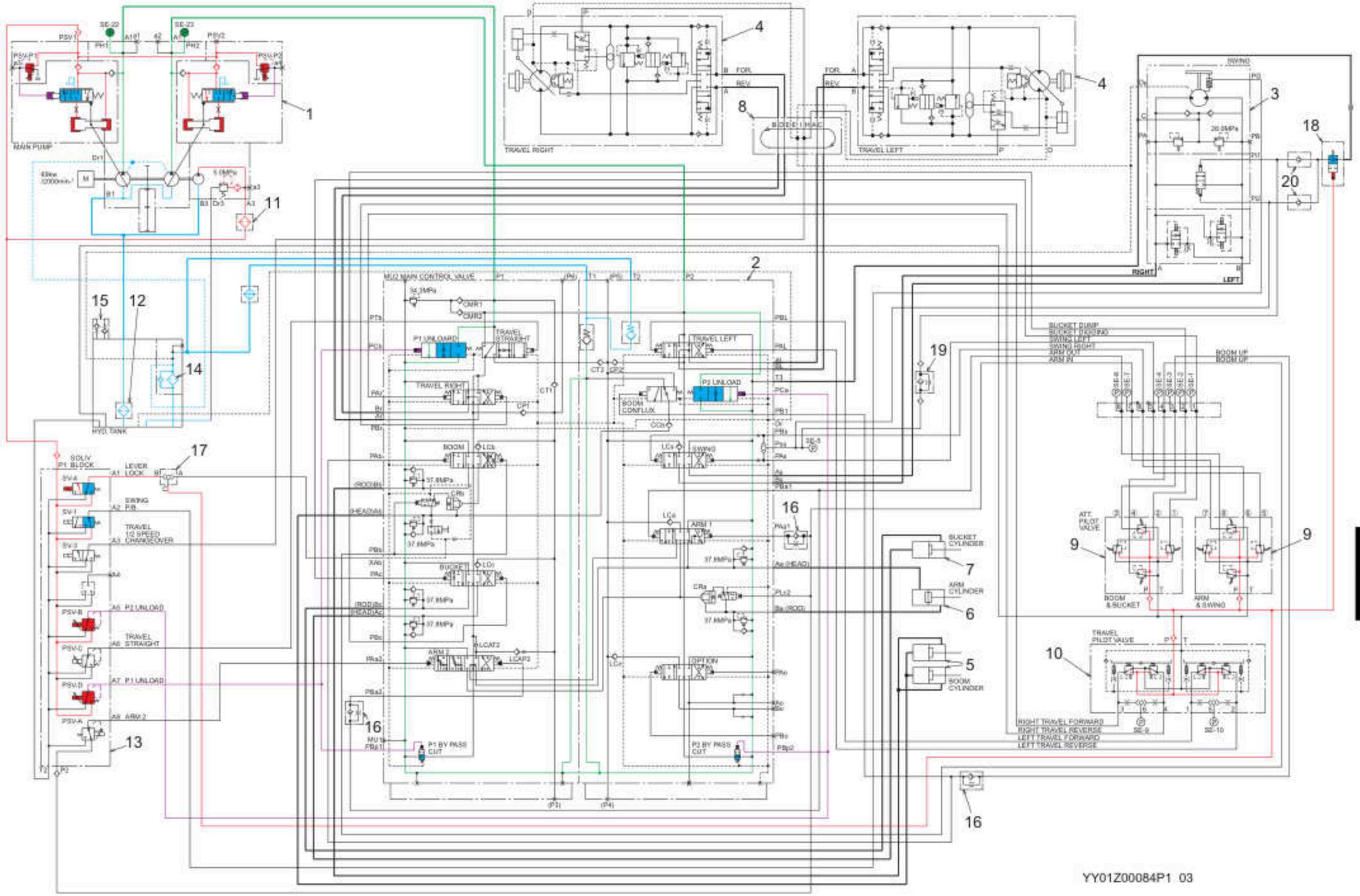
Fitting of timing plate (109) is carried out until timing plate (109) adheres to rear flange (301).
Adhesion prevents from dropping timing plate (109) from rear flange (301) when mounting rear flange (301) on spindle (2).

5. Mount ten springs (113) on the hole of rear flange (301).



Installing spring (113)

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PRESSURE DRAIN (RELEASE) CIRCUIT : At pressure release mode.

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