PART NO. TADCJ0-EN-00

HITACHI

Reliable solutions

Technical Manual

ZX35U-5A

Hydraulic Excavator

Service Manual consists of the following separate Part No.

Technical Manual	: Vol. No.TADCJ0-EN
Workshop Manual	: Vol. No.WADCJ0-EN
Engine Manual	: Vol. No.ETADB-EN, EWADB-EN

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SECTION 1

GENERAL

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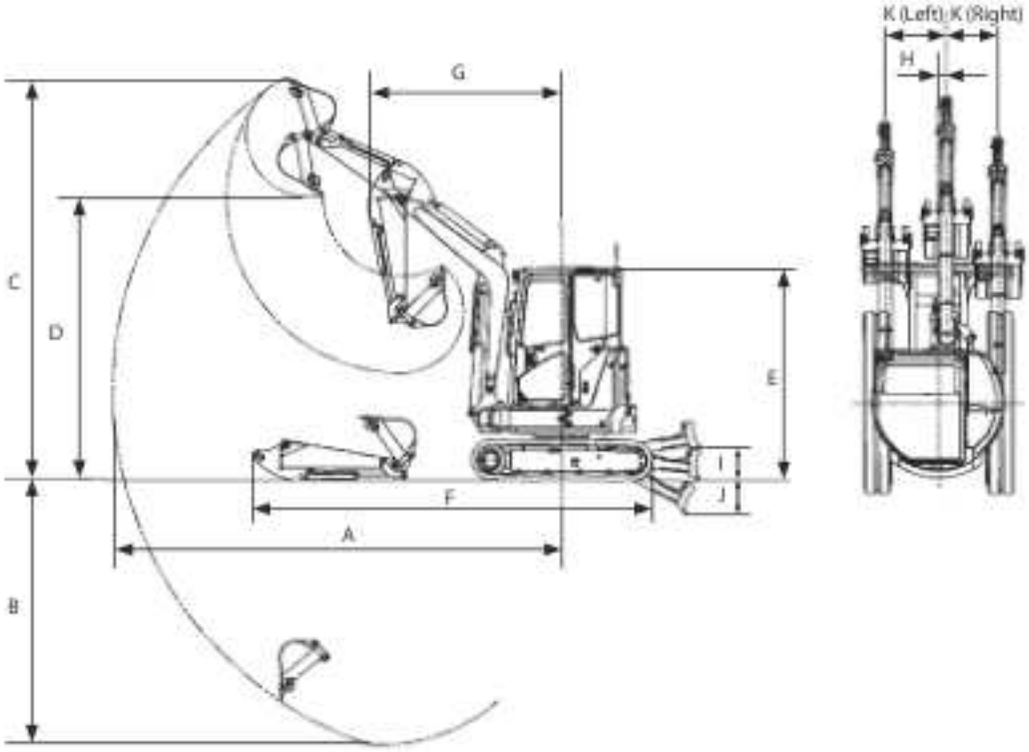
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Working Ranges

ZX35U-5A



MADC-12-012

Item		Category	ZX35U-5A	
			1.32 m Arm	1.72 m Arm
A:	Maximum Digging Reach	mm	5210	5520
B:	Maximum Digging Depth	mm	3070	3470
C:	Maximum Cutting Height	mm	4690	4730
D:	Maximum Dumping Height	mm	3300	3380
E:	Overall Height	mm	2470	
F:	Overall Length	mm	4640	4760
G:	Minimum Swing Radius	mm	2240	2300
H:	Boom Swing Pivot Offset Distance	mm	100	
I:	Blade Bottom Highest Position	mm	360	
J:	Blade Bottom Lowest Position	mm	400	
K:	Offset Distance	mm	L610 R700	
	Maximum Boom-Swing Angle		L62° R62°	

NOTE:

- *The dimensions do not include the height of the shoe lug. The dimensions of the machine equipped with steel crawlers are shown.*
- *L: Left R: Right*

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Precautions for Inspection and Maintenance

1. Disconnect the power source.
   Disconnect the harness from the negative terminal side in battery first when taking wire harnesses and connectors off for repair or replacement work. Failure to do so can result in damage to the wire harnesses, fuses and slow blow fuses and, in some cases, cause fire due to short circuiting. In addition, even when the key switch is turned OFF, the controller may be operated for a specified time. Therefore, disconnect the harness from the negative terminal side in battery after setting the key switch to the OFF position and waiting one minute or more.
2. Color coding of wire harnesses.
   As for the color codes of wire harnesses in the electrical system, refer to the table. In cases on the design sheet where two colors are indicated for one wire, the left initial stands for base color, while the right initial stands for marking color.

