PART NO. TAFAJ0-EN-00

HITACHI

Reliable solutions

Technical Manual

ZX68USR-5A

Hydraulic Excavator

Service Manual consists of the following separate Part No.

Technical Manual	: Vol. No.TAFAJ0-EN
Workshop Manual	: Vol. No.WAFAJ0-EN
Engine Manual	: Vol. No.ETADB-EN, EWADB-EN

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SECTION 1

GENERAL

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Engine Accessories

	Radiator	Oil Cooler
Air-Tight Test Pressure	137 kPa (1.4 kgf/cm^2, 20 psi)	981 kPa (10 kgf/cm^2, 140 psi)
Cap Opening Pressure	88.3±14.7 kPa (0.9±0.15 kgf/cm^2, 13±2.1 psi)	–

BATTERY	Type	130E41L
	Voltage	12 V
	Capacity	92 Ah or more (5-Hour Rate)

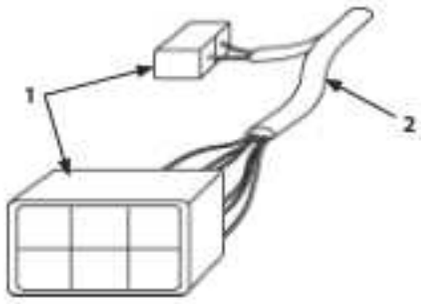
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Troubleshooting B (Machine Diagnosis by Using Troubleshooting Symptom) Procedure

Refer to troubleshooting B procedures for diagnosis by using trouble symptom when no fault codes are displayed.

- Diagnosis Procedure
  - The diagnosis procedures for the displayed fault codes are explained in this group.
  - Perform diagnosis by using the service menu of monitor first.
  - In case any fault code has not been displayed by diagnosis, perform inspection according to the procedures when diagnosing.
  - When the fault code is displayed, refer to the troubleshooting A group and diagnose.

NOTE: Harness end connector viewed from the open end side by the all connectors image shown in this section.



T6L4-05-03-001

1- Harness End Connector 2- Harness

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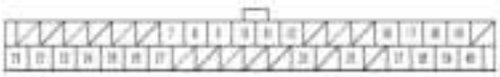
Air vent air temperature control is impossible.

- Check the wiring connections first.

Procedure	Inspection Method	Condition	Evaluation	Cause (check point)
1	Check if any foreign substance prevents operation of air mix damper servo motor.	-	There is abnormality.	Foreign substance or failure of parts prevents operation.
2	Check continuity in harness between control panel #8 and air mix damper servo motor #2.	-	∞ Ω	Open circuit in harness between control panel #8 and air mix damper servo motor #2
3	Check continuity in harness between control panel #7 and air mix damper servo motor #1.	-	∞ Ω	Open circuit in harness between control panel #7 and air mix damper servo motor #1
4	Check continuity in harness between control panel #18 and air mix damper servo motor #5.	-	∞ Ω	Open circuit in harness between control panel #18 and air mix damper servo motor #5
5	Check continuity in harness between control panel #16 and air mix damper servo motor #4.	-	∞ Ω	Open circuit in harness between control panel #16 and air mix damper servo motor #4
6	Measure voltage at air mix damper servo motor harness end #7.	Key Switch: ON Air Conditioner Switch: ON	0 V	Open circuit in harness between control panel #25 and air mix damper servo motor #7
7	Measure voltage at air mix damper servo motor harness end #6.	Key Switch: ON Air Conditioner Switch: ON	0 V	Open circuit in harness between control panel #22 and air mix damper servo motor #6
8	-	-	The check mentioned above is normal.	Faulty control panel or faulty air mix damper servo motor

Connector (Harness end)

- Control Panel



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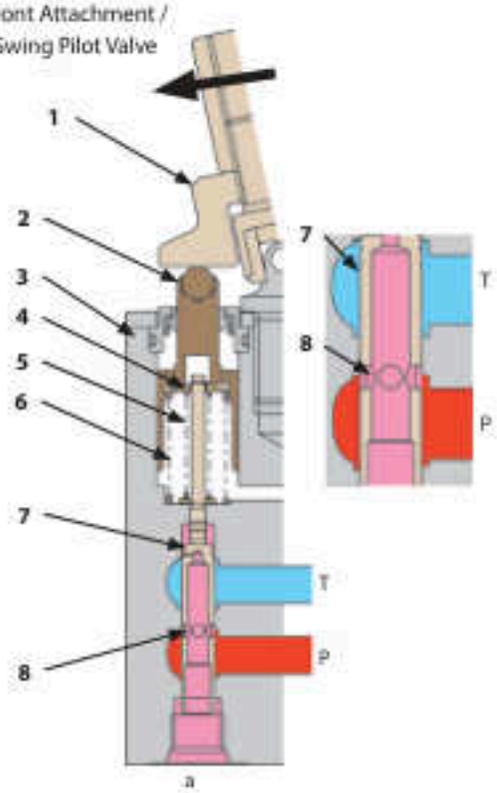
- Air Mix Damper Servo Motor



