

## Cargo Floor maintenance

### Introduction

Generally a Cargo Floor is designed and considered to be a low maintenance moving floor. There are, however, checks that should be performed annually. The first inspection should be by the first 10 loads/unloads since inception.

### Visual inspection

**Figure 1 shows the annual inspection points of the Cargo Floor unit:**

- Check all piping & cylinders for any visual leaks, sweating joints or signs of over pressurising
- Check carrier for loose bolts or cracked joints
- Check cylinders for visual wear of the chrome rod and seating blocks
- Check the coupling nuts and couplings of all hydraulic components and adjust if necessary
- Check for warped floor planks and loose or protruding holding screws. When receiving a new Cargo Floor unit the screw connection between the aluminium floor profiles and the Cargo Floor system needs to be inspected. This is done by placing your finger half on the screw and half on the floor profile when the floor is operating. If you feel movement in the screw connection then the screw should be removed, cleaned, fitted with Loctite and mounted again, or it must be replaced. One must not simply just tighten the screws as this will tear the Loctite. This check must be done after 10 loads / unloads and then after a month.

Specification of the screws: M12 x 30 countersunk screws with hexagon socket, Grade 10.9, galvanized and Dacromet coated. Tightening torque is 100-140Nm.

- Check for foreign objects fitted to threaded change over rod (see Figure 2). Note: When adjusting the threaded rod of the control valve it is important the steering valve is correctly adjusted and the switchover moment occurs according to the procedures. When in doubt rather contact a BPW representative
- Check the guide blocks of the three piston blocks for wear
- Check seals between planks for damage

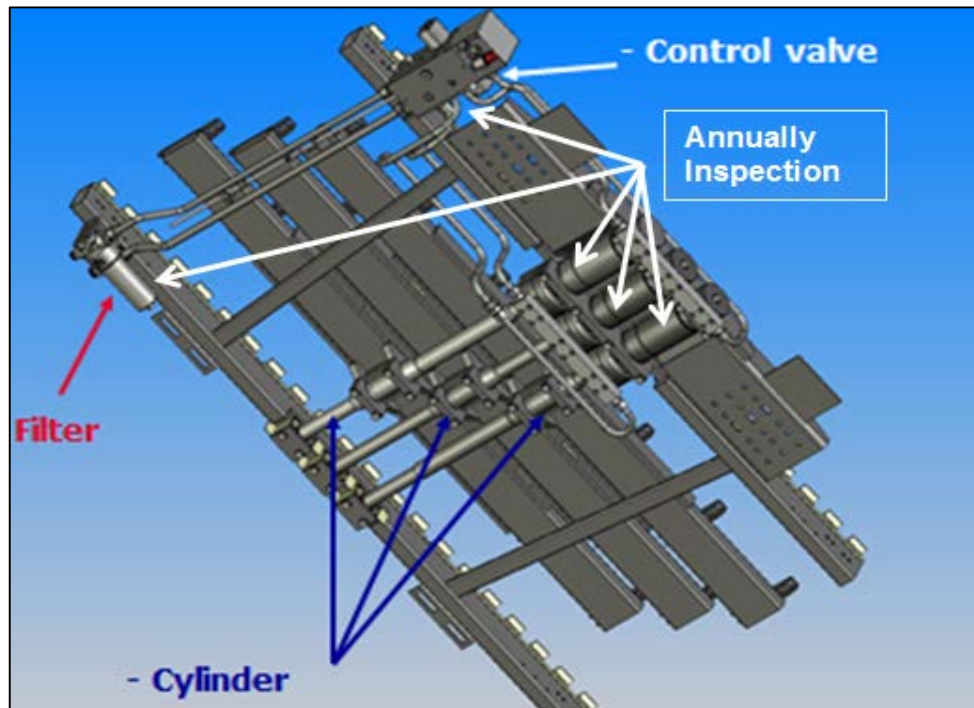


Figure 1: Inspection points of the Cargo Floor unit



Figure 2: Threaded rod no foreign objects

## Annual preventive maintenance

To ensure that the Cargo Floor unit operates reliably and has a long life, it is important that one regularly performs the following checks:

- Replace pressure filter with the correct Cargo Floor replacement filter annually, see Figure 3.

