Hydraulic Symbols Hydrauliksymbole

No. Nr.	Symbol	Description	Benennung
1	———————	Flow line	Arbeitsleitung

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01.11.1 Technical Data

		BW 142	BW 142 D	BW 142 PD	BW 142 PDB
Weights					
Net weight	kg	4400	4515	4915	5340

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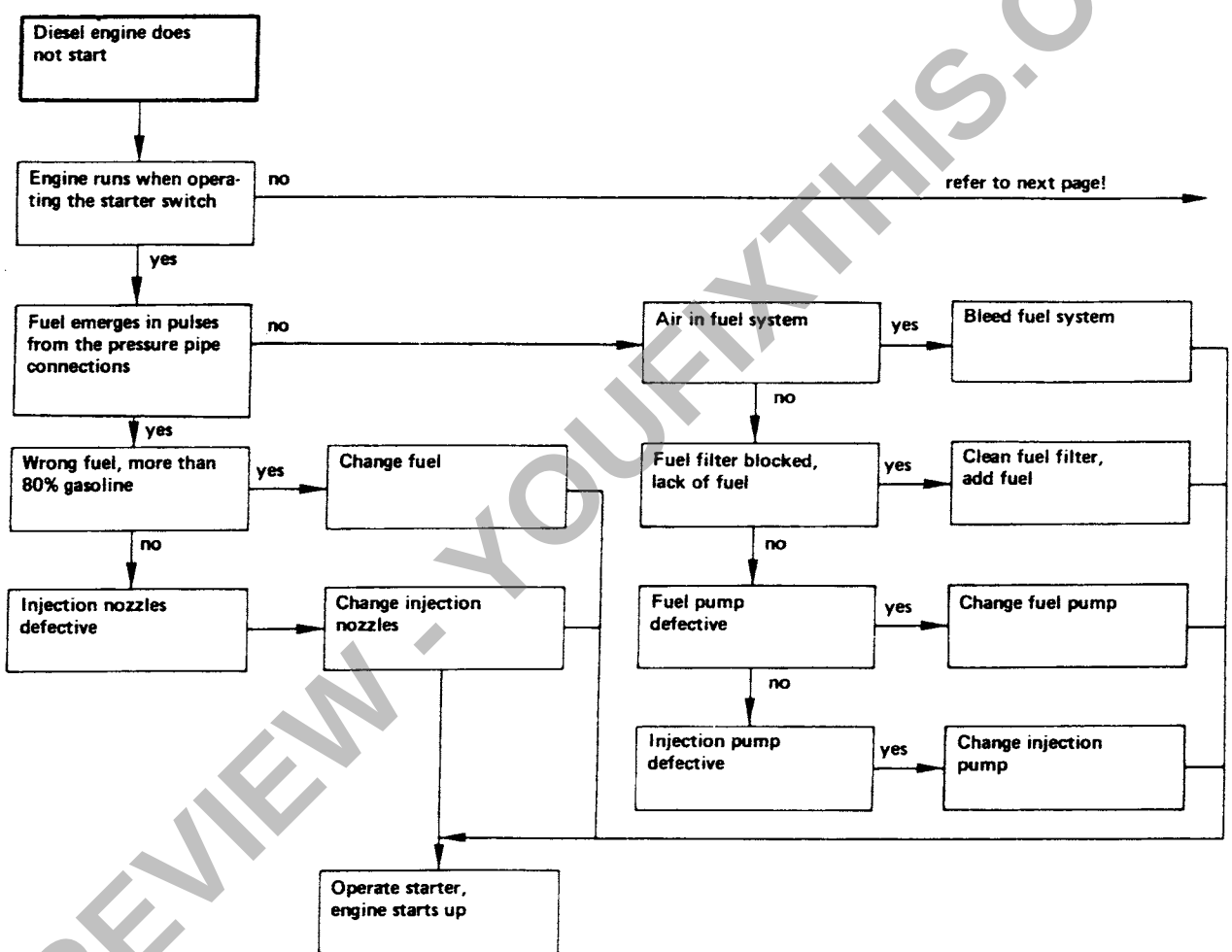
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02.31.1 Trouble Shooting for Diesel Engine

Trouble, Cause and Remedy

When trouble occurs with the engine, it is frequently due to incorrect operation and maintenance.

You should therefore thoroughly reread the few sections about correct operation and maintenance when a fault occurs.



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02.53.1 Motor aus- und einbauen

1. Plus- und Minusleitung von den Batteriepolen abbauen.

> Einbauhinweis:
> Motor fahrbereit machen, siehe Kapitel 02.53.2.

2. Batterierahmen (Fig.1/1) abbauen und Batterie (Fig.1/2) herausheben.

3. Splint herausziehen und Gasfeder (Fig.2) vom unteren Bolzen abziehen.

4. Befestigungsschrauben (Fig. 3/1) der rechten Motorhaube (Fig.3/2) herausschrauben, rechte und linke Motorhaube zusammen abheben.

5. Schlauchschelle (Fig.4/1) vom Luftfilterschlauch (Fig. 4/2) abbauen.

02.53.1 Montage et démontage du moteur

1. Déconnecter les câbles positif et négatif des pôles de la batterie.

> Remarque relative au montage:
> Le moteur doit être prêt à marcher, cf. chapitre 02.53.2.

2. Démonter le logement de la batterie (Fig.1/1) et sortir la batterie (Fig.1/2).

3. Retirer la goupille et retirer l'amortisseur à gaz (Fig.2) du boulon inférieur.

4. Dévisser les vis de fixation (Fig.3/1) du capot droit du moteur (Fig.3/2). Retirer ensemble les parties gauche et droite du capot du moteur.

