

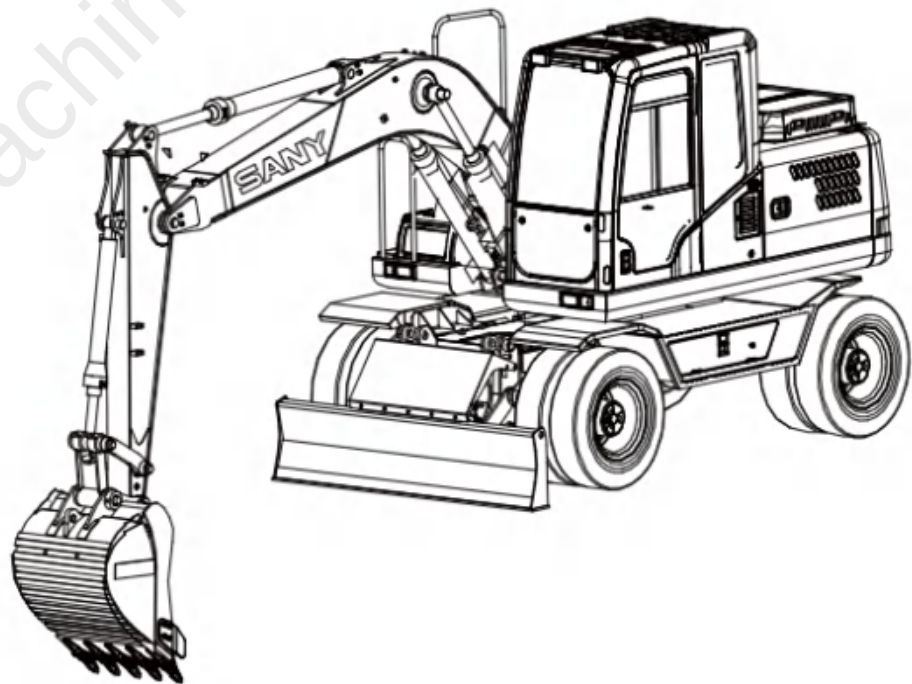


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Wheeled hydraulic excavator

SY155W



Service Manual for SY155W Wheeled Hydraulic Excavator

Service Manual

Cooling system

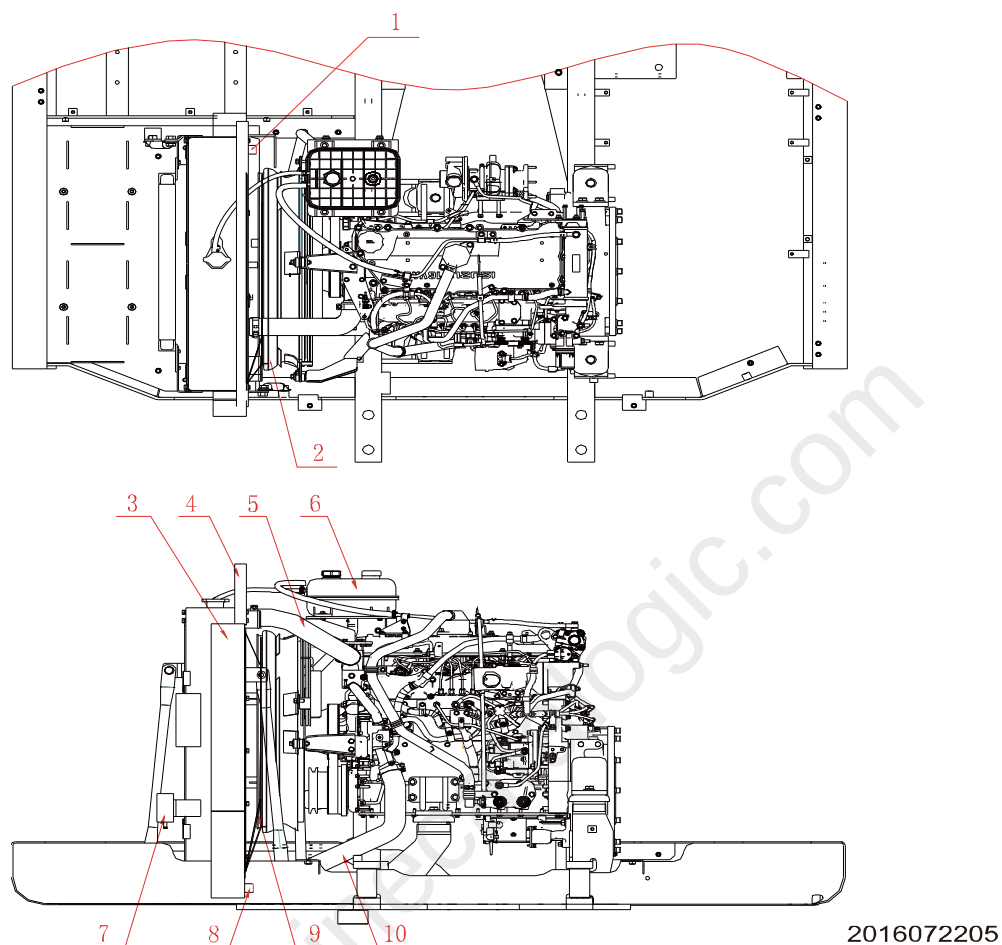


Figure 4-7

- | | |
|--|--|
| 1. Hydraulic oil outlet | 6. Expansion water tank |
| 2. Protective web of fan | 7. Fuel radiator |
| 3. Radiator | 8. Hydraulic oil inlet |
| 4. Upper sealing plate | 9. Fan |
| 5. Water-inlet rubber hose of radiator | 10. Water-outlet rubber hose of radiator |

- ② The pump flowrate will be changed from middle position circulation to accumulator filling circulation

When the pressure in accumulator circuit reduces to the level lower than switch point, the port P will be connected with the load signal chamber of pressure compensator, and the flow of pump will be led to accumulator circuit again.