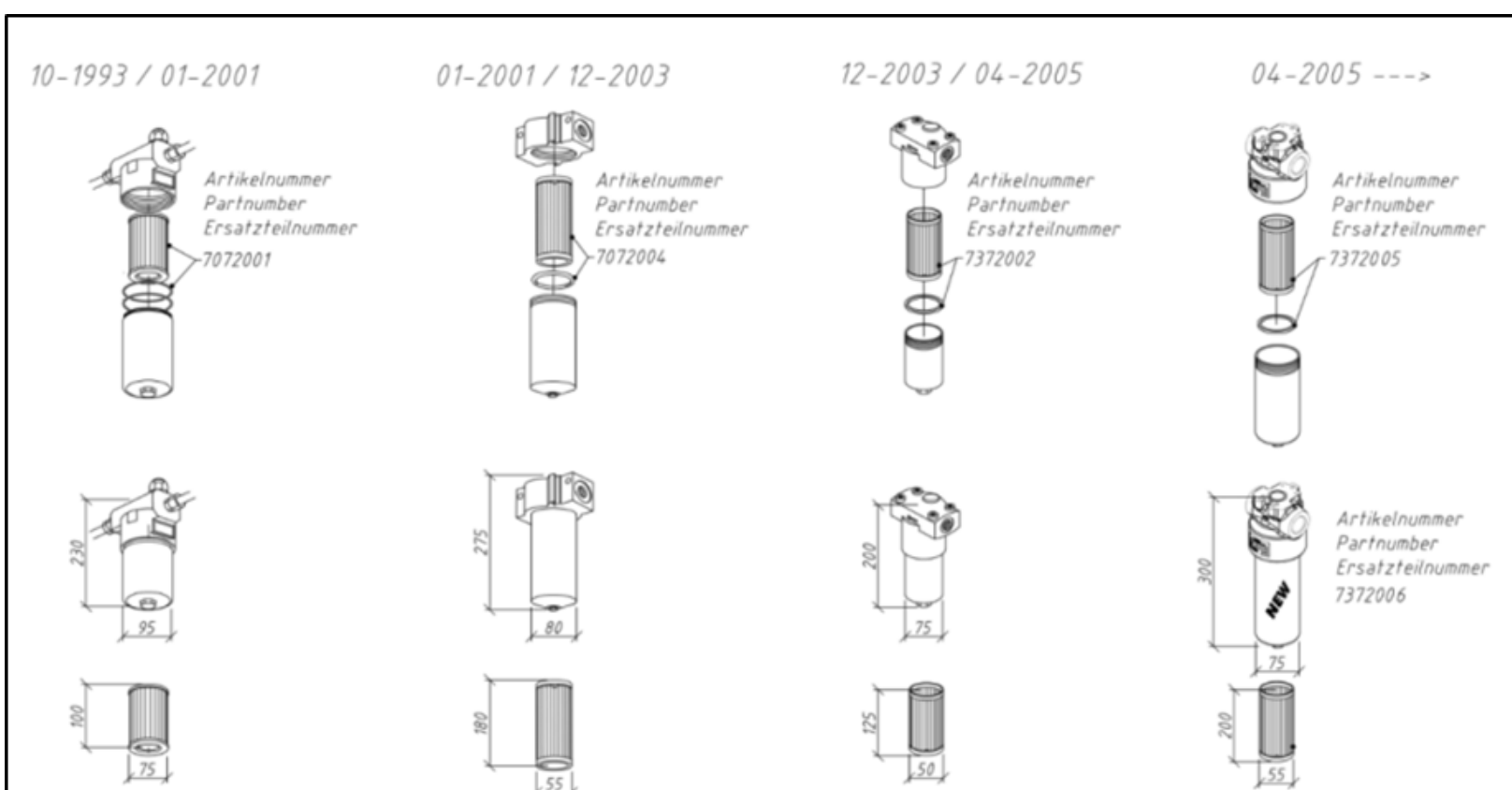


Figure 3: Filter diagram

- Check quality of oil every 6 months, especially on tractors used on various applications
- Replace oil (Shell T32 or equivalent) every 2 years or earlier if necessary, especially if overheating has occurred
- Oil level of 150L minimum should be maintained.
- Cautiously feel both pipes for excessive heat (max 70°C)
- Pressure check at M1 & M2 on change over valve to be tested annually, see Figure 4