5. Démonter le collier (Fig.4/1) du flexible du filtre à air (Fig.4/2).

02.53.1 Motor, desmontaje y montaje

1. Desmontar los cables positivo y negativo de los polos de la batería.

> Instrucción de montaje:
> Preparar el motor para funcionar, véase capítulo 02.53.2.

2. Desmontar el soporte de la batería (fig.1/1) y extraer la batería (fig.1/2).

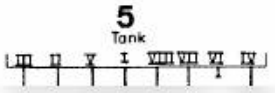
3. Extraer el pasador y soltar el perno inferior el amortiguador a gas (fig.2).

4. Desatornillar los tornillos de fijación (fig.3/1) del capó derecho del motor (fig.3/2); levantar conjuntamente los capós derecho e izquierdo del motor.

5. Desmontar la abrazadera (fig.4/1) de la magueta del filtro del aire (fig.4/2).

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SAFETY

- Do not stand in vicinity of articulated joints.
- Only drive machine if you have familiarized yourself with the operating and control elements, as well as the machine's method of operation.
- Use your protective clothing, e.g. safety helmet, safety shoes, protective gloves and ear protection.
- Note where the fire extinguisher and the First Aid Box are located and how to use them.
- Park the machine on firm level ground for maintenance work.
- If a machine is defective, hang a warning sign on the steering wheel.
- Wipe overflown fuel and oils off thoroughly.
- Catch oils and fuels in a way safe for the environment.
  Do not let oils and fuels seep into the ground.
- Do not smoke when filling the tanks or when checking the electrolyte level of the battery.
- Never check the electrolyte level of the battery, the coolant and fuel levels with an open flame.
- Use cleaning fluids with caution. Never use gasoline for cleaning purposes.

SICHERHEIT

- Fahren Sie die Maschine nur, wenn Sie sich völlig mit den Bedien- und Steuerelementen, sowie der Arbeitsweise der Maschine vertraut gemacht haben.
- Benutzen Sie ihre Schutzkleidung wie Schutzhelm, Sicherheitsschuhe, Schutzhandschuhe und Gehörschutz.
- Merken Sie sich, wo Feuerlöscher und Erste Hilfe Kasten untergebracht sind und wie man sie gebraucht.
- Bei laufendem Motor nicht im Knickbereich der Maschine aufhalten.
- Zur Instandhaltung die Maschine auf ebenem festem Grund abstellen.
- Hängen Sie bei einer defekten Maschine ein Warnschild an das Lenkrad.
- Wischen Sie übergelaufenen Kraftstoff und Öl gründlich ab.
- Fangen Sie Öl und Kraftstoff umweltfreundlich auf, lassen Sie Öl und Kraftstoffe nicht im Boden versickern.
- Rauchen Sie nicht beim Betanken oder wenn Sie den Säurestand der Batterie prüfen.
- Prüfen Sie den Säurestand der Batterie, den Kühlflüssigkeitsstand und den Kraftstoffstand niemals mit einer offenen Flamme.
- Vorsicht bei Reinigungsmitteln, Benzin darf niemals zur Reinigung verwendet werden.

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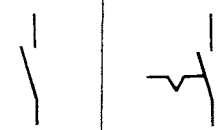
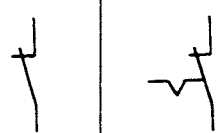
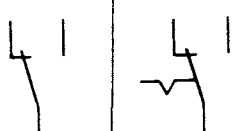
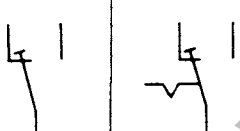
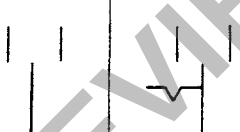
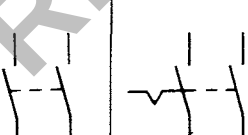
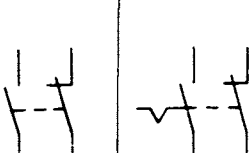
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Symboles électriques Simbolos eléctricos

No. No.	Symbole Simbolo	Désignation	Descripción
		Symboles graphique élémentaires retour automatique commandé	Signo de conexión básico retroceso automático no automático
42		Contacteur élément de contact	Contacto de trabajo elemento de conexión
43		Rupteur élément d'interruption	Contacto de trabajo elemento de desconexión
		Symboles graphiques élémentaires automatiques commandés	Signo de conexión básico automático no automático
44		Changeur, élément inverseur avec interruption	Contacto intermitente, elemento de conmutación con interrupción
45		Sans interruption	Sin interrupción
46		Contacteur biphasé	Contacto de trabajo de dos pasos
47		Contacteur bi-pôles	Contacto de trabajo bipolar
48		Contacteur-rupteur	Contacto de trabajo - contacto de reposo

