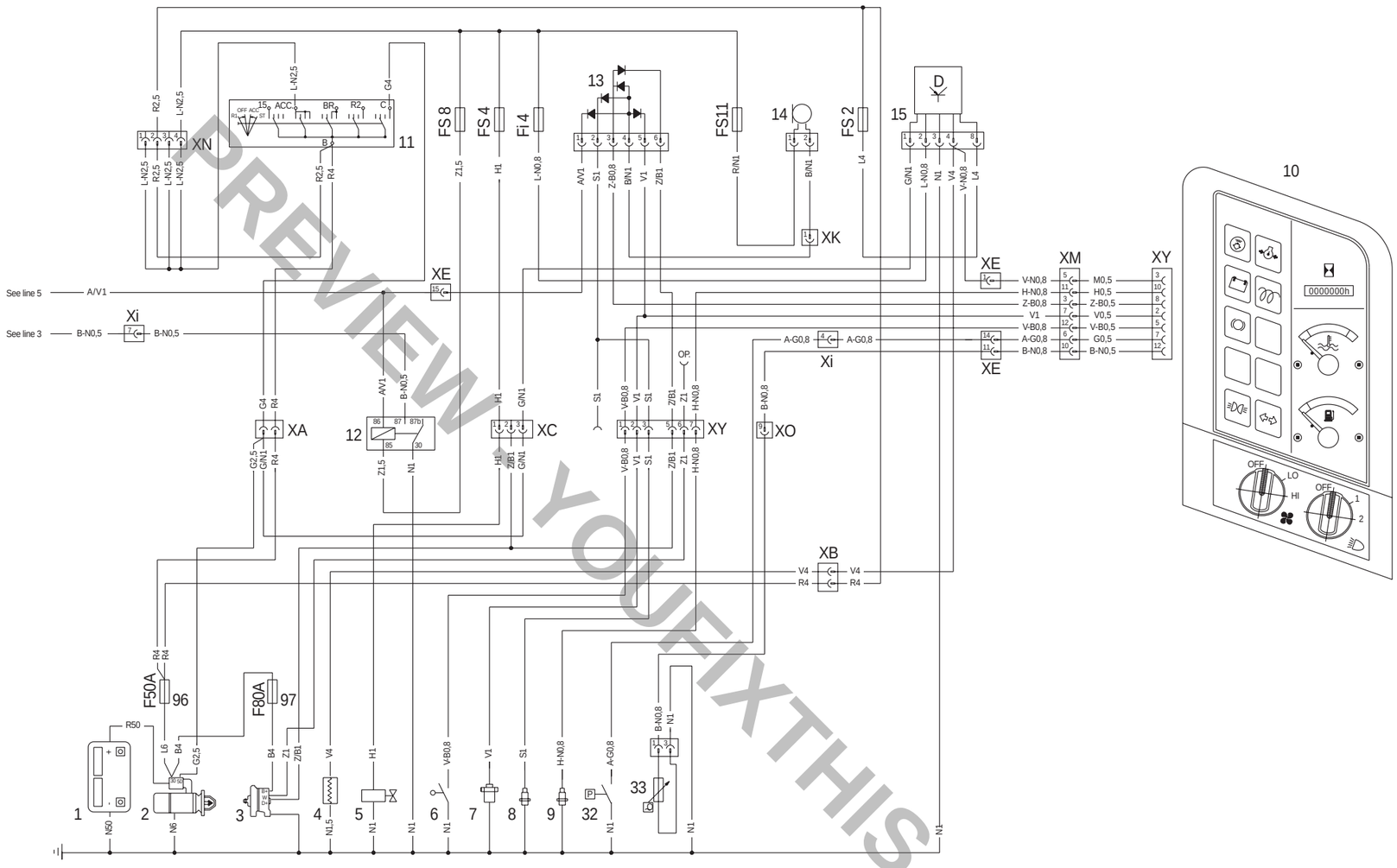
ELECTRICAL CIRCUIT DIAGRAM

1 - STARTING AND ENGINE LINE



COMPONENTS

1 - Battery
2 - Starter motor
3 - Alternator
4 - Pre-heater
5 - Stop motor
6 - Air filter clogging sensor
7 - Engine oil low pressure sensor
8 - Coolant high temperature sensor
9 - Coolant temperature sensor
11 - Starter switch
12 - Inserted reverse speed relay
13 - R.H. dashboard diodes connector
14 - Buzzer
15 - Pre-heater box
32 - Brake pressure sensor
33 - Fuel level sensor
96 - Fuse 50A
97 - Fuse 80A

CONNECTOR

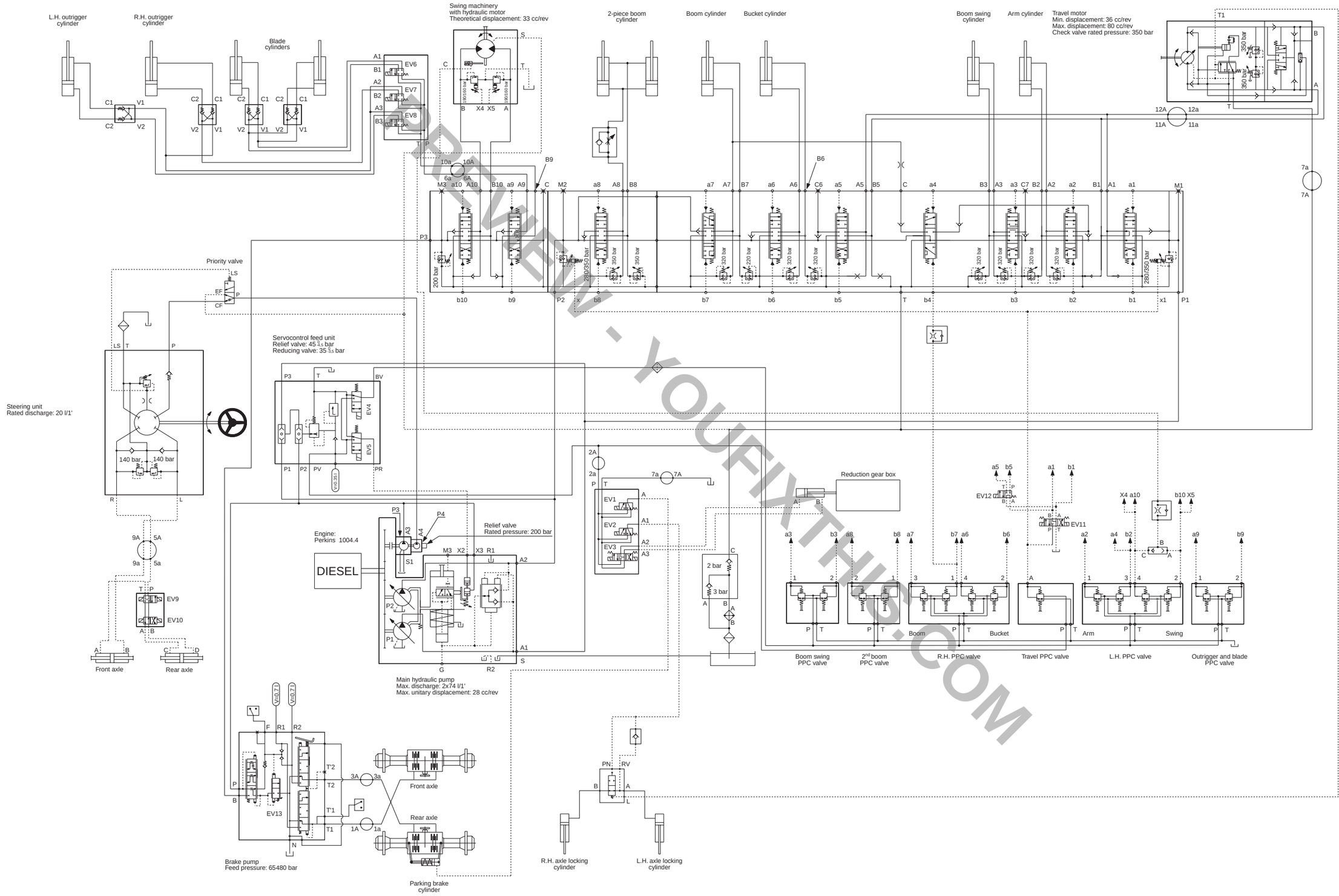
XA - 2-ways connector starting switch
XB - 2-ways connector supply and pre-heater
XC - 3-ways connector engine - relay-box line
XE - 17-ways connector main box - R.H. dashboard
XY - 7-ways connector engine - R.H. dashboard
Xi - 21-ways connector service and indicator light line
XK - 1-way connector R.H. dashboard
XM - 13-ways connector control panel
XN - 17-ways connector supply
XO - 17-ways connector beam line
XY - Connector control panel