Code	R	W	L	G	Y	B
Color	Red	White	Blue	Green	Yellow	Black
Code	Or	Lg	Br	P	Gr	V
Color	Orange	Light green	Brown	Pink	Gray	Violet

NOTE:

- *Code BW indicates a black base wire with white fine-line marking.*
- *Initials "O" and "Or" both stand for the color orange.*
- *Wires with longitudinal stripes printed on them are not color coded. Do not confuse them with color coded wires.*

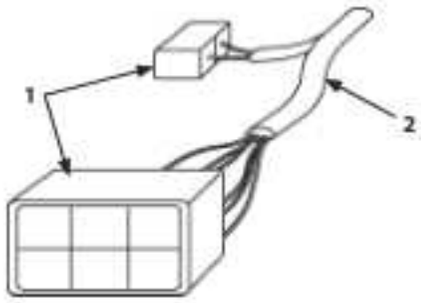
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Troubleshooting B (Machine Diagnosis by Using Troubleshooting Symptom) Procedure

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.

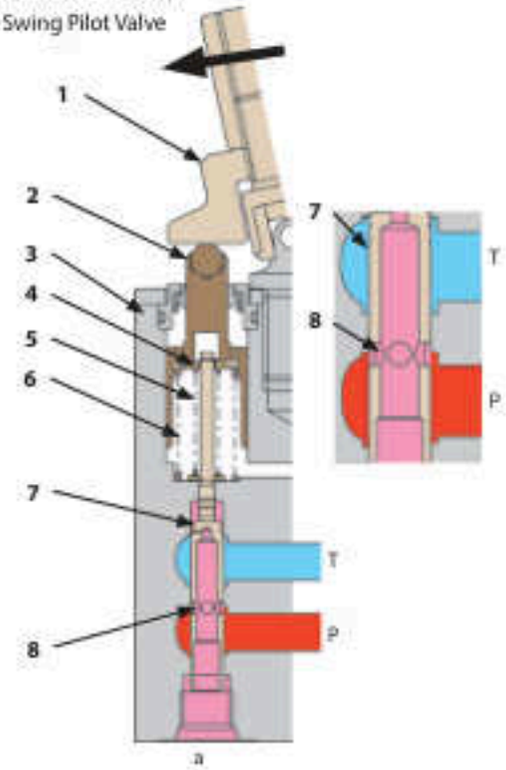


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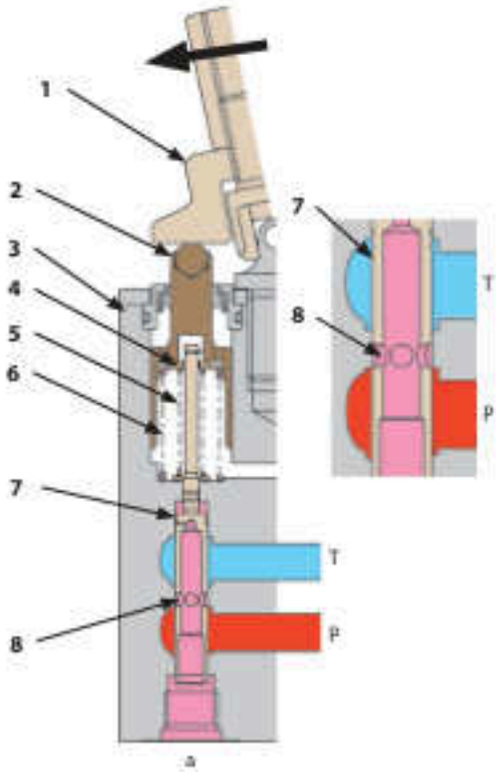
1- Harness End Connector 2- Harness

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Front Attachment / Swing Pilot Valve

