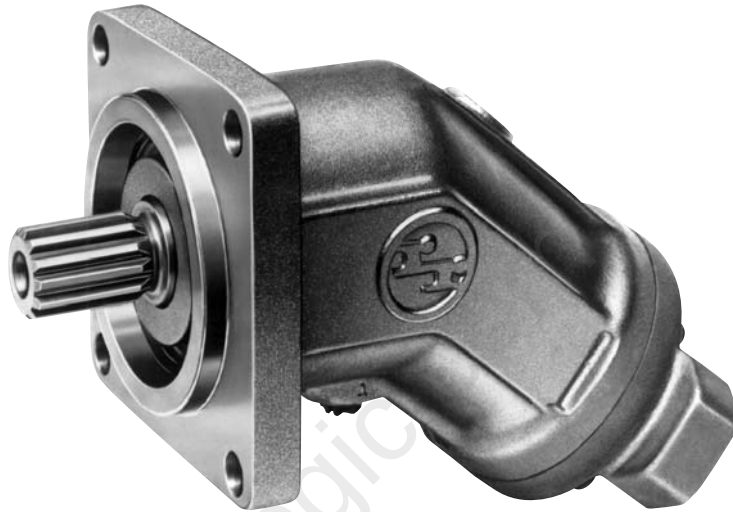


**MANNESMANN
REXROTH**

Brueninghaus Hydromatik

Fixed Displacement Motor AA2FM (A2FM)Series 6, for Open and Closed Circuits
Axial Piston, Bent Axis Design**RA
91 001/08.97**Replaces: RA 91001/07.95
RA 91003/05.95
RA 91025/05.95

Sizes 5...1000	Nominal Pressure up to 5800 psi (400 bar)	Peak Pressure up to 6500 psi (450 bar)
----------------	---	--



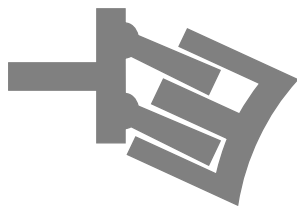
The fixed displacement motors AA2FM (A2FM) of axial piston, bent axis design is made suitable for hydrostatic drives in open and closed circuits.

Output speed is proportional to input flow and inversely proportional to displacement. Drive torque increases with the pressure drop across the unit.

The motor is suitable for use in mobile and industrial applications.

Careful selection of the displacements offered, permit sizes to be matched to practically every application.

- Favourable power / weight ratio
- Compact and economic design
- Optimum efficiency
- One piece pistons with piston rings
- Patented cylinder block drive system



Ordering Code, Size 5**Axial piston unit**

Bent axis design, fixed displacement

A2F**Size**

Size	5
Displacement Vg	in ³ / rev. 0,30
	cm ³ / rev. 4,93

Direction of rotation

Viewed on shaft end bi-directional

W**Series****6.0****Shaft end**

Parallel shaft with key DIN 6885

B

Tapered shaft with spigot and spring washer DIN 6888

C**Service ports**

Threaded at side, metric (opposite side)

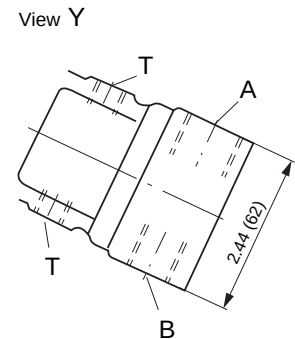
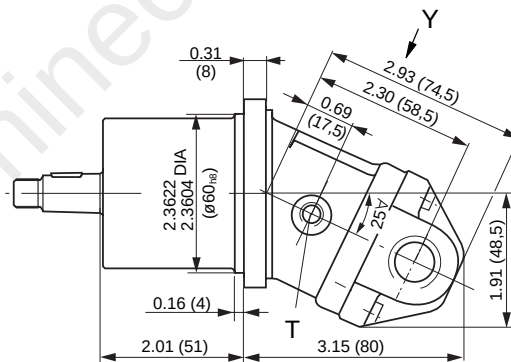
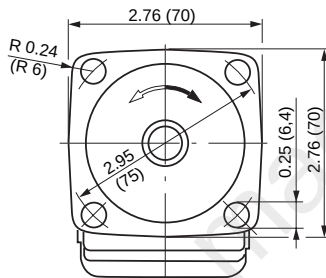
3

Additional instructions in text form

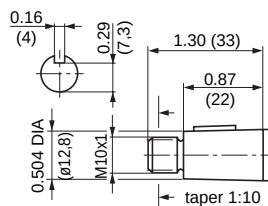
Seals

The fixed Motor A2F 5 is equipped with NBR (Nitrilcaoutchouc) seals in standard design. In case of need FPM- (fluor-caoutchouc) seals please indicate when ordering in clear text:

"with FPM-seals"

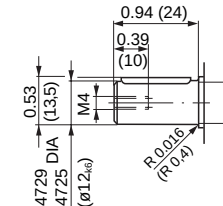
**Unit Dimensions, Size 5
ISO Design****Shaft ends**

"C" Tapered shaft with spigot and spring washer 3x5(mm) DIN 6888



Nominal pressure
 $p_N = 4600 \text{ psi (315 bar)}$

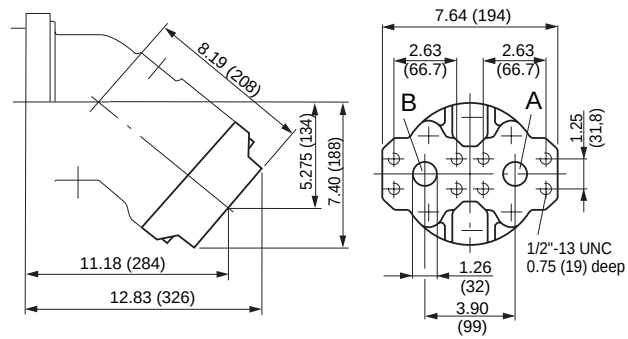
"B" Parallel shaft with key A4x4x20(mm) DIN 6885



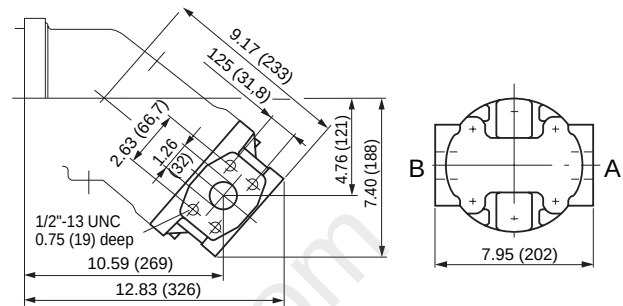
Nominal pressure
 $p_N = 3000 \text{ psi (210 bar)}$

Connections

A, B Service line ports M 18x1,5 (thread metric)
T Drain port M 10x1, both sides (thread metric)

Unit Dimensions, Sizes 160, 180**Port plates****51**

A, B Service line ports
SAE 1 1/4"; 6000 psi (420bar) high pressure series

52

A, B Service line ports
SAE 1 1/4"; 6000 psi (420bar) high pressure series

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 zugeordneten Zweck.

Beachten Sie bitte die Richtlinien der Berufsgenossenschaft und des Maschinenherstellers



General advice

- Make yourself familiar with the equipment of the machine.
- Only operate the machine if you 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.

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

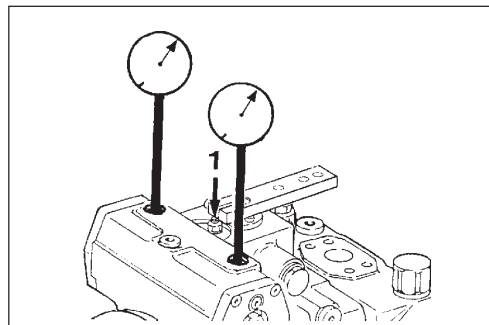
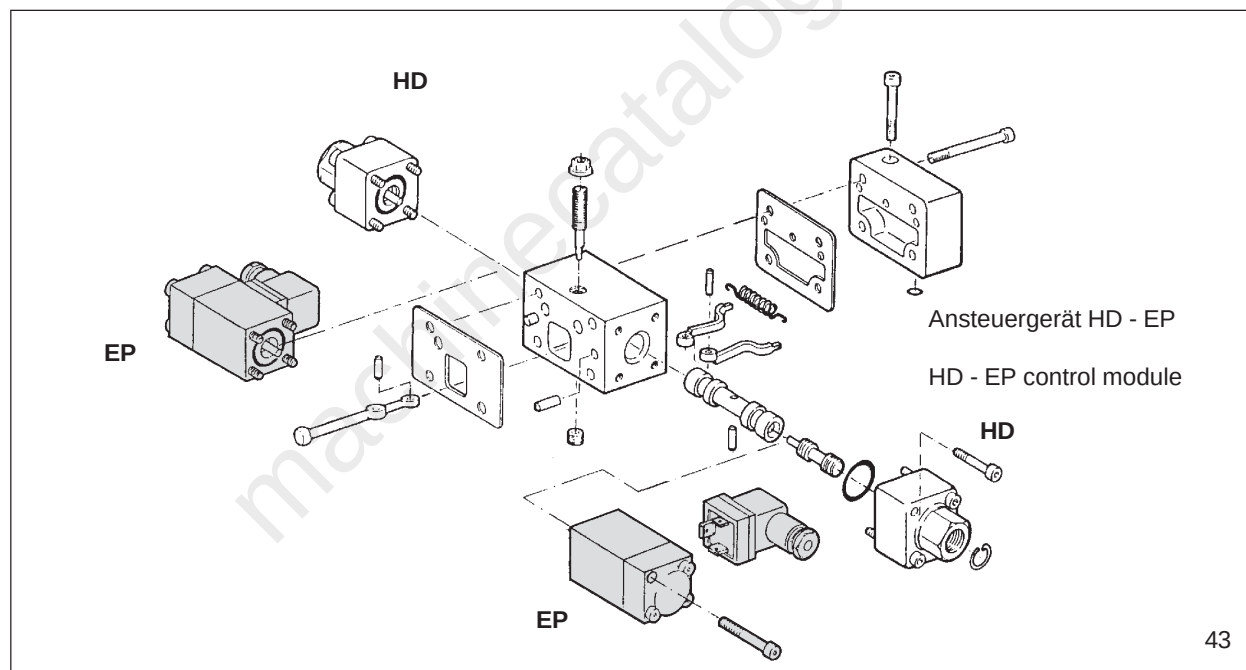
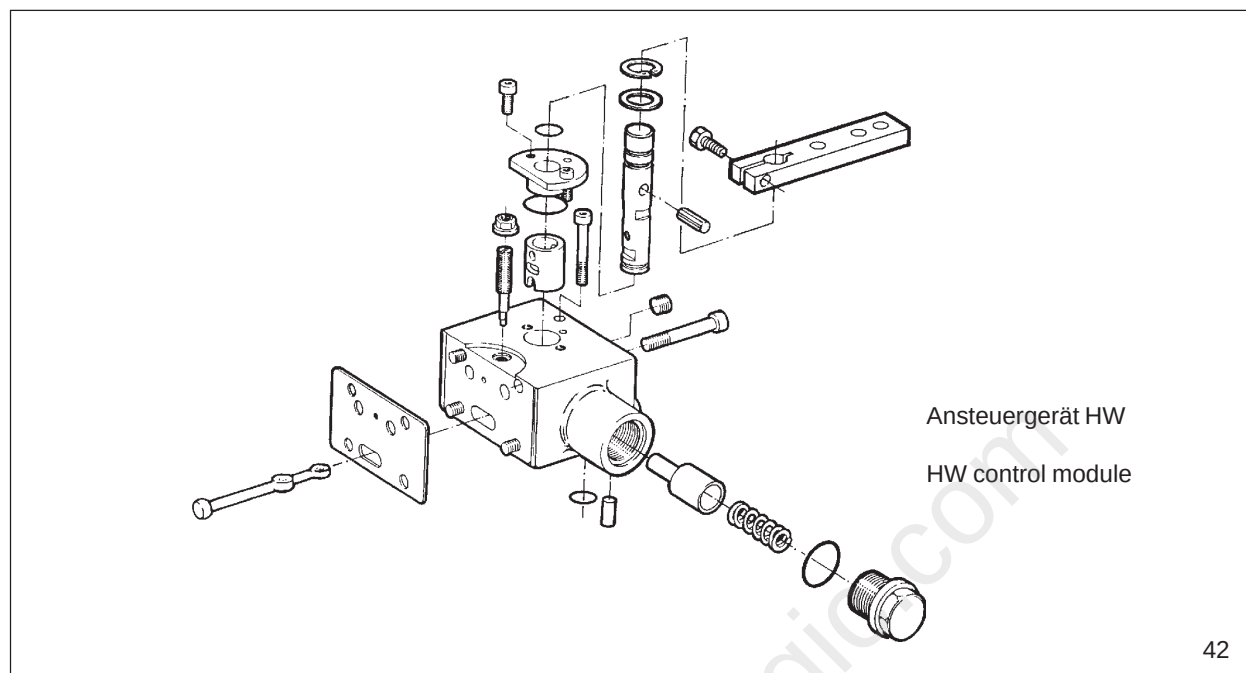


Vor dem Start

- 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, benutzen Sie Treppen und Griffe.
- Stellen Sie vor dem Start Ihren Sitz ein.

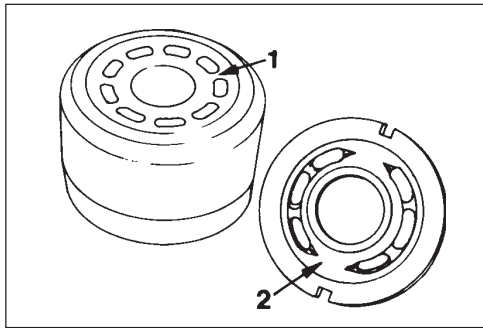
Before starting

- 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 the driver's cabin, check if persons or obstacles are beside or beneath the machine.
- Be careful when entering the driver's cabin, use stairs and handles.
- Adjust your seat before starting.



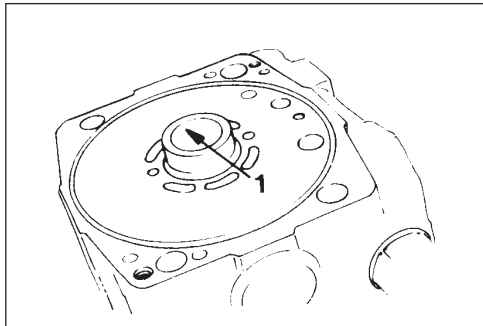
- 44 Hydraulische Nulllage (1) neu einstellen. Beide Manometer müssen gleichen Druckwert anzeigen.

Reset hydraulic zero position (1).
Both gauges must indicate the same pressure.



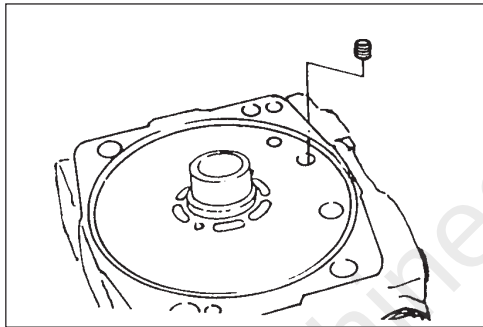
- 71 Kontrolle!
Zylindergleitfläche (1) riefenfrei, nicht eingelaufen, keine Einlagerungen, Steuerplatte (2) nicht riefig (nur satzweise austauschen).

Check!
Cylinder gilding surface (1) free of scratches, no traces of wear and no embedded foreign particles. No scratches on the valve plate (2). (Replace ONLY in sets).



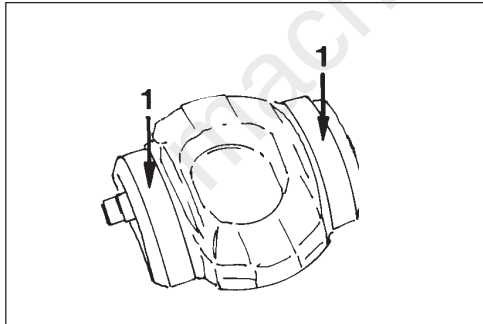
- 72 Kontrolle!
DU-Lagerbuchse (1) nicht ausgelaufen.

Check!
DU-bearing bush (1) is not worn out.



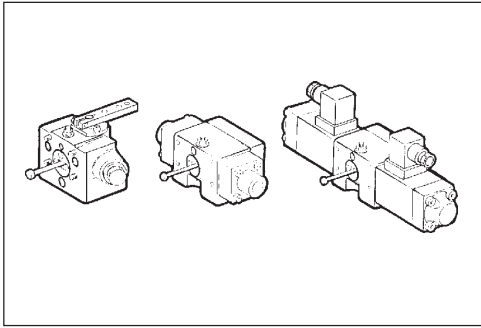
- 73 Hinweis:
Bohrung bei DA-Regelung offen. Ohne DA-Regelventil geschlossen.

Information:
Boring for DA-control open.
Without DA-control closed.



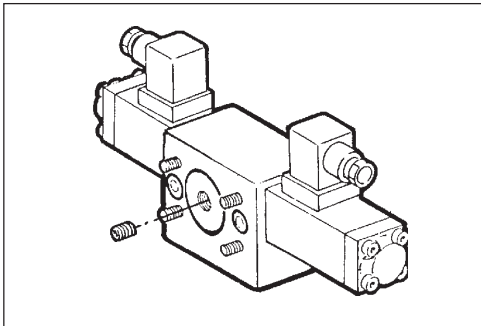
- 74 Kontrolle!
Lagerbahnen (1)

Check!
Bearing surfaces (1)



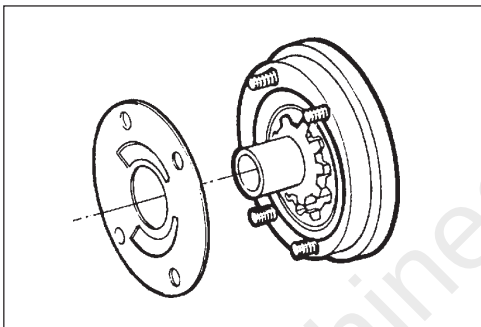
- 6 Ansteuergeräte **HW, HD, EP**
Hinweis:
NG 71 wie NG 40 - 56 mit Flachdichtung.

Control device **HW, HD, EP**
Note:
Size 71 control device as size 40 - 56 with flat seal.

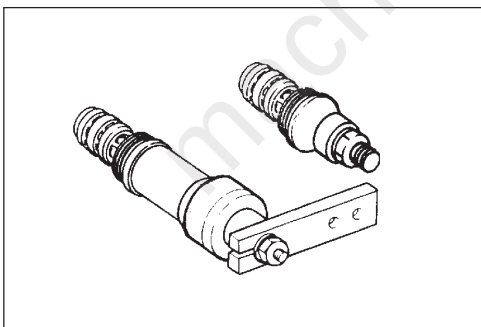


- 7 Ansteuergerät **DA**
Hinweis:
NG 71 wie NG 40 - 56 mit Flachdichtung.

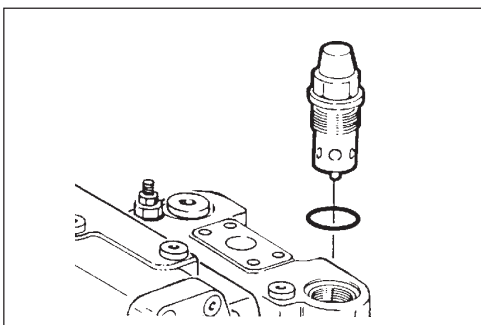
Control device **DA**
Note:
Size 71 control device as size 40 - 56 with flat seal.



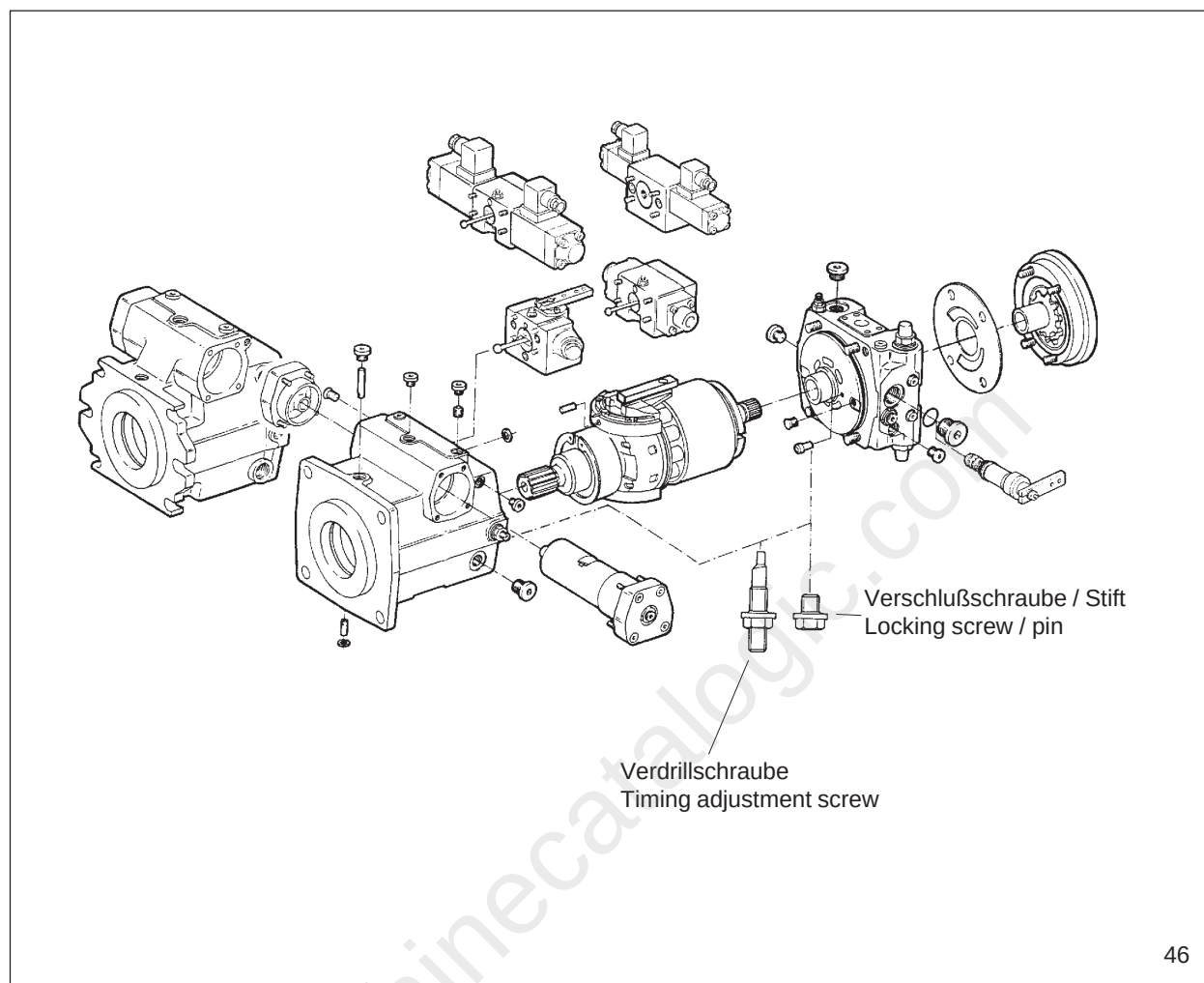
- 8 Hilfspumpe
Boost pump



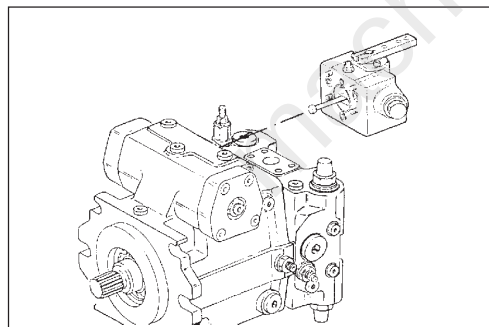
- 9 Regelventil
Control valve



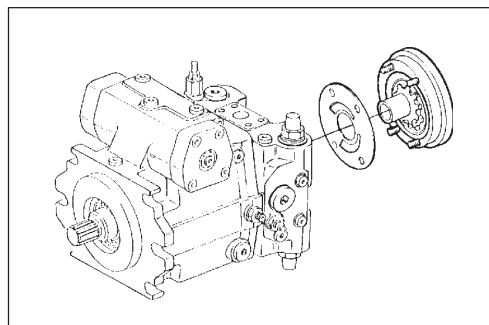
- 10 HD - Ventil
High pressure valve



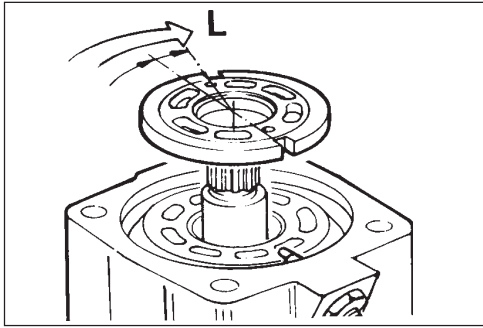
46



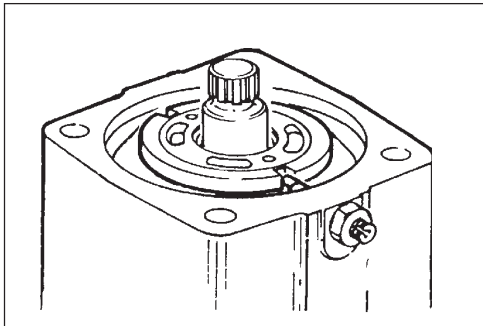
- 47 Ansteuergerät abbauen.
Remove control device.



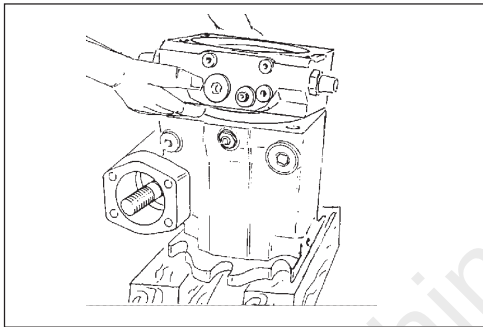
- 48 Hilfspumpe ausbauen.
Hinweis:
Einbaulage kennzeichnen.
Remove auxiliary pump.
Note:
Mark assembly position previously.



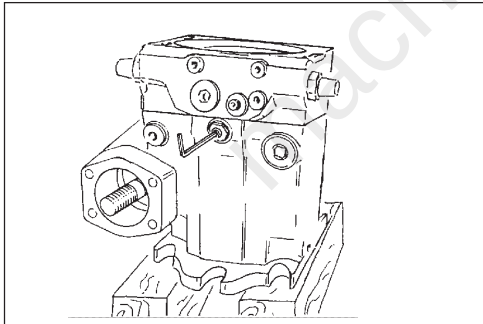
- 97 Steuerplatte einsetzen - Linkslauf.
Insert the control plate - Counter- clockwise rotation.



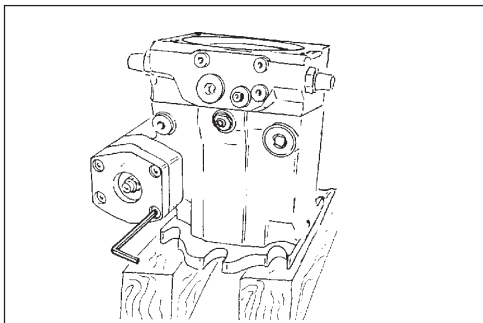
98



- 99 Anschlußplatte aufbauen.
Achtung! Federvorspannung!
Mit zwei Befestigungsschrauben überkreuz Anschlußplatte
in Gehäuseführung einsetzen - Fertigmontage!
- Assemble connection plate.
Attention! Spring preloaded!
Insert control plate into housing, guidance with two locking
screws crossing over -Finish assembly!



- 100 Verdrillschraube - Nach Markierung ausrichten.
Locking screw - Observe adjusting measure.



- 101
1. Deckel montieren.
 2. Nullage nach Maß einstellen.
1. Assemble cover
2. Adjust zero position according to measure.

Full Version Available

Bosch Rexroth A2FM Hydraulic Motor Service Manual

Bosch Rexroth A2FM hydraulic motor service manual, with repair procedures, disassembly, assembly and adjustment. Searchable PDF. Instant PDF download.

VIEW THE FULL MANUAL

<https://machinecatalogic.com/bosch-rexroth-a2fm-hydraulic-motor-service-manual/>

File Pages: 134 · File Count: 1 · File Language: English, German