1.5 Notes on repair

1.5.1 General repair instructions

NOTICE!

Ensure strict cleanliness when performing repair work!

- No foreign objects should enter into open systems.
- Thoroughly clean the area around the affected components.
- Dry off wet locations with compressed air.

Before removing or disassembling parts, assembly groups, components or hoses mark these parts for easier assembly.

1.5.1.1 Repair notes for electrics

Electrics and welding

NOTICE!

Electrical components may get damaged by welding work!

- Always remove the main battery switch.
- Disconnect the batteries and connect negative and positive cables.
- Pull the plugs off the control units.

Always fasten the earth clamp of the welding unit in the immediate vicinity of the welding location.

When choosing the location for the earth clamp make sure that the welding current will not pass through joints or bearings.

Battery

Maintenance free batteries also need care. Maintenance free only means that the fluid level does not need to be checked.

Every battery has a self-discharge, which may, if not checked occasionally, even cause damage to the battery as a result of exhaustive discharge.

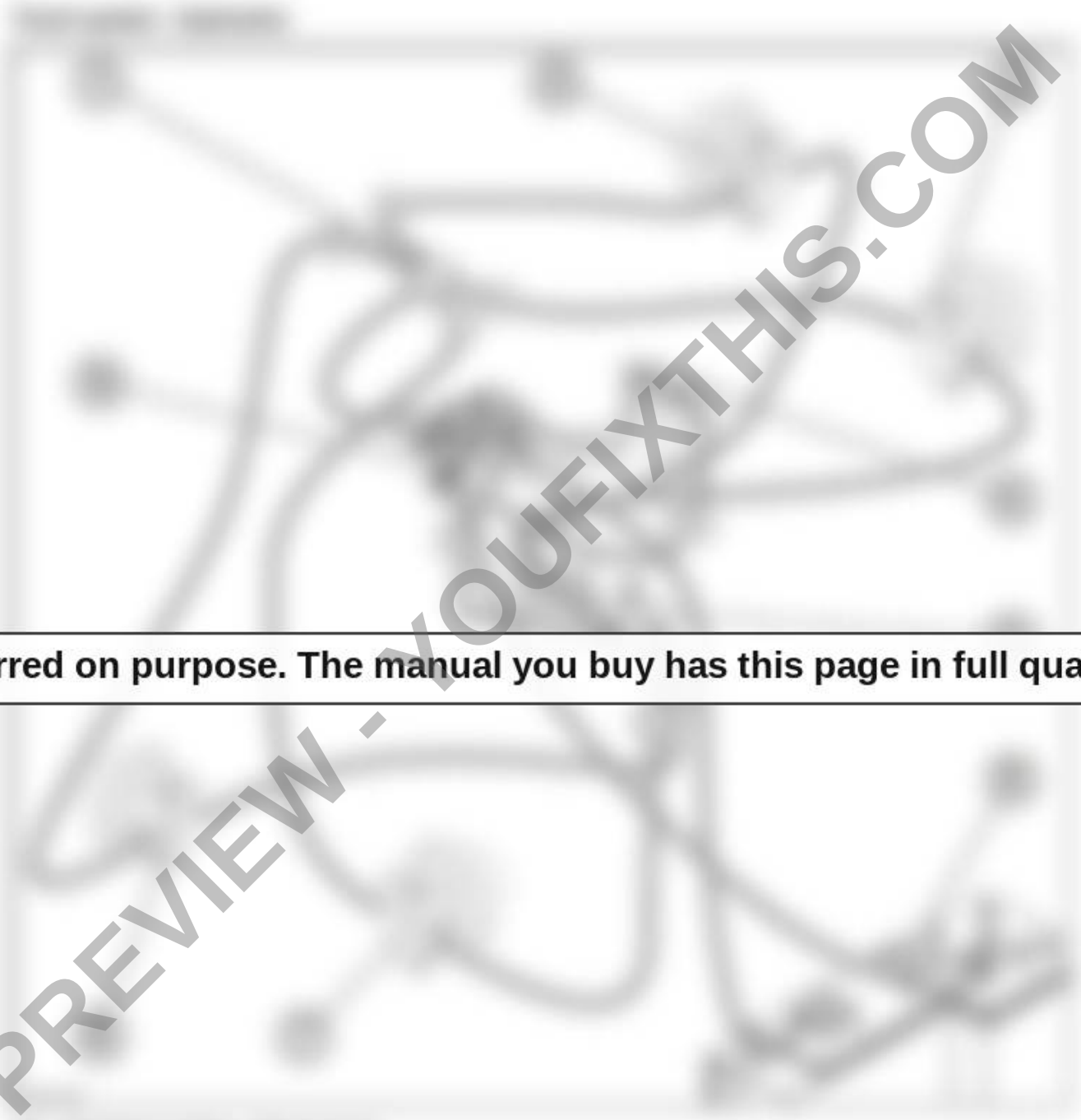
Exhausted batteries (batteries with formation of sulphate on the plates) are not covered under warranty!

- When removing a battery always disconnect the minus pole before the plus pole. When installing the battery connect the minus pole after the plus pole to avoid short circuits.
- Assemble the battery terminal clamps without force.