FUSES A: FS2 - Preheater
FS4 - Stop motor
FS8 - Mechanical travel speed relay
FS11- Buzzer, + 15 operator's cab

FUSES B: Fi4 - +15 preheater, L.H. switch

PREVIEW YOUFIXTHIS.COM
Download full manual at youfixthis.com

HYDRAULIC CIRCUIT DIAGRAM

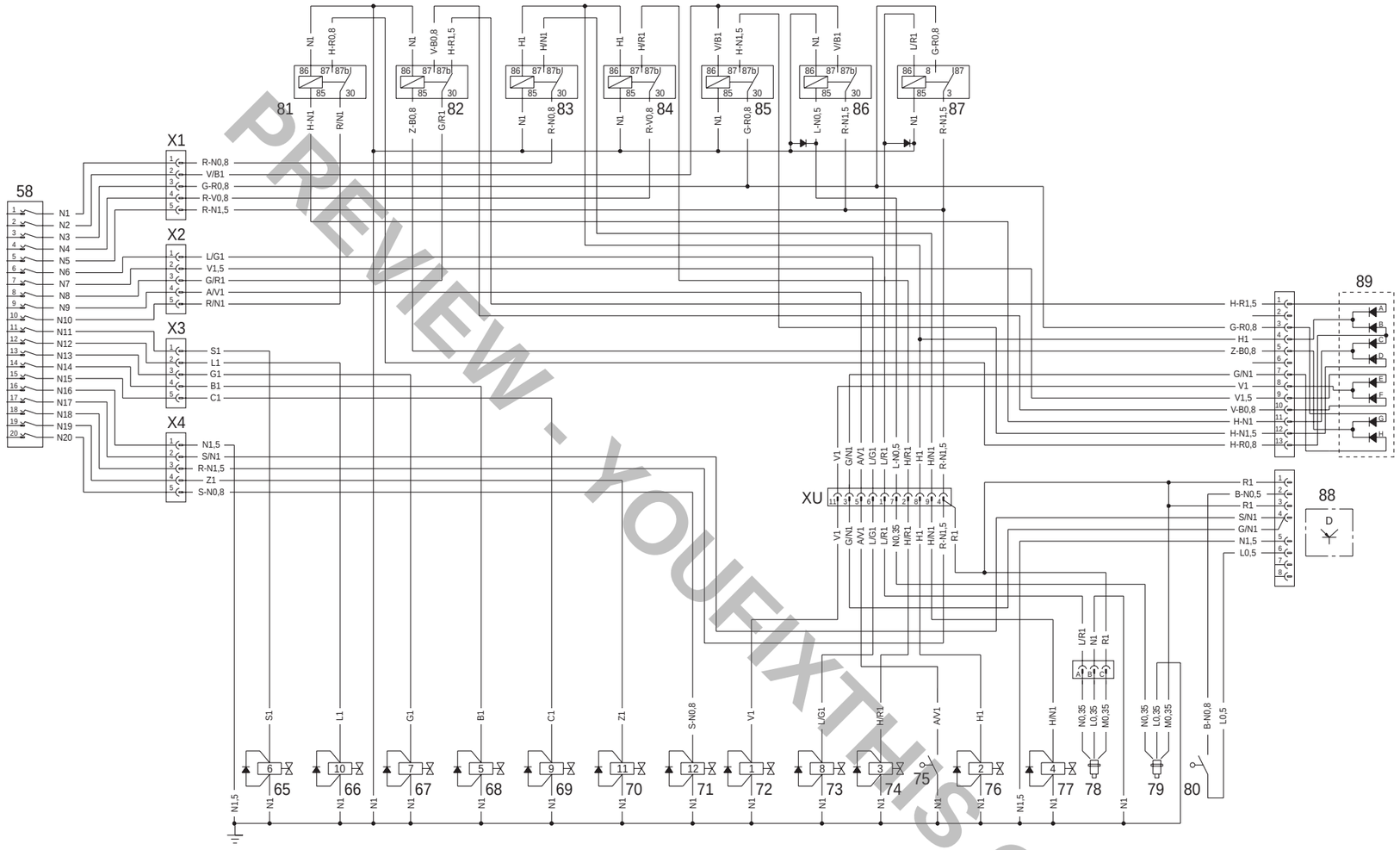


PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

ELECTRICAL CIRCUIT DIAGRAM

6 - TRACK FRAME SOLENOID VALVE AND STEERING RELAY BOX LINE



PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

COMPONENTS

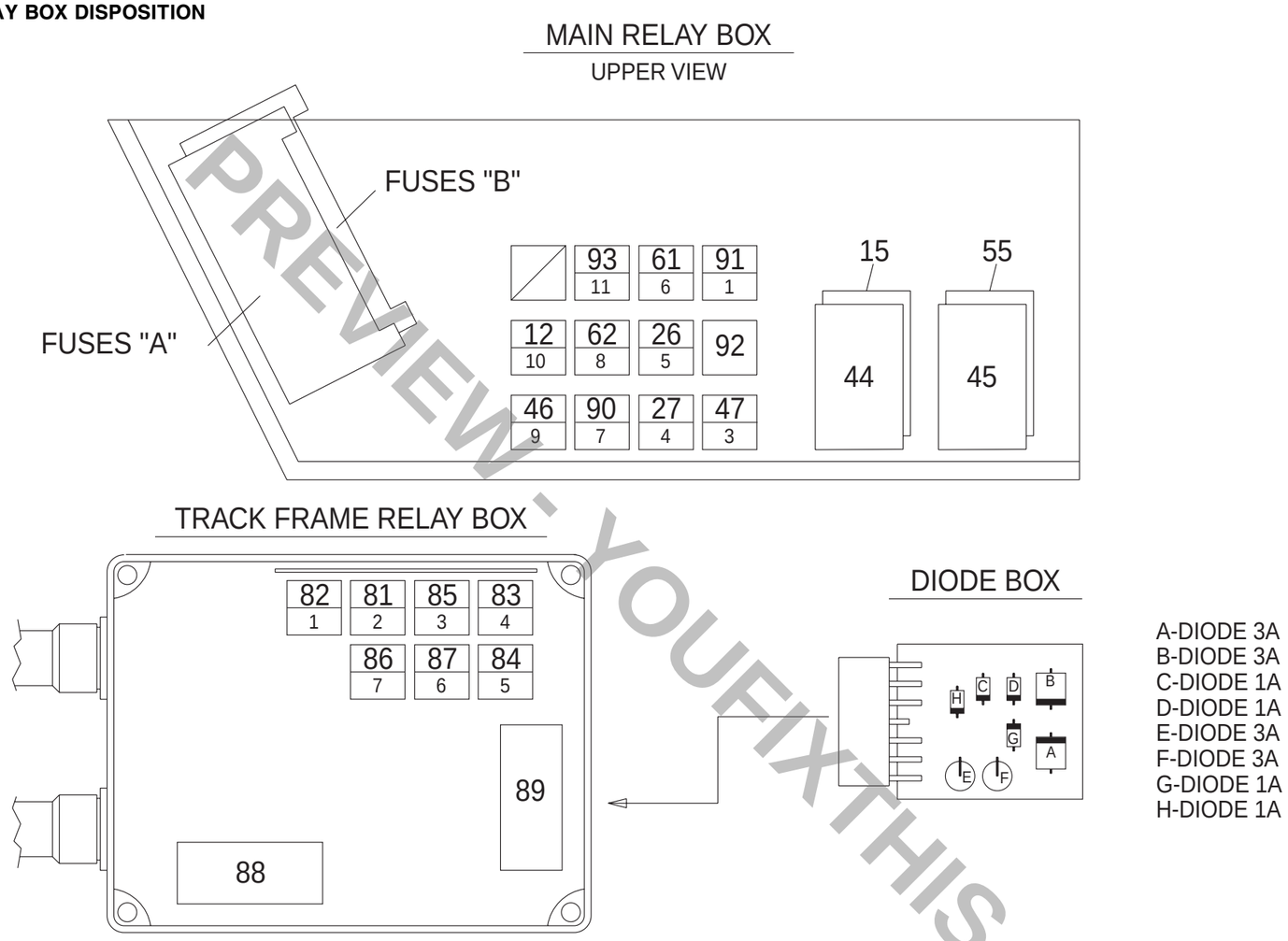
58 - Slip ring collector
65 - Low mechanical speed solenoid valve (EV3)
66 - Front L.H. outrigger solenoid valve (EV8)
67 - Locking axle sonenoid valve (EV2)
68 - High mechanical speed solenoid valve (EV3)
69 - Front L.H. outrigger solenoid valve (EV7)
70 - Blade solenoid valve (optional) (EV6)
71 - Outrigger solenoid valve (optional) (EV16)
72 - Normal steering solenoid valve (EV9)
73 - Parking brake solenoid valve (EV1)
74 - Circle steering solenoid valve (EV9)
75 - Inserted travel speed switch
76 - Double steering solenoid valve (EV10)
77 - Lateral steering solenoid valve (EV10)
78 - Rear axle steering sensor
79 - Front axle steering sensor
80 - Sensor for inhibition gear box
81 - Double steering manteining relay
82 - Steering clear and front steering relay
83 - Lateral and crab steering control relay
84 - Circle steering control relay
85 - Front and rear straight wheels control relay
86 - Front straight wheels control relay
87 - Rear straight wheels control relay
88 - Mechanical speed control box
89 - Diodes box

