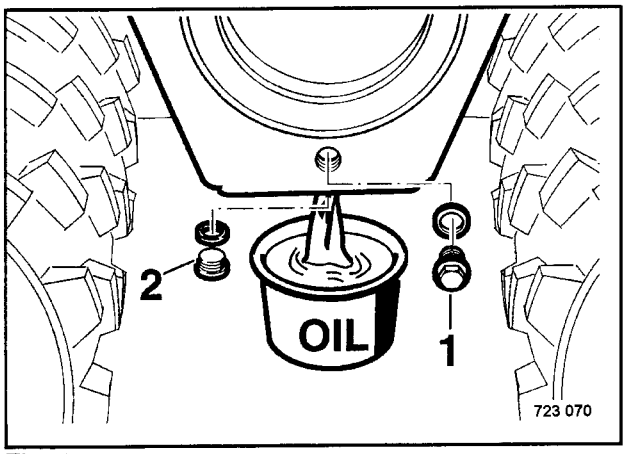


Fig. 1

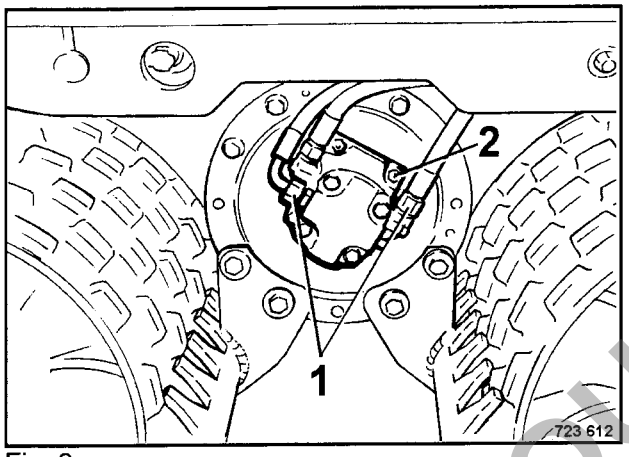


Fig. 2

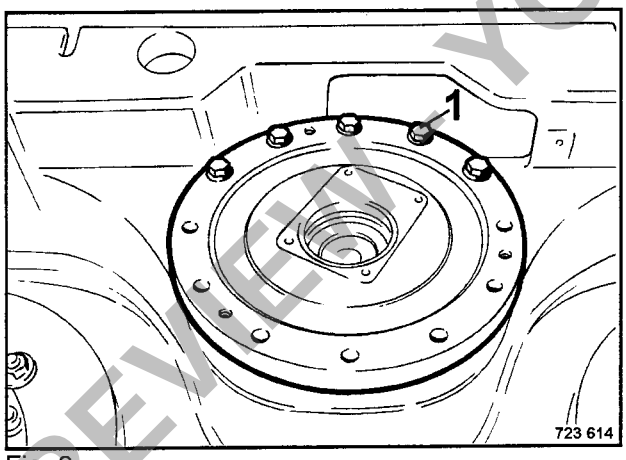


Fig. 3

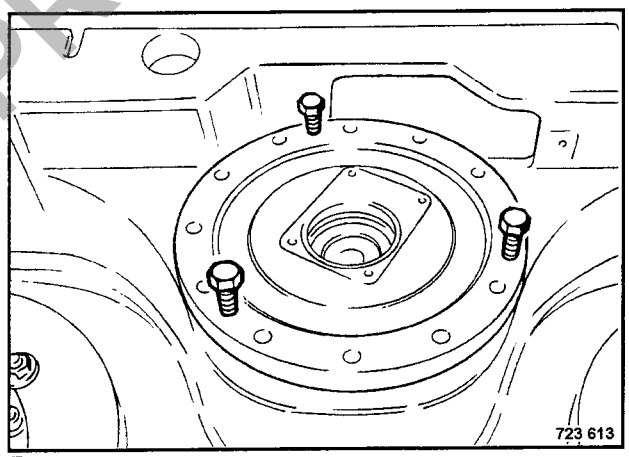


Fig. 4

4.02 Repairing the vibrator unit

Environment

Catch running out oil and dispose of environmentally.

