

# Repair manual Hydraulic Breakers

## MB 1700 and MB 1700 DustProtector



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### 4.3 Removing the high-pressure accumulator

- Stand hydraulic hammer vertically and secure against falling over (e.g. on a stand similar to (Fig. 12), or lay flat).



**DANGER!**

If the MB 1700 is still attached to the carrier, the hydraulic system must be depressurised prior to removing the high-pressure accumulator.

e. g.

- On hoses with screw couplings, relieve pressure on check valves and depressurise (open the hose ports on the hammer).
- Release allen screws (Fig.13/1) on accumulator using a size 14 allen key (Fig.13/2) and screw them out removing the locking washers at the same time.



**CAUTION!**

Collect any oil which runs out and dispose of it in accordance with the applicable statutory provisions to avoid environmental hazards!

- Remove high-pressure accumulator (Fig.14).
- Check threaded insert (part no. 54), replace if necessary.

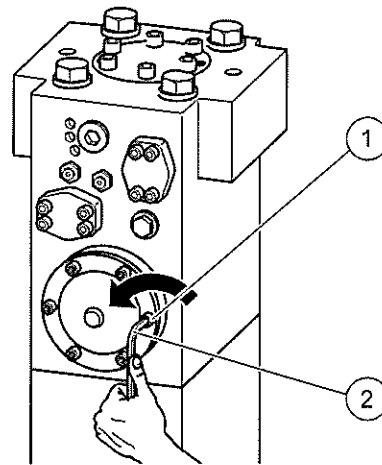


**CAUTION!**

The high-pressure accumulator on the MB 1700 has a capacity of 0.9 l and a max. permissible operating pressure of 230 bar (3335 psi).

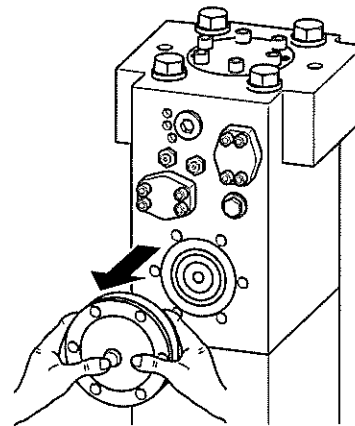
If any significant changes are made to the hydraulic system, a new acceptance inspection is to be carried out in accordance with the relevant national safety provisions.

- Removing the O-ring and back-up ring (Fig.15).



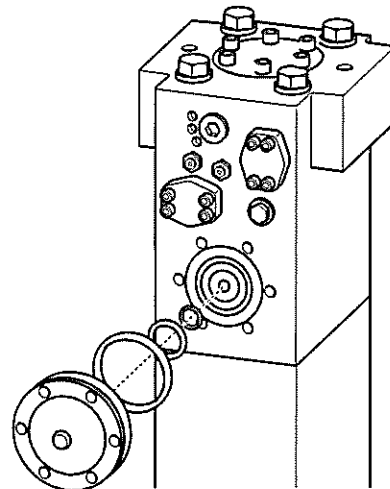
**Fig. 13**

Releasing and unscrewing the allen screws



**Fig. 14**

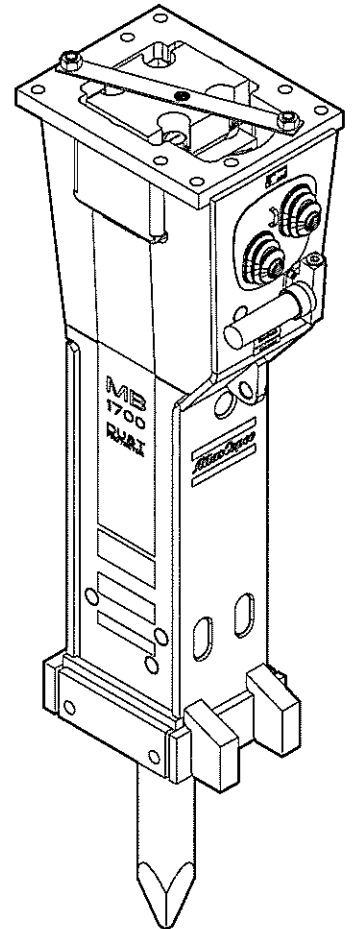
Removing the high-pressure accumulator



**Fig. 15**

Removing the O-ring and back-up ring

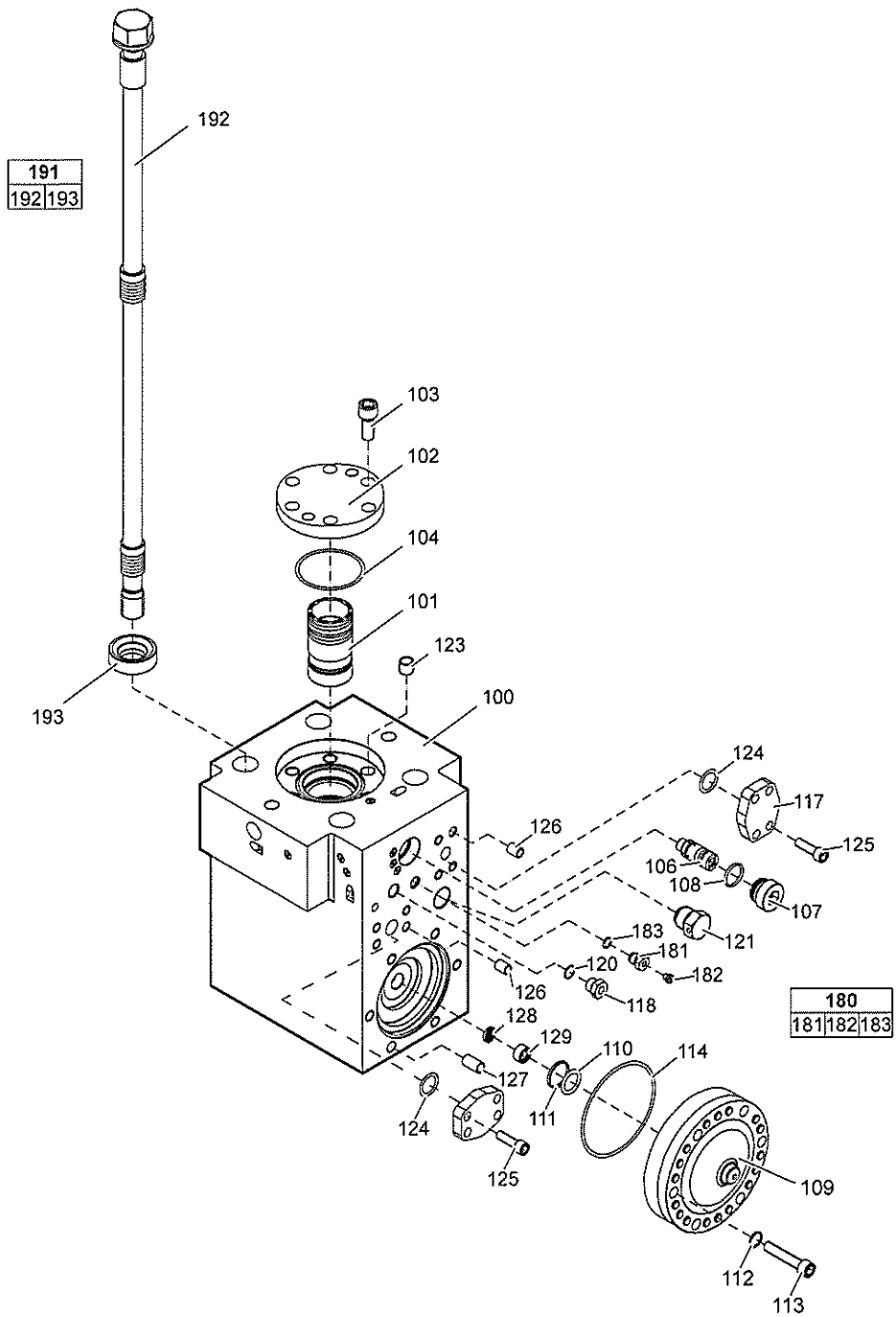
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# Percussion unit part 1: cylinder cover



No.	Description	Remark	Quantity	Part number
100	Cylinder cover	with no. 123, 126 - 129	1	3363 0682 01
101	Main control valve		1	3363 0330 29
102	Cover		1	3361 3315 55
103	Allen screw		6	3360 1037 76
104	O-ring		1	3360 3143 75
106	Valve		1	3363 0354 53
107	Threaded plug		1	3363 0354 25
108	O-ring		1	3360 3143 70
109	HP-accumulator		1	3363 0695 85
110	O-ring		1	3361 0319 12
111	Back-up ring		1	3361 8505 29
112	Pair of lock washers		6	3361 3337 03
113	Allen screw		6	3363 0704 90
114	O-ring		1	3361 0319 90
117	Blind flange		2	3363 0340 41
118	Connecting screw		1	3361 8546 57
120	O-ring		1	3360 4781 71
121	Non-return valve		1	3361 8545 11
123	Threaded insert		6	3361 0315 29
124	O-ring		2	3360 3143 72
125	Allen screw		8	3360 1060 74
126	Threaded insert		8	3361 0319 46
127	Threaded insert		6	3361 0319 89
128	Strainer disk		1	3361 8441 13
129	Threaded plug		1	3361 8441 15
<b>180(181-183)</b>	<b>Filling valve complete</b>		1	3363 0872 86
181	Filling valve		1	-
182	Threaded plug		1	3360 4784 26
183	O-ring		1	3360 1751 25
<b>191(192-193)</b>	<b>Tensioning bolt complete</b>		4	3363 0949 27
192	Tensioning bolt		1	3363 0990 37
193	Washer		1	3363 0977 73



# Safety and operating instructions

## Hydraulic breaker MB 750/750 DP - MB 1700/1700 DP



# **Safety and operating instructions for hydraulic breaker**

**MB 750 / MB 750 DustProtector  
MB 1000 / MB 1000 DustProtector  
MB 1200 / MB 1200 DustProtector  
MB 1500 / MB 1500 DustProtector  
MB 1700 / MB 1700 DustProtector**

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## 9.14 AutoControl - the combined valve system (all models of the MB series, expect MB 750/MB 750 DP)

The AutoControl system is a combination of a pressure holding valve and a switching valve.

The **pressure holding valve** ensures precision breaker operation under any operating conditions

### 9.14.1 AutoControl for normal operations

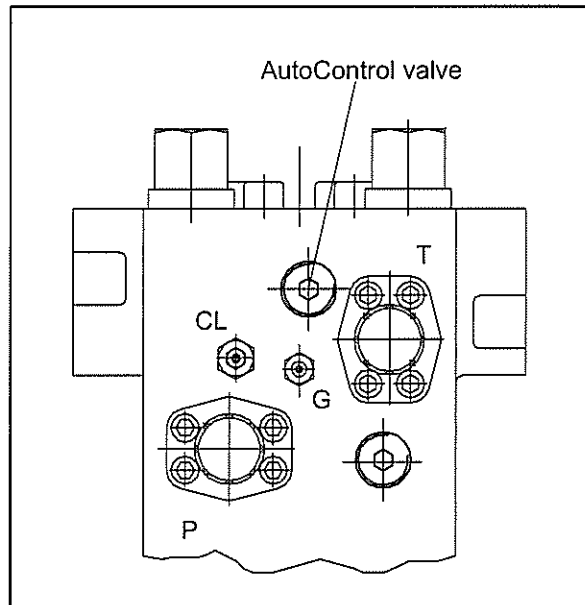
All hydraulic breakers of the MB series expect MB 750/MB 750 DP are equipped with AutoControl as standard.

The system adapts fully automatically to operating conditions, requiring no manual intervention on the part of the excavator driver.

For applications requiring high single blow energy, the breaker operates at full piston stroke and high percussive force.

and allows energy recovery of up to 30 % when working in hard rock.

The **switching valve** automatically reduces the stroke length to reduce the single blow force.



### 9.14.2 AutoControl for special requirements

For special requirements, e.g. where the emphasis is on low-vibration working, the AutoControl system can be blocked mechanically to the higher impact rate and reduced percussive force.

For further information on this subject please contact the Atlas Copco Customer Center / dealer in your region.

## 9.15 StartSelect - AutoStart/AutoStop

(MB 1200/MB 1200 DP, MB 1500/MB 1500 DP, MB 1700/MB 1700 DP)

The hydraulic breakers MB 1200/MB 1200 DustProtector, MB 1500/MB 1500 DustProtector and MB 1700/MB 1700 DustProtector are supplied ex factory set to "AutoStart" mode, i.e. when they are switched on, the breakers start in operating position without the need for contact pressure to be applied.

The AutoControl system protects the breaker from damaging idle blows.

This setting provides greater productivity and simplifies handling in the following applications:

- secondary reduction of mined rock
- working with the breaker in horizontal and/or overhead position
- size reduction of light concrete structures

By making a reversible modification, the breaker can be set quickly to a different mode:

"AutoStop" (= Automatic shut-off)

Contact pressure needs to be applied before the breaker is started. During operation, the breaker shuts off automatically if the percussion piston no longer strikes the working tool. The breaker is thus protected against idle blows.

This operating mode is of advantage in the following applications:

- trenching
- bench levelling in the quarry
- excavating foundations in rock
- size reduction of heavy concrete structures

For more information on this modification, please refer to the spare parts lists of these models.