CONNECTOR

XU - 5-ways connector solenoid valve line
X1 - 5-ways connector slip ring collector - solenoid valve line
X2 - 5-ways connector slip ring collector - solenoid valve line
X3 - 5-ways connector slip ring collector - solenoid valve line
X4 - 16-ways connector slip ring collector - solenoid valve line

ELECTRICAL CIRCUIT DIAGRAM

7 - MAIN BOX AND TRACK FRAME RELAY BOX DISPOSITION



A-DIODE 3A
B-DIODE 3A
C-DIODE 1A
D-DIODE 1A
E-DIODE 3A
F-DIODE 3A
G-DIODE 1A
H-DIODE 1A

NOTE : NUMBER INDICATETED IN THE UPPER RELAY'S SIDE
AND IN A MOST EVIDENT WAY REFERS TO THE LEGEND

COMPONENTS

12 - Inserted reverse speed relay
15 - Pre-heater box
26 - Lower beam relay
27 - Driving beam relay
44 - Mechanical travel speed change
45 - R.H. switch relay box
46 - Forward travel control relay
47 - Mechanical travel speed control relay
55 - L.H. switch relay box
61 - Acoustic allarm relay
62 - Fast speed and crab steering acoustic alarm relay
81 - Double steering manteining relay
82 - Steering clear and front steering relay
83 - Lateral and steering control relay
84 - Circle steering control relay
85 - Front and rear straight wheels control relay
86 - Front straight wheels control relay
87 - Rear straight wheels control relay
88 - Mechanical speed control box
89 - Diodes box
90 - Flashing lights relay
91 - Stop beam relay
92 - Working beam relay (optional)
93 - Signal rear axle sensor inversion relay

Download full manual at youfixthis.com
PREVIEW - YOUFIXTHIS.COM

WEIGHT TABLE

⚠ This weight table is a guide for use when transporting or handling components.

Unit: kg

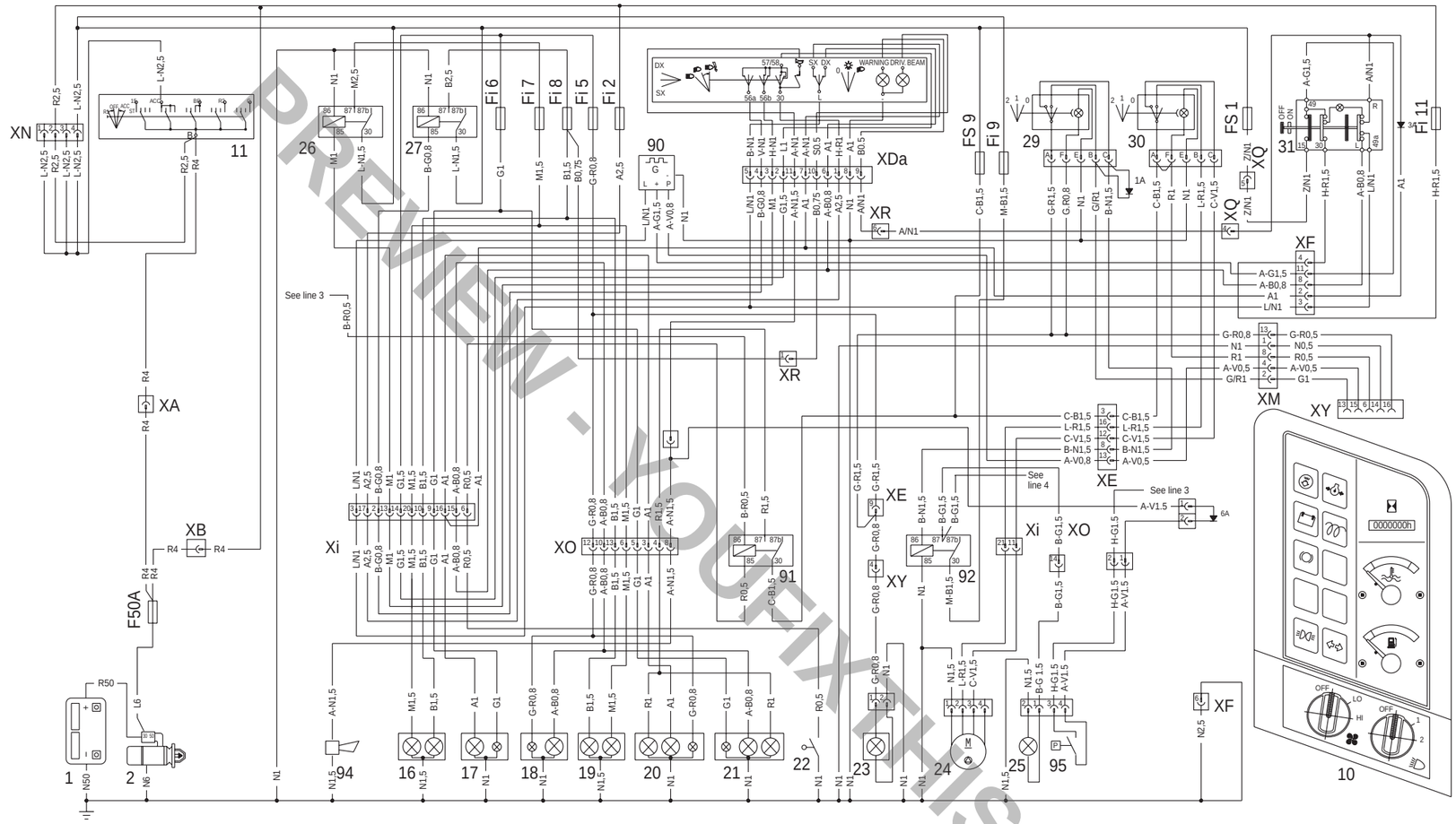
Machine model	PW95-1
From serial no.	0000007
Engine assembly	492
Radiator - exchanger	41
Hydraulic tank (without hydraulic oil)	76
Fuel tank (without fuel)	104
Revolving frame	1092
Counter weight	1150
Swing circle	130
Swing machinery assembly	65
Main hydraulic pump	60
Auxiliary pump	16.5
Operator's cab	250
Operator's seat	32
Operator's seat support	9
Platform	55
Control valve	60
Track frame assembly	860
Front axle	403
Rear axle	410
Transmission assembly	72
Wheel assembly	79
Center swivel joint	97
Axle locking cylinder cylinder	30.5
Swing bracket	36
Engine hood (movable)	60
Engine hood (fixed)	83
Control valve hood	16
Boom	358
1st boom	272
2nd boom	195
Arm (L = 1850)	156
Arm (L = 1600)	134
Outrigger	76
Bracket	29
Outrigger support	140
Blade	192

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

ELECTRICAL CIRCUIT DIAGRAM

2 - BEAMS, DIRECTION INDICATOR HORN AND FAN LINE



PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

COMPONENTS

1 - Battery
2 - Starter motor
10 - Control panel
11 - Starter switch
16 - L.H. beam
17 - L.H. travel direction indicator beam
18 - R.H. travel direction indicator beam
19 - R.H. beam
20 - Rear L.H. beam
21 - Rear R.H. beam
22 - Brake switch
23 - Registration number beam
24 - Heating fan motor
25 - Working beam (optional)
26 - Lower beam relay
27 - Driving beam relay
29 - Working beam switch
31 - Emergency switch
90 - Flashing light relay
91 - Stop beam relay
92 - Working beam relay
94 - Horn
95 - Overload pressure sensor

CONNECTOR

XA - 2-ways connector starting switch
XB - 2-ways connector supply and pre-heater
XDa - 13-ways connector column steering switch
XE - 17-ways connector main box - R.H. dashboard
XF - 7-ways connector L.H. dashboard
XY - 7-ways connector engine - R.H. dashboard
Xi - 21-ways connector service and indicator light line
XM - 13-ways connector control panel
XN - 17-ways connector supply
XO - 17-ways connector beam line
XQ - 9-ways connector L.H. dashboard
XR - 5-ways connector main box - column travel switch line

FUSES A:

