KOBELCO

SERVICE MANUAL

Hydraulic Excavator

260SRLC-3

Tier 4

S5YF0014E01

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1st Edition

APPLICABLE:
260SRLC-3 . . . . . YU07-04001~

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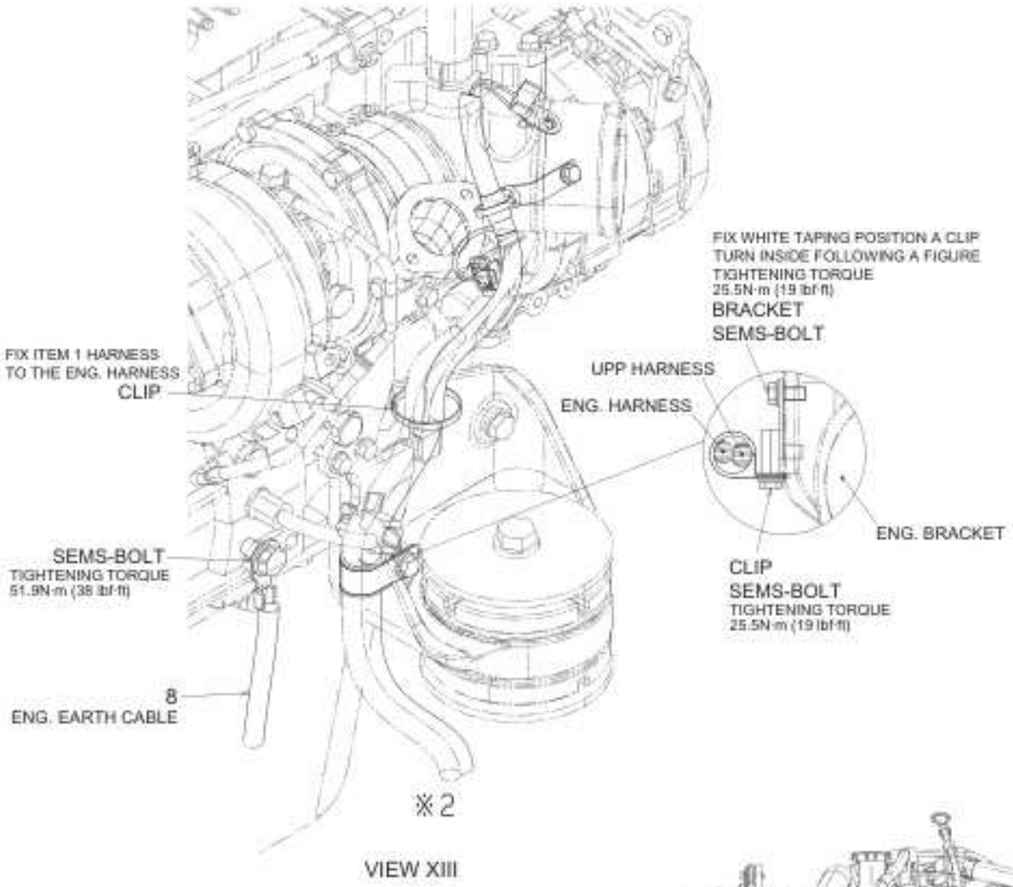
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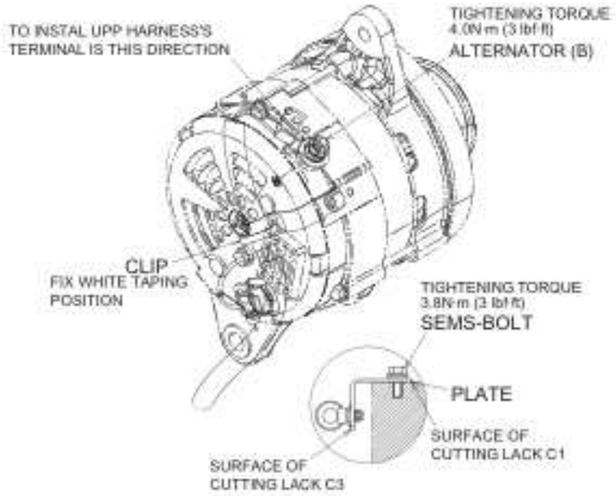