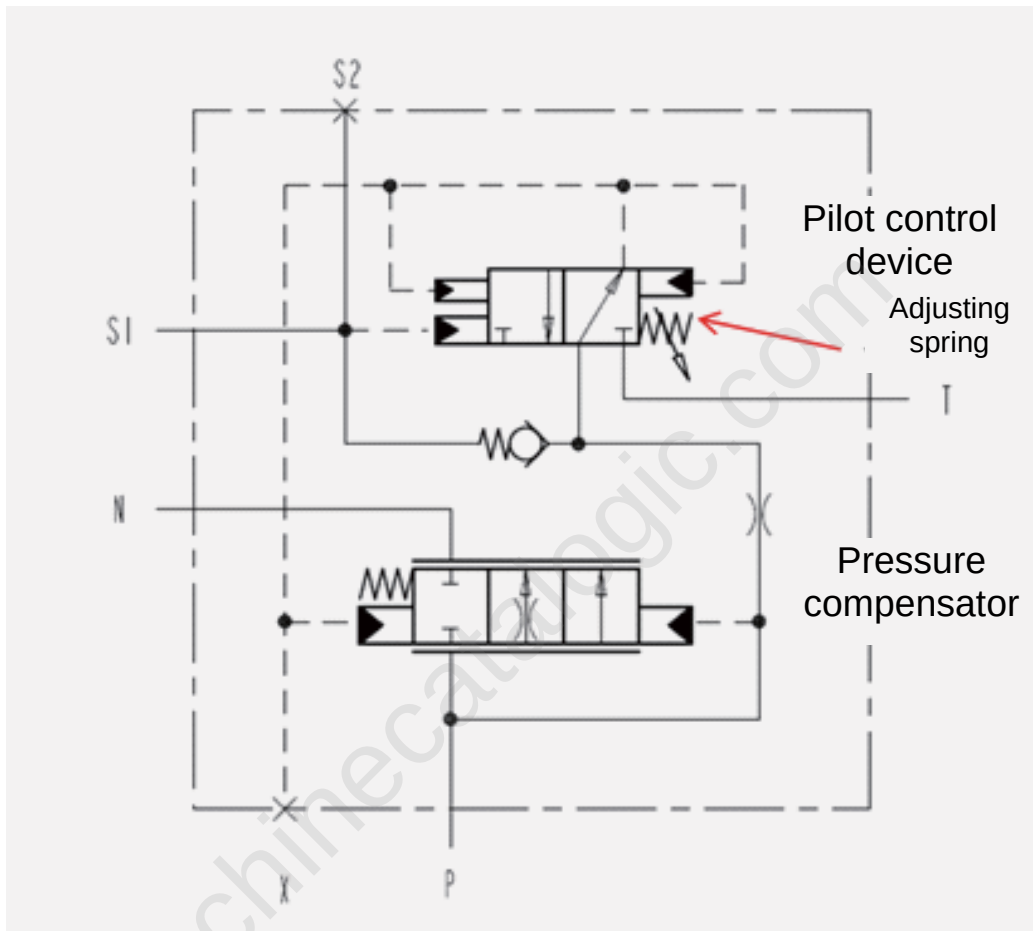


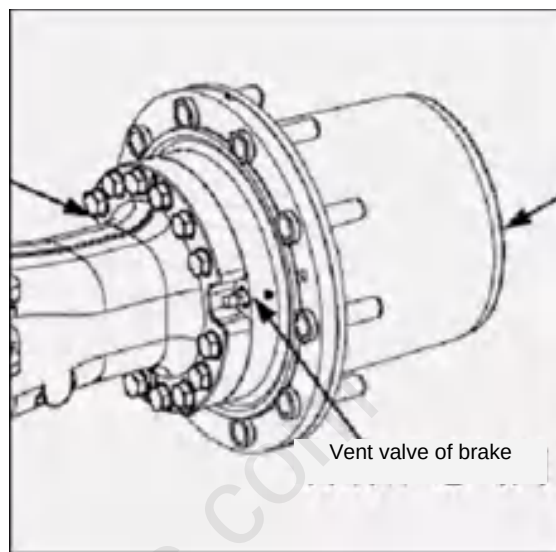
Figure 4-35

Operating conditions	Oil flow	Functions
Ps1>adjusting spring	P→N	Supply the pilot pressure
Ps1<adjusting spring	P→S1	Supply the braking pressure

Pin	Definition of controller	Wire no.	Name
35	AI_1		
16	AI_2	512	Lifting overloading sensor
36	AI_3		
17	AI_4		
18	AI_5	501	Main pressure of front pump
37	AI_6	502	Main pressure of rear pump
19	AI_7	831	Braking pressure sensor 2
38	AI_8	204	Bucket unloading
42	AI_9	203	Bucket rod excavation
22	AI_10	202	Bucket rod unloading
43	AI_11	205	Bucket excavation
24	AI_12	208	Back swing
57	AI_13	832	Traveling
56	AI_14	206	Boom up
74	AI_15	207	Boom down
59	AI_16	833	Braking pressure sensor 1
69	AI_17	835	Liquid filling
61	AI_19	834	Gear-shift
70	AI_18	836	GPS monitoring
79	AI_20	837	Dozer blade
76	AI_21	511	Hydraulic oil temperature
75	AI_22	506	Throttle knob
15	AI_R_1	509	Fuel oil level
33	AI_R_2		
34	—		
14	—		
62	AO_1		