Disassembly

1. Unscrew the drain plugs 2 (Fig. 1) and the oil filler and level control plug (1), catch running out oil.

2. Disconnect the hydraulic hoses 1 (Fig. 2) from the vibration motor and close the openings with suitable plugs.

3. Unscrew the fastening screws (2) for the vibration motor and take the motor off.

4. Unscrew the fastening screws 1 (Fig. 3).

5. Force the flange off with the help of forcing screws (Fig. 4).

Danger

Danger of squashing!

6. Pull the vibrator shaft out of the housing.

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Torques for bolts with metric unified threads

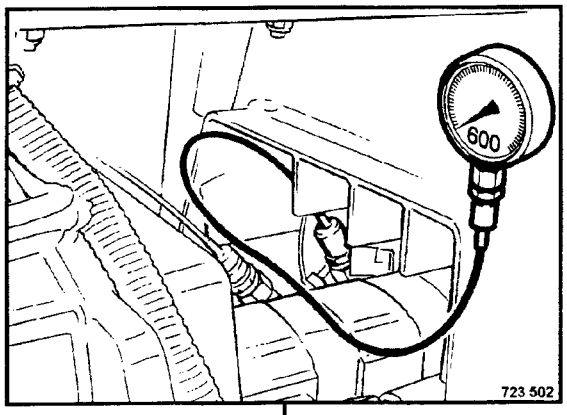
Dimension of bolt	Torques Nm* (ft-lb)		
	8.8	10.9	12.9

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Drive only on right hand side, both travel directions
(machine drives to the left)



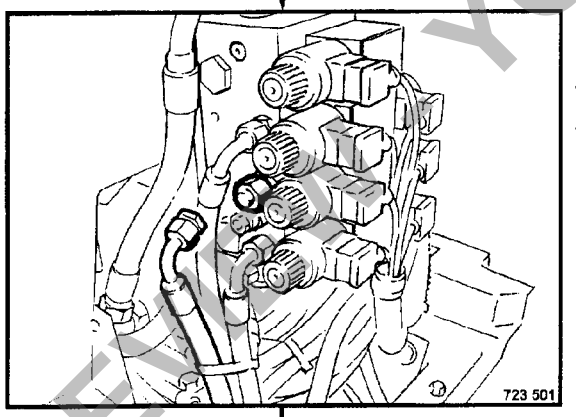
Check high pressure

- Install a 600 bar pressure gauge to the pressure test port on pump 2
- Block the drums with wedges
- Start the engine and run it with max. speed
- Actuate the left hand travel lever quickly and read the pressure gauge

Nominal value:
High pressure approx. 250 bar

High pressure OK? — yes → Drive blocked, Check the mobility of drums and motors on the left hand side

no



- Disconnect the hose from port B5.2 and close the openings with plugs
- Start the engine and run it with max. speed
- Shift the left hand travel lever to direction forward and read the pressure gauge

