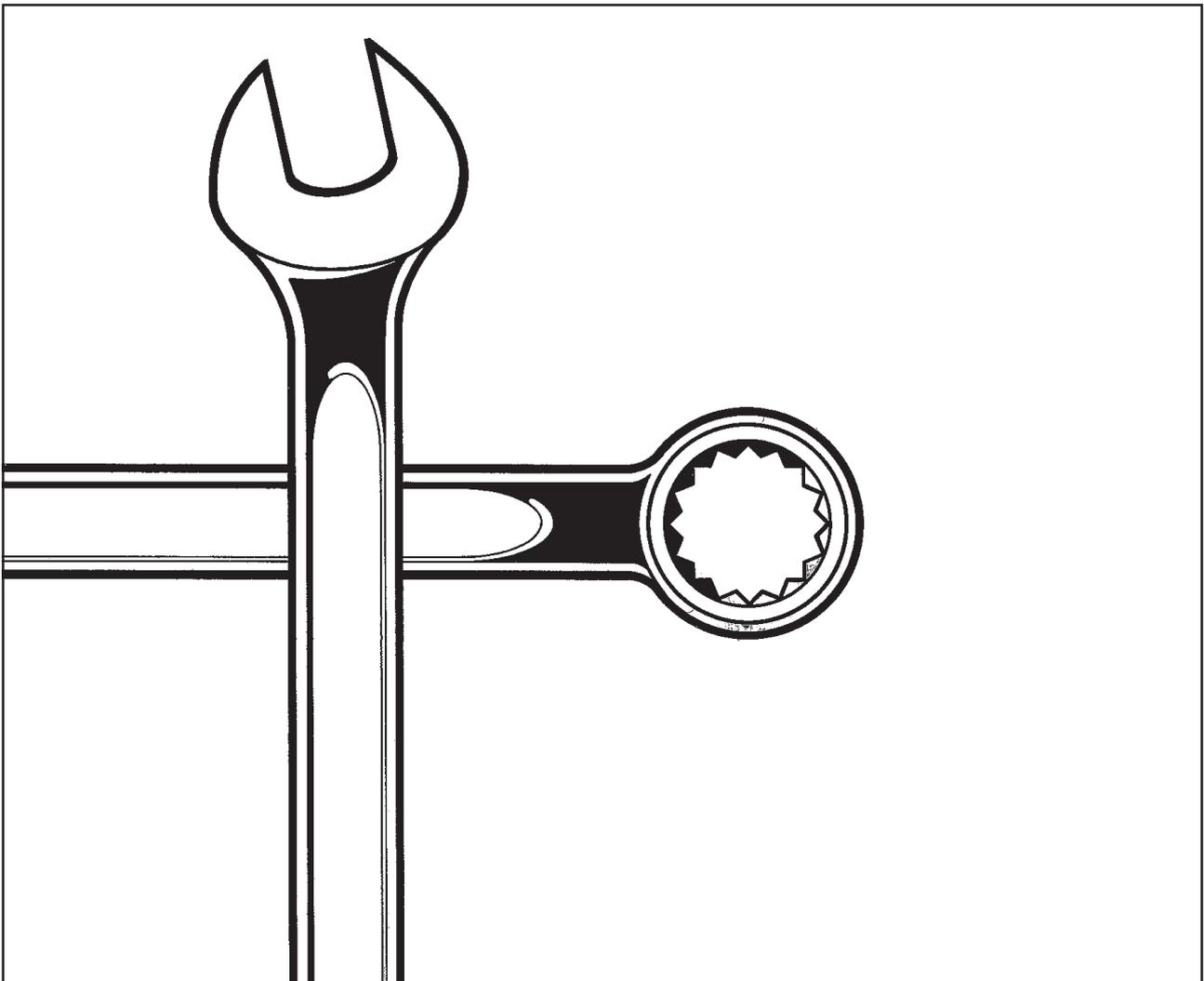


DYNAPAC CA134/144 WORKSHOP MANUAL

CONVERTING DRUM D TO PD

W3012EN1



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DYNAPAC

Vibratory roller CA134/144

Workshop Manual, Converting drum D to PD W3012EN1, February 2007

These instructions apply from:

CA134 PIN (S/N) *81270134*-

CA144 PIN (S/N) *83270144*-



CONTENTS

	Page
Fitting	3-6
Dismantling	6
Drawing (378960)	7
Tools, hexagonal socket wrench (385504)	8

WARNING SYMBOLS



Safety instructions — Personal safety



Special caution — Machine or component damage

GENERAL



Ensure that ventilation (extraction) is adequate if the engine is run indoors.

The machine must be cared for properly to ensure satisfactory operation. Keep the machine clean to facilitate quick and timely detection of any leakage, loose bolts and loose connections.

TAKE CARE OF THE ENVIRONMENT!

Do not leave behind any oil, fuel or other substances that are detrimental to the environment.

- 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 machine manufacturer and safety manual.

FITTING

Before modifying

Fitting must be done in a workshop environment, on a clean, level base and with lifting capabilities for at least 300 kg (660 lbs). Ensure at least 3 meters (120") of free space in front of the machine (see overleaf).



Make sure the drum is well cleaned outside.

Estimated time for this retrofitting is about 6 hours.

The following tools are required:

- Lift, at least 300 kg (660 lbs)
- Screw clamps
- Drilling machine
- Drill, 18 mm (3/4")
- Hexagonal socket wrench **385504**
- Torque wrench
- Socket wrenches

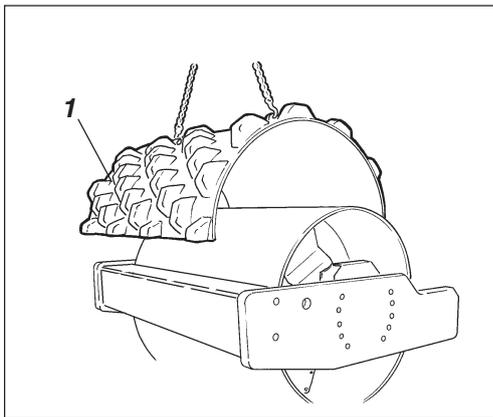


Fig. 1 Fitting the pad half
1. Pad half

Lift the first pad half (1) and place it on top of the drum. Align the pad half with the outer edges of the drum. Fix the pad half with screw clamps against the drum shell.



Keep well clear of the hoisted object.
Ensure that hoisting hooks are securely anchored.

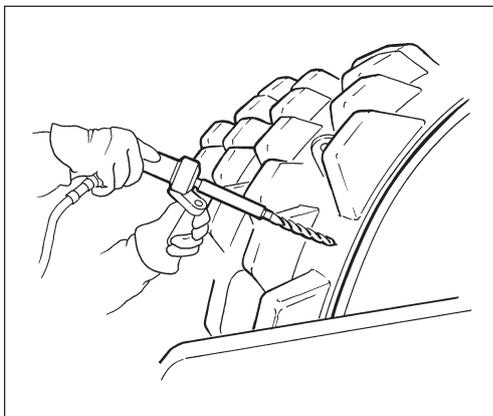


Fig. 2 Drilling through holes

Drill two 18 mm (3/4") holes through the pad shell and the drum shell. Use the two 8 mm pre-drilled holes as position guides.

FITTING

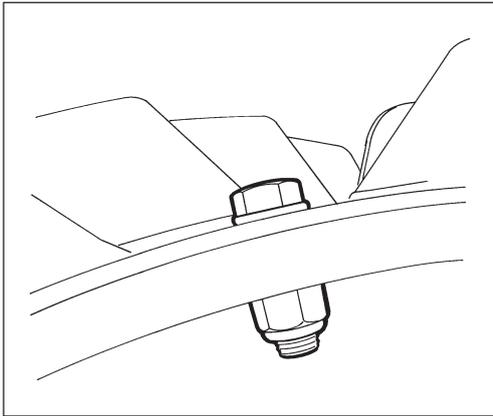


Fig. 3 Fitted M16x60 bolts

Fit the two M16x60 bolts (items 4, 5 and 6 in drawing **378960**).

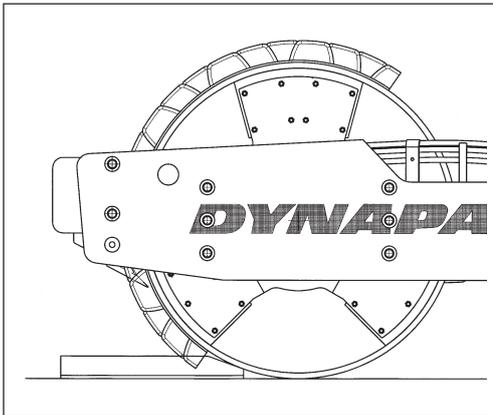


Fig. 4 Drum

Run the roller slowly forward until the drum is located with the first fitted drum shell at the bottom.

Two wooden joists 50x70 mm (2x3") with bevelled ends.

The space required for this operation is 3 meters (120"). The pad half nearest to the platform/cab must be about 100 mm (4") to the upper edge of the drum frame.



Make sure that no one is inside the working range of the machine when you drive it forward.

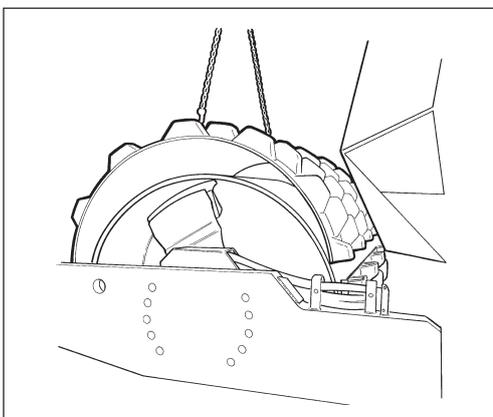


Fig. 5 Fitting the second pad half

Lift the second pad half in place and align it against the outer edges of the drum.



Keep well clear of the hoisted object. Ensure that hoisting hooks are securely anchored.

FITTING

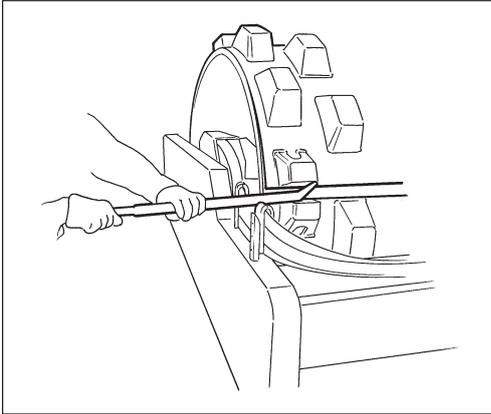


Fig. 6 Clearance between pad halves

Distribute the clearance between the pad shells. This is to ensure that the bolts fit properly.

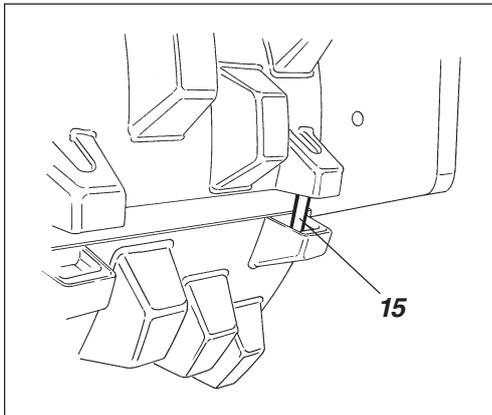


Fig. 7 Pad halves
15. Fitting bolts x4 (M16x150)

Lubricate the four fitting bolts (15) and fit them with the head upward in the outer positioned pads on both sides.

Tighten the two pad halves together. Ensure that the clearance is evenly distributed, about 25 mm (1"), between the halves when you tighten the bolts (use tool **385504** as a counter-support).

Drill two 18 mm (3/4") holes through the pad shell and the drum shell. Fit the two M16 bolts (M16x150).

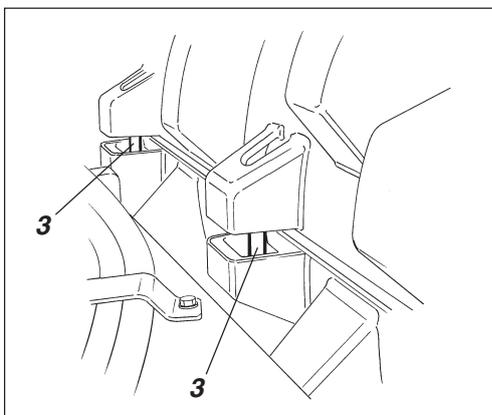


Fig. 8 Fitting the pad half
3. Bolts

Fit the two middle bolts (3) with the head upwards and torque-tighten them (item 3 in drawing **378960**). Then unscrew the outer fitting bolts and replace them with M16x90.

When all four bolts are torque-tightened according to drawing **378960**, reverse the machine half a turn of the drum to gain access to the second joint. Repeat according to the above.



Ensure that clearance is equal between the pad shells. Use tool **385504**.

Save the tool and the four tightening bolts for future use.

FITTING

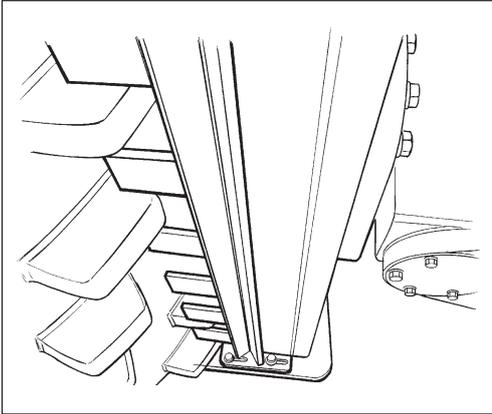


Fig. 9 Fitting the PD scraper

Fit the PD scraper **378523** (CA134), **391266** (CA144), (item 2 in drawing **378960**). Adjust the scraper to 25 mm (1 in) between the teeth and drum.



Keep well clear of the hoisted object. Ensure that hoisting hooks are securely anchored.

The pad shell is now fitted and the roller is ready for operation.



After a short test-run of about 1/2–1 hour, retighten all of the bolts that have been fitted, and again after another 4 hours of operation. This is necessary to compensate certain settling of the drum shell. If retightening is neglected, the shell may rotate on the drum and result in serious damage to the pad shell.

DISMANTLING

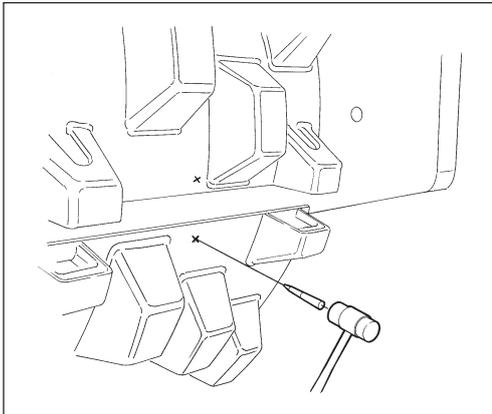
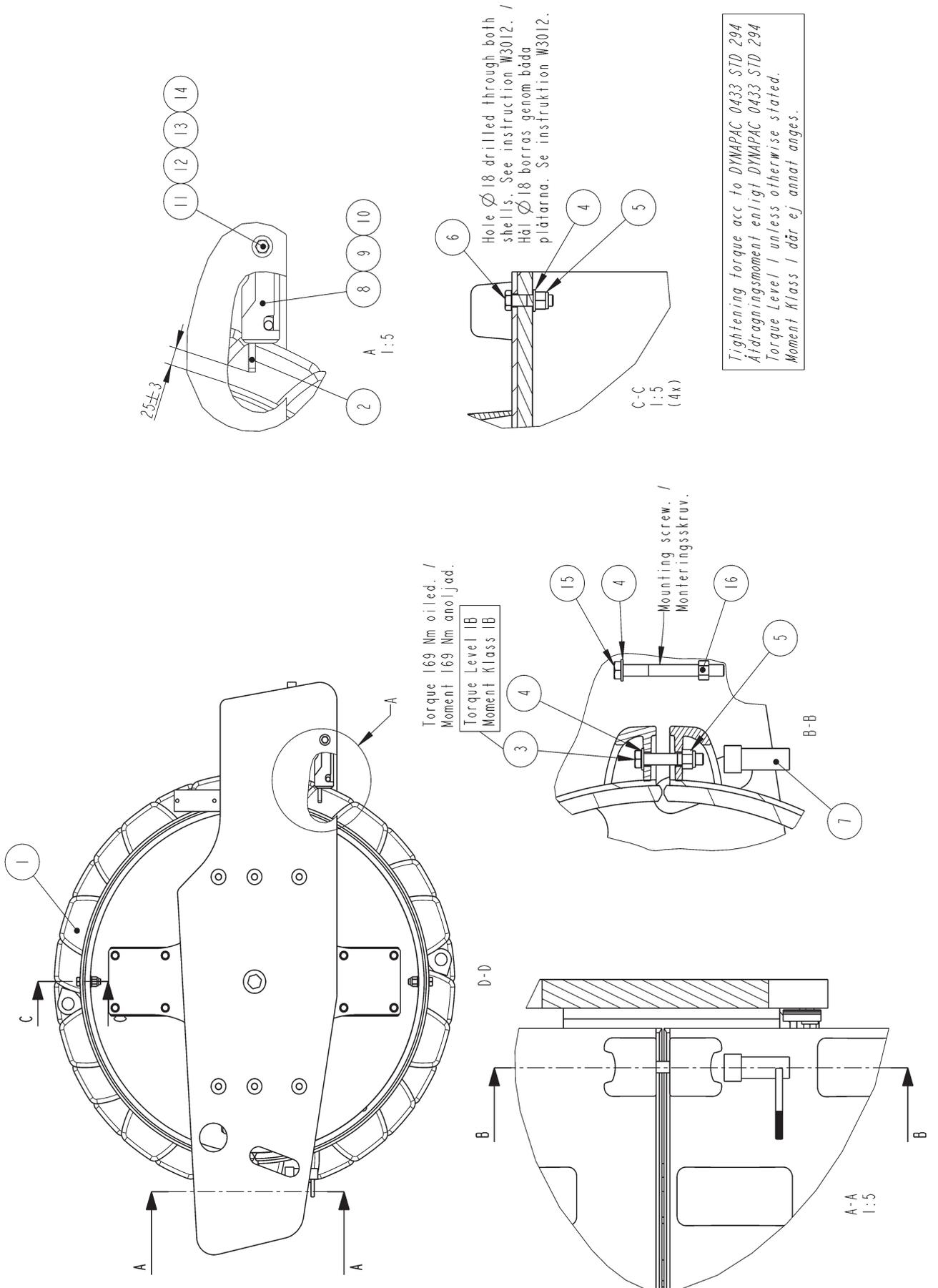


Fig. 10 Marking the pad halves

Before dismantling the pad shell, mark the halves in some permanent way to show how they are positioned in relation to each other.

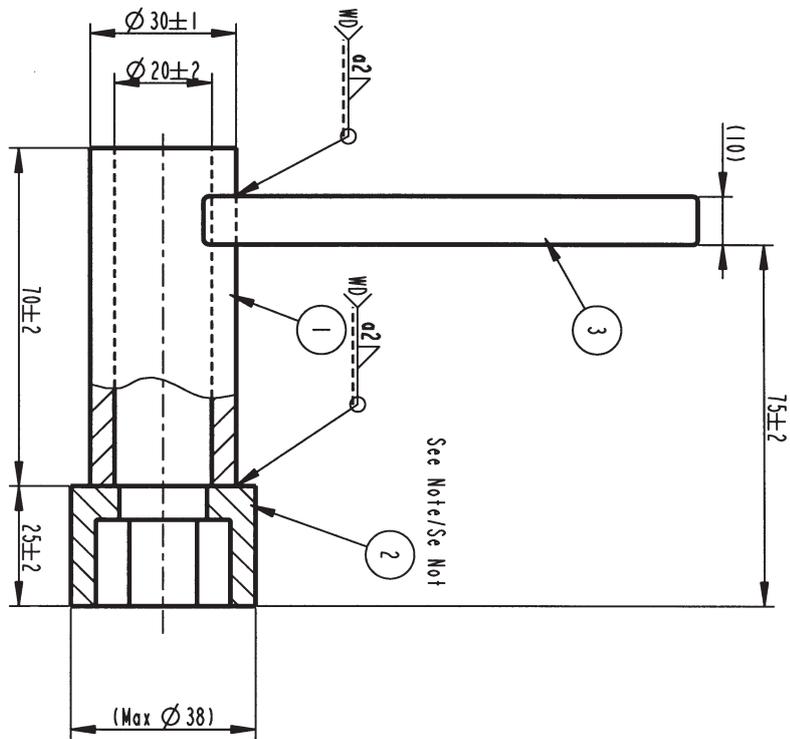
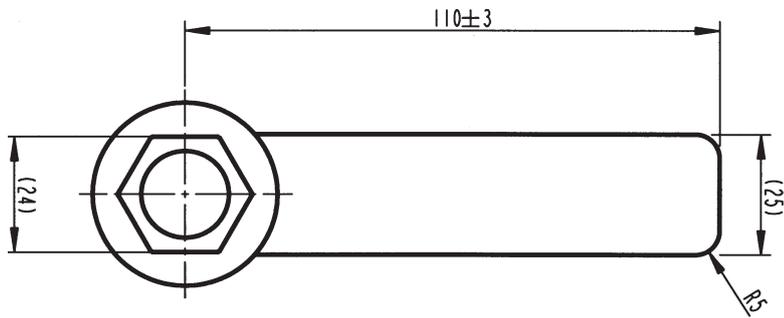
The hole pattern and any wear to the shell necessitate refitting the shell to its initial position.

DRAWING 378960



*Tightening torque acc to DYNAPAC 0433 STD 294
 Atdragningsmoment enligt DYNAPAC 0433 STD 294
 Torque Level 1 unless otherwise stated.
 Moment Klass 1 där ej annat anges.*

TOOLS, HEXAGONAL SOCKET WRENCH 385504



Note.
Item 2 cut to L=25 mm.
Internal hole min 18 mm.

Note.
Def. 2 kappad til L=25 mm.
Invendigt hol min 18 mm.