111	PWM_1	845	Travelling electromagnetic valve
105	PWM_2	842	Cruise electromagnetic valve
109	PWM_3	844	Forward traveling electromagnetic valve
110	PWM_4	843	Backward traveling electromagnetic valve
93	PWM_5		
94	PWM_6		
83	PWM_7		
92	PWM_8		
85	PWM_9	703	Current feedback of front pump
84	PWM_10	702	Current feedback of rear pump
64	PWM_11		
65	PWM_12	803	Braking light
27	PWM_13		
28	PWM_14		

5. Air bleeding from axle

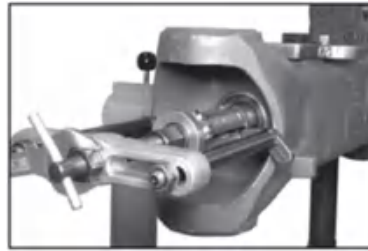
- 1) Press down the brake pedal, and get the brake pedal locked in limit position.
- 2) Slowly loosen the vent valve of brake as indicated in the left diagram, and drain the bubble.
- 3) Tighten up the vent valve of brake
- 4) Repeat the Steps 1 through 3 above, until there is no bubble.
- 5) Tighten up the vent valve of brake Tightening torque 30Nm



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Figure 6-51

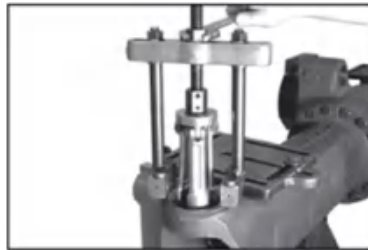
Pull out the shaft sealing ring and bushing from axle housing.



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Figure 8-108

Pull out the bearing bushing from bearing seat



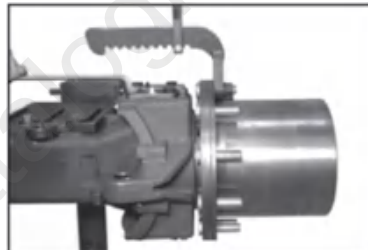
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Figure 8-109

2.5 Dismantle the output assembly

If only the differential and pinion will be repaired, please dismantle the output as an assembly.

Note: Please prepare a lifting tool, so as to ensure safety.



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Figure 8-110

Remove the bearing pin, and separate the output assembly from axle housing



2016121604

Figure 8-111

3. Disassembling of input

Support the axle assembly, as indicated by arrow in the figure.

Use a tool to lift up the shaft housing, ensure that the housing will not drop off, and dismantle the bolt.

Dismantle the shaft housing from driving housing.



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Figure 8-112

Tightening torque (M16/10.9) MA = 280 Nm

4.6 Screw plug for oil filling/drain port

Explanation for diagram:

1. Screw plug with magnet
2. Screw plug without magnet



Figure 8-605

Assemble the screw plug with magnet (1), and use a new O-ring.

Assemble the screw plug (2), and use a new O-ring.

Tightening torque (M 36 x 1, 5)..... MA = 50 Nm

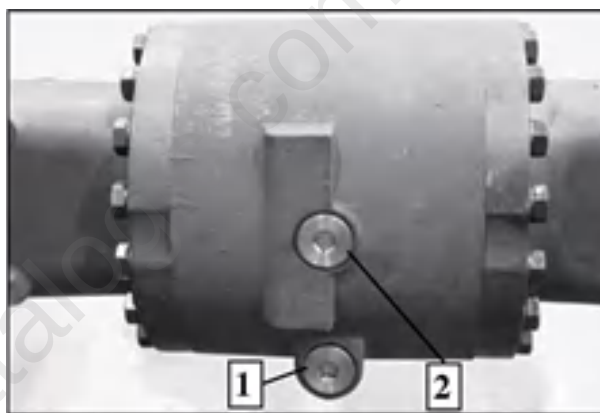


Figure 8-606

Before operation, please add the lubricating oil

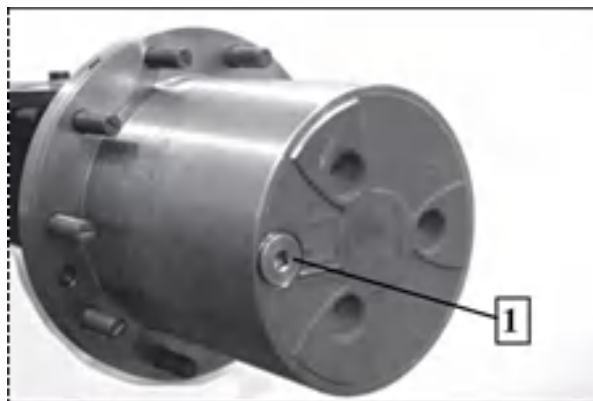
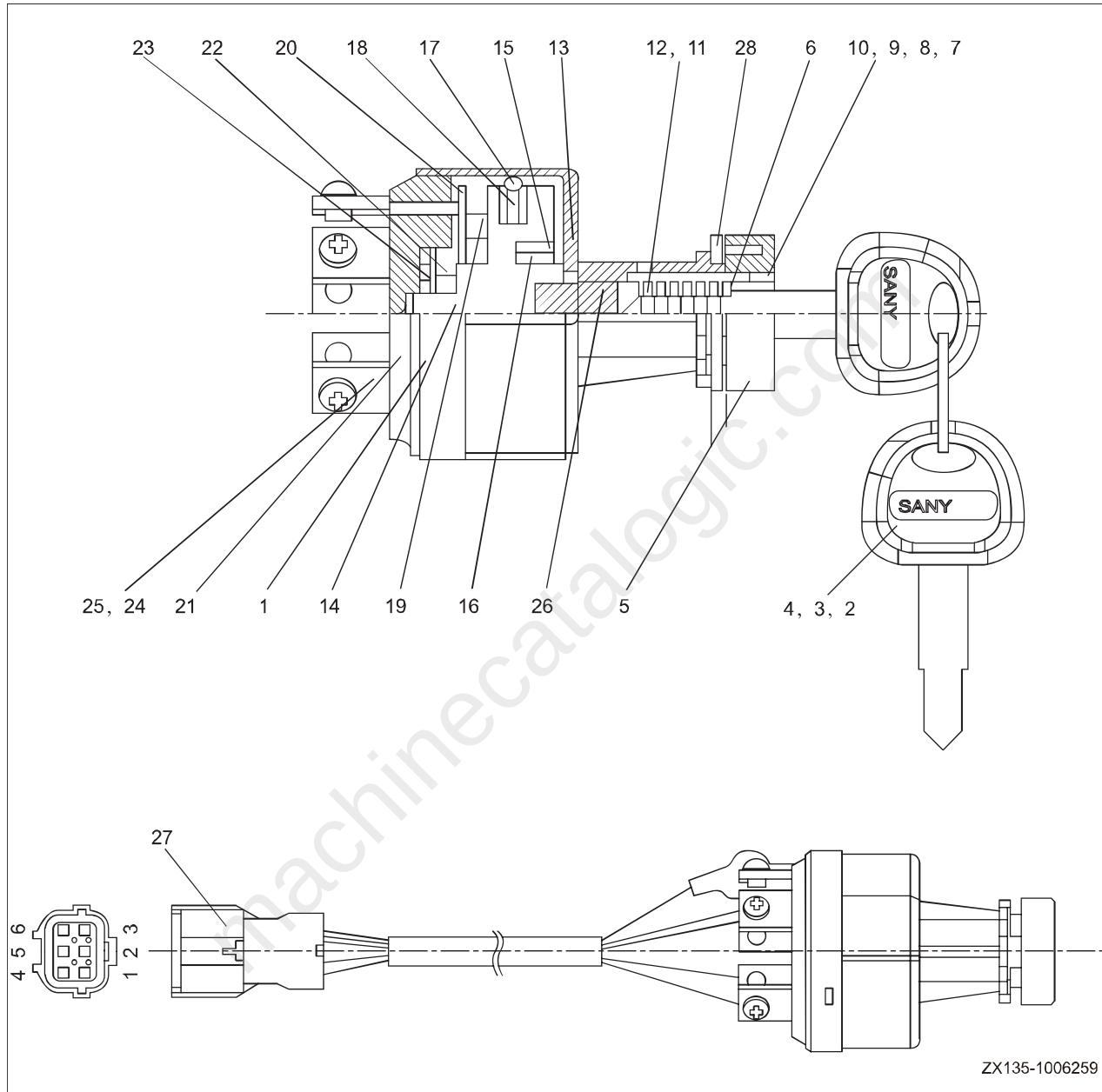


Figure 8-607

Key switch

Structure



- | | | | |
|-------------|--------------------------|----------------------|----------------------|
| 1- Casing | 8- Door | 15- Spring cover | 22- Contact SPR-A |
| 2- Key | 9- Door pin | 16- Resetting spring | 23- Contact B |
| 3- Key ring | 10- Door spring | 17- Ball | 24- Terminal |
| 4- Key knob | 11- Rotating disc | 18- Ball spring | 25- Bolt |
| 5- Nut | 12- Rotating disc spring | 19- Contact- SPR-B | 26- O-ring |
| 6- Barrel | 13- Plug | 20- Contact A | 27- Harness assembly |
| 7- End cap | 14- Rotation body | 21- Terminal seat | 28- Washer |

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