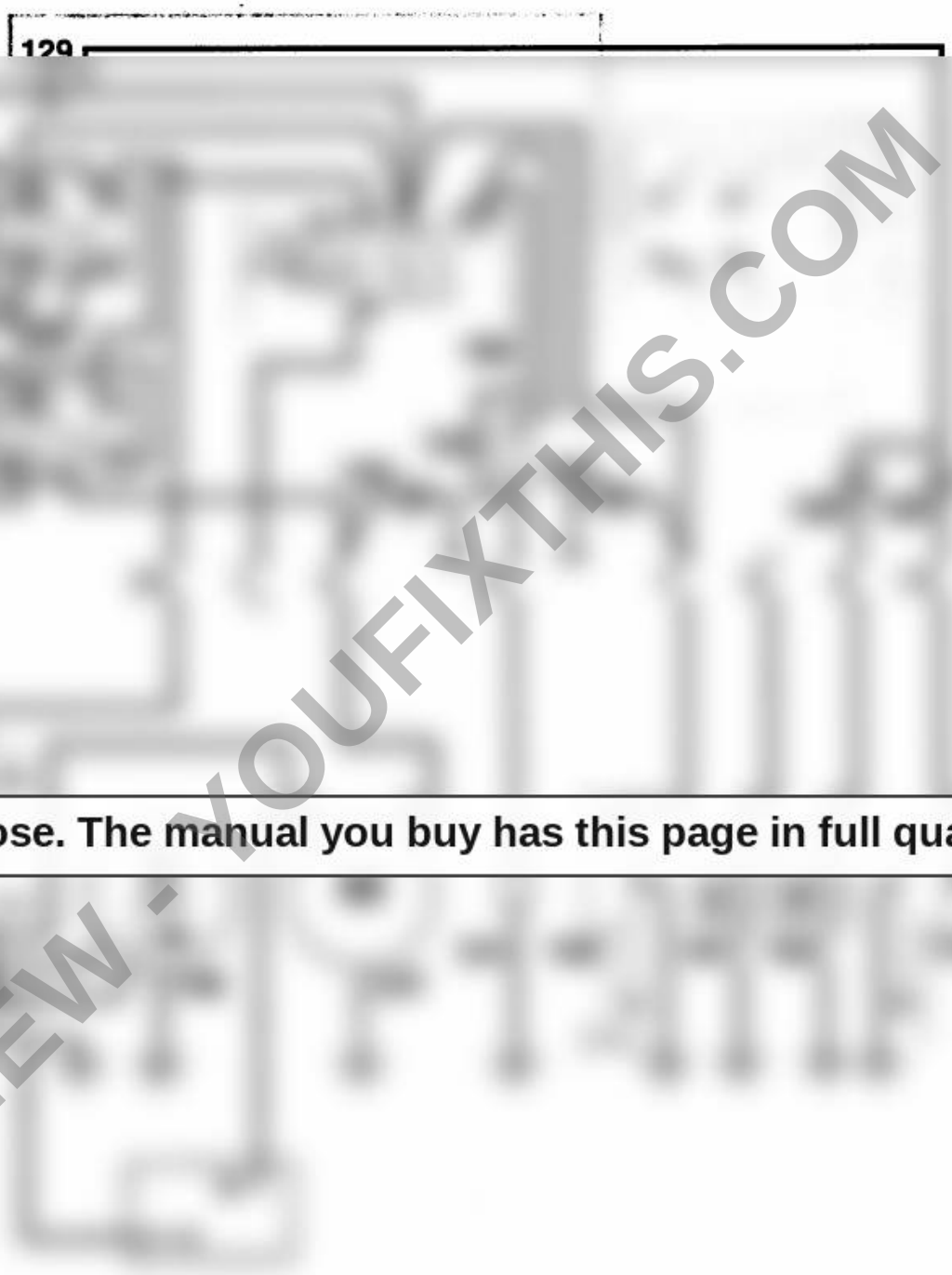
High pressure OK? — yes → Repair the travel motors on the left hand side