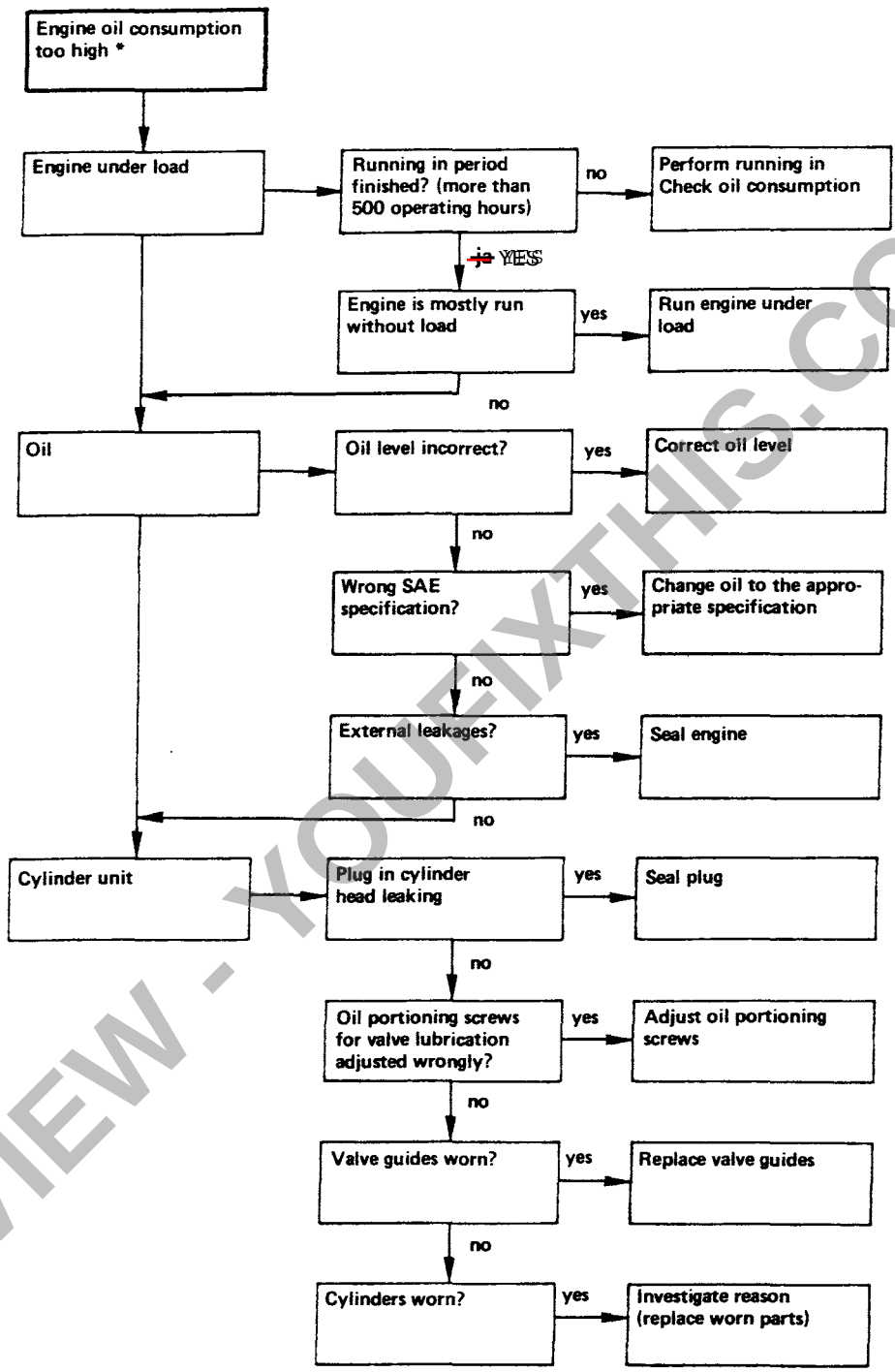
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		BW 172	BW 172 D	BW 172 PD	BW 172 PDB
Rodillos					
Anchura de rodillos	mm	1682	1682	1682	1682
Diámetro de rodillos	mm	1208	1208	1194	1194
Frenos					
Freno de servicio		Hidrost.	Hidrost.	Hidrost.	Hidrost.
Freno de estacionamiento ...		Mecánico	Mecánico	Mecánico	Mecánico
Dirección					
Tipo de dirección		Articul.	Articul.	Articul.	Articul.
Accionamineto de la dirección		Hidrost.	Hidrost.	Hidrost.	Hidrost.
Vibración					
Rodillo vibrador		Delant.	Delant.	Delant.	Delant.
Tipo de accionamiento		Hidrost.	Hidrost.	Hidrost.	Hidrost.
Frecuencia 1 ó min	Hz	32	32	32	32
Amplitud 1	mm	1,45	1,45	1,28	1,28

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* Oil consumption max. 1% of fuel consumption

$$\text{Oil consumption in \%} = \frac{\text{added oil} \times 100}{\text{added fuel}}$$

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02.53.1 Disassembling and Installing the Engine

1. Detach the positive and negative leads from the battery poles.

> Note for Installation:
> Prepare engine for travel, see Section 02.53.3.

2. Detach battery frame (Fig.1/1) and remove battery (Fig.1/2).

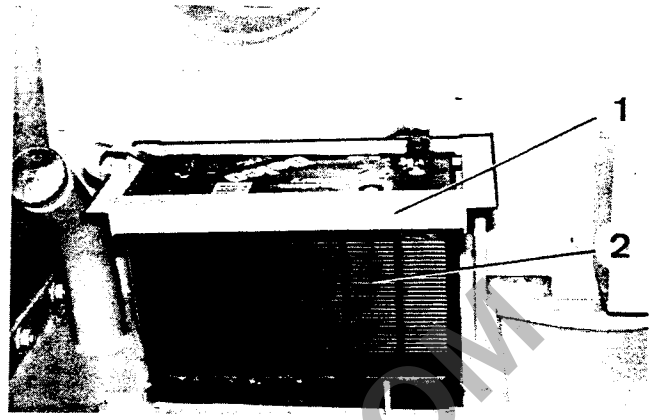
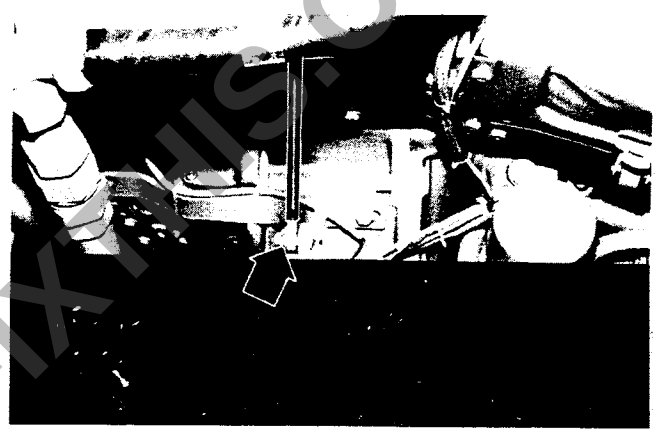


Fig.1

3. Pull out cotter pin and remove shock absorber (Fig.2) from lower gudgeon.


Fig.2

4. Unscrew mounting screws (Fig.3/1) of right-hand engine hood (Fig.3/2) and lift off the latter together with left-hand engine hood.