FS1 - +15 Turning indicator lights
FS9 - Stop, heater, working mode, R.H. switch, control panel

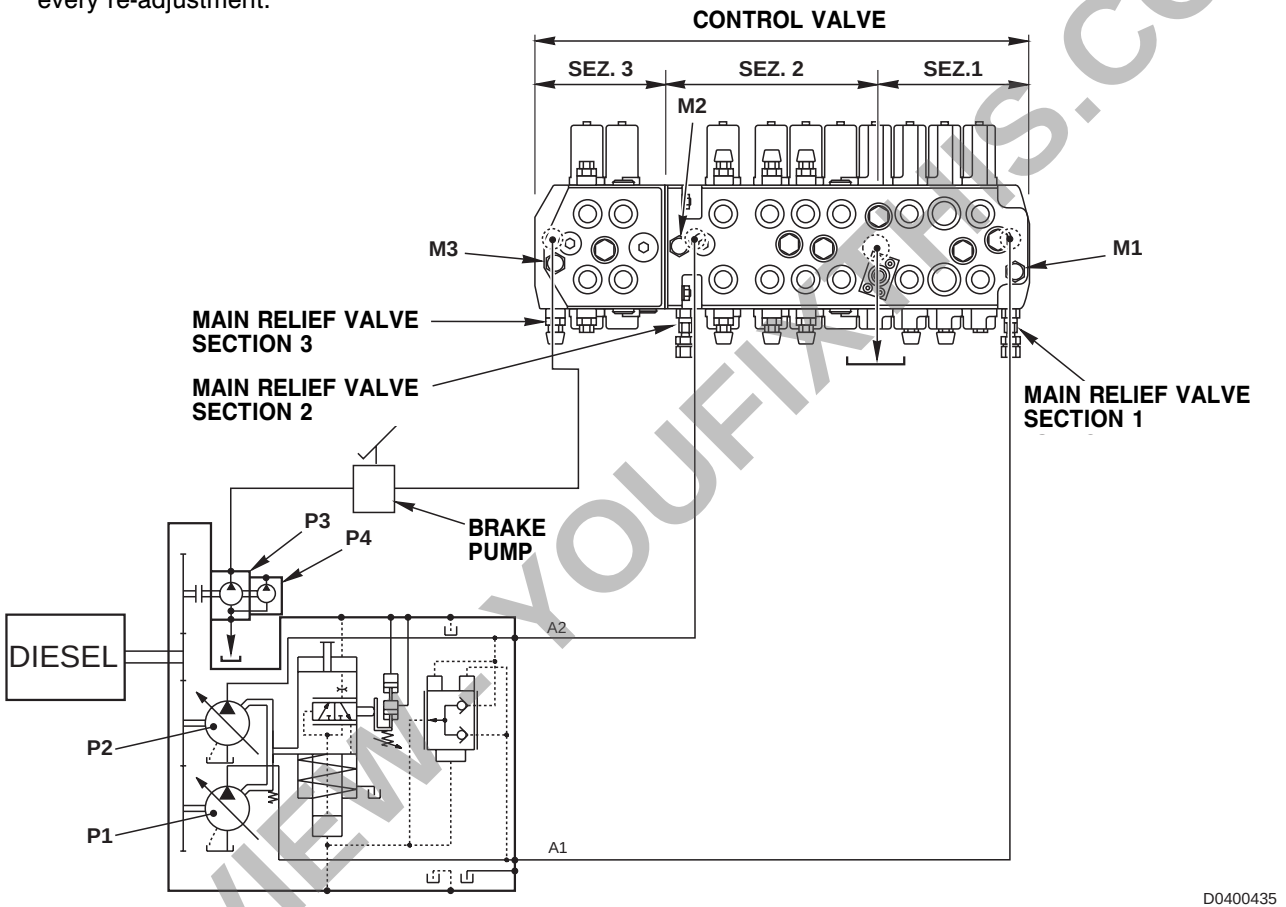
FUSES B:

Fi2 - Turning indicator lights
Fi5 - Front R.H. and rear L.H. parking light
Fi6 - Front L.H. and rear R.H. parking light
Fi7 - Lower beam
Fi8 - Driving beam
Fi9 - Working lamp
Fi11 - +30 emergency warning lights

CHECKING AND REGULATING PRESSURE IN THE HYDRAULIC CIRCUITS

INTRODUCTION

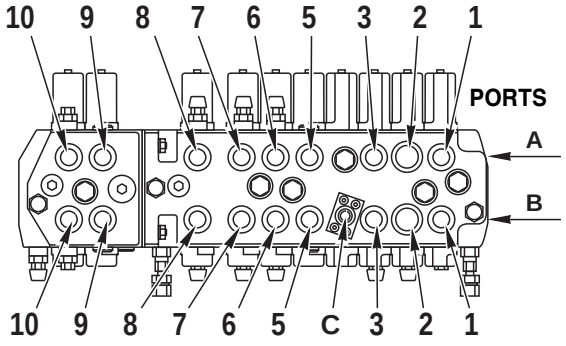
- The control valve is divided into three normally independent sections, supplied by pumps P1-P2-P3 respectively.
- Each section is protected against overpressures by a main (or primary).
  The safety valves of sections 1 and 2 can be re-set by a hydraulic pilot system, whereas the section 3 valve has a fixed setting and must be lead-sealed after every re-adjustment.



D0400435

- The sections consist of the spools that govern:

Section	Control	Ports
1	Slow travel (Forward-Backward)	A1-B1
	Arm (Open-Close)	A2-B2
	Boom swing	A3-B3
	Boom speed increment	C
2	Rapid travel (Forward-Backward)	A5-B5
	Bucket (Curl-Dump)	A6-B6
	Boom (Raise-Lower)	A7-B7
	2nd boom (Raise-Lower)	A8-B8
3	Blade - Outriggers (Lower-Raise)	A9-B9
	Swing (Left-Right)	A10-B10