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A34 Machine control
Y04 Brake valve
Y197 Valve for hydraulic control



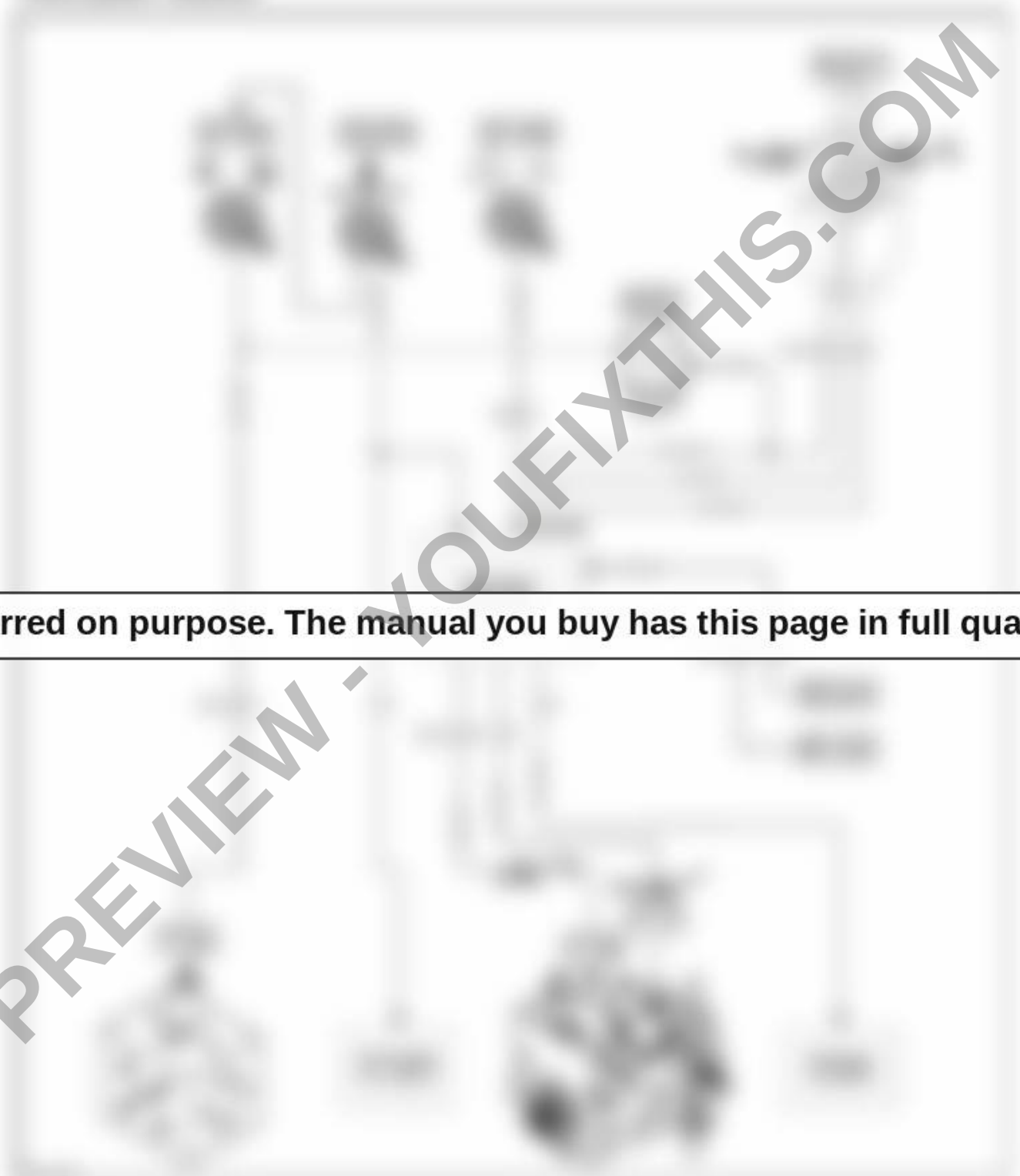
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4.3 Overviews

4.3.1 Travel system



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4.2 Emergency procedures

4.2.1 Actuating the emergency stop switch

In events of emergency and in case of danger actuate the emergency stop switch immediately.

The machine is braked immediately, the engine is shut down.

Restart the machine only after the danger that caused the actuation of the emergency stop switch has been eliminated.

In case of frequent use the wear on the multi-discs brakes will be very high, you should therefore never use the emergency stop switch as a service brake.

4.2.2 Disconnecting the battery

In events of emergency, e.g. in case of a cable fire, disconnect the battery from the vehicle network.

Pull out the main battery switch or lift off the battery pole to do so.

4.2.3 Towing the machine

Tow the machine only in a case of emergency or to avoid an accident.

Before releasing the parking brake apply suitable measures to secure the machine against unintended rolling.

Use a tractor vehicle with sufficient traction and braking power for the unbraked towed load.

If no tow bar is used, towing is only permitted uphill.

Before starting towing operations make sure that the fastening means are able to withstand the load and are fastened at the points provided for this purpose.

Before removing the towing facility apply appropriate measures to secure the machine against unintended rolling.

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1.2 Concerning your safety

1.2.1 Handling fuels and lubricants

1.2.1.1 Preliminary remarks

The operating company must ensure that all professional users have read and follow the corresponding safety data sheets for the individual fuels and lubricants.