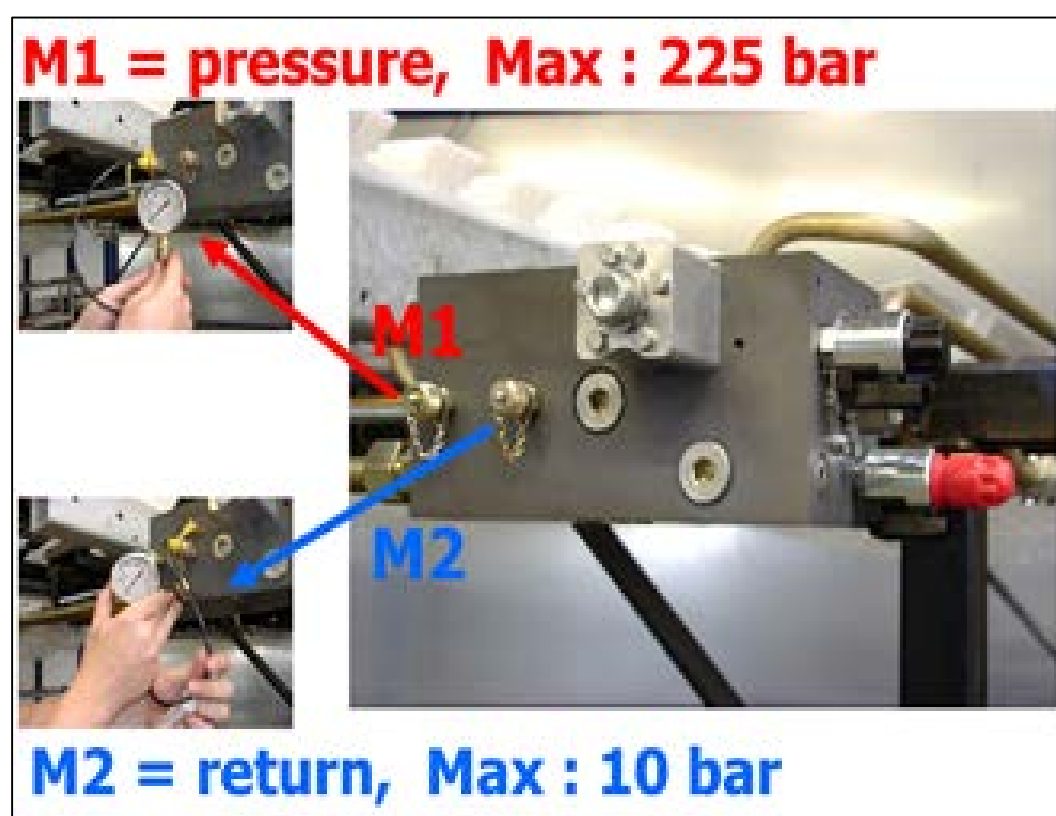


Figure 4: Measuring pressure on the changeover valve

- If the floor profiles are loose, the screws must be replaced
- Floor profiles can be pressure steam cleaned or a load of river sand can be unloaded to clean the profiles
- Disconnect both couplers, check for damage or wear and replace with the equivalent of the corresponding coupler (for example ball valve male & female couple) if necessary