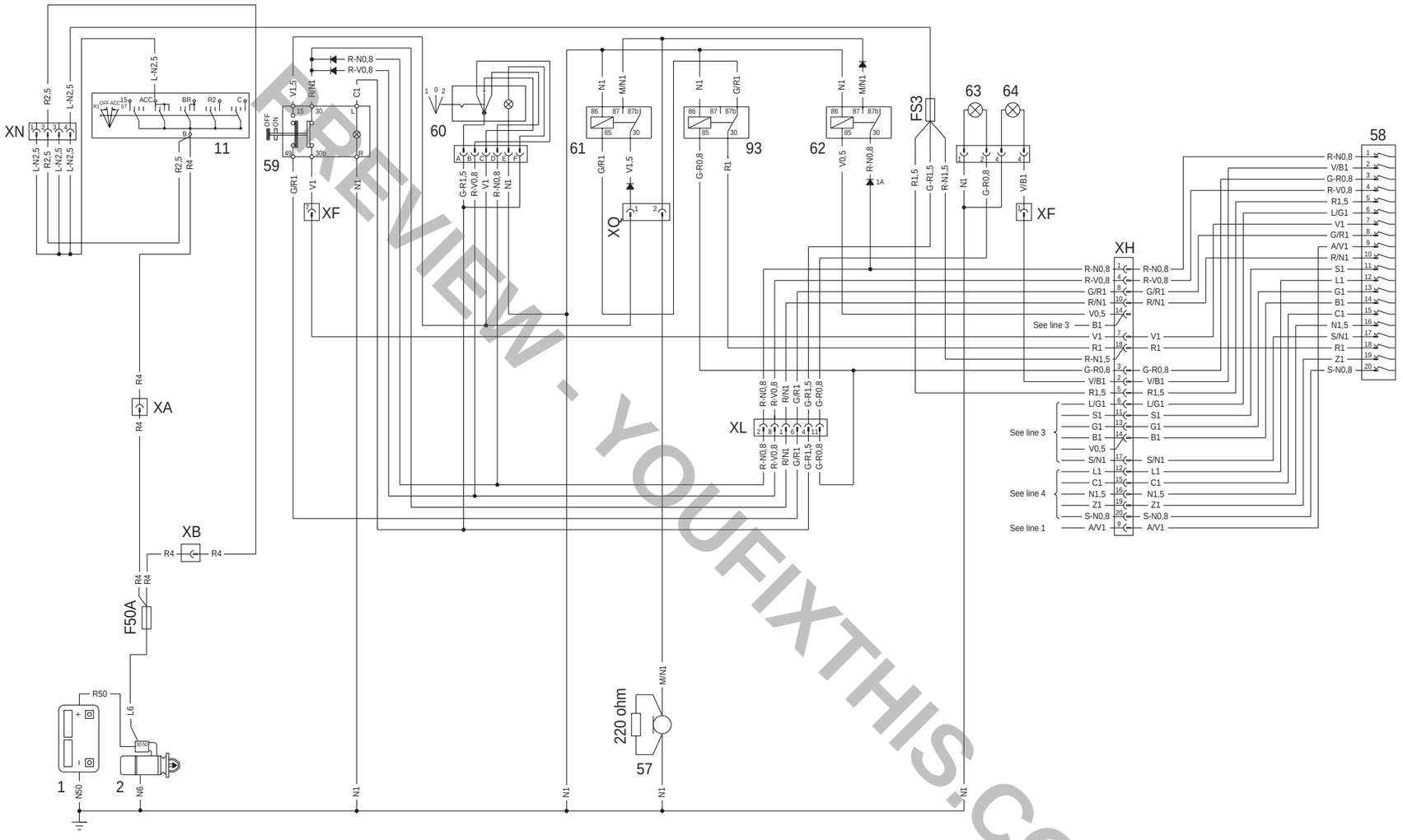


D0400436

PREVIEW YOUFIXTHIS.COM
Download full manual at youfixthis.com

ELECTRICAL CIRCUIT DIAGRAM

5 - STEERING EMERGENCY SWITCH STEERING SELECTION SWITCH AND UPPER SLIP RING COLLECTOR LINE



PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

COMPONENTS

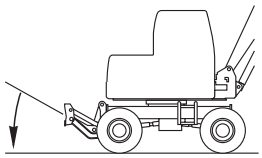
1 - Battery
2 - Starter motor
11 - Starter switch
57 - Steering buzzer
58 - Slip ring collector
59 - Steering emergency switch
60 - Steering selection switch
61 - Buzzer relay
62 - Fast speed and crab steering acoustic alarm relay
63 - Rear axle light
64 - Front axle light
93 - Signal rear axle sensor inversion relay

CONNECTOR

XA - 2-ways connector starting switch
XB - 2-ways connector supply and pre-heater
XF - 7-ways connector L.H. dashboard
XH - 21-ways connector slip ring collector
XL - 13-ways connector L.H. dashboard
XN - 17-ways connector supply
XQ - 9-ways connector L.H. dashboard

FUSES A: FS3 - Under-carriage relay box supply

• FOR MACHINE

Machine model					PW95-1	
Classification	Check item		Test conditions	Unit	Standard value	Permissible value
Work equipment	Time lags	Blade	Measuring posture  D0400429 • Engine speed: low idling • Oil temperature: 45÷55°C • Raise the blade to its max. height, then lower it. Measure the time it takes for the rear of the machine to be lifted off the ground, starting from the time the blade contacts the ground.	sec	Max. 1	Max. 2

Machine model					PW95-1	
Classification	Check item	Test conditions		Unit	Standard value	Permissible value
Pumps	Gear pump P3 (22.9 cc/rev)	• Engine: 2000 rpm • Oil temperature: 45÷55°C • Measure the delivery at 50-100-200 bar	50 bar	ℓ/min	16.8	Min. 15.1
			100 bar		16.7	Min. 15.0
			200 bar		16.6	Min. 14.9
	Gear pump P4 (12.7 cc/rev)	• Engine: 2000 rpm • Oil temperature: 45÷55°C • Valve calibration to MAX: 200 bar • Measure the delivery at 50-100-200 bar	50 bar		7.4	Min. 6.7
			100 bar		7.4	Min. 6.7
			200 bar		7.4	Min. 6.7
	Piston pumps (P1 and P2)	• Engine: 2000 rpm • Oil temperature: 45÷55°C • Measure (for each pump) the delivery at 50-100-200-300 e 350 bar • Measure the deliveries for WORKING MODE in position P and in position E • Measure the deliveries for WORKING MODE in position P and with the 3-circuit valve functioning			See following pages	

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

TABLE OF OIL AND COOLANT QUANTITIES

RESERVOIR	KIND OF FLUID	AMBIENT TEMPERATURE –20 –10 0 10 20 30°C	CAPACITY (ℓ) Specified	Refill
Lubricating oil sump	OIL • API CD-SG • MIL-L-2104 E • CCMC D4-G4	SAE 10W / SAE 20W-20 / SAE 30 / SAE 40	11.5	11.5
Engine oil filter			1	1
Hydraulic system		SAE 10W	148	82
Front axle: • differential	OIL • UTTO FLUID		7.8	7.8
• planetary (each)			0.9	0.9
Rear axle: • differential			7.8	7.8
• planetary (each)			0.9	0.9
Transmission	OIL • API GL5 • MIL-L-2105 D		1.9	1.9
Swing machinery		SAE 80W/90	4	4
Fuel tank	DIESEL FUEL	✱ / ASTM D975 N. 2	140	——
Cooling system	WATER + ANTI-FREEZE		20	——
	WATER		20	——
	PERMANENT LIQUID		20	——

✱ ASTM D975 N. 1

ASTM: America Society of Testing and Materials
SAE: Society of Automotive Engineers
API: American Petroleum Institute
MIL: USA Military Specification
CCMC: Common Market Constructors Committe

Specified capacity: Total amount of oil including oil for components and oil in piping.
Refill capacity: Amount of oil needed to refill system during normal inspection and maintenance.

NOTE:

(1) When fuel sulphur content is less than 0.5%, change oil in the oil pan ebery periodic maintenance hours described in operation and maintenance manual.
Change oil according to the following table if fuel sulphur content is above 0.5%.

Fuel sulphur content	Oil change interval in engine oil pan
0.5 to 1.0%	1/2 of regular interval
Above 1.0%	1/4 of regular interval

(2) When starting the engine is weathers temperature below 0°C, be sure to use engine oil SAE 10W, SAE 20W-20, even if weather temperature goes up to 10°C day time.

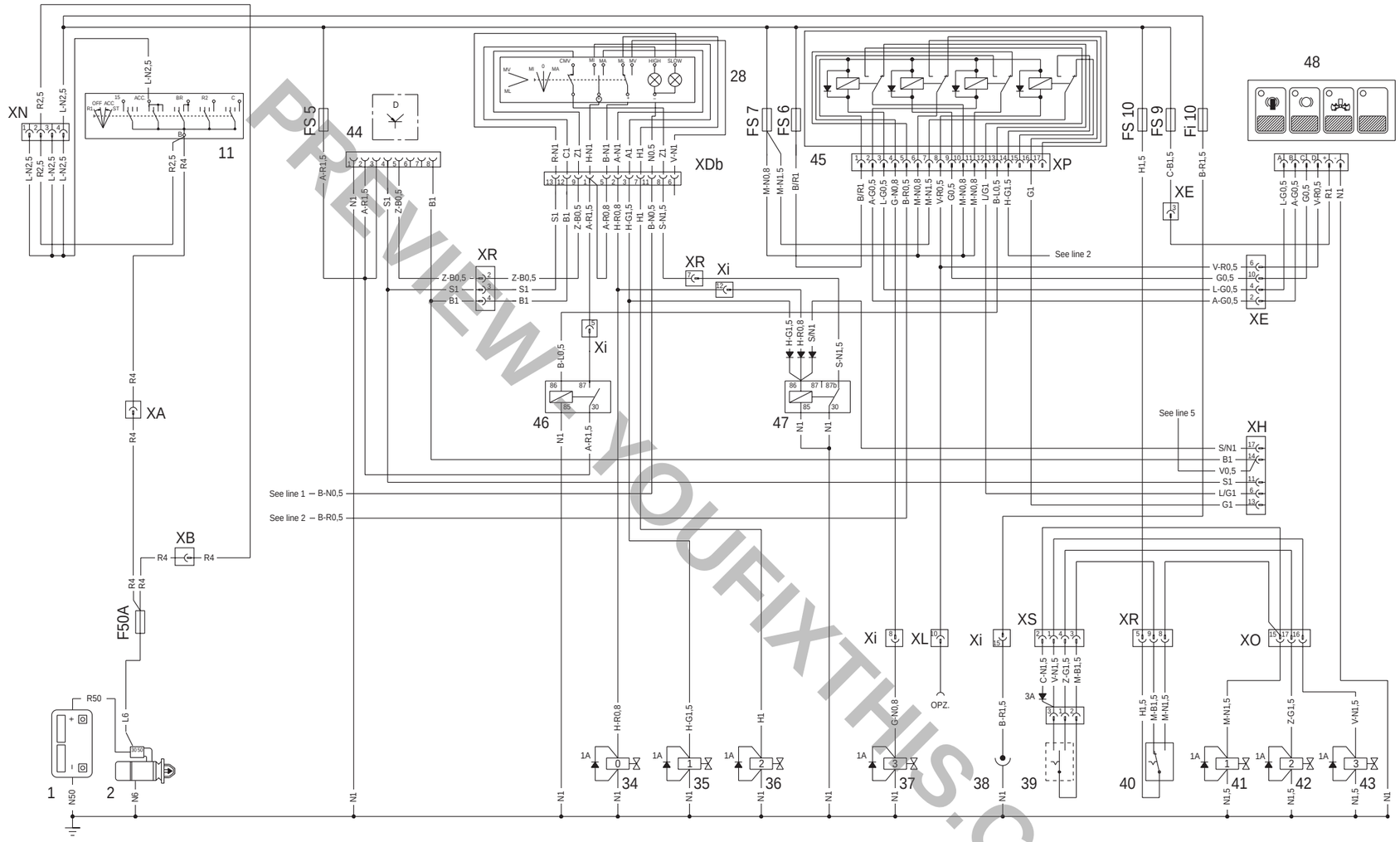
(3) Use classification CD as engine oil, if use classification CC, reduce the engine oil change interval to half.