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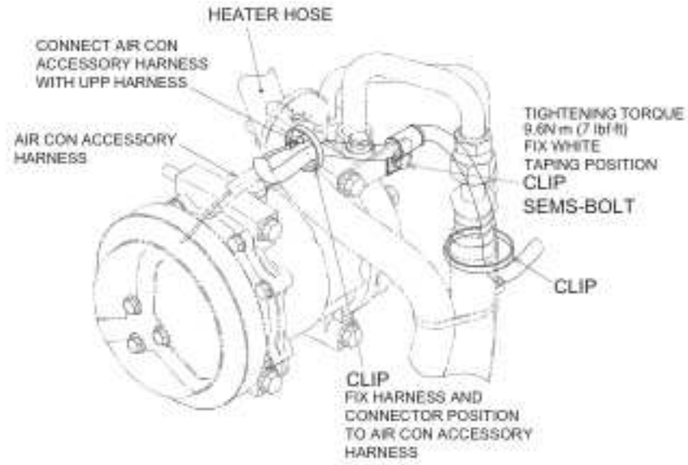
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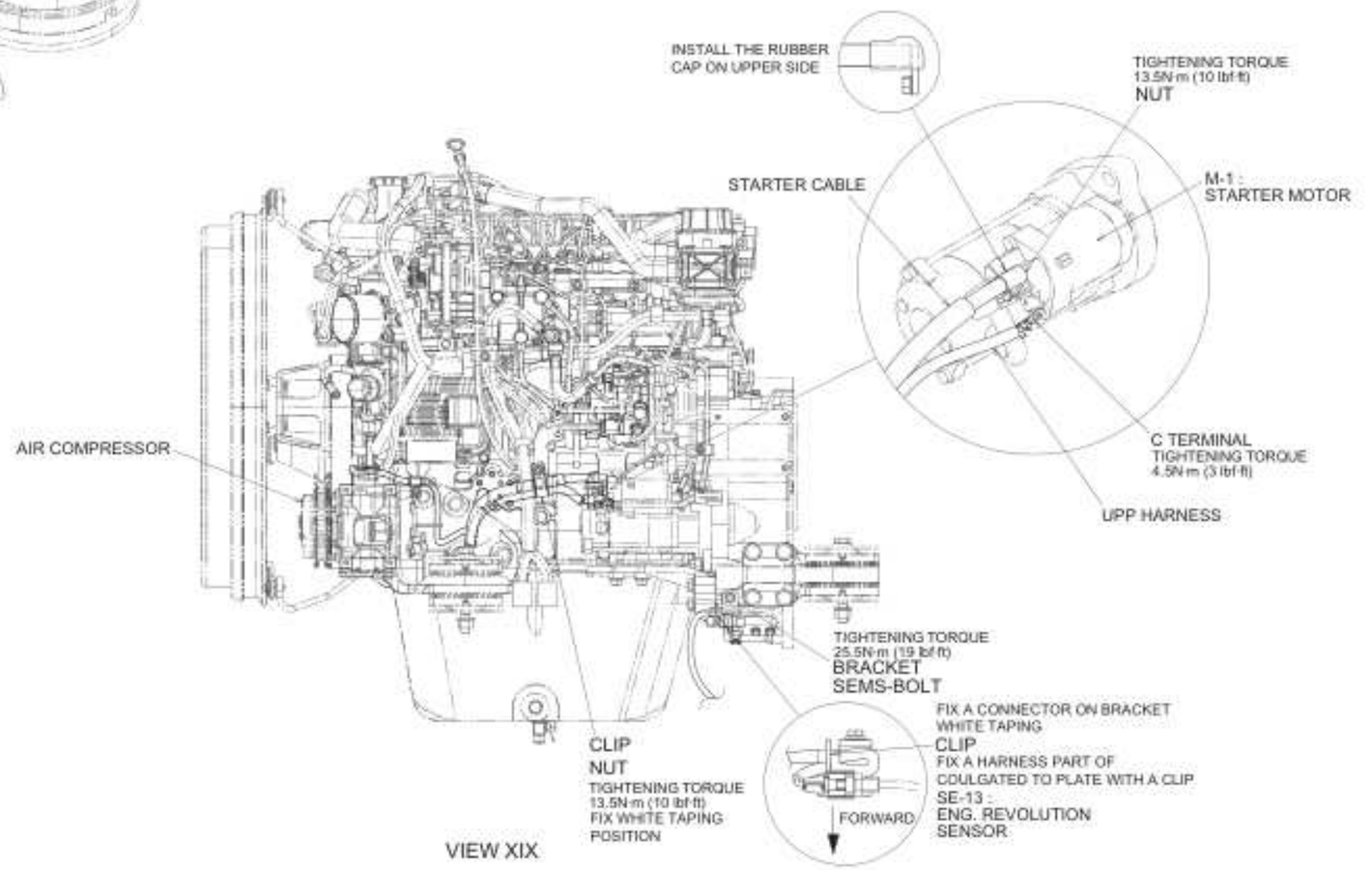
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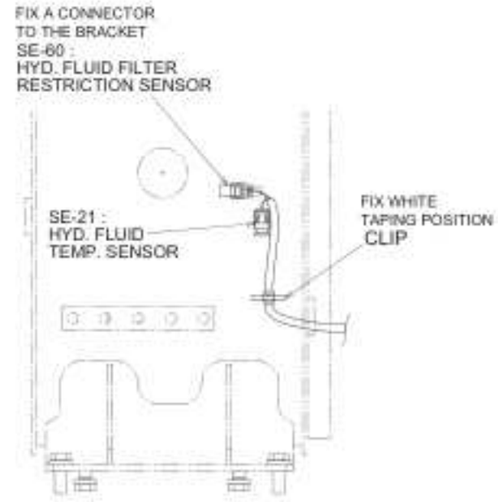
DETAIL OF ALTERNATOR