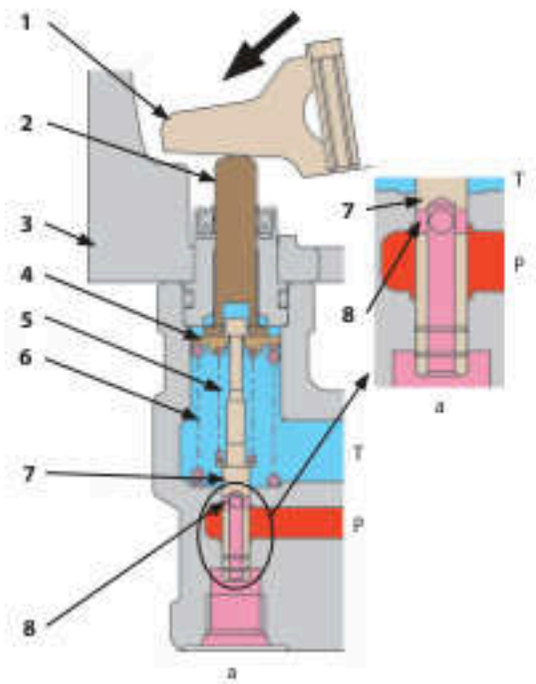


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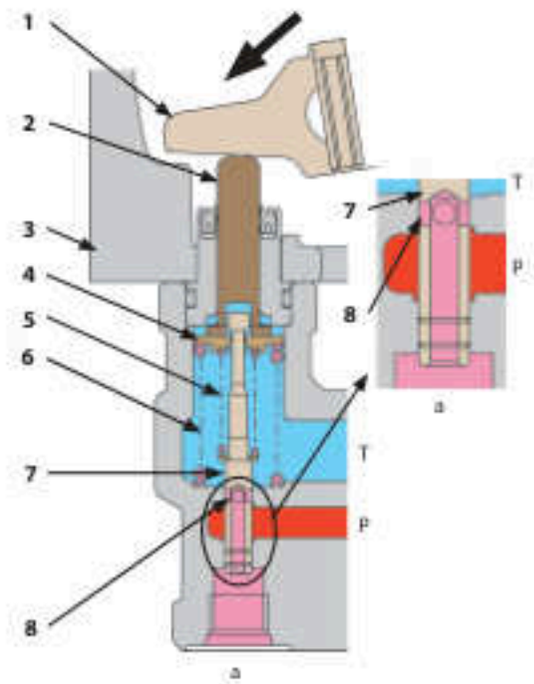


TPPP-03-04-008

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

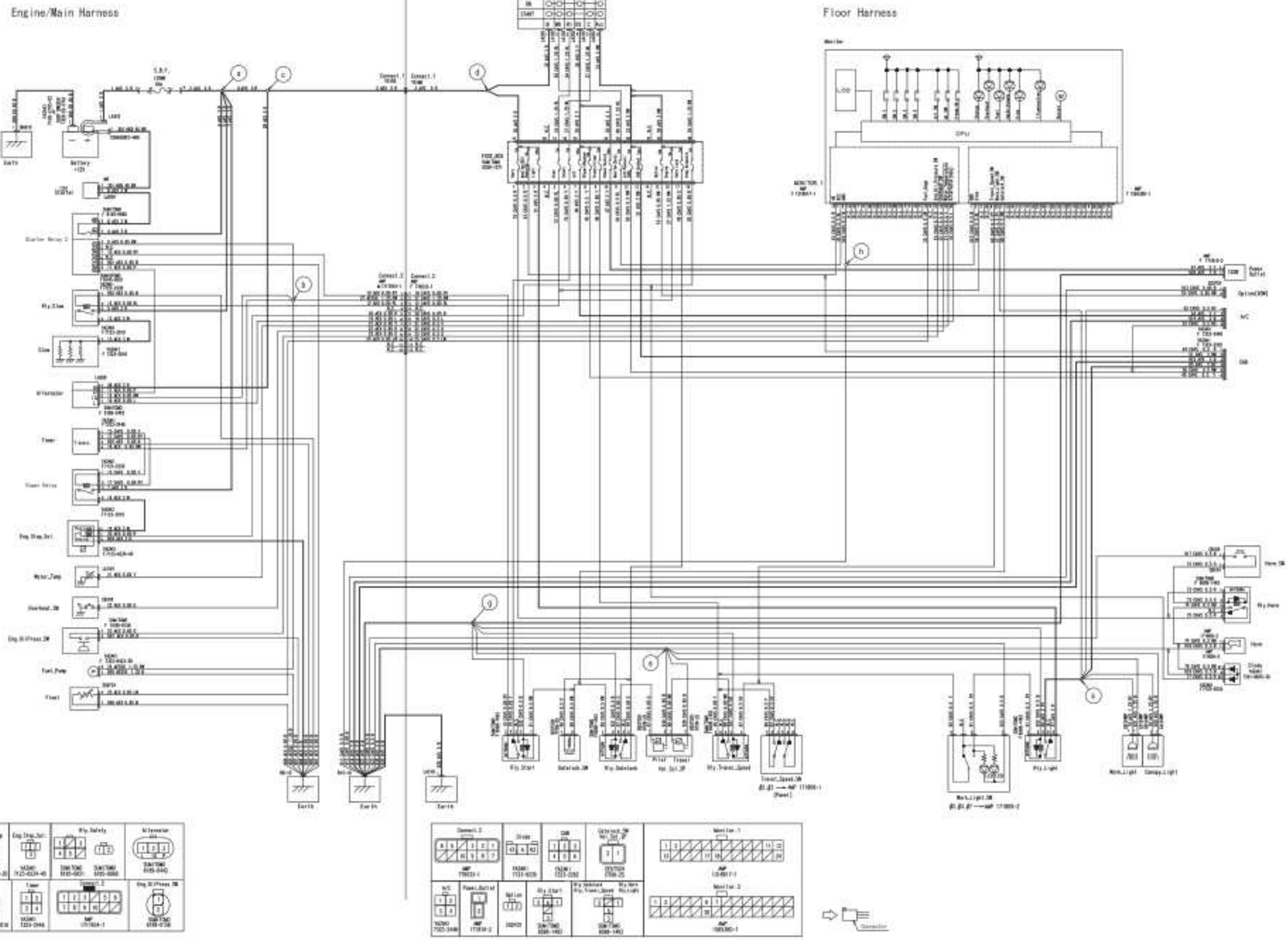
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ELECTRICAL CIRCUIT DIAGRAM (STANDARD)

⚠ CAUTION: Parts numbers on the drawing are provided only for reference purpose.
To order parts on the drawing, be sure to consult the Parts Catalog.

Applicable Machine

Attach to vol. No.	Model
TADCJ0-EN-00	ZX35U-5A



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