(4) Use original products, which have characteristics specifically formulated and approved for the engine, the hydraulic circuit of equipment and for reductions.

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

ELECTRICAL CIRCUIT DIAGRAM

3 - COLUMN STEERING SWITCH, R.H. DASHBOARD SWITCH, MECHANICAL TRAVEL SPEED CHANGE RELAY AND ROTARY AND CUTTING SHOVEL SWITCH LINE



COMPONENTS

1 - Battery
2 - Starter motor
11 - Starter switch
28 - Column steering switch
34 - Forward travel solenoid valve (EV11)
35 - Reverse travel solenoid valve (EV11)
36 - Hydraulic high speed solenoid valve (EV12)
37 - Working brake solenoid valve (EV13)
38 - Electric socket
39 - Rotary and cutting shovel switch
40 - Hammer switch (optional)
41 - Hammer solenoid valve (optional) (EV14)
42 - Bucket R.H. rotation solenoid valve (optional) (EV15)
43 - Bucket L.H. rotation solenoid valve (optional) (EV15)
44 - Mechanical travel speed change relay
45 - R.H. switch relay box
46 - Forward travel control relay
47 - Mechanical travel speed control relay
48 - R.H. switch

CONNECTOR

XA - 2-ways connector starting switch
XB - 2-ways connector supply and pre-heater
XDb - 11-ways connector column travel switch
XE - 17-ways connector main box - R.H. dashboard
XH - 21-ways connector slip ring collector
Xi - 21-ways connector service and indicator light line
XL - 13-ways connector L.H. dashboard
XN - 17-ways connector supply
XO - 17-ways connector beam line
XR - 5-ways connector main box - column travel switch line
XS - 7-ways connector main box - dashboard

FUSES A:

FS5 - Direction indicator lamp, low and high speed travel
FS6 - Relay box
FS7 - R.H. switch relay box
FS9 - Stop, heater, working mode, R.H. switch, control panel
FS10- Servocontrol, hammer and rotating and cutting shovel

FUSES B:

Fi10 - +30 Operator's cab, electric socket

PREVIEW YOUFIXTHIS.COM

Download full manual at youfixthis.com

20 TESTING AND ADJUSTMENTS

Normal or standard technical data 2
Equipment for testing, adjusting and identifying faults..... 19
Measuring the engine speed 21
Valve clearance adjustment 22
Measurement of compression pressure 23
Checking and tightening the fan-belt..... 24
Adjusting the stroke of the accelerator lever..... 25
Adjusting PPC valves clearance..... 26
Adjusting the safety microswitch 28
Centering the stroke of the blade and the outriggers control lever 28
Measuring the swing circle axial clearance 29
Bleeding air from pumps (P1 and P2)..... 30
Bleeding air from the PPC valves circuit..... 30
Bleeding air from the Load Sensing circuit 30
Bleeding air from the cylinders 31
Releasing residual pressure from the circuits..... 31
Releasing residual pressure from the brake line accumulators 31
Checking and regulating pressure in the hydraulic circuits 32
Checking the intervention point of the summation horsepower control..... 40
Checking the initial horsepower control point for the 3-circuit control valve 41
Checking and adjusting pressures in the servocontrol supply units 42
Adjusting the main safety valve of pump P4..... 43
Measuring pump delivery 44
Checking that the priority valve is functioning correctly..... 45
Checking and regulating the pressure of the steering system 46
Checking leakages in the steering cylinders..... 47
Checking the braking system..... 48
Checking wear in the brake disks 53
Bleeding air from the brake lines..... 54
Adjusting the parking brake..... 55
Checking the hydraulic travel system 56
Checking and adjusting the safety valves of the travel motor..... 58
Checking and adjusting the automatic displacement control system of the travel motor..... 59
Checking for leakages in the travel motor..... 60
Checking and adjusting the speed of the travel propeller shaft 61
Adjustment of the speed surveyor..... 62
Adjusting boom and arm safety valves 63
Adjusting 2nd boom safety valves..... 64
Measuring the initial intervention point of the overload sensor 65
Adjusting the valve that controls the closing speed of the 2nd boom 66
Measurement of internal oil leakages in the swing motor..... 67
Checking for leakages inside the swivel joint 68
Analysis of the causes of hydraulic drifts..... 70
1. Boom test 70
2. Arm test 70
3. Testing the functionality of the boom and arm safety valve..... 71
4. 2nd boom test 72
5. Testing the functionality of the 2nd boom safety valves 73
6. Bucket test 73
7. Boom swing test 74
8. Test for the outriggers 74
9. Blade test 76
10. Swing motor test..... 77
11. Checking the travel motor 78
12. Test for the axle-locking valve..... 79
Troubleshooting 81

PREVIEW - YOUFIXTHIS.COM

⚠ When carrying out controls, adjustments or analyses for troubleshooting, park the machine on firm, level ground. Apply all the machine safety devices and use blocks to prevent any machine movement.

⚠ When more than one person is engaged in the work, use the prescribed notices that indicate that the machine is undergoing maintenance. Do not allow any unauthorised persons to remain in the vicinity.

⚠ When checking the level of the cooling liquid, wait until this liquid has cooled. If the radiator cap is removed while the liquid is still hot and under pressure, it may cause severe burns.

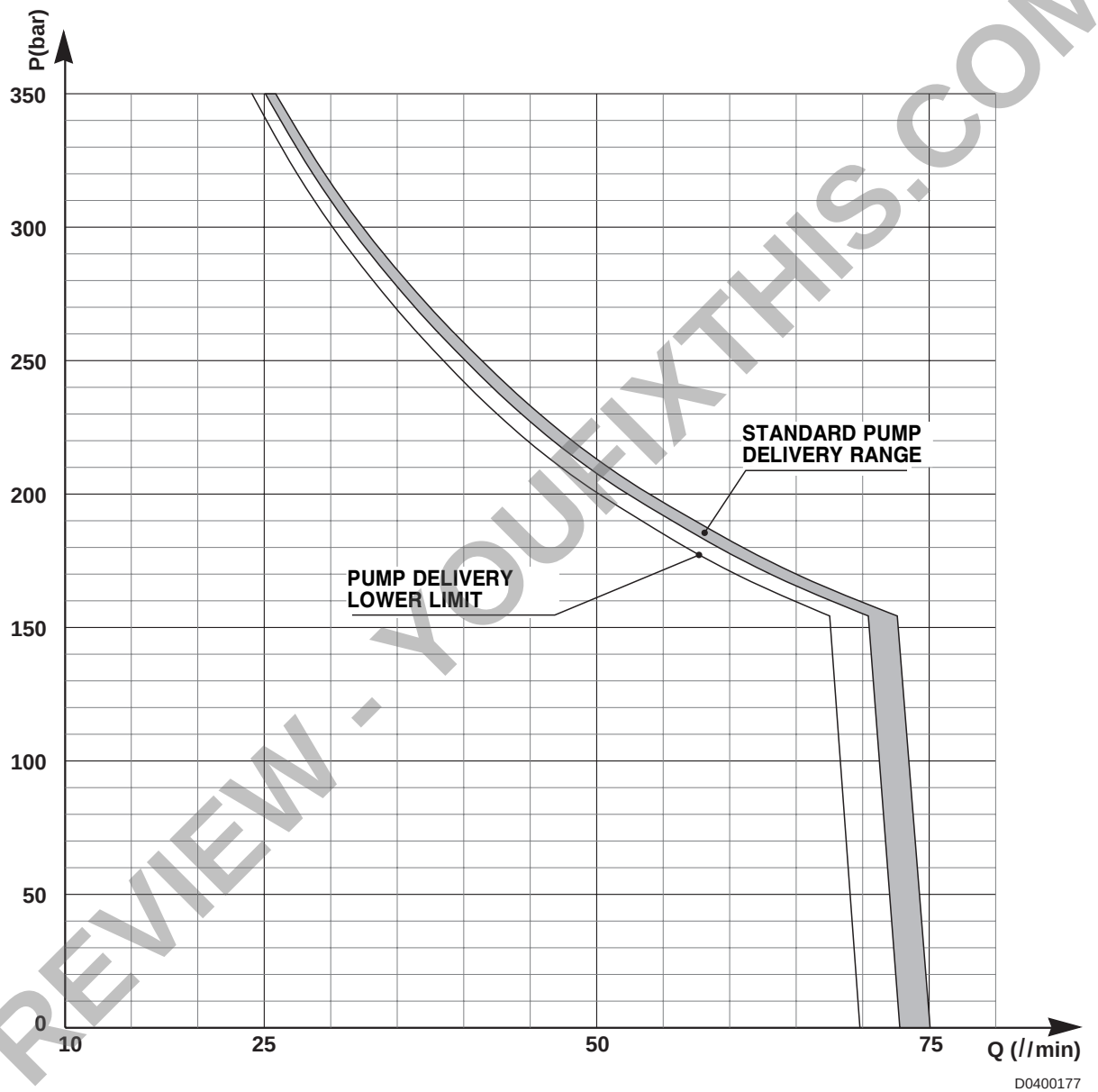
⚠ Take great care not to get entangled in moving parts (fan, alternator belt or any of the rotating elements).