Safety data sheets provide valuable information about the following characteristics:

- name of substance
- possible dangers
- composition / information on constituents
- first-aid measures
- fire fighting measures
- measures in case of accidental release
- handling and storage
- limitation and monitoring of exposure / personal protective equipment
- physical and chemical properties
- stability and reactivity
- toxicological data
- environmental data
- notes on waste disposal
- information on transport
- legislation
- other data

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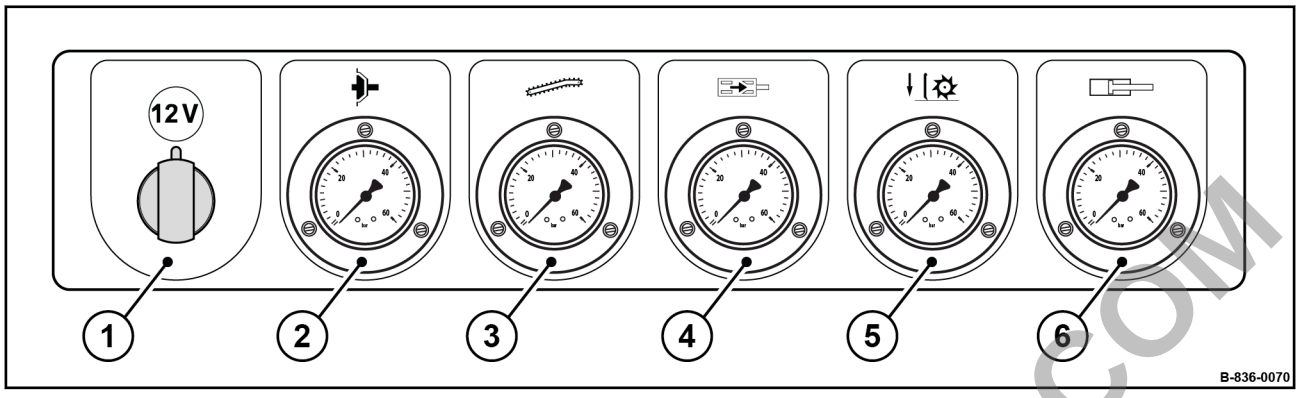


Fig. 27

1 12 V universal socket
2 Pressure gauge, clutch for milling drum drive
3 Pressure gauge for conveyor belt drive
4 Pressure gauge for travel system
5 Pressure gauge for scraper contact pressure
6 Pressure gauge for working hydraulics

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Terminal	Fuse	Amperage	Designation
X1:16	F342	7.5 A	Steering

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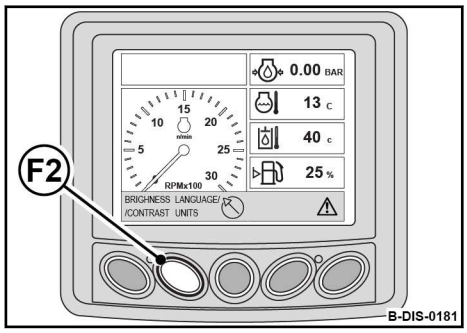


Fig. 117

3. Press function key *[F2] „Languages / Units“*.

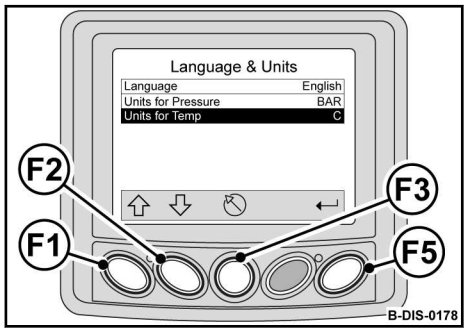


Fig. 118

4. Use function keys *[F1]* or *[F2]* to select the option *„Units for Pressure“* or *„Units for Temp“*.
5. Use the function keys *[F5]* to switch between metric and imperial units.
6. Press function key *[F3]*.
   ⇨ Change to the working screen.

5.1.5 Setting the screen brightness/contrast

1. Press any function key in the display.
   ⇨ The menu bar appears.
2. Press function key *[F3]*.
   ⇨ Change to the menu *„Settings“*.

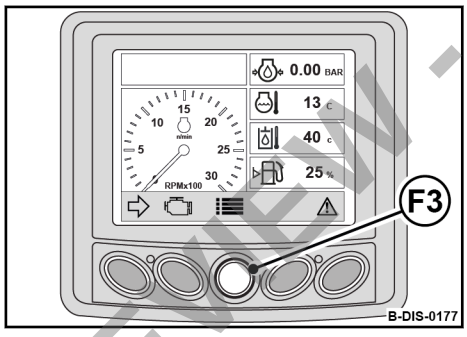


Fig. 119

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Description

The machine is equipped with a Caterpillar diesel engine. It is a type C7.1 engine with the following features:

- six cylinders in line
- four-stroke engine
- four valves per cylinder
- in-line turbocharger with intercooler

The front end of the engine is opposite the flywheel end of the engine. Left and right sides of the engine are determined from the flywheel side. Cylinder no. 1 is the front cylinder.