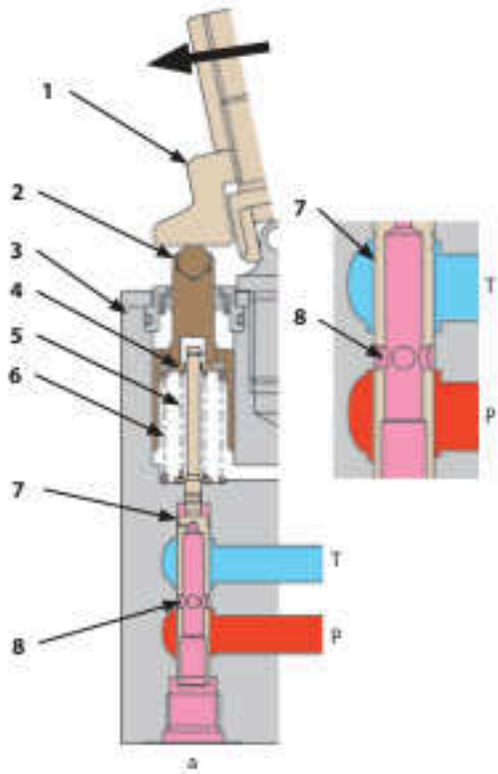
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Front Attachment / Swing Pilot Valve

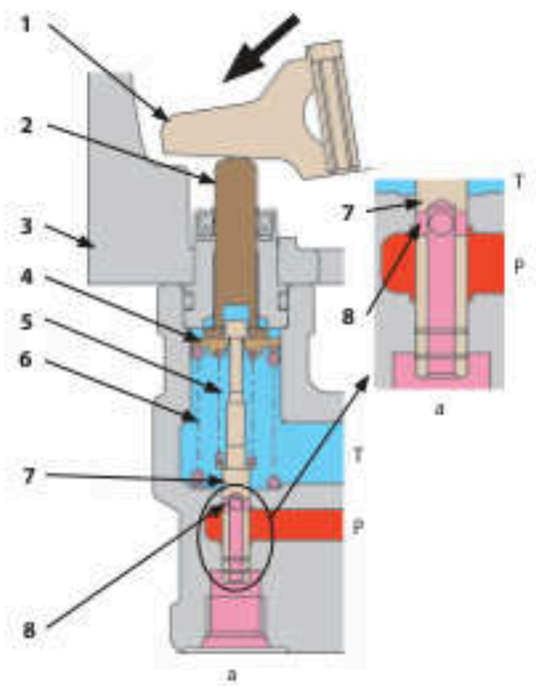


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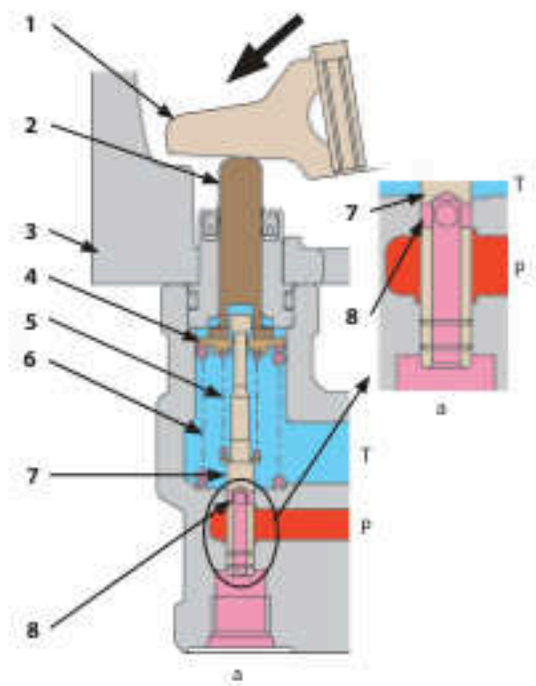


TPPP-03-04-008

Travel Pilot Valve



TPPP-03-04-012



TPPP-03-04-013

P- Port P
T- Port T
a- Output Port

1- Cam
2- Pusher
3- Casing
4- Spring Guide
5- Balance Spring
6- Return Spring
7- Spool
8- Hole

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