Download full manual at youfixthis.com

Classification

- Delivery of individual piston pumps, P1 and P2
- WORKING MODE selector: position P.
- Pump speed: 2000 rpm

Pump characteristics



PREVIEW - YOUFIXTHIS.COM

★ When measuring the deliveries with the pumps mounted on the machine, it becomes difficult to use the accelerator to set the number of engine rpm corresponding to the test speed prescribed for the pump.
Measure the delivery with the engine set to 2000 rpm, and perform a proportional calculation to find the delivery value required for the test.

★ Engine/pump gear ratio: 1:1.354.

Download full manual at youfixthis.com

NORMAL OR STANDARD TECHNICAL DATA

• FOR ENGINE

Machine model			PW95-1	
Engine			1004-4	
Check item	Test Conditions	Unit	Standard value	Permissible value
Engine speed (no-load)	High idling Low idling Set speed	rpm rpm rpm	2160±50 1000^{0}_{-50} 2050^{0}_{-50}	— — —
Exhaust gas colour	Sudden acceleration At high idling speed	Index Bosch	— —	— —
Valve clearance	Intake valve (20°C) Exhaust valve (20°C)	mm	0.20 0.45	—
Blow-by pressure	Water temperature in operating range At high idling speed SAE 30 oil	ℓ/min	—	60
Min. engine oil pressure	Water temperature in operating range At high idling speed	kg/cm^2	3.4÷4	2.1
Oil temperature	Entire speed range	°C	85°C	Max. 120
Fuel injection timing	B.T.D.C.	degrees	16.5	—
Fan-belt tension	Slack when pushed with finger force of 4.5 kg	mm	10	—

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

The affected pages are indicated by the use of the following marks. It is requested that necessary actions be taken to these pages according to table below.

Mark	Indication	Action required
○	Page to be newly	Add
●	Page to be replaced	Replace
( )	Page to be delete	Discard

Pages having no marks are those previously revised or made additions.

LIST OF REVISED PAGES

Mark	Page	Time of revision	Mark	Page	Time of revision	Mark	Page	Time of revision	Mark	Page	Time of revision	Mark	Page	Time of revision
	00-1			10-26			20-1			20-41			20-81	
	00-2			10-27			20-2			20-42			20-82	
	00-2-1			10-28			20-3			20-43			20-83	
	00-2-2			10-29			20-4			20-44			20-84	
	00-3			10-30			20-5			20-45			20-85	
	00-4			10-31			20-6			20-46			20-86	
	00-5			10-32			20-7			20-47			20-87	
	00-6			10-33			20-8			20-48			20-88	
	00-7			10-34			20-9			20-49			20-89	
	00-8			10-35			20-10			20-50			20-90	
	00-9			10-36			20-11			20-51			20-91	
	00-10			10-37			20-12			20-52			20-92	
	00-11			10-38			20-13			20-53			20-93	
	00-12			10-39			20-14			20-54			20-94	
				10-40			20-15			20-55			20-95	
	10-1			10-41			20-16			20-56			20-96	
	10-2			10-42			20-17			20-57			20-97	
	10-3			10-43			20-18			20-58			20-98	
	10-4			10-44			20-19			20-59			20-99	
	10-5			10-45			20-20			20-60			20-100	
	10-6			10-46			20-21			20-61			20-101	
	10-7			10-47			20-22			20-62			20-102	
	10-8			10-48			20-23			20-63			20-103	
	10-9			10-49			20-24			20-64			20-104	
	10-10			10-50			20-25			20-65			20-105	
	10-11			10-51			20-26			20-66			20-106	
	10-12			10-52			20-27			20-67			20-107	
	10-13			10-53			20-28			20-68			20-108	
	10-14			10-54			20-29			20-69			20-109	
	10-15			10-55			20-30			20-70			20-110	
	10-16			10-56			20-31			20-71			20-111	
	10-17			10-57			20-32			20-72			20-112	
	10-18			10-59			20-33			20-73			20-113	
	10-19			10-61			20-34			20-74			20-114	
	10-20			10-63			20-35			20-75			20-115	
	10-21			10-65			20-36			20-76			20-116	
	10-22			10-67			20-37			20-77			20-117	
	10-23			10-69			20-38			20-78			20-118	
	10-24			10-71			20-39			20-79			20-119	
	10-25						20-40			20-80			20-120	

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

⚠ IMPORTANT SAFETY NOTICE

Proper service and repair is extremely important for the safe operation of your machine.
The service and repair techniques recommended by FKI and describe in this manual are both effective and safe methods of operation. Some of these operations require the use of tools specially designed by FKI for the purpose.

To prevent injury to workers, the symbols ⚠ and ⚠ are used to mark safety precautions in this manual. The cautions accompanying these symbols should always be carefully followed. If any danger arises or may possibly arise, first consider safety, and take necessary steps to face.

⚠ SAFETY

GENERAL PRECAUTIONS

Mistakes in operation extremely dangerous.
Read all the Operation and Maintenance Manual carefully BEFORE operating the machine.

1. Before carrying out any greasing or repairs, read all the precautions written on the decals which are suck on the machine.
2. When carrying out any operation, always wear safety shoes and helmet. Do not wear loose work clothes, or clothes with buttons missing.
   - Always wear safety glasses when hitting parts with a hammer.
   - Always wear safety glasses when grinding parts with a grinder, etc.
3. If welding repairs are needed, always have a trained, experienced welder carry out the work. When carrying out welding work, always wear welding gloves, apron, glasses, cap and other clothes suited for welding work.
4. When carrying out any operation with two or more workers, always agree on the operating procedure before starting. Always inform your fellow workers before starting any step of the operation. Before starting work, hang UNDER REPAIR signs on the controls in the operator's compartment.
5. Keep all tools in good condition and learn the correct way to use them.
6. Decide a place in the repair workshop to keep tools and removed parts. Always keep the tools and parts in their correct places. Always keep the work area clean and make sure that there is no dirt or oil on the floor.
   Smoke only in the areas provided for smoking. Never smoke while working.

PREPARATIONS FOR WORK

7. Before adding or making any repairs, park the machine on hard, level ground, and block the wheels to prevent the machine from moving.
8. Before starting work, lower ourigger, bucket or any other work equipment to the ground. If this is not possible, use blocks to prevent the work equipment from falling down. In addition, be sure to lock all the control levers and hang warning sign on them.
9. When disassembling or assembling, support the machine with blocks, jacks or stands before starting work.
10. Remove all mud and oil from the steps or other places used to get on and off the machine. Always use the handrails, ladders or steps when getting on or off the machine.
    Never jump on or off the machine.
    If it is impossible to use the handrails, ladders or steps, use a stand to provide safe footing.

PRECAUTIONS DURING WORK

11. When removing the oil filler cap, drain plug or hydraulic pressure measuring plugs, loosen them slowly to prevent the oil from spurting out.
    Before disconnecting or removing components of the hydraulic circuit and engine cooling circuit, first remove the pressure completely from the circuit.
12. The water and oil in the circuits are not hot when the engine in stopped, so be careful not to get burned.
    Wait for the oil water to cool before carrying out any work on the cooling water circuits.