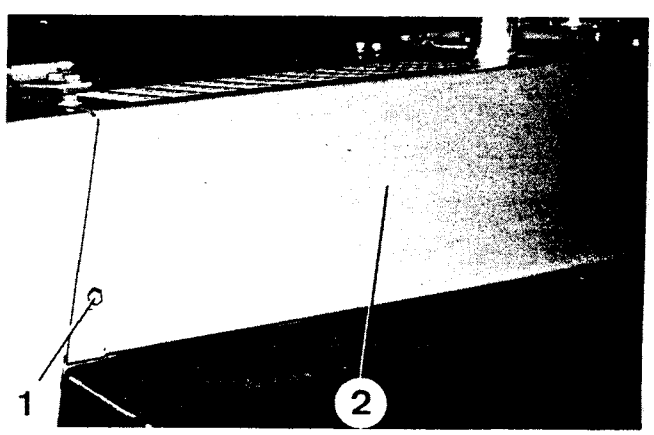


Fig.3

5. Detach clip (Fig.4/1) from air filter hose (Fig.4/2).

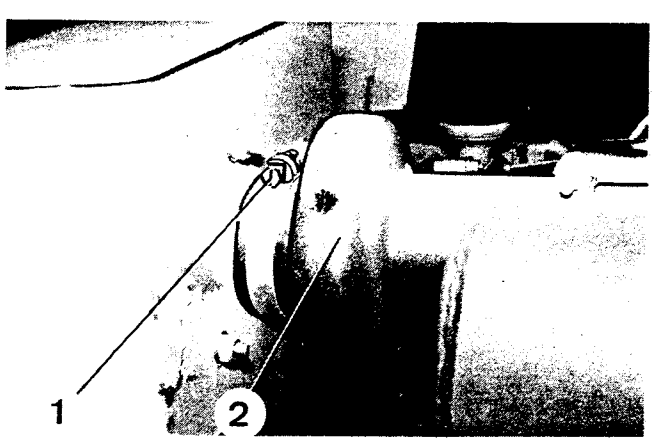


Fig.4

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03.01.2 Sonderwerkzeug Achse instand setzen

Lfd. Nr.	Bezeichnung	Verwendungszweck	ZF-Sach-Nr.
1	Druckstück	zum Abziehen des Hohlrads der Nabe und des Kegelrollenlager-innenrings von der Achsbrücke	5870 100 019
2	Greifstück "Super" in Verbindung mit Nr.1	zum Abziehen des Kegelrollenlager-innenrings von der Achsbrücke	5870 027 005
3	Greifstück "Super" in Verbindung mit Nr.4, 5 und 6	zum Abziehen des Kegelrollenlager-innenrings vom Differentialkorb	5870 026 021
4	- Grundgerät		5870 026 000
5	- Buchse kurz		5870 026 016
6	- Druckstück		5870 506 064
7	Abzieher	zum Ausdrücken des Kegelritzels aus der Achsbrücke	5870 000 017
8	Greifstück "Super" in Verbindung mit Nr.4	zum Abziehen des Kegelrollenlager-innenrings vom Antriebsritzel	5870 026 015
9	Meßzylinder	zum Ausmessen des Achsgehäuses - Einstellen der Antriebsritzellagerung	5870 200 037
10	Montagevorrichtung	zum Einziehen des Kegelrollenlager-außenrings in die innere Bohrung der Antriebsritzellagerung	5870 345 045
11	Meßring	zum Ausmessen der Kegelritzel-lagerung	5870 340 023
12	Aufspanngabel	zum Arretieren des Antriebsflan-sches beim Lösen bzw. Festdrehen der Antriebsritzelverschraubung	5870 240 025
13	Kerbring	zum Aufpressen des Sicherungs-blechs auf die Differentialver-schraubung	5870 310 006
14	Meßdeckel	zum Ausmessen der Einstellscheibe für Differentialkorb-Tellerrad	5870 200 034

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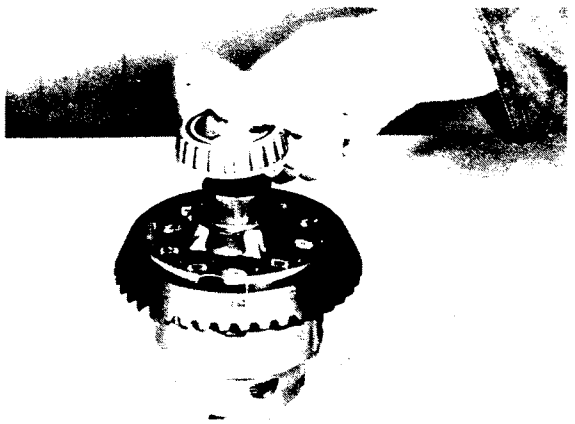


Fig.92

106. Heat both bearings to approx. 90°C and bring into contact with differential housing/bevel wheel (Fig.92).

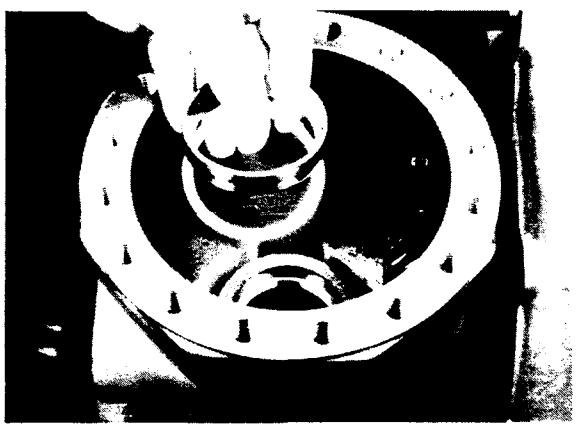


Fig.93

Determination of tooth backlash and bearing pretension at differential:

107. Insert shim (basic dimension 1.2 mm thick) in axle housing I (Fig.93) and apply final knock to outer bearing race.

108. Insert differential assembly into axle housing I.



Fig.94

109. Insert outer bearing race of differential bearing (bevel-wheel side) into measuring cover (No.14) and secure with Allen screws (Fig.94).