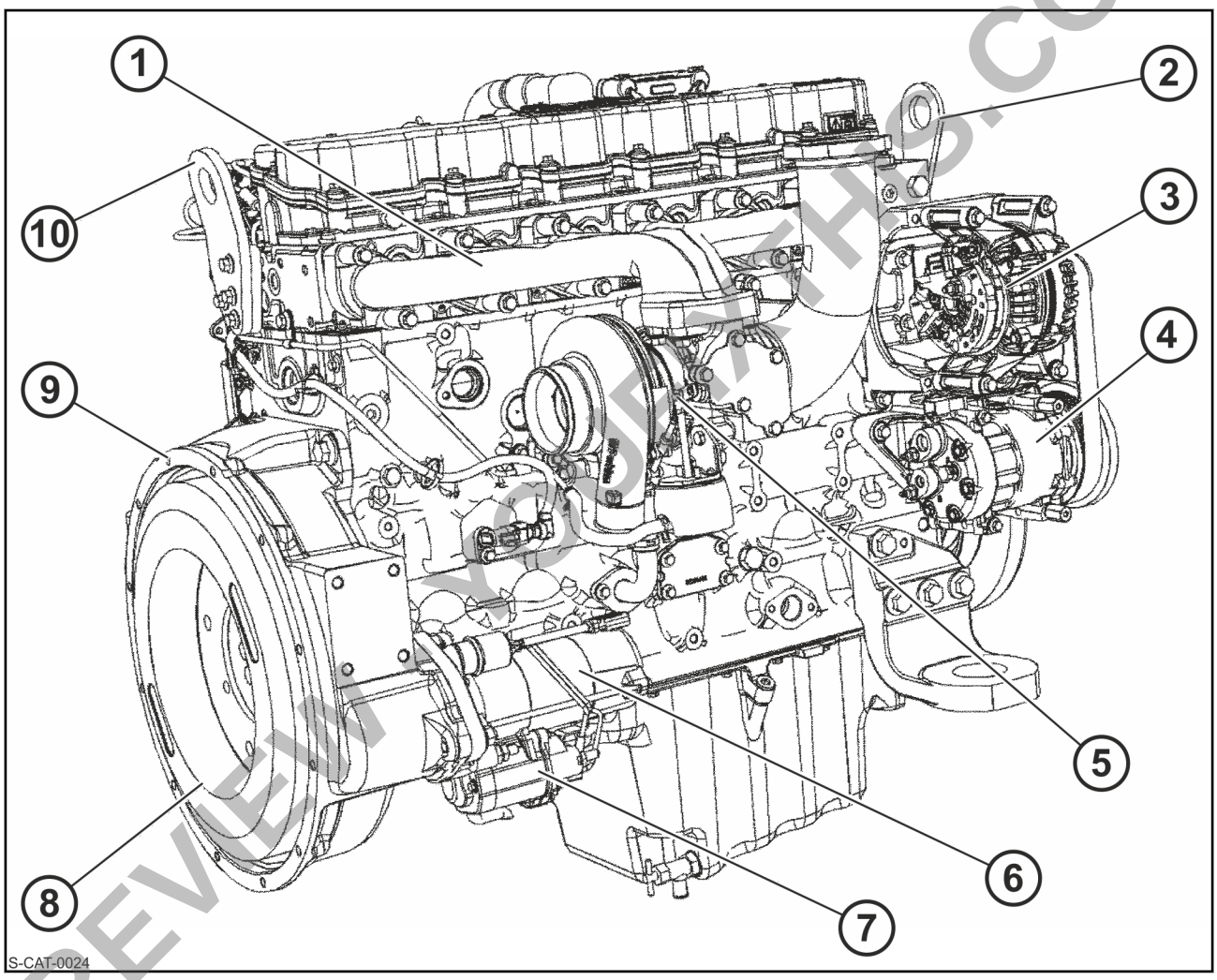


Fig. 178

1 Exhaust manifold
2 Engine eyelet, front
3 Generator
3 Refrigerant compressor (not used)
5 Turbocharger
6 Starter
7 Magnetic switch
8 Flywheel
9 Flywheel housing
10 Engine eyelet, rear

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6.7.4.4.2 Checking the main battery shutoff

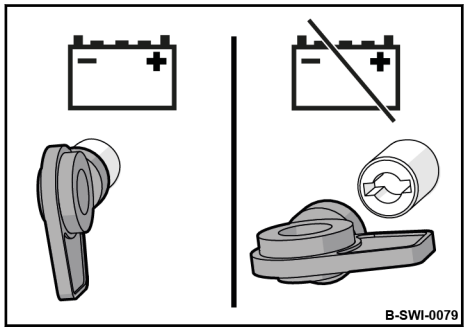


Fig. 241

1. Turn the main battery switch counter-clockwise and pull it out.
2. Check by turning the ignition key, whether the battery is disconnected from the electric system of the machine.

6.7.5 Every 1000 operating hours

6.7.5.1 Checking, adjusting the valve clearance

This work must only be performed by authorized service personnel.

6.7.5.2 Servicing the belt for the generator

Protective equipment:
- Working clothes
- Protective gloves

1. Park the machine in secured condition ↳ *Chapter 1.2.2 „Parking the machine in secured condition“ on page 15*.
2. Allow the engine to cool down.
3. Disassemble the belt for the travel pump drive (3) ↳ *Chapter 6.7.7.3 „Replacing the belt for the travel pump drive“ on page 254*.
4. Swing the idler pulley (2) in direction of the arrow and take off the generator belt (1).
5. Check the idler pulley (2) and deflection pulleys for condition and moveability, have them repaired if necessary.
6. Check the entire circumference of the belt for damage and cracks.
7. Replace damaged or cracked belts.
8. Install the belt and swing the idler pulley back.
9. Check the correct seat of the belt on the pulleys.
10. Reassemble the belt for the travel pump drive.

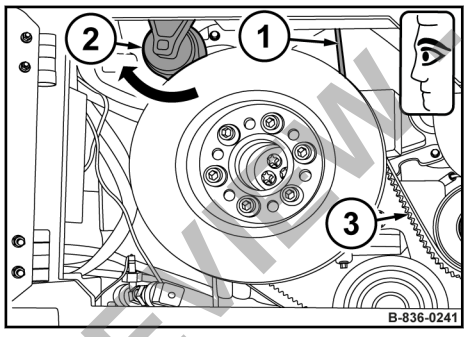


Fig. 242

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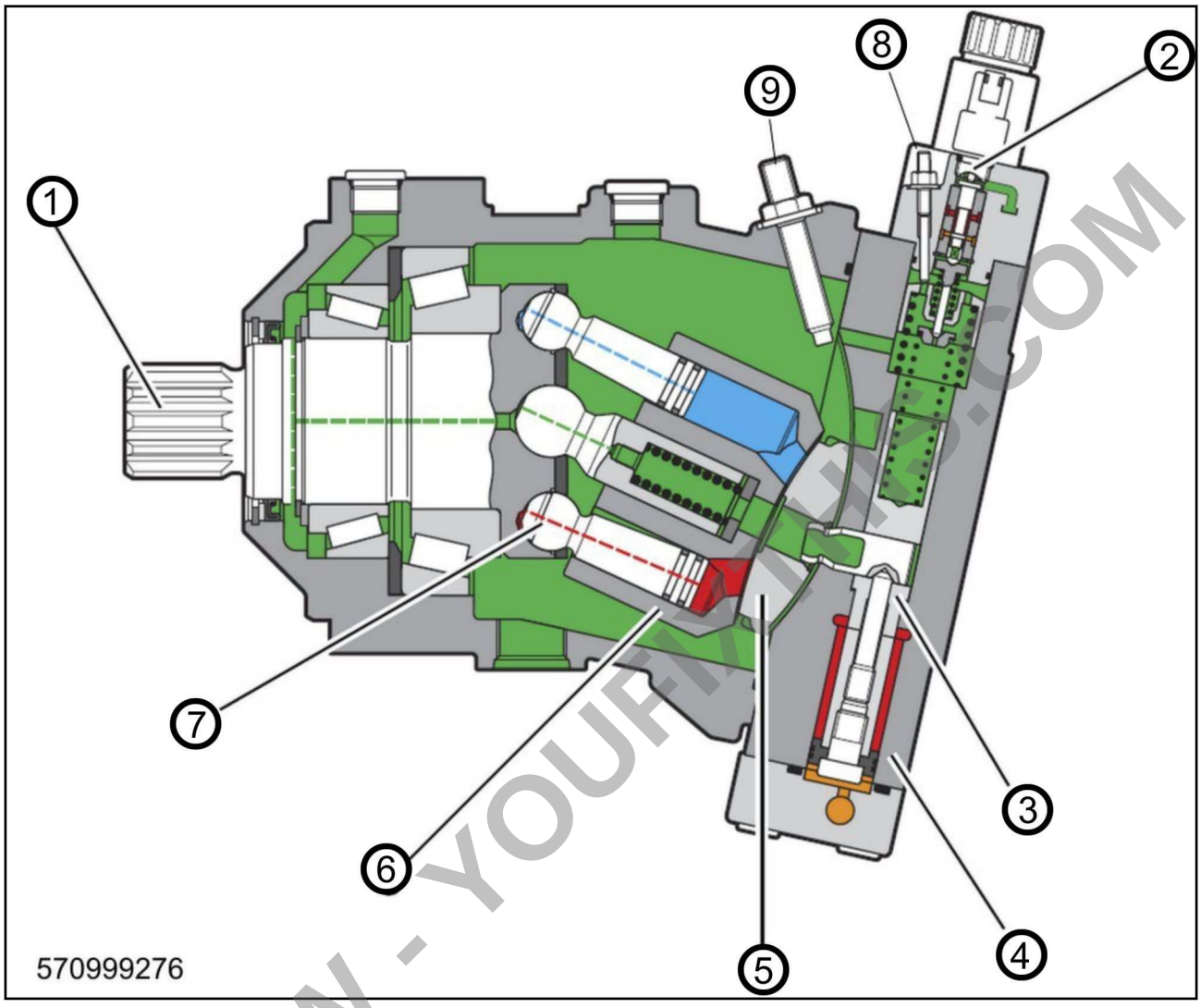


Fig. 299

1	Drive shaft	6	Cylinder
2	Control piston	7	Piston
3	Control piston	8	Setscrew for control start
4	Connecting plate	9	Setscrew, Vg min
5	Valve plate		

In variable displacement axial piston in bent axle design the pistons (7) are arranged in an inclined position to the drive shaft (1). The pistons perform an axial movement, which is then converted to a rotary movement by the piston joint on the drive shaft flange. The cylinder (6) is driven by the pistons.

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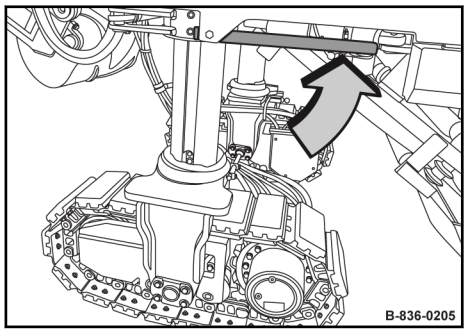


Fig. 374

5. Remove the safety supports from all four lifting cylinders.
6. Lower the machine.

8.2.2.3 As required

8.2.2.3.1 Replace the cutting chisels

Protective equipment:
- Working clothes
- Face protection
- Hearing protection
- Protective gloves

Special tool:
- Drift punch
- 500 g copper hammer

1. Swing the scraper to maintenance position *Chapter 8.2.2.2.2.1 „Move the scraper to maintenance position“ on page 341*.
2. Shut down the engine, pull off the ignition key.
3.

