



**SERVICE INSTRUCTIONS  
SPARE PARTS LIST**

**Pneumatic Rock Drills**

**PLB 24DI** ←

**PLB 24K**

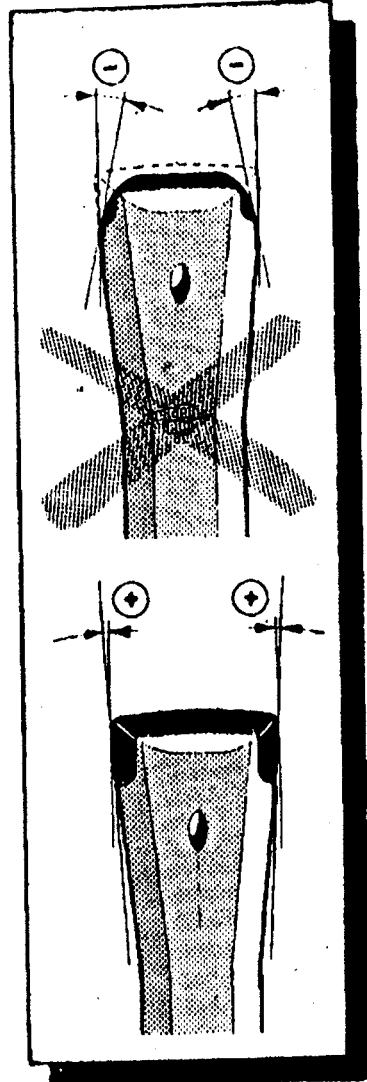
#### 4. Drill Rods

##### Shanks

Shanks must be intact and clean  
The contact surface must be smooth  
and perpendicular to the drill rod  
axis.  
Flushing holes must not be clogged.

##### Bits

Must be correctly shaped (no inward  
taper)  
Flushing holes must not be clogged.



##### Maintenance

Dismantle and clean the rock drill periodically. When doing this, parts subject to wear must be checked as per section titled "Component Parts, Maintenance Data".

##### Dismantling the Rock Drill

(Fold out exploded view at end of booklet)

Unscrew nuts 45 using spanner B  
Knock out side rods 44.

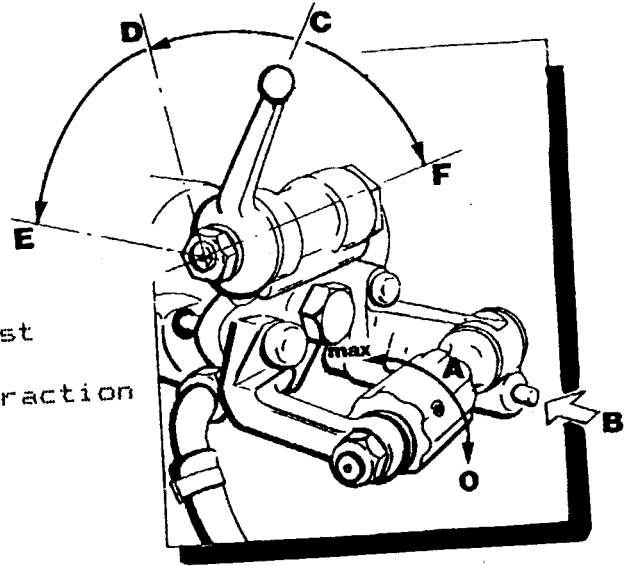
This level of dismantling is sufficient for normal service work. Hints on further dismantling are to be found in the section entitled "Component Parts, Maintenance Data".

##### Cleaning

Wash all parts thoroughly using naphtha.  
Blow all parts with compressed air and dry with a clean cloth.  
After cleaning, grease all parts well with non-resinous, acid-free grease.

EXEPTION: Valve plate 31, shim 32, and valve chest 30.  
These parts are only to be oiled.

## Operation



### Airleg:

- A Twist grip for airleg thrust
- B Push-button for airleg retraction

### Rock Drill lever:

- C Air and water closed
- D collaring - air on at reduced rate  
- water on
- E Air and water full on
- F Blow out drill hole (only possible with chuck item 122)

## 2. Air and Flushing Water

Compressed air must be dry and clean  
Inside diam of compressed air hoses must be at least 25 mm  
Blow air through compressed air hoses before connecting to rock drill.  
Inside diam of flushing water hoses must be at least 13 mm  
Flushing out flushing water hoses before connecting to rock drill  
Flushing water pressure must always be 0.5 bar lower than operating air pressure.

## 3. Lubrication

When operating the rock drill, the automatic lubricator PLO 20 or POB 15 must always be connected to the compressed air hose (the nearer to the rock drill the better).

Check that oil is emerging at the shank: The tool collar must be coated with oil. The necessary oil quantity must be set on the dregulating screw on the lubricator.

**IMPORTANT** The lubricator interrupts the air supply to the rock drill when it contains no more oil and/or when the compressed air hose between lubricator and rock drill has burst.

Care should be taken to select the correct grade of oil depending on local conditions. Recommended oils include the MOBIL ALMO and SHELL TORCULA series. following rock drill

## 2 LUBRICATING THE ROCK DRILL

When working, always fit the automatic line oiler PLO 20 or POB 15 in the compressed air feed line, at a maximum of 3-4 metres, (10-12ft), from the Rock Drill.

Check that oil oozes out of the chuck.

The tool collar must be covered with oil.

Adjust the quantity of oil required for this purpose by using the regulating screw on the line oiler.

NOTE The line oiler interrupts the air supply to the rock drill in the following cases:

- (a) When it does not contain any more oil.
- (b) When a leak occurs on the compressed air line between the line oiler and the rock drill.

Care should be taken to select the correct grade of oil depending on local conditions. Recommended oils include the MOBIL ALMO and SHELL TORCULA series.

## 3. TOOLS

### DRILL STEELS

The shanks must be clean and intact

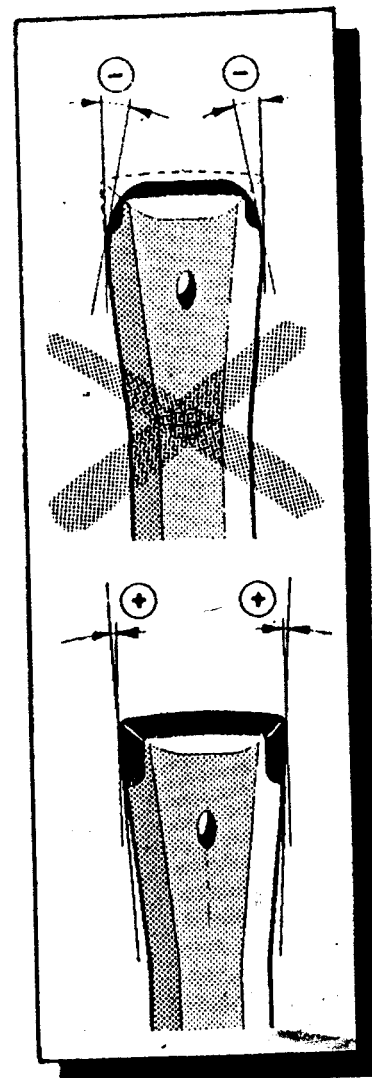
Impact surfaces must be flat and perfectly square to the axis of the drill steel

Flushing holes must not be clogged

### BITS

Must be properly ground  
(No counter taper)

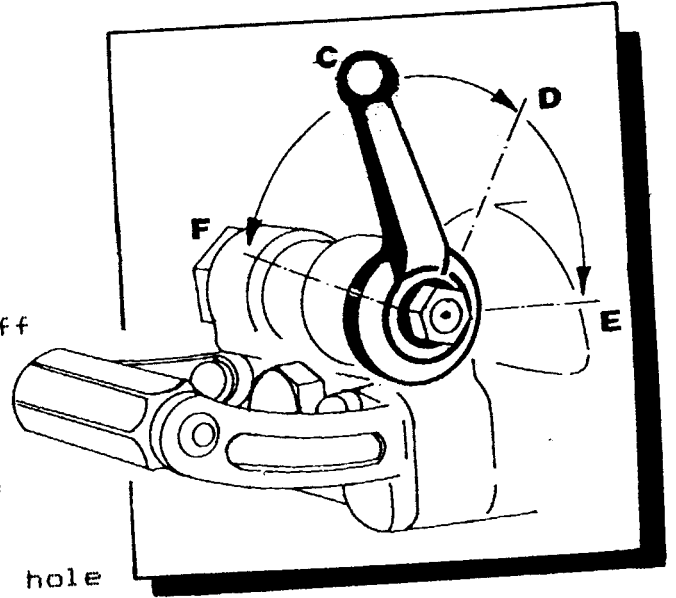
Flushing holes must be clean.



## OPERATION

### OPERATING POSITIONS

- |   |          |                                       |
|---|----------|---------------------------------------|
| C | AIR OFF  | Compressed air to rock drill shut off |
| D | WATER ON | Flushing water feed on.               |
| E | AIR ON   | Compressed air to rock drill on       |
| F | BLOW OUT | Blow out of drill hole                |



*NOTE* Position F is also the assembling position for changing the throttle valve and blowing out the water valve during maintenance.

### POINTS FOR PROPER OPERATION

1. GOOD AIR & WATER SUPPLY
2. ROCK DRILL LUBRICATION
3. GOOD CONDITION OF DRILL STEEL TOOLS

#### 1. GOOD AIR & FLUSHING WATER SUPPLY

Compressed air must be clean and dry

Internal diam of compressed air hose to be a minimum of 25mm

Blow out compressed air hoses BEFORE connecting to rockdrill

Internal diam of flushing water hose to be a minimum of 13mm

Flush out water hoses BEFORE connecting them to rock drill

Flushing water pressure must always be 0.5 bar lower than operating air pressure.

## READ THIS!

These instructions have been written to help you!  
Please read them carefully and observe the information they contain.

This will save you unnecessary work and expenditure on spares.

### PLB 24 DI SPECIFICATIONS

DIMENSIONS:	Weight	25 kg
	Length	650 mm
	Piston diameter	80 mm
	Piston stroke	60 mm
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CONNECTIONS:	Air	3/4" BSP
	Water	1/2" Hosetail
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DRIVE:	Optimum operating pressure	5 - 6 bar
	Air consumption at 6 bar	4.0 m <sup>3</sup> /min
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FLUSHING WATER:	Water pressure in all cases, to be at least 0.5 bar lower than operating air pressure.	
	Minimum throughput for 2.4m drill rod	8.8 litres/min
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TOOL CHUCKS:	Normal	7/8" x 108 mm
	Alternative	1" x 108 mm