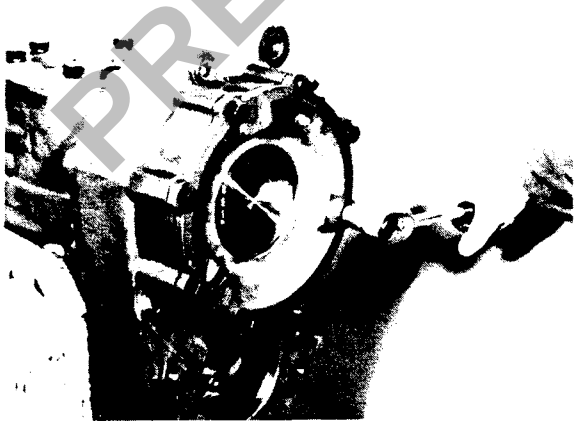


Fig.95

110. Subsequent adjustment of the differential bearings is made easier if the Belleville springs are pretensioned by loosening the Allen screws (Fig.95).

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04.51.2 Fahrmotor wechseln

1. Überwurfmutter (Fig.1/3) des Hydraulikölschlauchs vom Anschluß abschrauben, Anschluß und Hydraulikölschlauch sofort mit Stopfen verschließen.

Einbauhinweis:
Ölstand im Hydraulikölbehälter prüfen, ggf. Öl nachfüllen.

2. Alle Befestigungsschrauben (Fig.1/1) der Halbschalen (Fig.1/2) herausschrauben, Halbschalen und Hydraulikölschläuche abnehmen.

Einbauhinweis:
In die Nuten der Hydraulikölschläuche neue O-Ringe (Fig.2) einlegen.

3. Alle Befestigungsmuttern (Fig.3/1) des Zwischenflansches (Fig.3/2) abschrauben, Fahrmotor von der Antriebsachse abziehen.

4. O-Ring aus der Nut des Zwischenflansches herausschrauben (Fig.4).

Einbauhinweis:
Neuen O-Ring verwenden.

04.51.2 Changement du moteur de traction

1. Dévisser le contre-écrou (Fig.1/3) du flexible d'huile hydraulique de la connexion. Boucher immédiatement la connexion et le flexible d'huile hydraulique avec des capuchons.

Remarque relative au montage:
Vérifier le niveau d'huile dans le réservoir d'huile hydraulique. Le cas échéant rajouter de l'huile.

2. Dévisser toutes les vis de fixation (Fig.1/1) des demi coquilles (Fig.1/2). Retirer les demi coquilles et les flexibles d'huile hydraulique.

Remarque relative au montage:
Monter des nouveaux joints torique dans les rainures des flexibles d'huile hydraulique (Fig.2).

3. Dévisser tous les écrous de fixation (Fig.3/1) de la bride intermédiaire (Fig.3/2). Retirer le moteur de traction de l'axe.

4. Dévisser le joint torique de la rainure de la bride intermédiaire (Fig.4).

Remarque relative au montage:
Monter un nouveau joint torique.

04.51.2 Motor de traslación, cambiar

1. Desenroscar de la conexión la tuerca de racor (fig.1/3) del tubo flexible de aceite hidráulico, tapar inmediatamente con un tapón de goma la conexión y el tubo flexible de aceite hidráulico.

Instrucción de montaje:
Comprobar el nivel de aceite en el depósito de aceite hidráulico y, de ser preciso, rellenar aceite.

2. Desenroscar todos los tornillos de fijación (fig.1/1) de los semicasquillos (fig.1/2), quitar los semicasquillos y los tubos flexibles de aceite hidráulico.

Instrucción de montaje:
Colocar nuevos anillos obturadores (fig.2) en las ranuras de los tubos flexibles de aceite hidráulico.

3. Desenroscar todas las tuercas de fijación (fig.3/1) de la brida intermedia (fig. 3/2), separar el motor de traslación del árbol motor.

4. Desenroscar el anillo obturador de la ranura de la brida intermedia (fig.4).

Instrucción de montaje:
Utilizar un nuevo anillo obturador.

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- Axiales Kolbenspiel (Fig. 21/1).
- Bundhöhe (Fig.21/2).

- Jeu axial de piston (Fig. 21/1).
- Hauteur du collet (Fig.21/2).

- Juego axial del pistón (fig.21/1).
- Altura del collar (fig.21/2).

11. Kolben

- Muß riefenfrei sein und darf keine Grübchenbildungen aufweisen (Fig.22).

HINWEIS

Kolben nicht ausbauen, sondern nur schräg stellen.

11. Piston

- Absence de rayures et de dépots (Fig.22).

REMARQUE

Ne pas démonter le piston. L'amener seulement en position inclinée.

11. Pistón

- Debe estar libre de estrías y no presentar picadura (fig.22).

NOTA

No desmontar el pistón, sino unicamente inclinarlo.

12. Mittelzapfen

- Muß riefenfrei sein und darf keine Grübchenbildungen aufweisen (Fig.23/1).

HINWEIS

Mittelzapfen nicht ausbauen, sondern nur schräg stellen.

- Schaft (Fig.23/2) muß riefenfrei sein.

12. Pivot moyen

- Absence de rayures et de dépots (Fig.23/1).

REMARQUE

Ne pas démonter le pivot moyen. L'amener seulement en position inclinée.

- La tige (Fig.23/2) doit être sans rayures.

12. Pivote central

- Debe estar libre de estrías y no presentar picadura (fig.23/1).

NOTA

No desmontar el pivote central, sino unicamente inclinarlo.

- El vástago (fig.23/2) debe estar libre de estrías.

13. Rückzugplatte

- Muß riefenfrei sein und keine Ausbrüche ausweisen (Fig.24).

13. Plaque de rappel

- Absence de rayures et d'enfoncements (Fig.24).

13. Placa de recuperación

- Debe estar libre de estrías y no debe presentar erupciones (fig.24).

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04.53.3 Exchanging the Radial Seals on the Travel Pump Shaft

1. Remove the travel pump and detach the coupling half from the travel pump, see Section 04.53.1.

2. Remove the circlip from the housing (Fig.1).

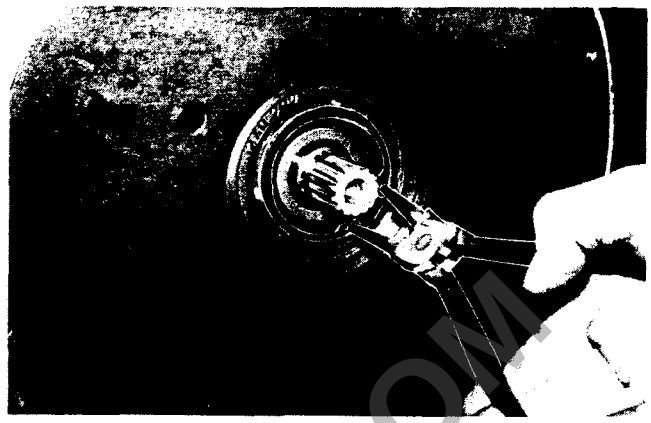


Fig.1

> Note for Installation:
>
> The whole of the circlip must lie in the groove.

3. Lever the O-ring support out of the travel pump (Fig.2).

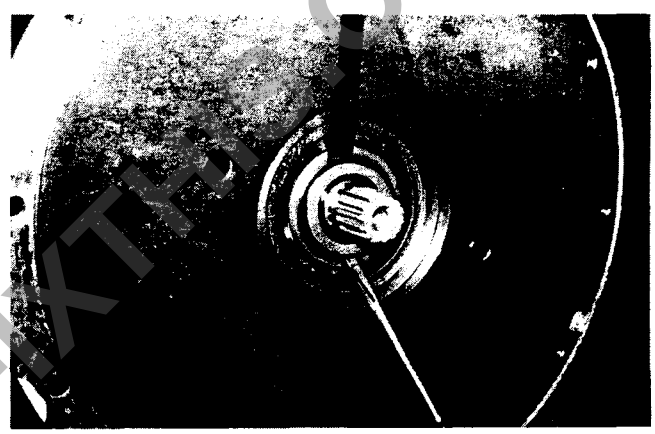


Fig.2

> Note for Installation:
>
> Insert the O-ring support so that the recesses (Fig.3/1) are located over the openings (Fig.3/2).

4. Press out the radial seal (Fig. 4/1) and remove the O-ring (Fig. 4/2).

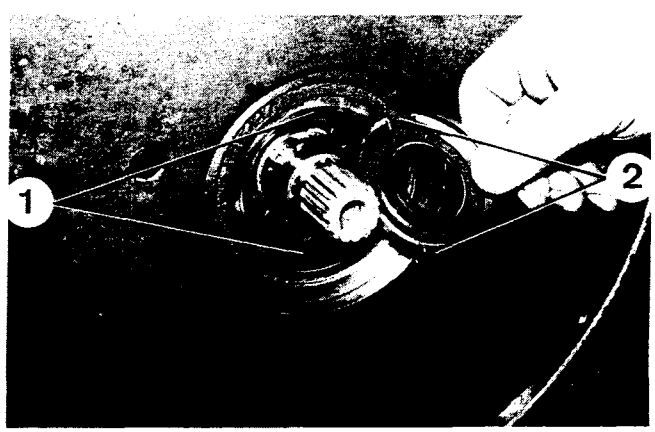


Fig.3

> Note for Installation:
>
> - Check the running surface of the radial seal on the pump shaft. If the shaft is worn in, place a thin disc between the radial seal and the O-ring support.
> - Press in a new radial seal with the inner sealing lip facing upwards until it reaches the stop.
> - Apply grease to outer sealing lip.
> - Apply grease to new O-ring and insert into groove.

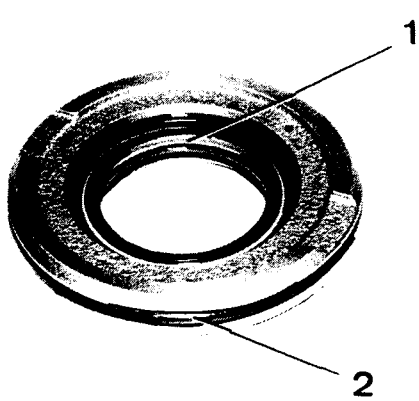


Fig.4

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04.54.11 Notes for Repair and Installation for the A4V with HW Control Unit

1. Remove the HW control unit.

CAUTION

Change the gaskets when dismantling (Fig.55).

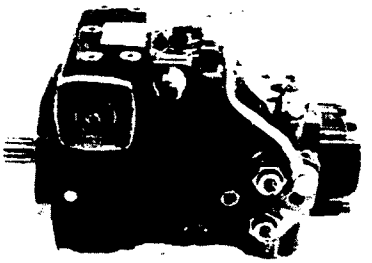


Fig.55

2. HW control unit with gasket (Fig.56).

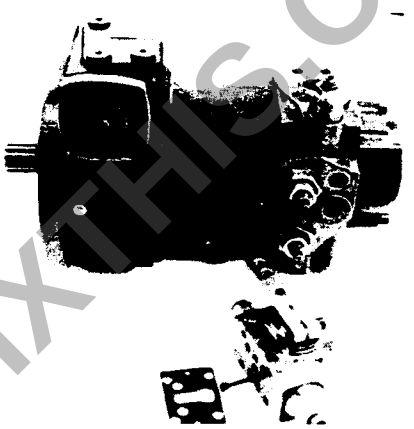


Fig.56

3. Setting the hydraulic neutral position:
Fit the high-pressure test connections with 60 bar pressure gauges and run the pump in the neutral position. Slowly turn the eccentric bolt. Both pressure gauges must show the same value. Disconnect the pressure gauges immediately after carrying out the adjustment (Fig.57).

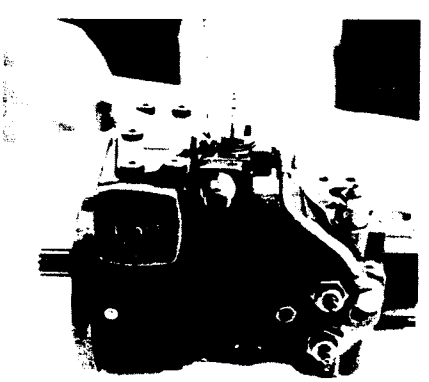


Fig.57

NOTE

The lever can be installed as desired using the clamping screw. Observe maximum lever action when installing (Fig.58).

Provide the fixed end position.

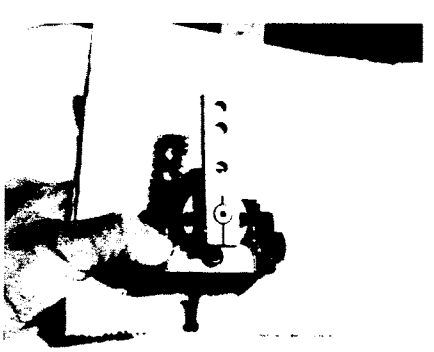


Fig.58

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05.01.1 Functional Description of Vibration Circuit

The vibration circuit is an open hydraulic circuit and consists primarily of:

- the vibration pump
- a vibration valve
- a vibration motor
- and the connection tubes.

The vibration pump draws the hydraulic oil out of the oil tank with the diesel engine running and transports it in a continuous flow to the control valve block. If the vibration is not switched on, the oil travels back directly to the tank.

If the vibration is switched on, an electromagnet closes the control valve in the vibration valve, the connection to the tank is sealed and the pressure fluid flows to the vibration motor. Located in the vibration valve is a pilot control pressure relief valve which limits the starting pressure to approx. 215 bar.

Vibration Valves

Vibration Deactivated

The pilot control valve (2) is open, the chamber under the control piston is linked to the tank via a duct.

The flow of fluid presses the control piston downwards against the spring pressure and opens the connection to the tank.

Vibration Activated

If the magnetic coil (1) is excited, the pilot control valve closes the duct to the tank.

Pressure fluid travels under the control piston via the nozzle in the piston.

The resulting hydrostatic pressure and the spring pressure result in the piston closing the opening to the tank.

The pressure fluid is fed to the vibration motor. If the pressure rises above the pressure set on the pressure relief valve (3), the chamber below the control piston is relieved to the tank.

The flow of fluid presses the control piston downwards against the spring pressure, the connection to the tank is opened and the pressure relieved to the tank until the pressure relief valve closes again.

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05.53.2 Bandage zerlegen, zusammenbauen (BW 172)

1. Bandage ausbauen, siehe Kapitel 05.51.1.
2. Bandagenmotor in Hebezeug aufnehmen.
3. Alle Befestigungsmuttern (Fig.1) an der Antriebsscheibe abschrauben und Antriebsscheibe mit angebautem Bandagenmotor abziehen.

Einbauhinweis:
Befestigungsmuttern mit 412 Nm festziehen.

4. Befestigungsmuttern (Fig. 2/2) des Lagerbocks (Fig. 2/3) von den Gummipuffern abschrauben, Lagerbock abnehmen.

Einbauhinweis:
- Der Lagerbock muß so angebaut werden, daß der schmale Steg (Fig.2/1) auf der gleichen Seite wie der Stutzen für die Leckölleitung steht.
- Befestigungsmuttern mit 412 Nm festziehen.

5. Befestigungsschrauben (Fig.3) des Flanschdeckels herausschrauben, Flanschdeckel mit angebautem Vibrationsmotor abziehen.

Einbauhinweis:
Beim Ansetzen des Flanschdeckels muß die Öffnung (Fig.4/2) im Lagerdeckel gegenüber dem Einschraubstutzen (Fig.4/1) für die Leckölleitung stehen.

05.53.2 Montage et démontage du bandage (BW 172)

1. Démonter le bandage, cf. Chapitre 05.51.1.
2. Accrocher le moteur du bandage au dispositif de levage.
3. Dévisser tous les écrous de fixation (Fig.1) du disque de commande. Retirer le disque de commande avec le moteur de bandage.

Remarque relative au montage:
Serrer les écrous de fixation avec un couple de 412 Nm.

4. Dévisser les écrous de fixation (Fig.2/2) du support de palier (Fig.2/3) des amortisseurs en caoutchouc. Retirer le support de palier.