WARNING!

Danger of eye injuries caused by particles flying around!

– Replace cutting tools only when wearing your personal protective equipment (protective gloves, goggles).

Knock out damaged or worn off cutting tools with a hammer and a special tool.

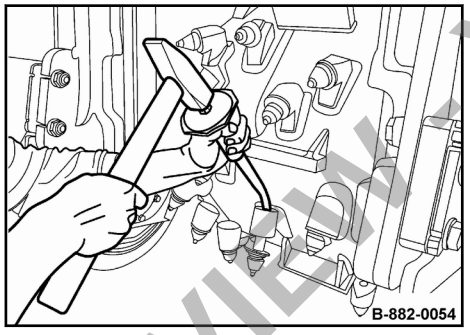


Fig. 375

4. Knock in the new cutting tools fully with a copper or plastic hammer and check whether the cutting tool can rotate freely.

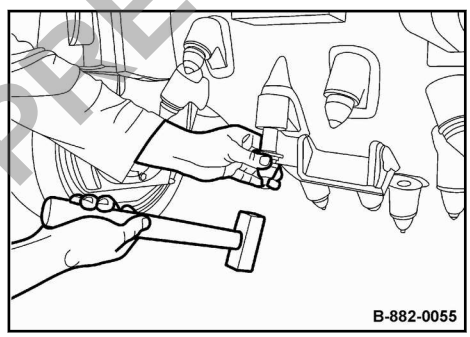


Fig. 376

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4.2 Dichtungen austauschen

Die Baugruppe „Dichtungssatz komplett“ enthält Dichtungen für folgende Komponenten:

- Stellkolbendeckel
- Ventile
- Druckabschneidung
- Hilfspumpe (siehe „Hilfspumpe austauschen“)
- Steuerung (siehe „Steuergerät austauschen“)

Benötigtes Sonderwerkzeug:

- Hülse zum Aufziehen von O-Ring und Stützring, Mat.-Nr.: R909454005

Dichtung an den Stellkolbendeckeln austauschen

Die beiden Seiten des Stellkolbens sind mit zwei unterschiedlichen Deckeln abgedeckt. Die nötigen Schritte zum Austausch der Deckeldichtungen unterscheiden sich daher.

4.2 Exchanging Seals

The assembly group "complete seal set" contains seals for the following components:

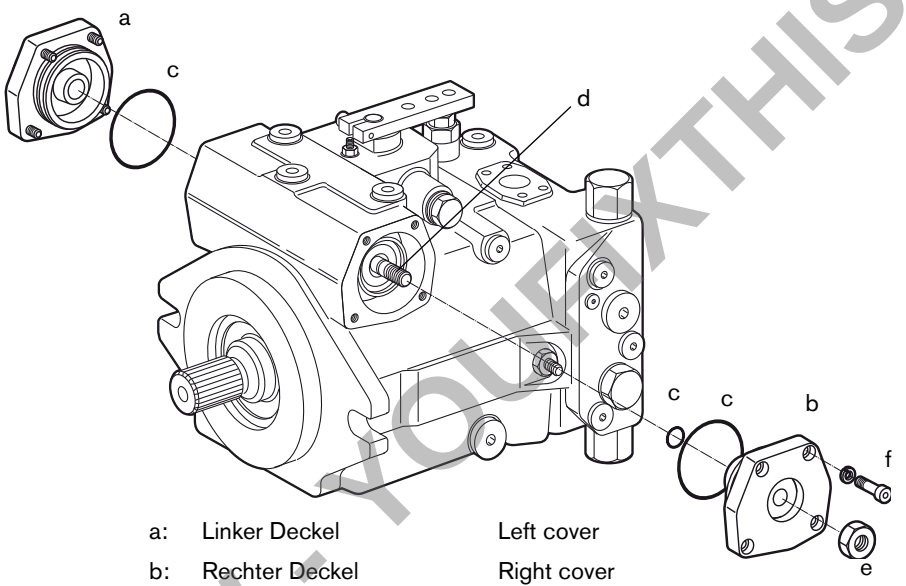
- Positioning piston covers
- Valves
- Pressure cut-off
- Auxiliary pump (refer to "Exchanging the Auxiliary Pump")
- Controller (refer to "Exchanging the Control Device")

Required Special Tools:

- Sleeve to screw off the o-ring, Mat. no.: R909454005

Exchanging the valve positioning piston covers

Both sides of the positioning piston have their own different covers. The required steps to exchange the covers are threrefore different.



a:	Linker Deckel	Left cover
b:	Rechter Deckel	Right cover
c:	O-Ring	O-ring
d:	Stellschraube	Adjustment screw
e:	Kontermutter	Counter nut
f:	Befestigungsschrauben	Fastening screw

Um die Dichtung an den Stellkolbendeckeln auszutauschen:

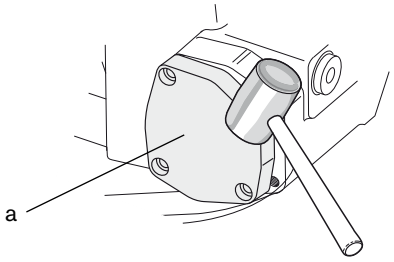
1 Entfernen Sie die Befestigungsschrauben (f) des linken Deckels (a).

2 Verdrehen Sie den Deckel (a) und lösen Sie ihn vorsichtig mit leichten Hammerschlägen (Gummihammer).

To exchange the valves of the positioning pistons:

1 Remove the fastening screw (f) of the left cover (a).

2 Twist the cover (a) and carefully loosen it by tapping it with a (rubber) hammer.



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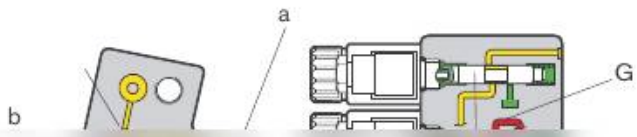
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Motorverstellungen DA2, 3, 5, 6

Einstellüberprüfung

Control DA2, 3, 5, 6

Setting test





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Sicherheitsbestimmungen
Safety regulations

Allgemein

- Machen Sie sich mit der Ausstattung der Maschine vertraut.
- 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 Schutzausrüstung wie Schutzhelm, Sicherheitsschuhe und Gehörschutz.
- Machen Sie sich mit Ihrem Arbeitsgebiet vertraut.
- Benutzen Sie die Maschine nur für den ihr zugedachten Zweck.

General advice

- Make yourself familiar with the equipment of the machine.
- Only operate the machine if your are completely familiar with the operating and control elements as well as the functioning of the machine.
- Use your safety equipment like helmet, safety shoes and hearing protection.
- Make yourself familiar with your working field.
- Only operate the machine for its intended purpose.

Beachten Sie bitte die Richtlinien der Berufsgenossenschaft und des Maschinenherstellers

Please observe the guidelines of the Professional Association and the machine manufacturer.





Vor dem Start

- Beachten Sie die Bedienungshinweise vor dem Starten.
- Prüfen Sie die Maschine auf auffällige Fehler.
- Fahren Sie die Maschine nicht mit defekten Instrumenten, Kontrolleuchten oder Steuerorganen.
- Alle Schutzvorrichtungen müssen fest auf ihrem Platz sein.
- Nehmen Sie keine losen Gegenstände mit bzw. befestigen Sie diese an der Maschine.
- Halten Sie die Maschine von öligem und zündfähigem Material frei.
- Prüfen Sie vor dem Besteigen der Maschine, ob sich Personen oder Hindernisse neben oder unter der Maschine befinden.
- Vorsicht beim Besteigen der Maschine, benützen Sie Treppen und Griffe.
- Stellen Sie vor dem Start Ihren Sitz ein.

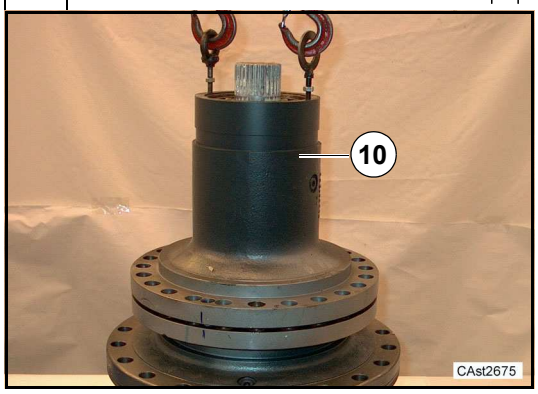
Before starting

- Observe the operating instructions before starting.
- Check the machine for remarkable faults.
- Do not operate the machine with defective instruments, warning lights or control elements.
- All safety devices must be in a secure position.
- Do not carry with you movable objects or secure them to the machine.
- Keep oily and inflammable material away from the machine.
- Before entering thc driver's cabin, check if personsor obstacles are beside or beneath the machine.
- Be careful when entering the driver's cabin, use stairs and handles.
- Adjust your seat before starting.

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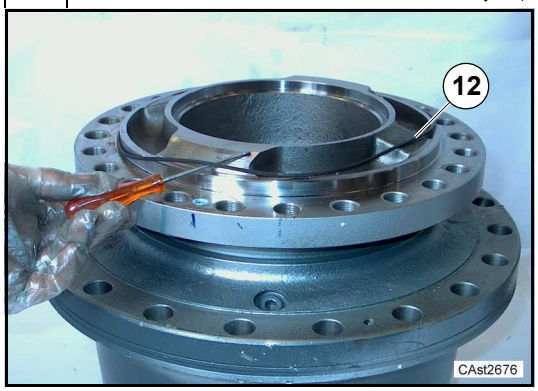
10



Das ganze Gehäuse (**10**) demontieren.

*Remove casing assembly (**10**).*

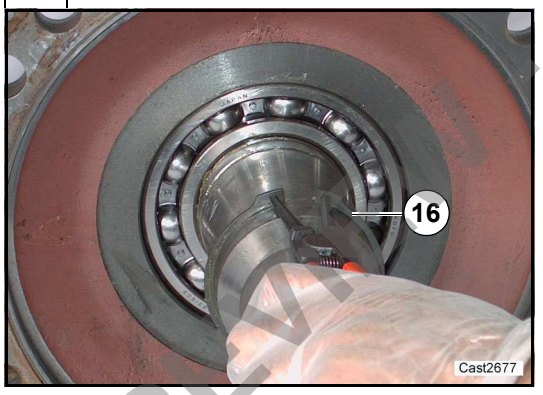
11



Den O-Ring (**12**) entfernen.