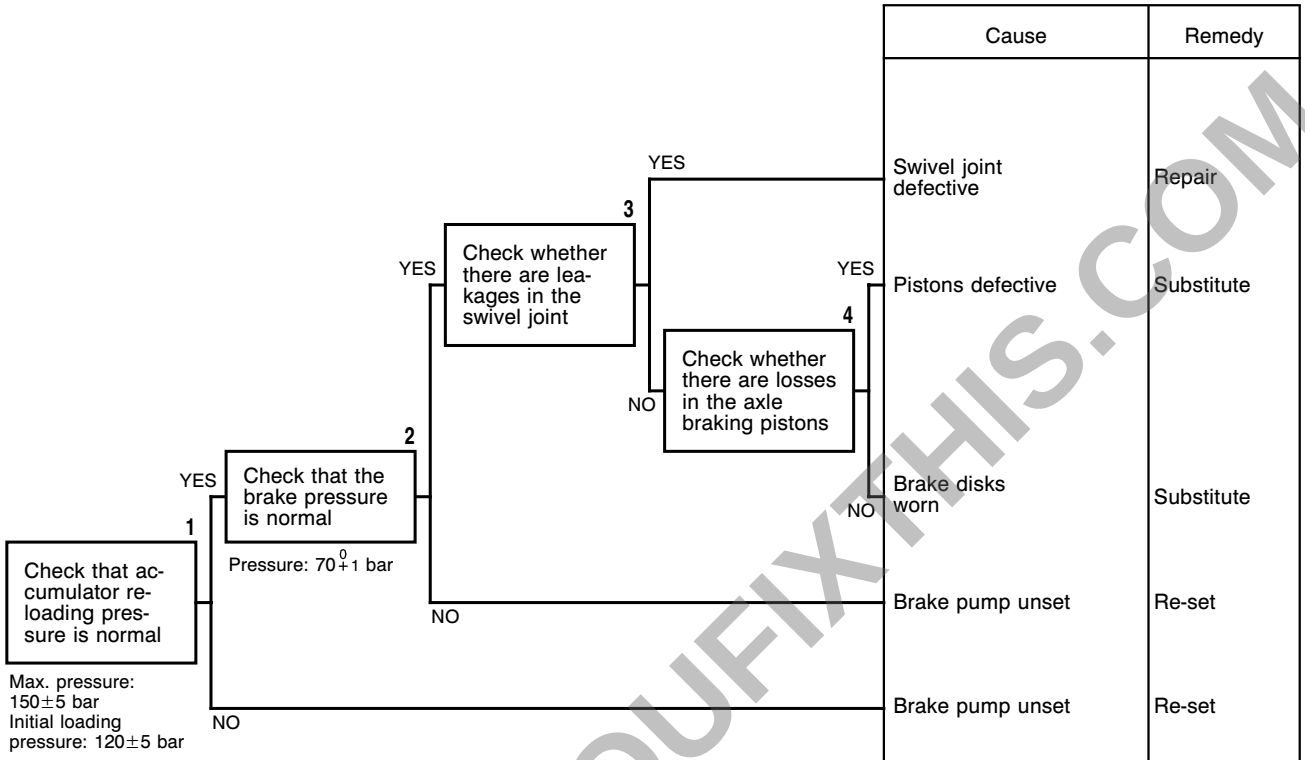
PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

Mark	Page	Time of revision	Mark	Page	Time of revision	Mark	Page	Time of revision	Mark	Page	Time of revision	Mark	Page	Time of revision
	20-121			30-47			30-103			30-159				
	20-122			30-48			30-104			30-160				
	20-123			30-49			30-105			30-161				
	20-124			30-50			30-106			30-162				
	20-125			30-51			30-107			30-163				
	20-126			30-52			30-108			30-164				
	20-127			30-53			30-109			30-165				
	20-128			30-54			30-110			30-166				
	20-129			30-55			30-111			30-167				
				30-56			30-112			30-168				
	30-1			30-57			30-113			30-169				
	30-2			30-58			30-114			30-170				
	30-3			30-59			30-115			30-171				
	30-4			30-60			30-116			30-172				
	30-5			30-61			30-117			30-173				
	30-6			30-62			30-118			30-174				
	30-7			30-63			30-119			30-175				
	30-8			30-64			30-120			30-176				
	30-9			30-65			30-121			30-177				
	30-10			30-66			30-122			30-178				
	30-11			30-67			30-123			30-179				
	30-12			30-68			30-124							
	30-13			30-69			30-125			40-1				
	30-14			30-70			30-126			40-3				
	30-15			30-71			30-127			40-4				
	30-16			30-72			30-128			40-5				
	30-17			30-73			30-129			40-6				
	30-18			30-74			30-130			40-7				
	30-19			30-75			30-131			40-8				
	30-20			30-76			30-132			40-9				
	30-21			30-77			30-133			40-10				
	30-22			30-78			30-134			40-11				
	30-23			30-79			30-135			40-12				
	30-24			30-80			30-136			40-13				
	30-25			30-81			30-137			40-14				
	30-26			30-82			30-138			40-15				
	30-27			30-83			30-139			40-16				
	30-28			30-84			30-140			40-17				
	30-29			30-85			30-141			40-18				
	30-30			30-86			30-142			40-19				
	30-31			30-87			30-143			40-20				
	30-32			30-88			30-144			40-21				
	30-33			30-89			30-145			40-22				
	30-34			30-90			30-146			40-23				
	30-35			30-91			30-147			40-24				
	30-36			30-92			30-148			40-25				
	30-37			30-93			30-149			40-26				
	30-38			30-94			30-150			40-27				
	30-39			30-95			30-151			40-28				
	30-40			30-96			30-152			40-29				
	30-41			30-97			30-153			40-30				
	30-42			30-98			30-154			40-31				
	30-43			30-99			30-155			40-32				
	30-44			30-100			30-156			40-33				
	30-45			30-101			30-157							
	30-46			30-102			30-158							

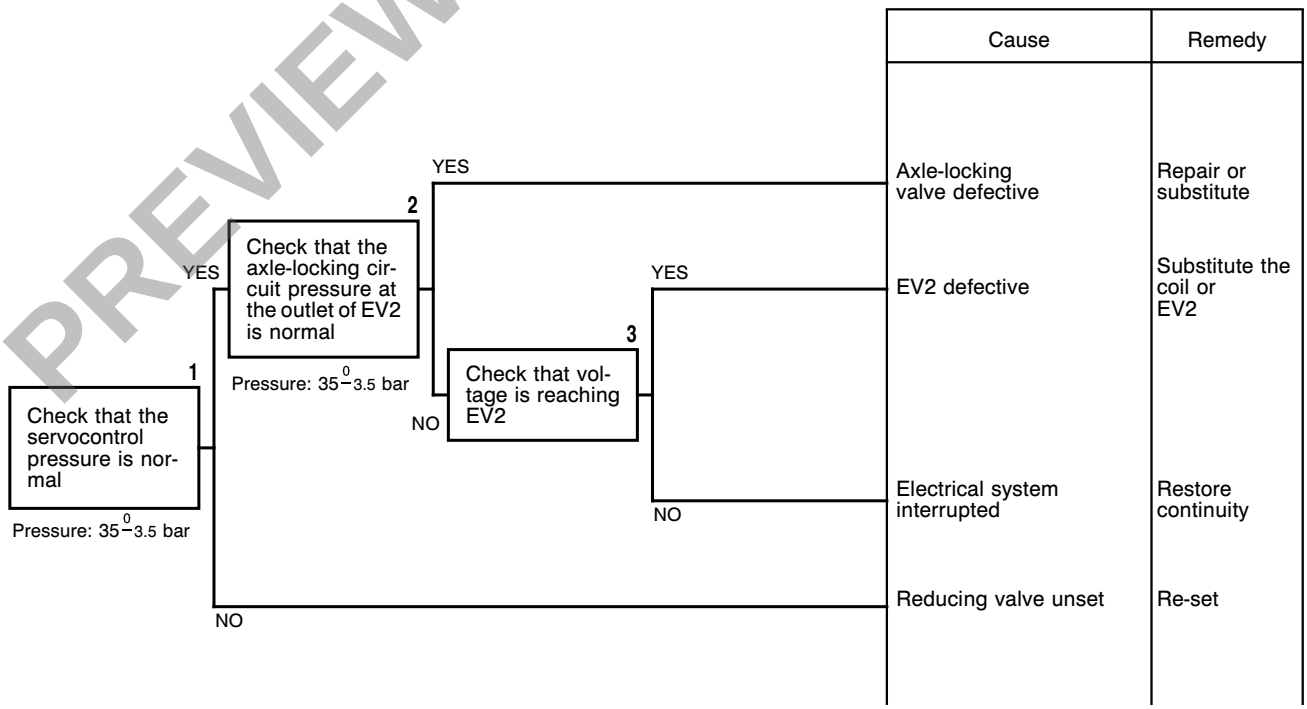
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

H22 - Braking power weak or partial



H23 - The front axle cannot be locked



PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 18 of 440 pages

The full manual includes:

- All 440 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Komatsu PW95-1 Shop Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual