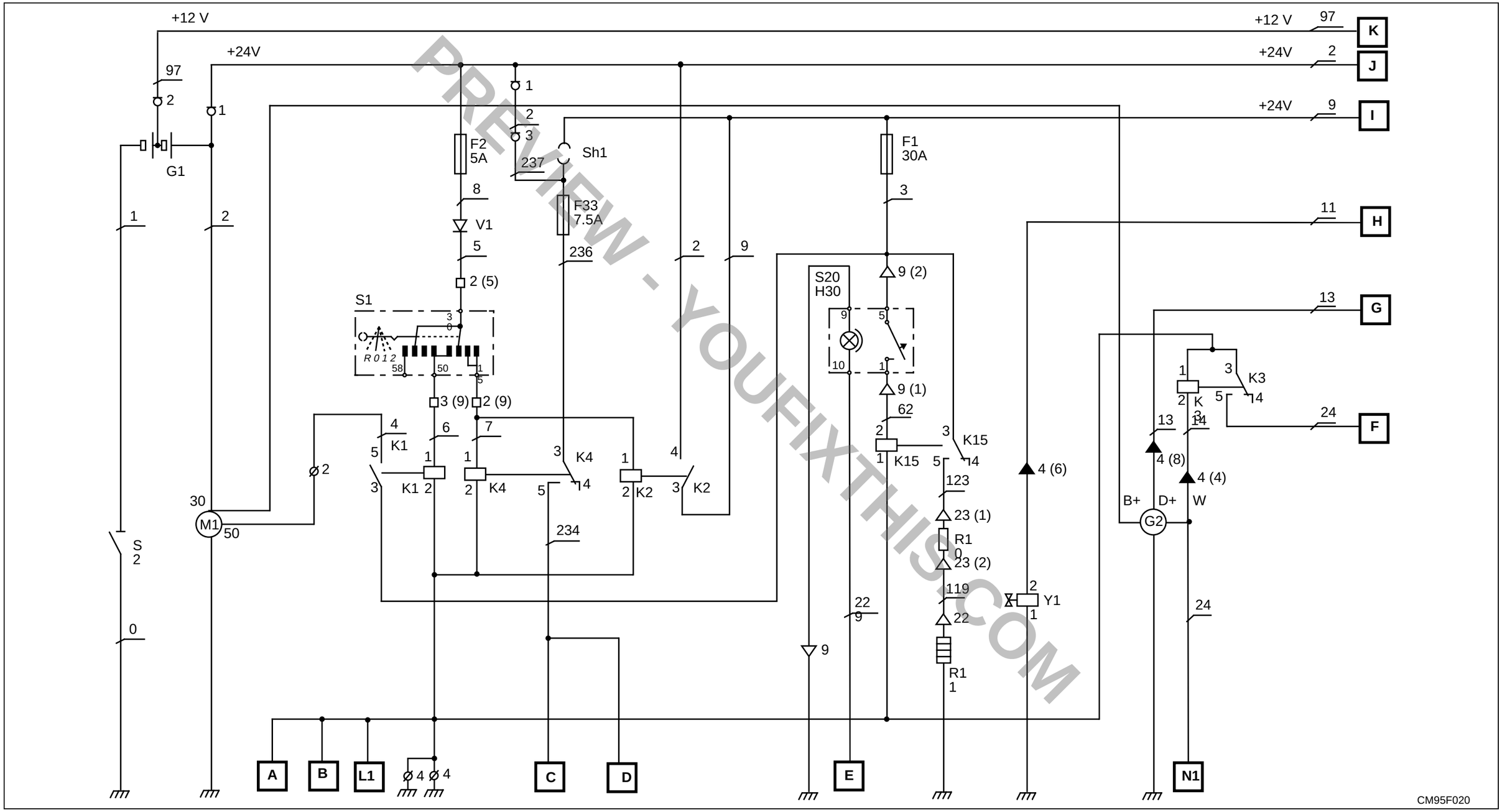
BATTERY MASTER SWITCH | BATTERIES MOTOR STARTER | CONTACT SWITCH BATTERY RELAY | DIAGNOSTIC SOCKET | ELECTRONIC BOX | THERMOSTART COLD START ASSISTANCE | ENGINE SHUT-DOWN CONTROL | ALTERNATOR



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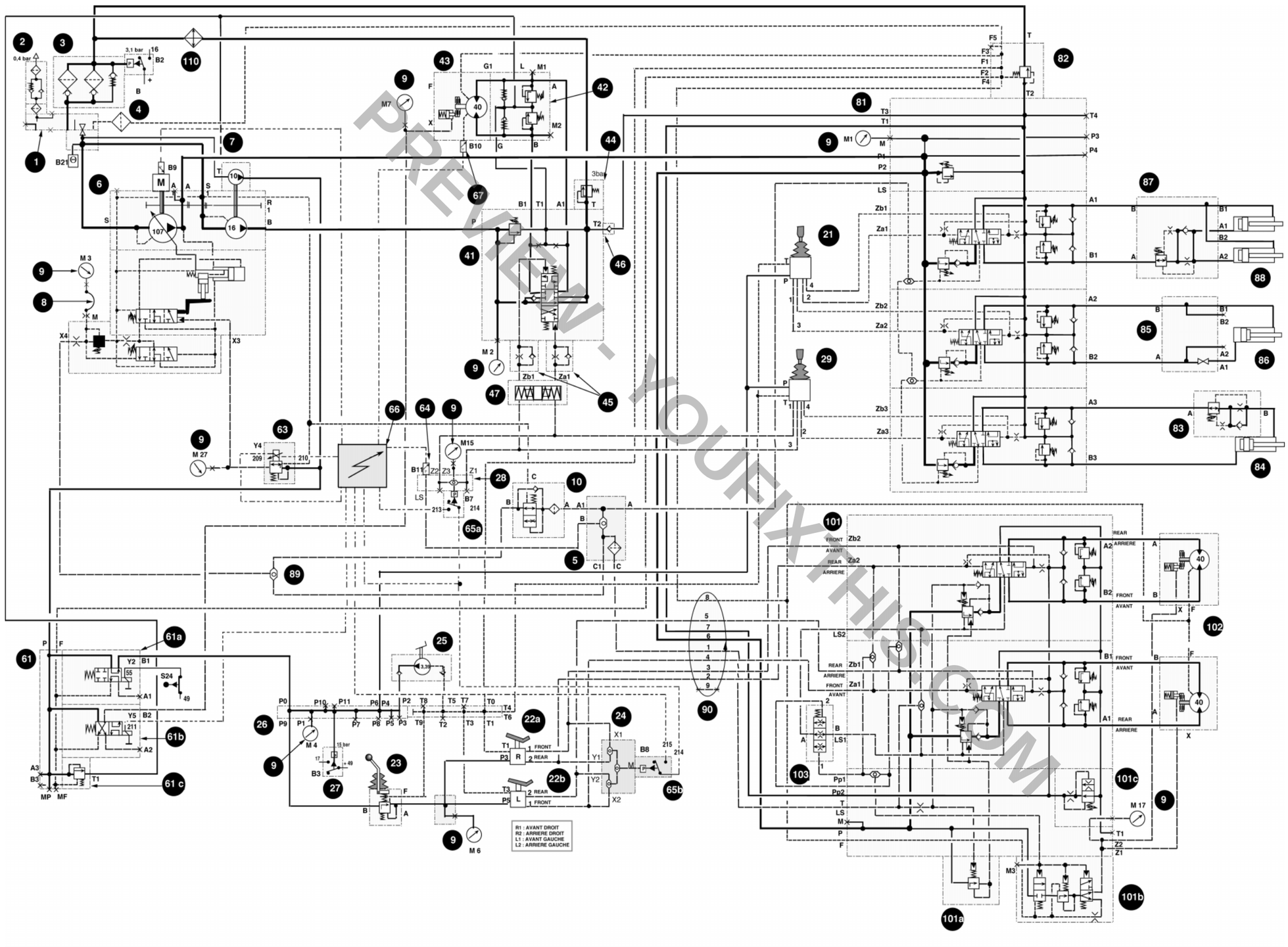

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Pressure settings (continued)

WARNING! *All checks and adjustments are carried out at various engine speeds and at a temperature of 50°C.*

WARNING! ***The flows specified on the 988 are those read on the flowmeter (1 pump body).***

Checking the pilot pressure with the control arm lowered

Connect the multitester to the manifold at **M4**.
Set the **MAX** mode.
The pressure must be greater than **34** (bar).
If it is not, check the **P35** or the electrical circuit.

AFTER EACH CHECK, IF THE PARAMETERS ARE INCORRECT, ADJUST AT THE COMPONENT CONCERNED OR CHANGE THE COMPONENT.