*Remove O-Ring (**12**).*

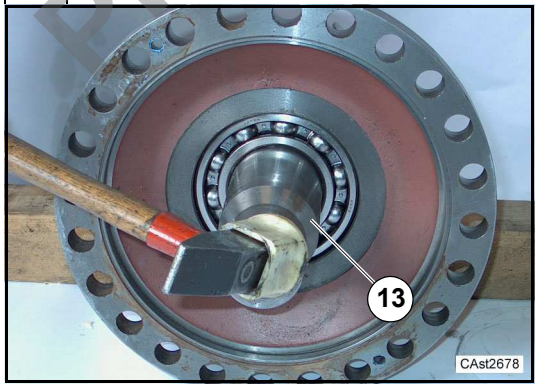
12



Den Sprengring (**16**) entfernen.

*Remove snap ring (**16**).*

13



Die Welle (**13**) entfernen.

*Remove shaft assembly (**13**).*

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5.2 Riempimento olio

Attenzione **Il riduttore viene fornito privo di olio ma predisposto con tappi di carico, scarico e livello. Prima della messa in funzione occorre fare il riempimento.**

1. Con l'asse del riduttore in orizzontale, ruotare il corpo fino a che il **tappo di scarico (1A)** si trovi in basso sull'asse verticale del coperchio di chiusura.
2. Svitare i **tappi di carico e livello olio (1A-1B).**
3. Riempire dal **foro (1A)** fino a che l'olio lubrificante (vedi paragrafo 5.1) non fuoriesca dal **foro (1B).**
4. Avvitare il **tappi di carico e livello olio (1A-1B)** e mettere in funzione il riduttore; attendere qualche istante, poi verificare nuovamente il livello dell'olio.
5. Aggiungere olio lubrificante se necessario.

5.3 Scarico e sostituzione olio

1. Con l'asse del riduttore in orizzontale, ruotare il corpo fino a che il **tappo di scarico (1B)** si trovi in basso sull'asse verticale del coperchio di chiusura.
2. Svitare i **tappi (1A-1B)** e fare defluire l'olio in un recipiente sufficientemente capiente; per agevolare l'operazione di scarico è bene operare con olio caldo.
3. Attendere qualche minuto affinché tutto l'olio sia uscito, quindi avvitare i **tappi (1A-1B)**.
4. Effettuare il riempimento dell'olio seguendo le modalità predefinite (vedi paragrafo 5.2).

Attenzione **Si raccomanda di non miscelare olii a base minerale con olii a base sintetica e viceversa.**

Attenzione **Non disperdere l' olio nell' ambiente ma smaltirlo rispettando le leggi vigenti in materia.**

Informazioni **Qualora il riduttore sia riempito con olio lubrificante al giusto livello (paragrafo 7.1), attenersi alle istruzioni riportate in dettaglio ai paragrafi 5.2-5.3 solo per i cambi olio successivi alla messa in esercizio.**

5.2 Oil filling

Warning ***The gearbox is supplied without oil; anyway it has filling, draining and oil level plugs. Before putting the gearbox into operation, it is necessary to fill it with oil.***

1. *Check that the gearbox axis is horizontal. Rotate the gearbox housing until the **drain plug (1A)** is on the bottom of the vertical axis of the end cover.*
2. *Unscrew the **fill and level oil plugs (1A-1B).***
3. *Fill from the **hole (1A)** until the lubricant oil (see Section 5.1) flows out from the **hole (1B)**.*
4. *Tighten the **fill and level oil plugs (1A-1B)** and let the gearbox run. After a few minutes, stop and check the oil level.*
5. *If necessary, refill with lubricant oil.*

5.3 Oil draining and replacement

1. *Check that the gearbox axis is horizontal. Rotate the gearbox housing until the **drain plug (1B)** is on the bottom of the vertical axis of the end cover.*
2. *Unscrew the **plugs (1A-1B)** and let the oil flow in a large enough container; in order to facilitate the draining must be oil still warm.*
3. *Wait a few minutes until all the oil is drained and then proceed to screw on the **plugs (1A-1B)**.*
4. *Proceed with the oil fill-up following the procedures given (see Section 5.2).*

Warning ***Never mix mineral oils with synthetic oils and vice versa.***

Warning ***Do not dispose of the oil in the natural environment but be careful to eliminate it in compliance with the relative rules and regulations that govern locally.***

Information ***In case the gearbox is factory filled with lubricant oil at level (section 7.1) ,follow the procedures given in detail at sections 5.2-5.3 only for the oil replacements following the start up and running in.***

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Spare Parts List

OMS Series 2 - Spare parts list (continued)

Item	Spare parts	Number per motor

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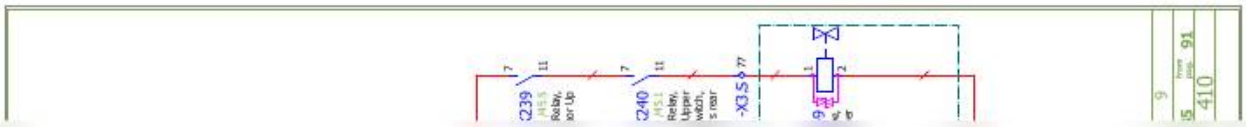
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8.2 Wartung

8.2.1 Wartung der Planox Kupplung

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