no

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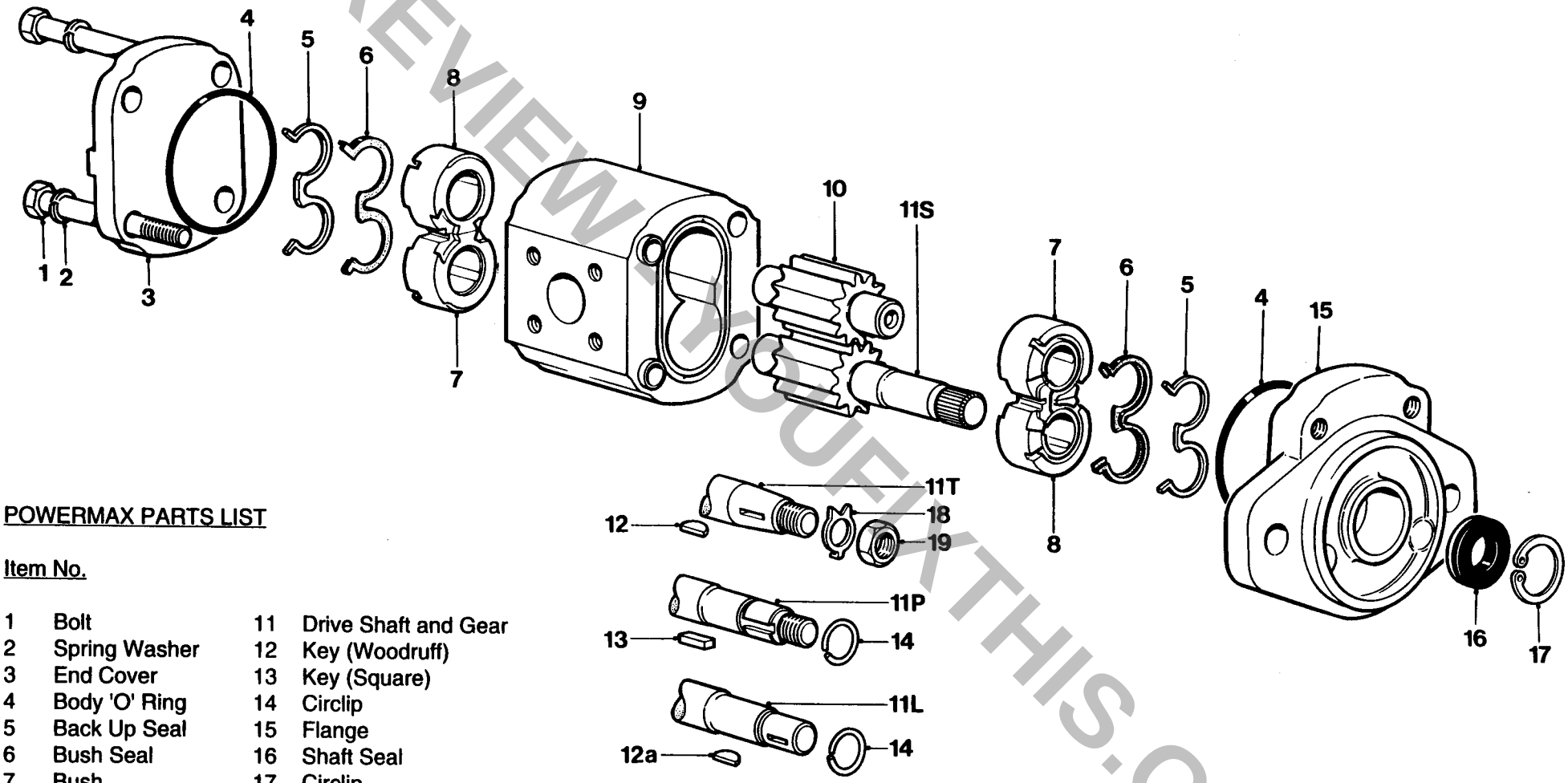
Electric equipment with optical malfunction indicator 10.1.



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POWERMAX PARTS LIST

Item No.

1	Bolt	11	Drive Shaft and Gear
2	Spring Washer	12	Key (Woodruff)
3	End Cover	13	Key (Square)
4	Body 'O' Ring	14	Circlip
5	Back Up Seal	15	Flange
6	Bush Seal	16	Shaft Seal
7	Bush	17	Circlip
8	Bush	18	Tab Washer
9	Body	19	Locknut
10	Drive Gear		

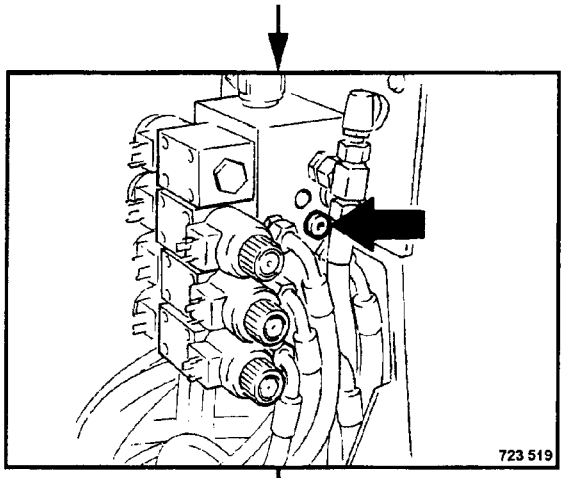
ROTATION SHOWN ANTICLOCKWISE

Fig 1 TYPICAL POWERMAX PUMP ASSEMBLY

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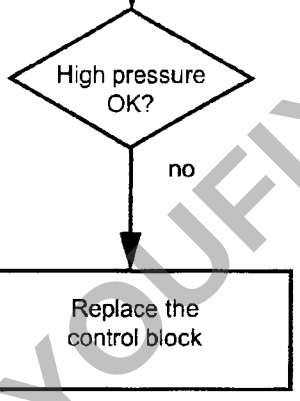
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Check the shuttle valve

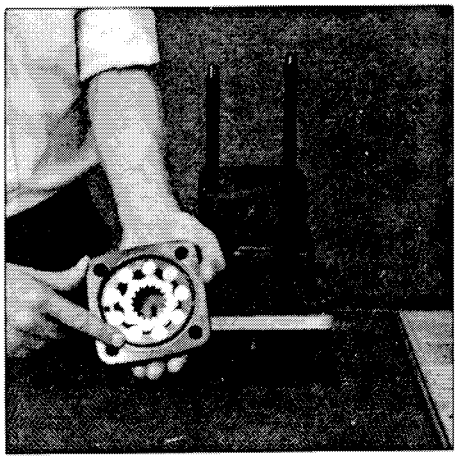
- Unscrew the shuttle valve, clean it and check the O-ring for damage
- Repeat the pressure test



Replace the control block

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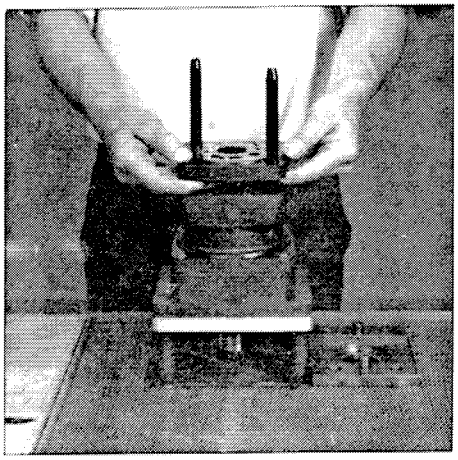


32 Læg en o-ring i tandkransen (indfedtet i vaseline).

Lay an o-ring in the gearwheel rim (greased in vaseline).

Einen O-Ring in den Zahnkranz legen (einfetten mit Vaseline).

Mettre un joint torique enduit de vaseline dans la couronne dentée.

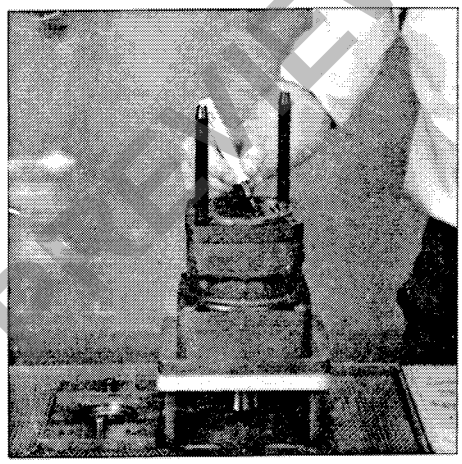


33 Læg forsigtig tandhjulssættet på mellempladen. Hold en hånd under så rotor og ruller ikke glider ud under monteringen.

Carefully place the gearwheel set on the intermediate plate. Hold one hand underneath so that rotor and rollers do not slide out during assembly.

Zahnradsatz vorsichtig auf die Zwischenplatte legen. Eine Hand darunterhalten, damit Rotor und Rollen bei der Montage nicht herausgleiten.

Placer avec précaution le jeu d'engrenage sur la plaque intermédiaire. Placer la main en dessous de sorte que le rotor et les galets ne sortent pas en glissant pendant le montage.



34 Marker på tandhjulssættets rotor det sted hvor en tandtop i splines er ud for en tandbund i rotorens ydre fortanding.

Mark the gearwheel set rotor at the point where the top of a spline tooth is opposite the bottom of a tooth in the external rotor teeth.

Auf dem Rotor des Zahnradsatzes die Stelle markieren, an der ein Zahnscheitel der Vielkeile einem Zahngrund der äusseren Verzahnung des Rotors gegenübersteht.

Marquer, sur le rotor du jeu d'engrenage, l'endroit où un crête de dent des cannelures est en face d'un creux de dent de la dentures extérieure du rotor.

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Foreword

This Repair Manual covers latest technical developments acc. to month/year indicated on each page. It has been written in such a way, or respectively contains all dismantling and assembly instructions in accordance with the table of contents, including all required data etc., so as to permit a trained mechanic to carry out correct and professional repairs. We have not included information such as cleaning arts and replacing seals etc. since it is assumed, of course, that the mechanic will be aware of necessity of carrying out such work.
Use only the tools prescribed or absolutely identical tools when carrying out work of whatever nature.

It has been assumed that a standard set of workshop tools is available.

Please refer to the instruction book for maintenance work, operating materials and fault-finding information.

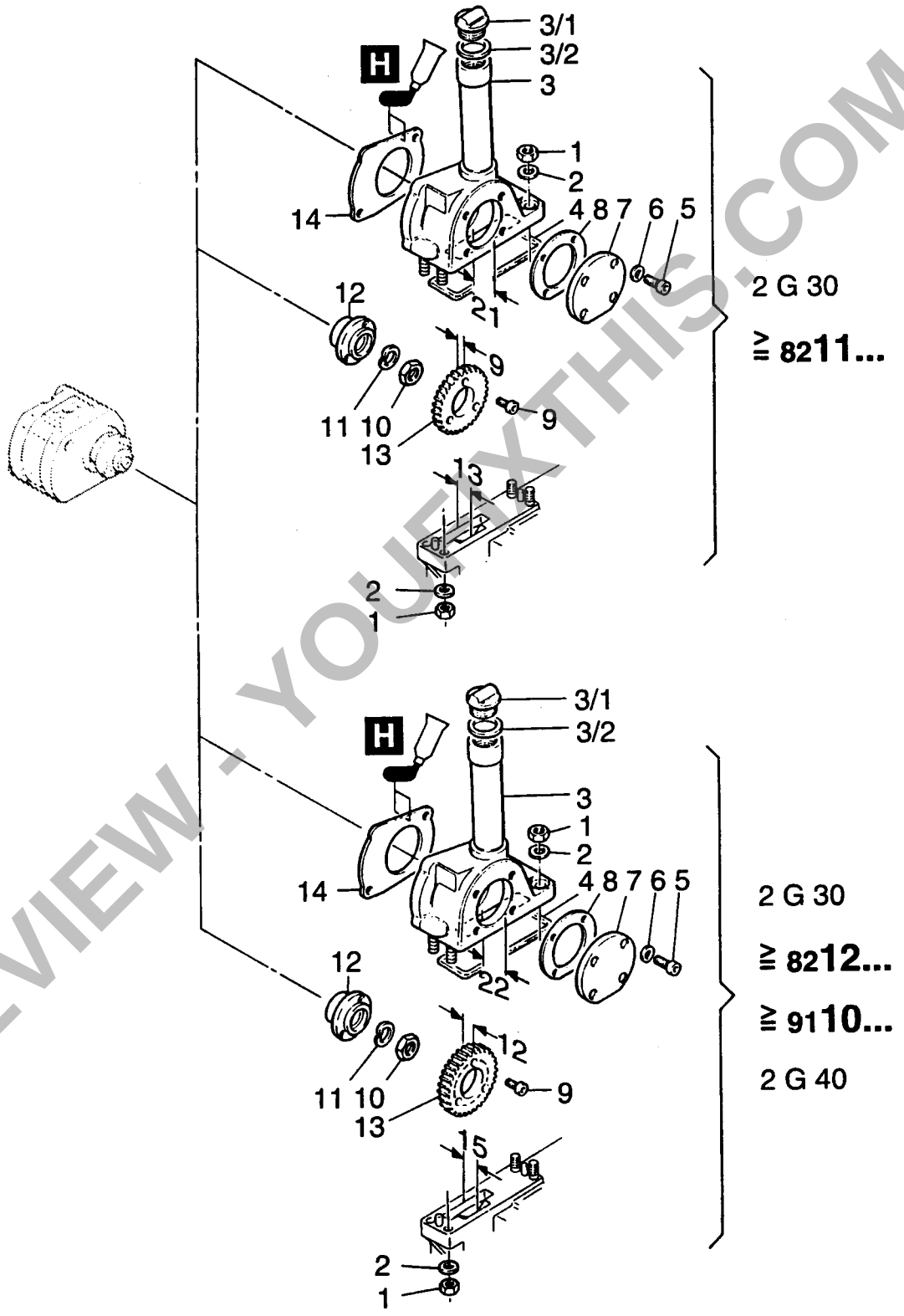
Use only original HATZ spare parts for repairs!
Only these parts guarantee perfect dimensional accuracy and quality.
For the rest, please observe the general legal regulations and the regulations of the responsible professional associations.

Discrepancies may occur between the described features and actual features owing to special equipment, and it has not been possible to allow for such discrepancies either in the Repair Manual or in the spare parts list.
Should you have any difficulties, please contact your nearest HATZ service agent.

HATZ DIESEL SERVICE

Modifications, which serve the technical improvements, are reserved.

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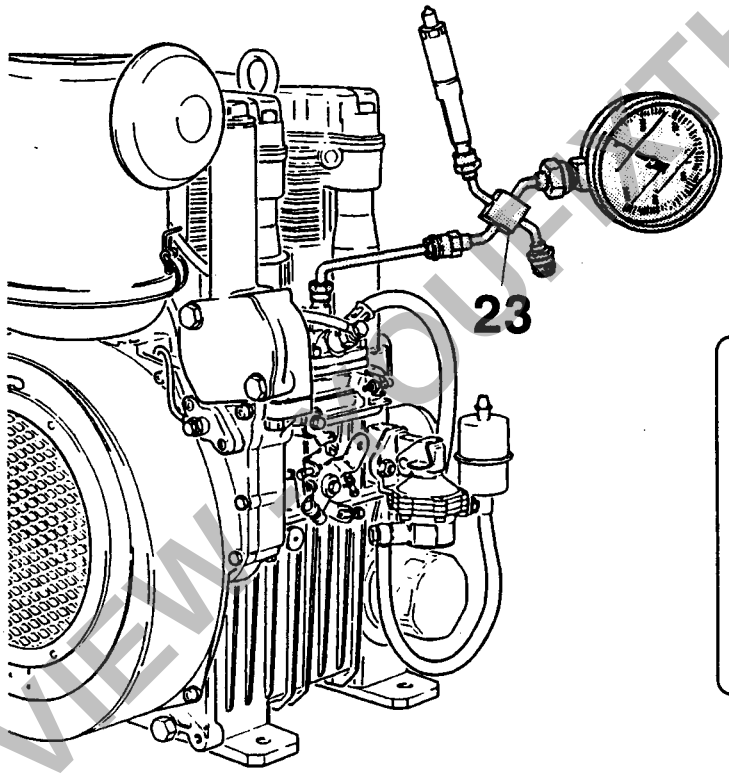
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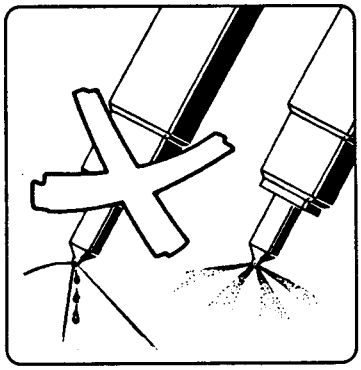
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4. Components repair work

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