



**SERVICE INSTRUCTIONS
SPARE PARTS LIST**

Pneumatic Rock Drills

PLB 24 DI ←

PLB 24 K

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

CONNECTIONS:	Air	3/4" BSP
	Water	1/2" Hosetail

DRIVE:	Optimum operating pressure	5 - 6 bar
	Air consumption at 6 bar	4.0 m ³ /min

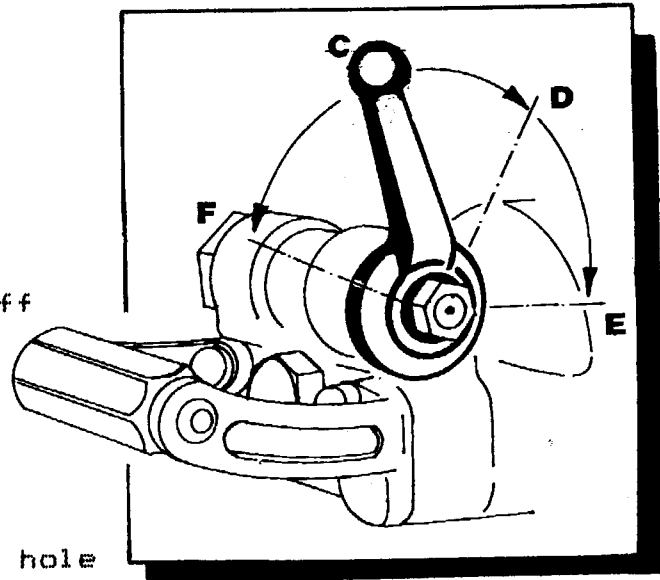
FLUSHING WATER:	Water pressure in all cases, to be at least 0.5 bar lower than operating air pressure.	
	Minimum throughput for 2.4m drill rod	8.8 litres/min

TOOL CHUCKS:	Normal	7/8" x 108 mm
	Alternative	1" x 108 mm

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.



SDS AUSMINCO

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ROCK DRILLS

SAFETY PRECAUTIONS

- **THE OPERATOR MUST ALWAYS WEAR APPROVED HARDHAT, SAFETY SHOES, SAFETY GLASSES AND EAR PROTECTION WHEN NEAR A DRILL IN OPERATION.**
- **When working with the drill, SURE AND FIRM FOOTING is NECESSARY.**
- **The Drill SHOULD NOT BE BROUGHT NEAR TO THE FACE**
- **NEVER PLACE THE DRILL ON YOUR FOOT.**
- **NEVER POINT THE DRILL AT CO-WORKERS or YOURSELF.**
- **The Drill SHOULD NEVER BE PUT INTO OPERATION if it is LYING ON THE GROUND or if it is NOT HELD SECURELY IN WORKING POSITION.**
- **COMPRESS AIR IS DANGEROUS! NEVER POINT A CONNECTED COMPRESSED AIR HOSE at Co-Workers of Yourself. AVOID THE HABIT of BLOWING YOUR CLOTHES FREE OF DUST with compressed air.**
- **Be sure that ALL HOSE CONNECTIONS ARE TIGHT AND SEALED. A loose hose not only causes loss of air, but DANGER EXISTS IF IT COMES COMPLETELY OFF THE DRILL and whips around injuring the operators and others in the area. SECURE HOSES WITH SAFETY CABLES OR ROPES to prevent danger of injury in case a hose is broken.**
- **SAFETY CLIPS MUST BE USED ON ALL COUPLINGS**
- **NEVER DISCONNECT A PRESSURIZED AIR HOSE. First shut off air at the compressor and bleed the drill.**
- **The Drill SHOULD ONLY BE OPERATED with a specially SUITABLE INSERTED DRILL ROD. Operate with sufficient pressure to avoid recoil. When the machine is UNDER PRESSURE, OILERS MAY NOT BE FILLED UP and TOOLS MAY NOT BE EXCHANGED.**
- **The Drill should ALWAYS BE HELD WITH BOTH HANDS during operation.**
- **The operator MUST HAVE A FIRM FOOTING. If possible, the Operators feet should be so placed OUT OF THE FALLING RANGE OF THE DRILL, but without the danger of losing balance. In the case of breakage of the drill rod, there is danger of sudden falling of drill with protruding and broken drill rod part.**
- **NEVER OPERATE DRILL ASTRIDE, i.e. with one leg over the handle. In the case of breakage of the inserted drill rod, serious injuries can result.**
- **Ensure that NO CABLES, PIPES and the like ARE IN THE AREA OF DRILL OPERATION. (Cables to include electric, gas, water and telephone).**
- **In the event of drill CONTACTING UNKNOWN OBJECTS during drilling, SWITCH OFF DRILL IMMEDIATELY. Identification of object(s) should be carried out by carefully uncovering with shovel, NOT WITH THE DRILL.**
- **In case a CLEANING SOLVENT IS USED FOR CLEANING DRILL PARTS, MAKE SURE THAT THIS MEETS THE CURRENT SAFETY AND HEALTH REGULATIONS and that it is used in a WELL-VENTILATED AREA.**



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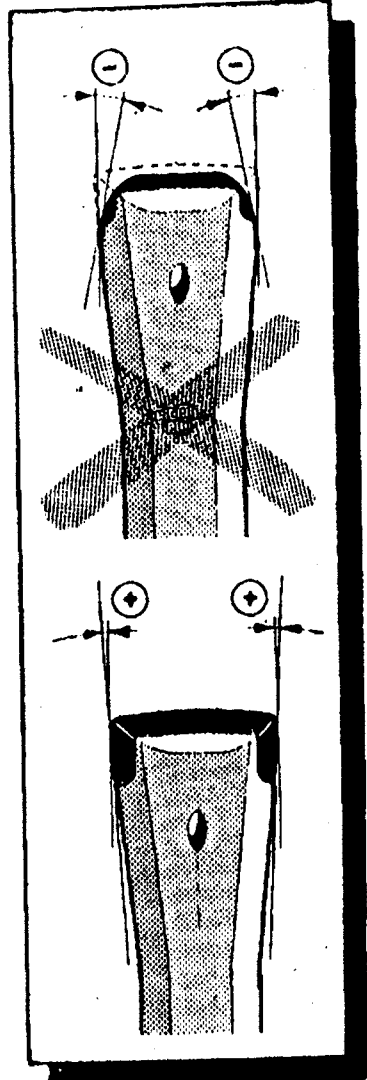
4. Drill Rods

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.

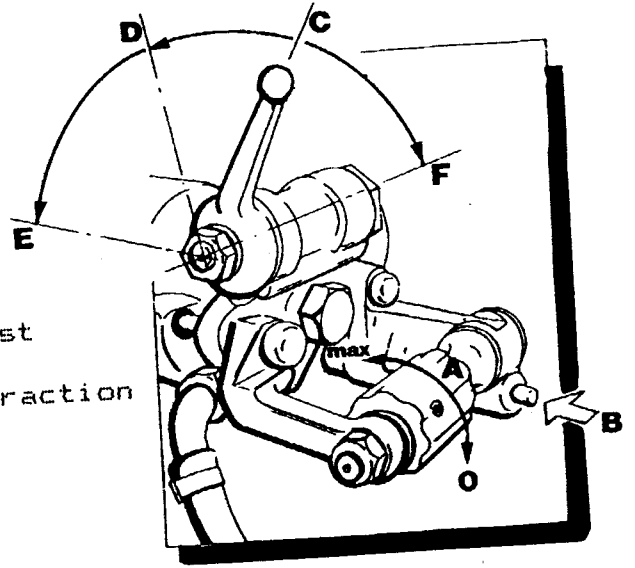
This level of dismantling is sufficient for normal service work. Hints on further dismantling are to be found in the section entitled "Component Parts, Maintenance Data".

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

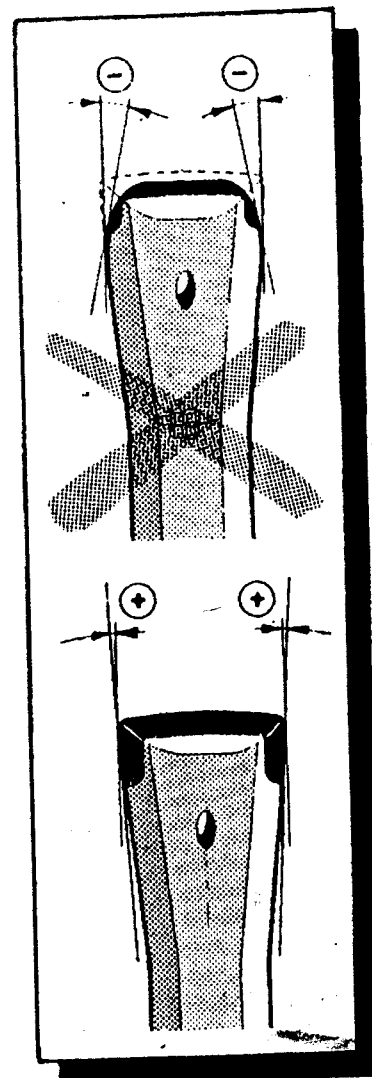
Impact surfaces must be flat and perfectly square to the axis of the drill steel

Flushing holes must not be clogged

BITS

Must be properly ground
(No counter taper)

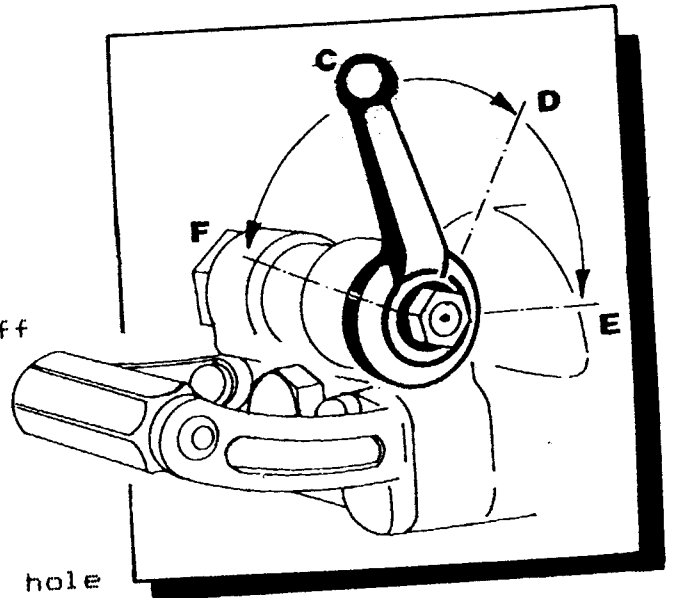
Flushing holes must be clean.



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