Service Manual

WLS 432ZX

Service Manual - WLS 432ZX

Section 1 - General Information

Section 2 - Care and Safety

Section 3 - Routine Maintenance

Section B - Body and Framework

Section C - Electrics

Section E - Hydraulics

Section F - Transmission

Section G - Brakes

Section H - Steering

Section K - Engine



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Contents **Page No.**

Introduction
About this Manual 1-1
Machine Model and Serial Number 1-1
Using the Service Manual 1-1
Section Numbering 1-1
Left Side, Right Side 1-2
Cab/Canopy 1-2
Cross References 1-2
Identifying Your Machine 1-3
Machine Identification Plate 1-3
Component Identification Plates 1-4
Machine Description 1-5
The JCB Wheeled Loader 1-5
Intended Use 1-5
Component Location 1-5

Standard Torque Settings
Zinc Plated Fasteners and Dacromet Fasteners 1-7
Introduction 1-7
Bolts and Screws 1-7
Hydraulic Connections 1-11
'O' Ring Face Seal System 1-11
'Torque Stop' Hose System 1-14
JCB Standard Torque Settings 1-15
B.S.P. Port Connection (Colour Coded) 1-15
Hose Ends and Flange Fittings (Colour Coded) 1-16

Service Tools
Numerical List 1-17
Tool Detail Reference Section B - Body and Framework 1-18
Numerical List Section C - Electrics 1-22
Tool Detail Reference Section C - Electrics 1-23
Numerical List Section E - Hydraulics 1-24
Tool Detail Reference Section E- Hydraulics 1-27
Numerical List Section F - Transmission 1-30
Tool Detail Reference Section F - Transmission 1-31
Numerical List Section K - Engine 1-34
Tool Detail Reference Section K - Engine 1-35

Service Consumable
Sealing and Retaining Compounds 1-36

Terms and Definitions
Colour Coding 1-38
Hydraulic Schematic Colour Codes 1-38

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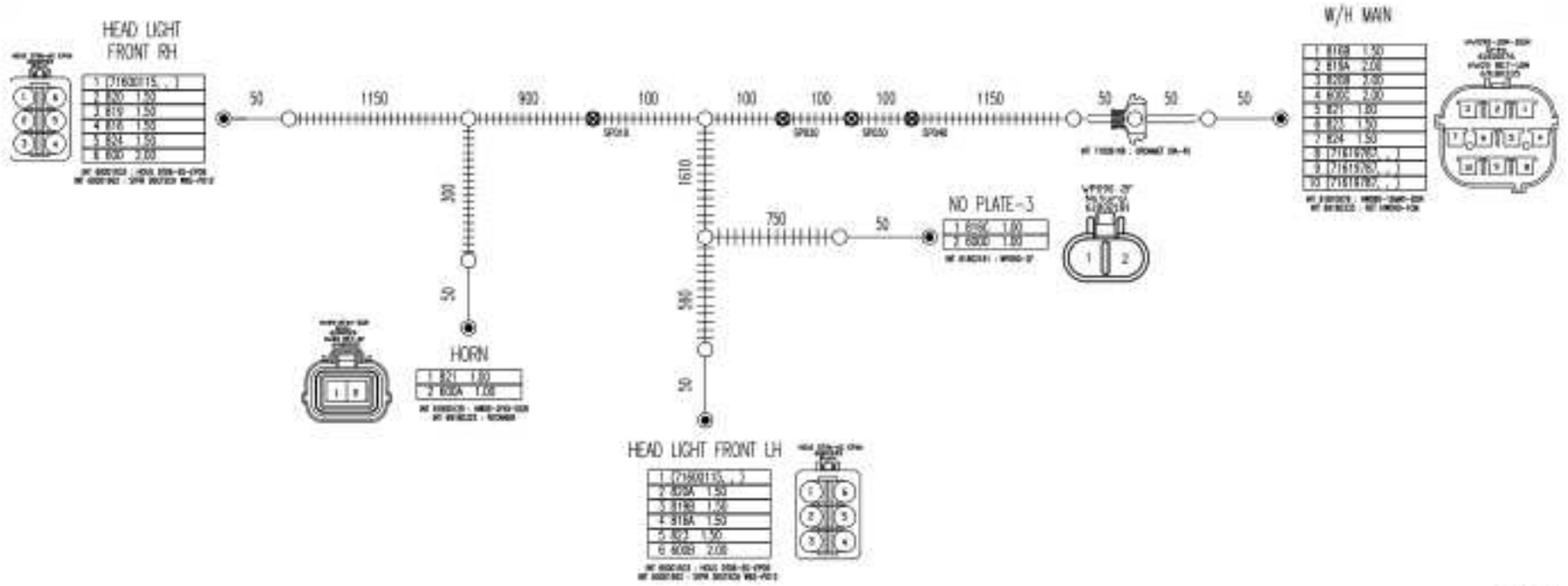


Fig 34. Front Chassis Harness

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Fan Motor (To 2186066)	
Type	Parker
Motor size	20 cc/rev
Operating speed	500 to 2750 RPM
Maximum pressure setting	250 bar
Application pressure	210 bar
Temperature range	-20°C to 100°C

Fan Motor (From 2186067)	
Type	Bucher
Motor size	19.2 cc/rev
Operating speed	650 to 3000 RPM
Maximum continous pressure	200 bar
Maximum peak pressure	220 bar
Flow capacity	5 litres per minute
Fan motor relief valve setting	210 bar
Temperature range	-15°C to 80°C

Pump (To 2186066)	Pump 1	Pump 2
Type	Parker Twin Hydraulic Pump	
Displacement	65.0 ccm	23.0 ccm
Speed rate	500 to 2200 RPM	
Maximum input shaft torque	960 Nm	
Rotation	Clockwise	

Pump (From 2186067)	Pump 1	Pump 2
Type	CASAPPA fixed displacement uni-directional gear pump	
Direction of Rotation	Clockwise	
Displacement	39.27 cm^3/rev	34.56 cm^3/rev
Inlet pressure range for pump	0.7 - 3 bar	
Maximum continuous pressure (P1)	260 bar	
Maximum intermittent pressure (P2)	280 bar	
Maximum peak pressure (P3)	300 bar	

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Troubleshooting

Fault	Cause	Remedy
Oil leakage from final drive carrier	Incorrect screws torque, O-ring damaged	Check the torque. Replace O-ring
Oil leakage from seals	Incorrect installation, Seals damaged	Replace seals
Oil leakage from breather	High oil level	Check oil level
Lubricant with excessive foam	Incorrect lubricant	Replace the oil
Oil leakage from brake caliper parking	Seals damaged	Replace seals Kit
Final drive noise	Incorrect lubricant	Replace the oil
	Low oil level	Check oil level
	Incorrect bearing adjustment	Verify and adjust the bearing setting
	Bearing damaged	Verify and change the bearing
	Gears damaged	Verify and replace the gears
Differential assembly noise	Incorrect lubricant	Replace the oil
	Incorrect backlash	Verify and adjust
	Incorrect bearing preload	Verify and adjust
	Incorrect bevel pinion position	Verify the pinion position
	Side gears thrust washer damaged	Verify and replace

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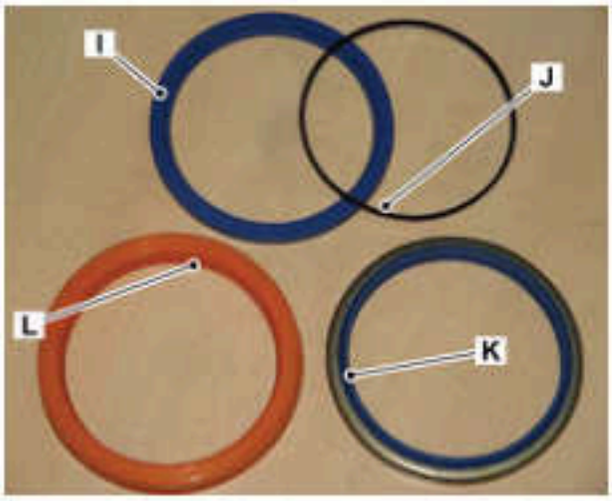


Fig 127.

I Primary Seal
J Backup Ring
K Wiper
L Secondary Seal

Disassembly of Seals in Head End Cover

1 Remove wiper locking snap ring as shown in ⇨ *Fig 128. (E-81)*



Fig 128.

2 Remove secondary seal using bend screw driver as shown in ⇨ *Fig 129. (E-81)*



Fig 129.

3 Remove secondary rod seal back up ring as shown in ⇨ *Fig 130. (E-81)*



Fig 130.

4 Remove primary seal using bend screw driver as shown in ⇨ *Fig 131. (E-82)*

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Port Relief Valve Assembly

1 Assemble the combi relief valves **A** into the port relief valve cavities on both the sides of sections.



Fig 40.

2 Tighten the assembly **A** with a torque of 80Nm.



Fig 41.

Spool and Hydraulic Actuation Assembly

1 Check the spool **B** for dent and burr.



Fig 42.

2 Lubricate the spool bore with oil.

3 Insert the spool on lever kit end.



Fig 43.

4 Check for smooth movement over the stroke.

Hydraulic Actuation (Standard)

5 Place and tight the spool return spring kit which have two springs to the return side of spools.

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