Remarque relative au montage:
- Le support de palier doit être monté de façon à ce que la partie mince (Fig. 2/1) se trouve du même côté que la tubulure pour la conduite d'huile de fuite.
- Serrer les écrous de fixation avec un couple de 412 Nm.

5. Dévisser les vis de fixation (Fig.3) du couvercle à bride. Retirer le couvercle à bride avec le moteur de vibration bridé.

Remarque relative au montage:
Lorsque le couvercle à bride est remonté, la fente (Fig. 4/2) du palier doit être en bas et la tubulure à visser (Fig.4/1) pour la conduite d'huile de fuite doit montrer vers le haut.

05.53.2 Rodillo, desarme y ensamblaje (BW 172)

1. Desmontar el rodillo, véase capítulo 05.51.1.
2. Recepcionar en el dispositivo elevador el motor del rodillo.
3. Desenroscar todas las tuercas de fijación (fig.1) en el disco motriz y extraer el disco motriz con el motor del rodillo montado.

Instrucción de montaje:
Apretar con 412 Nm las tuercas de fijación.

4. Desenroscar las tuercas de fijación (fig.2/2) del caballete de soporte (fig.2/3) en los topes de goma, quitar el caballete de soporte.

Instrucción de montaje:
- El caballete de soporte debe montarse de tal modo que el nervio estrecho (fig.2/1) quede al mismo lado del racor para la tubería de aceite de fugas.
- Apretar con 412 Nm las tuercas de fijación.

5. Desenroscar los tornillos de fijación (fig.3) de la tapa de brida, extraer la tapa de brida con el motor de vibración montado.

Instrucción de montaje
Al colocar la tapa de brida debe quedar el orificio (fig. 4/2) en la tapa de cojinete frente al empalme roscado (fig.4/1) para la tubería de aceite de fugas.

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Steering Cylinder

Lenkzylinder

Vérin de direction

Cilindros de dirección

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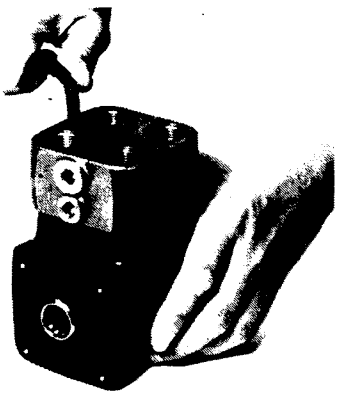


Fig.1

1. Remove the steering unit, refer to paragraph 06.55.1.

2. Unscrew the mounting screws for the valve block (Fig.1), remove the valve block.

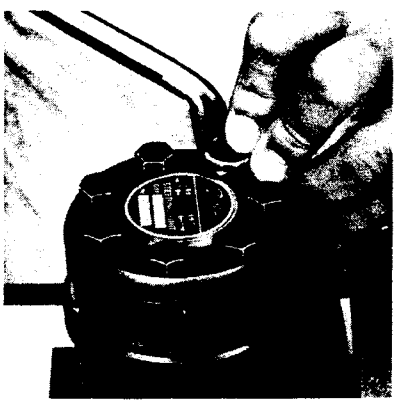


Fig.2

3. Remove the 7 bolts from the cover (Fig.2).



Fig.3

4. Slide off the cover (Fig.3).



Fig.4

5. Lift the gear wheel assembly - possibly with spacer ring - from the unit (Fig.4). Remove the two loop rings.

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7. Motor festlegen und Mutter (Fig.9) am Pumpenrad abschrauben. Motor so weit drehen, daß die Scheibenfeder in der Pumpenwelle oben steht.

7. Bloquer le moteur et dévisser l'écrou (Fig.9) de la roue de pompe. Tourner le moteur jusqu'à ce que la clavette demi-ronde de l'arbre de pompe soit en haut.

7. Fijar el motor y desenroscar la tuerca (fig.9) en la rueda de la bomba. Girar el motor de modo que la chaveta de media luna en el árbol de la bomba quede arriba.

8. Pumpenrad mit Abzieher abziehen.

Einbauhinweis:
- Vor dem Aufschieben des Pumpenrads richtigen Sitz der Scheibenfeder in der Pumpenwelle prüfen.
- Pumpenrad mit dem Bund voran einsetzen (Fig.10).

8. Chasser la roue de la pompe avec le chasse-roue.

Remarque relative au montage:
- Avant de monter la roue de la pompe, vérifier le siège correct de la clavette demi-roue sur l'arbre de pompe.
- Monter la roue de la pompe avec le collet montrant vers l'avant (Fig.10).

8. Separar con un extractor la rueda de la bomba.

Instrucción de montaje:
- Antes de calar la rueda de la bomba comprobar el asiento correcto de la chaveta de media luna en el árbol de la bomba.
- Colocar la rueda de la bomba con el collar por delante (fig.10).

9. Beide Befestigungsschrauben (Fig.11) der Lenkspeisepumpe herausschrauben und Lenkspeisepumpe herausziehen.

Einbauhinweis:
Befestigungsschrauben mit Hylomar einstreichen.

9. Dévisser les deux vis de fixation (Fig.11) de la pompe d'alimentation et de direction afin de pouvoir la retirer.

Remarque relative au montage:
Enduire les vis de fixation avec du Hylomar.

9. Desenroscar ambos tornillos de fijación (fig.11) de la bomba alimentadora de la dirección y extraer la bomba alimentadora de la dirección.

Instrucción de montaje:
Untar con Hylomar los tornillos de fijación.

10. Dichtung abziehen (Fig.12).

Einbauhinweis:
Neue Dichtung mit Dichtmittel ankleben.

10. Démonter le joint (Fig.12).

Remarque relative au montage:
Monter un nouveau joint devant être collé avec une pâte d'étanchéité.

10. Extraer la junta (fig.12).

Instrucción de montaje:
Pegar una nueva junta con producto sellador.

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