Manual No. : KM-CDBE
Vol. No. : TTCDBE-00

Technical Manual

(Troubleshooting)

ZAXIS 210W

Wheeled Excavator

Service Manual (Manual No. KM-CDBE) consists of the following three separate volumes;

Technical Manual (Operational Principle)	: Vol. No. TOCDBE
Technical Manual (Troubleshooting)	: Vol. No. TTCDBE
Workshop Manual	: Vol. No. WCDBE

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SECTION 4

OPERATIONAL PERFORMANCE TEST



CONTENTS

Group 1 Introduction

Operational Performance Tests T4-1-1
Preparation for Performance Tests T4-1-2

Group 2 Standard

Operational Performance Standard Table T4-2-1
Main Pump P-Q Diagram T4-2-6
Injection Pump T4-2-8
Dr.ZX Monitor Indicating Values T4-2-9
Sensor Activating Range T4-2-14

Group 3 Engine Test

Engine Speed T4-3-1
Engine Compression Pressure T4-3-4
Valve Clearance Adjustment T4-3-6
Nozzle Check T4-3-8
Injection Timing T4-3-10
Lubricant Consumption T4-3-12

Group 4 Excavator Test

Travel Speed T4-4-1
Service Brake Function Check T4-4-2
Parking Brake Function Check T4-4-3
Swing Speed T4-4-4
Swing Function Drift Check T4-4-5
Swing Motor Leakage T4-4-6
Maximum Swingable Slant Angle T4-4-7
Swing Bearing Play T4-4-8
Hydraulic Cylinder Cycle Time T4-4-10
Dig Function Drift Check T4-4-12
Control Lever Operating Force T4-4-14
Control Lever Stroke T4-4-15
Combined Boom Raise/Swing Function Check T4-4-16

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Group 5 Component Test

Primary Pilot Pressure.....T4-5-1
Secondary Pilot Pressure.....T4-5-4
Solenoid Valve Set Pressure.....T4-5-6
Main Pump Delivery Pressure.....T4-5-9
Main Relief Valve Set Pressure.....T4-5-10
Relief Pressure (When relieving Swing) T4-5-14
Relief Pressure (When relieving Travel) T4-5-15
Overload Relief Valve Set Pressure.....T4-5-16
Main Pump Flow Rate Measurement.....T4-5-20
Regulator Adjustment.....T4-5-24
Swing Motor Drainage.....T4-5-26
Travel Motor Drainage.....T4-5-29
Steering Valve Relief Valve Set Pressure ..T4-5-32
Brake Pressure (Front and Rear).....T4-5-34
Brake Accumulate Pressure.....T4-5-36
Brake Warning Set Pressure (Decrease)...T4-5-38
Brake Warning Set Pressure (Increase) T4-5-40

Group 6 Adjustment

Engine Speed Adjustment and Engine Learning.....T4-6-1
Governor Lever and Fuel Cut Lever Position.....T4-6-4

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MAXIMUM SWINGABLE SLANT ANGLE

CAUTION: Do not turn the brake switch OFF during swing, since the machine can cause tipping.

Summary:

1. With the upperstructure swung 90° to the slope, check the maximum slant angle on which the upperstructure can swing to the uphill side.



T212-07-03-001

Preparation:

1. Check that the swing gear and bearing are well lubricated.
2. Load bucket fully. In lieu of loading the bucket, weight (W) of the following specification used.
   W=1200 kg (2650 lb)
3. With the arm rolled out and bucket rolled in, hold the bucket so that the height of the bucket pin is the same as the boom foot pin.
4. Climb a slope and swing the upperstructure 90° to the slope.
5. Maintain the hydraulic oil temperature at 50±5 °C (122±9 °F).

Measurement:

1. Select the following switch positions:

Engine Control Dial	Power Mode Switch	Work Mode Switch	Auto-Idle/ Acceleration Selector	Brake Switch
Fast Idle	P	Digging	OFF	S (Working)

2. Operate the swing lever to full stroke to swing the upperstructure to the uphill side.
3. If the machine can swing, measure the cab floor slant angle.
4. Increase the slope angle and repeat steps 2. and 3. Check both clockwise and counterclockwise.
5. Perform the measurement three times.

Evaluation:

Refer to the Performance Standard Table in Group T4-2.

Remedy:

Refer to the Troubleshooting B in Group T5-4.

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TROUBLESHOOTING B PROCEDURE

Apply troubleshooting B procedure when no fault code is displayed on the Dr.ZX (or the built-in diagnosing system) although the machine's operation is abnormal.
On the front section pages of this group T5-4, are tables indicating the relationship between machine trouble symptoms and related parts which may cause such trouble if failed.
Start the troubleshooting with more probable causes selected by referring to these tables.

- How to Read the Troubleshoting Flow Charts



- After checking or measuring item (1), select either YES (OK) or NO (NOT OK) and proceed to item (2) or (3), as appropriate.

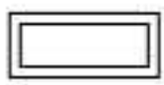


· Key switch: ON

- Special instructions or reference item are indicated in the spaces under the box. Incorrect measuring or checking methods will render troubleshooting impossible, and may damage components as well.



- Explanation of how to use test harness kit required. Refer to "Electrical System Inspection" Group (Group 6) in this section.



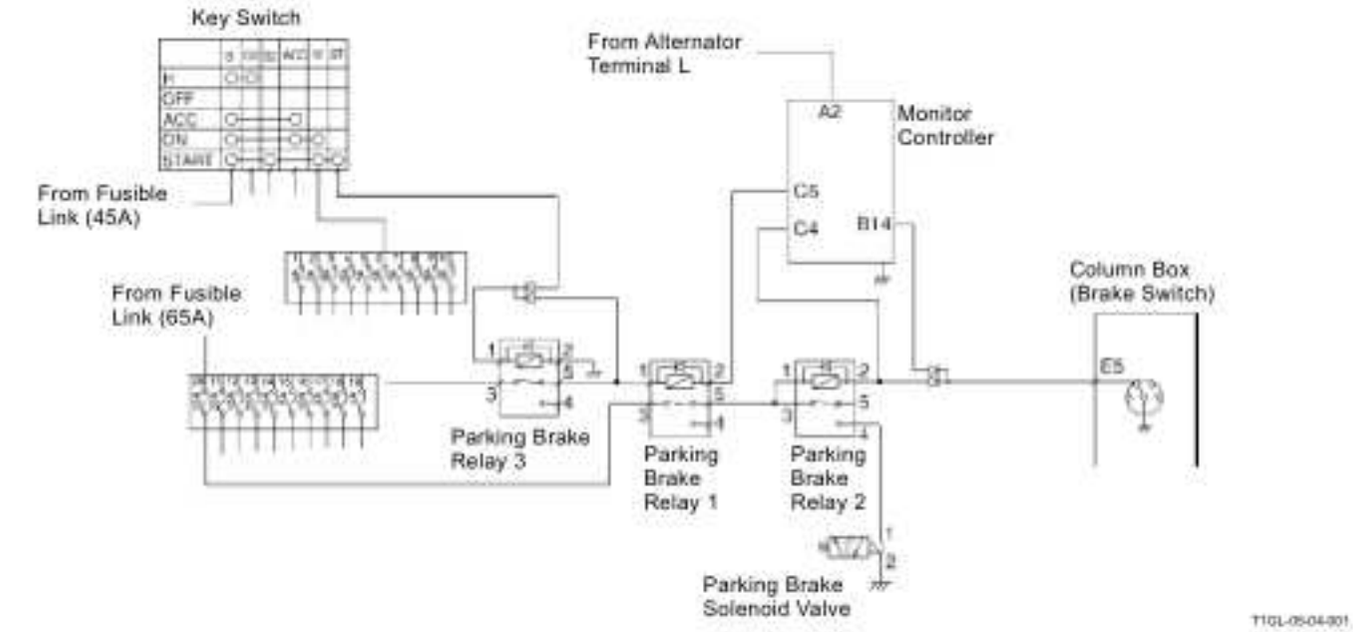
- Use Dr.ZX (or the built-in diagnosing system) function.

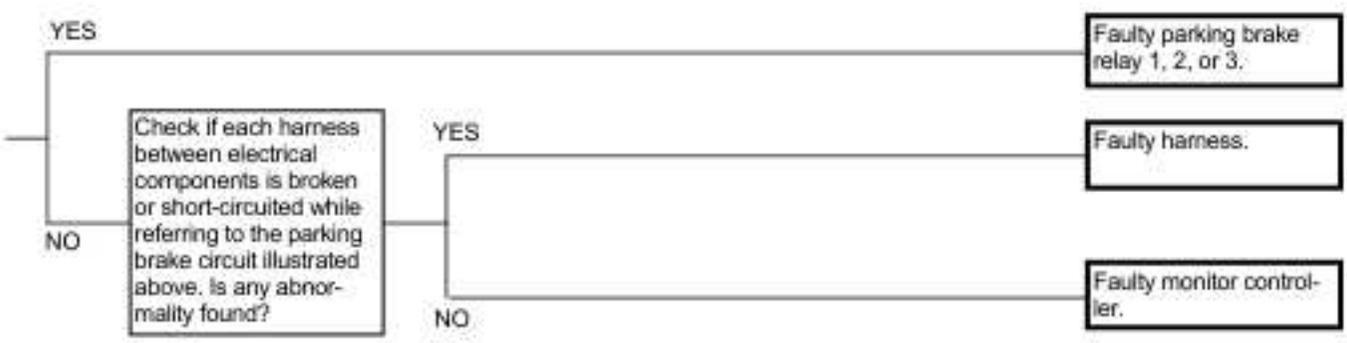


- Causes are stated in a thick-line box. Scanning through thick-line boxes, possible causes can be seen without going through the flow chart.

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Parking Brake Circuit Diagram





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