DETAIL OF AIR COMPRESSOR



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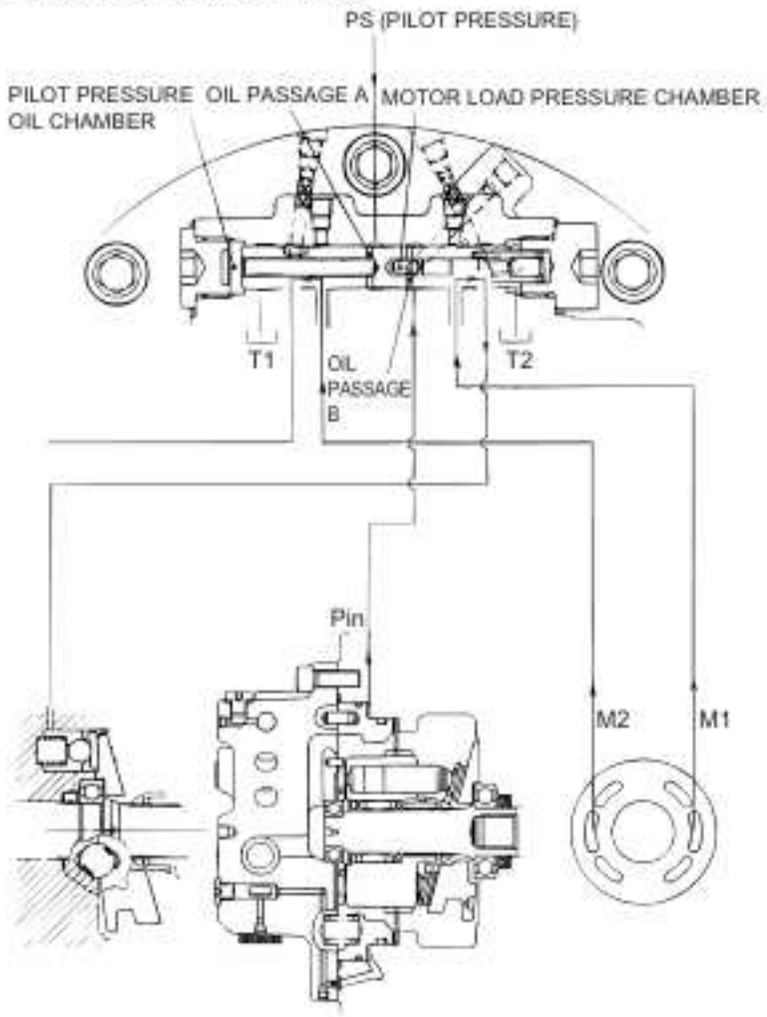
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(2) Auto 2-speed change over operation

This piston motor is available to select the position where the motor capacity is fixed to the low speed (large capacity) and the position auto 2-speed position containing the motor capacity section function corresponding to the load pressure of the motor.

1.
Selection of low speed (large capacity) fixing position
The condition where the motor capacity is fixed to the low speed (large capacity) is shown in Fig. When fixed to low speed (large capacity). Turn the speed control switch to low speed, and the pilot pressure acting on Ps port returns into the tank and consequently the motor capacity control valve housed in the motor is fixed to the low speed (large capacity) position.
2.
Selection of auto 2-speed position
The condition of auto 2-speed position where the motor capacity is selected according to the load pressure is shown in "High speed (low capacity) in Auto 2-speed", "Low speed (large capacity) in Auto 2-speed" Fig.. Turn the speed control switch to high speed and the specified pressure acts on Ps port, and the pressure oil which is acted on Ps port acts on the front face of the motor capacity control valve housed in the motor, and the auto 2-speed position which switches the motor capacity according to the load pressure to the motor can be obtained.
3.
High speed (low capacity) position (See "High speed (low capacity) in Auto 2-speed" Fig..)
The motor high speed condition at auto 2-speed position is shown in below Fig.. Apply the specified pilot pressure on Ps port, and the pilot pressure oil flows through oil passage A and acts on the pilot hydraulic pressure chamber on the front face of the motor capacity control valve and pushes the motor capacity control valve rightward. And load pressure Pin to the motor flows through oil passage B, acts on the motor load pressure chamber, and pushes the motor capacity control valve leftward. When Pin is lower than the motor capacity control pressure P which is decided with a ratio of the pressure receiving areas of the pilot pressure and motor load pressure, the motor capacity control valve is maintained in the condition shown in "High speed (low capacity) in Auto 2-speed" Fig. and the motor is operated in high speed (low capacity) mode.



High speed (low capacity) in Auto 2-speed

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Table 46-81

Error code	H013		
Trouble	Accel potentiometer is disconnected.		
Judging condition	The input voltage from accel potentiometer is 0.1V or less.		
Symptom	LOW idling is fixed.		
Control in the event of failure	LOW idling is fixed.		
Returned in normal condition	It returns automatically in normal condition.		
Service diagnosis checking screen	Screen No.	2	H-1 ACCEL VOLT.
	Screen No.		
	Screen No.		

	Checking object	Checking contents and remedy
1	-Accel potentiometer SE-16	Measure the resistance between terminals of speed sensor. Normal value: 1.6 to 2.4 kilo-ohms Turn the potentiometer and measure resistance between signal and GND.
2	-Wiring between accel potentiometer and controller CN-402F CN-102F	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 46-82

Error code	H014		
Trouble	Accel potentiometer's power source is shortcut.		
Judging condition	The input voltage from accel potentiometer is 4.7V or more.		
Symptom	LOW idling is fixed.		
Control in the event of failure	LOW idling is fixed.		
Returned in normal condition	It returns automatically in normal condition.		
Service diagnosis checking screen	Screen No.	2	H-1 ACCEL VOLT.
	Screen No.		
	Screen No.		

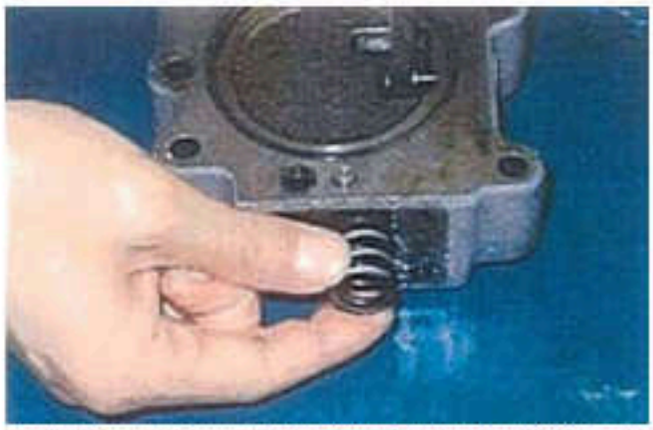
	Checking object	Checking contents and remedy
1	-Accel potentiometer SE-16	Measure the resistance between terminals of accel potentiometer. 1.6 to 2.4 kilo-ohms Turn the potentiometer and measure resistance between signal and GND.
2	-Wiring between accel potentiometer and controller CN-402F CN-102F	Check 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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CAUTION

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

4. nstalling 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.
5. 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 set screw (924) and hex nut (801).

6. Assembling the Pf sleeve and the pilot piston (See Fig. "Regulator exploded view")
   Assemble Pf sleeve (631) and pilot piston (643) into casing (601).



Assembling the sleeve (631) and the pilot piston (643).

7. Installing valve casing (See Fig. "Regulator exploded view")
   Attach valve casing (325) fitted with solenoid proportional reducing valve (079) to casing (601) and fasten them together with socket bolts (407)(408).

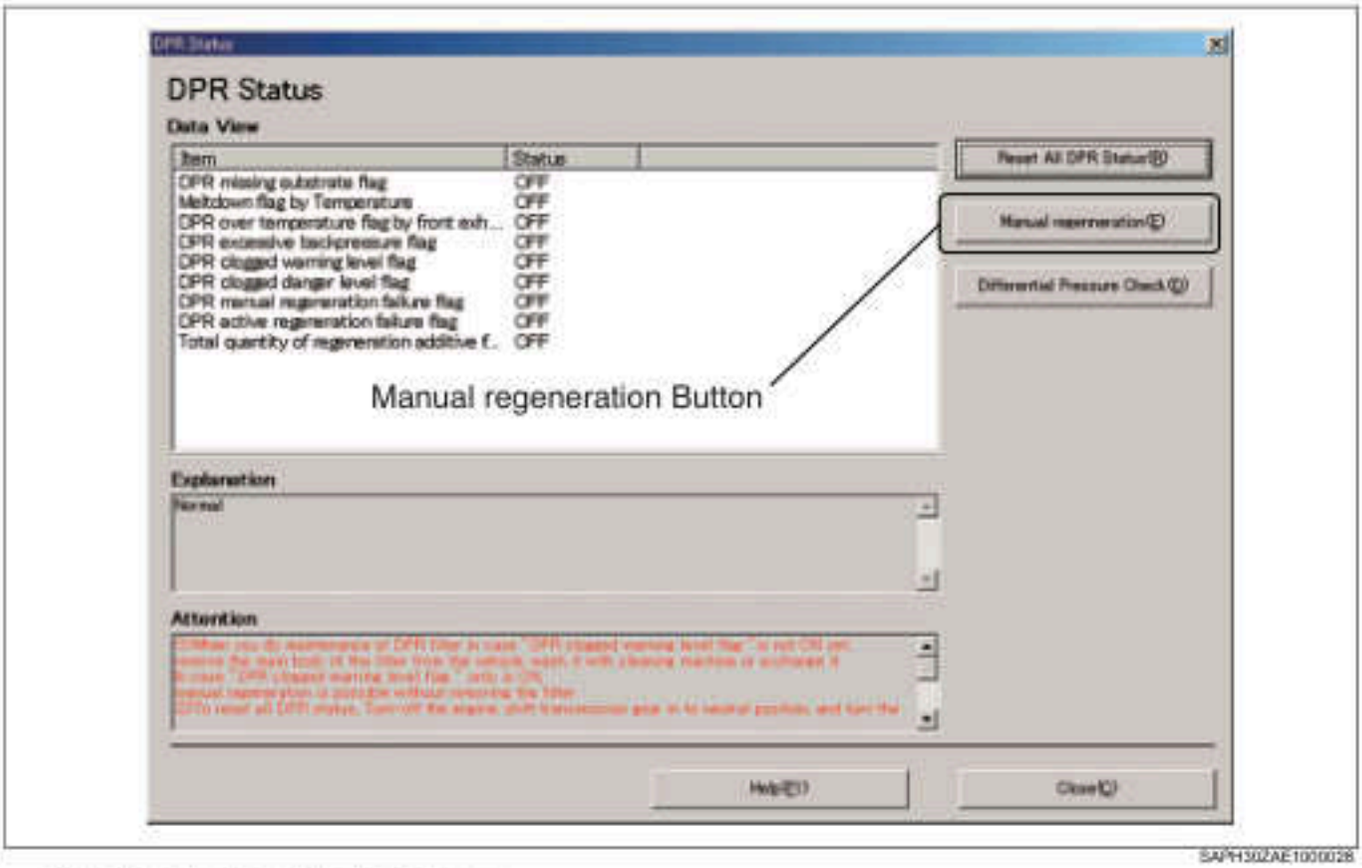
   This completes assembly.



Installing valve casing (325)

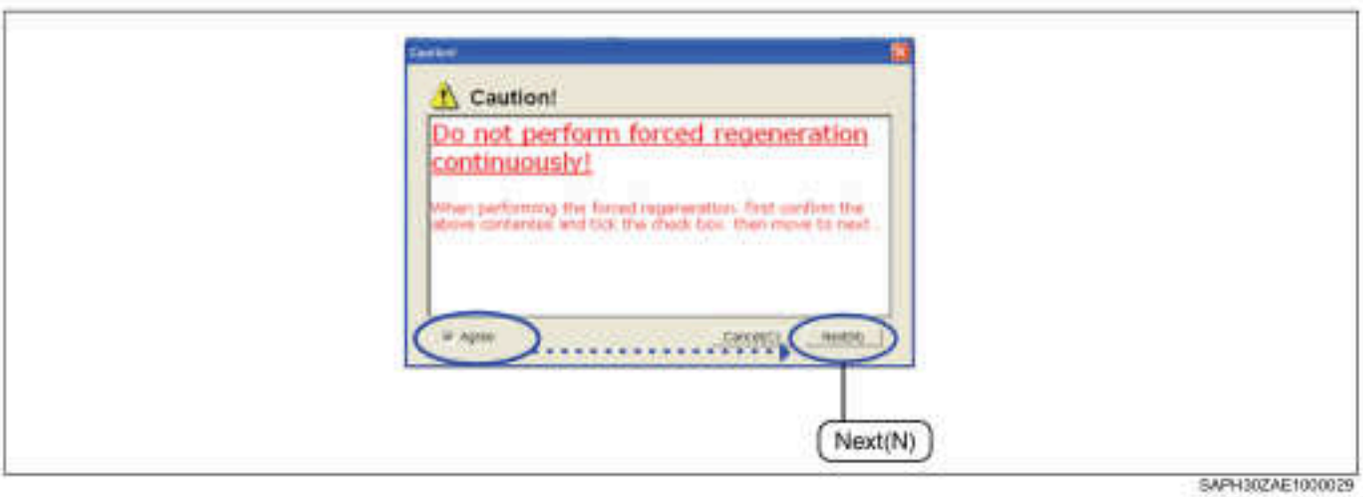
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(5) Click the "Manual regeneration" button in the DPR status window.



SAPH30ZAE1000028

(6) The "Caution window" will appear.

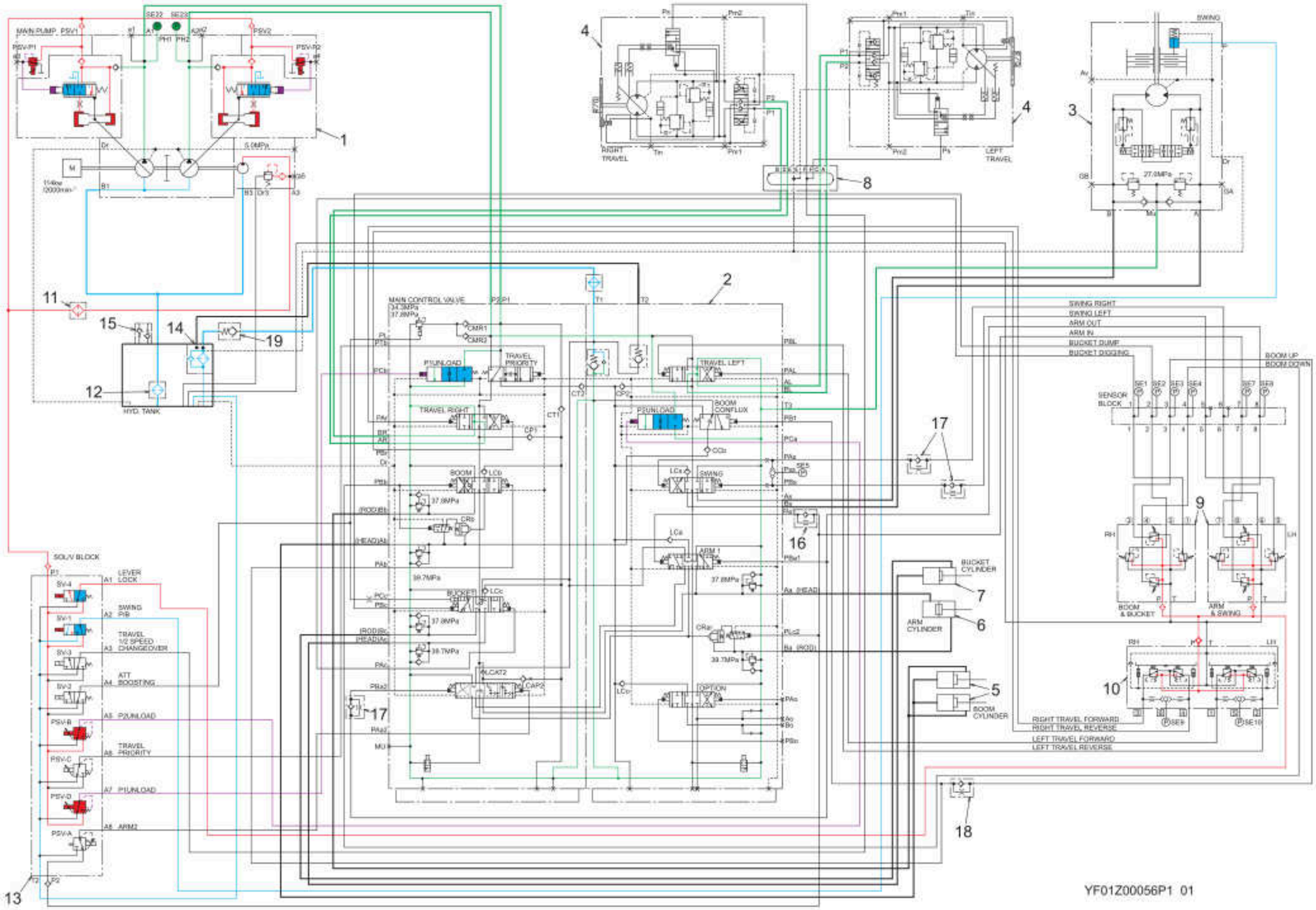


SAPH30ZAE1000029

a. Read the caution and accept its by clicking in the "Agree" check box on the left.
b. If you click "Next" button, the "Manual regeneration" window will appear.

⚠ **CAUTION** • **The "Next" button is not displayed unless you check "Agree".**

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NEUTRAL CIRCUIT : Positive control function at safety lock lever down (unlocked position)

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