Setting the LS valve pressure

Static test using the same 0/40 bar pressure gauge:

WARNING! *Start the engine running, before connecting the pressure gauge at **M1**.*

Raise the left-hand control arm as a safety measure.
Set the **FINE** mode.
Connect the pressure gauge at **M3**. The pressure should be between **8** and **12** (bar). If it is not, check the P10.
Connect the pressure gauge at **M1**. The difference between **M1** and **M3** should be **21** to **25** (bar).

Dynamic test using multitester:

Assemble the spacer on the boom raising control lever push-rod.
Connect the two outlets from the multitester at **M1** and **M3**.
Operate the boom raising control.
The pressure difference (ΔP) should be between **21** and **23** (bar).

Checking the maximum flow from the variable displacement pump, using one flowmeter only

Set the **MAX** mode.
Connect the multitester for flow measurement.
Retract the dipper and close the bucket simultaneously.
The flow should be greater than **205** (l/min) and the pressure at **M1** lower than **125** (bar) on the 788.
The flow should be greater than **153** (l/min) and the pressure at **M1** lower than **100** (bar) on the 988.

Checking the flow adjustment valve flows

Attachment control valves

Supply the large chambers of the boom, bucket and dipper cylinders, one after another.
The flows should be between:

788C, 788C Plus	988C, 988C Plus
140 - 160 l/min on the boom	83 - 93 l/min on the boom
90 - 110 l/min on the bucket	70 - 80 l/min on the bucket
115 - 135 l/min on the dipper	78 - 88 l/min on the dipper

Travel control valve

WARNING! *The difference in the flows between the two tracks **should not exceed 4 (l/min)**.*

Forward travel:

Select the speed **1** (two-speed excavators).
Use the attachment to raise each track. Set the inching valve control lever to maximum.
Operate each track in the forward direction.
The flows noted should be between **100** and **120** (l/min) on the 788 and between **65** and **75** (l/min) on the 988.
If the values noted are between **95** and **125** (l/min) on the 788 and between **61** and **81** (l/min) on the 988, adjust the flow adjustment valves.
If not, check the adjustment of the automatic flow distribution.

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SPECIFICATIONS

	588/788 Models	788 Plus Model	988 Model	988 Plus Model
	79 module	79 module	79 module	72 module
Turntable bearing	9 teeth	9 teeth	10 teeth	11 teeth
Hydraulic reservoir capacity	115 L	115 L	180 L	180 L
Fuel tank capacity	249 L	249 L	249 L	249 L
Weight :				
Boom, dipper and bucket	2515 kg	2515 kg	3300 kg	3300 kg
Engine front hood	19 kg	19 kg	19 kg	19 kg
Engine upper hood	40 kg	40 kg	40 kg	40 kg
Attachment control valve hood	14 kg	14 kg	14 kg	14 kg
Cab	295 kg	295 kg	295 kg	295 kg
Counterweight	2950 kg	3150 kg	3550 kg	3550 kg
Control valve partition assembly	242 kg	242 kg	242 kg	242 kg
Swing reduction gear assembly	113 kg	113 kg	139 kg	139 kg
Cab floor	263 kg	263 kg	263 kg	263 kg
Upperstructure frame (complete with engine module and fuel tank)	1512 kg	1512 kg	1866 kg	1866 kg
Turntable bearing	135 kg	135 kg	197 kg	270 kg
Hydraulic swivel	134 kg	134 kg	134 kg	134 kg
Batterie (1)	43 kg	43 kg	43 kg	45 kg

SPECIAL TORQUE SETTINGS

	588 Model	788 Model	988 Model
Counterweight retaining screws	1000 Nm	1000 Nm	1000 Nm
Turntable bearing retaining screws	500 Nm	500 Nm	500 Nm
Cab mounting screws	120 Nm	120 Nm	120 Nm
Hydraulic reservoir plug	30 Nm	30 Nm	30 Nm
Hydraulic swivel bracket retaining	500 Nm	500 Nm	500 Nm

TOOLS REQUIRED

1 Torque wrench (169 to 779 Nm and 34 to 197 Nm)
2 One torque wrench extension CAS 2318
3 One dial gauge CAS 10066-1A
4 One magnetic base CAS 10149
5 A 10 tonne lifting device
6 Two slings (400 to 600 kg)
7 Two slings (150 to 200 kg)
8 Four slings (3000 kg)
9 Loctite 496

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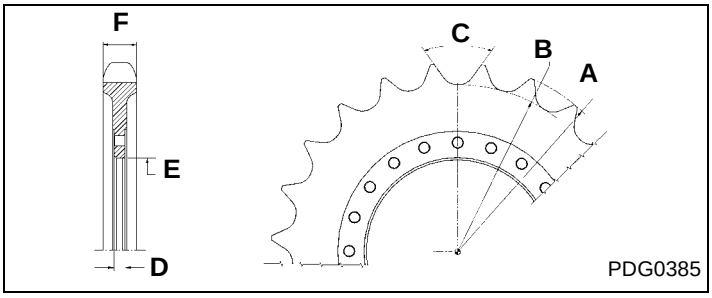
	788 Model	988 Model

Shock absorbers

Weight (per shock absorber)	36,6 kg	51 kg
Quantity (per track)	1	1

Drive sprocket

Weight	54,50 kg	54,50 kg
Number of teeth (per sprocket)	23	23



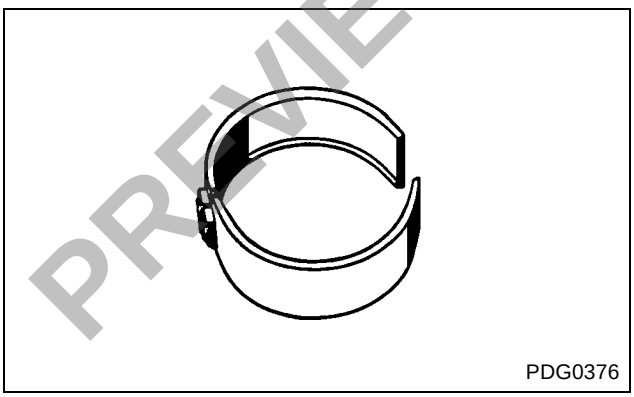
Original dimensions

A	658,5 mm	658,5 mm
B	582,5 mm	582,5 mm
C	72°	72°
D	19 mm	19 mm
E	320 mm	320 mm
F	60 mm	60 mm

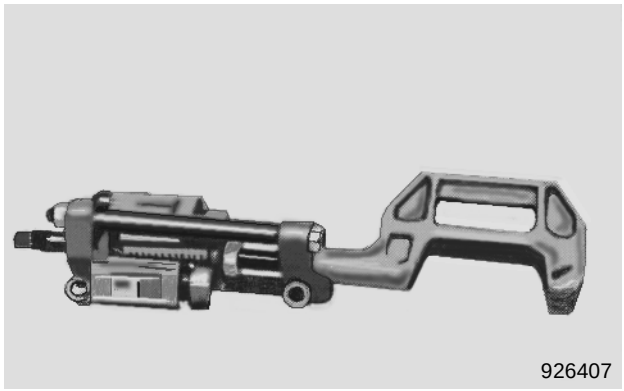
SPECIAL TORQUES

Track pad retaining screws	350 to 390 Nm
Upper roller retaining screws	650 Nm
Lower roller retaining screws	280 Nm
Drive sprocket retaining screws	280 Nm
Grease fitting adaptor on tension cylinder	100 Nm
Grease fitting on tension cylinder	10 Nm

SPECIAL TOOLS



1. Seal installer CAS 1284



2. Track removal press CAS 10044

WORKSHOP TOOLS

1 Torque wrench OEM 6474 et OEM 6476

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GENERAL MACHINE SPECIFICATIONS

Engine

(788 and 788 "Plus")

	788	788 "Plus"
Make and type	CASE 4T 390	CASE 4TA 390
4 stroke, 4 cylinder	turbo-charged diesel	
Capacity	3920 cm^3	
Bore	102 mm	
Stroke	120 mm	
Cooling	water-cooled	
Staring: 2 x 12 volt batteries, 24 V	120 A/h	

Working specifications

Engine speed		2000 rpm	
Horsepower:	SAE J1995	68.6 kW (93 hp)	81 kW (110 hp)
	DIN 70020 - DIN 6271	65 kW (88 hp)	76 kW (103 hp)
	EEC 80/1269 - ISO 9249	65 kW (88 hp)	76 kW (103 hp)

Specifications maintained up to an altitude of 3000 m at a temperature of 25°C.

Capacities:	Engine oil sump	10 L	
	Fuel tank	249 L	
Electric fuel filler pump		optional equipment	
Average consumption per hour	10 L/h		14.5 L/h

Engine and pump assembly mounted on rubber blocks.
Heavy-duty dust filtration.

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