

# HORNE SP-200A Sports Shower Panel

The Horne SP-200A is 100% factory tested to ensure correct flow and shut-off. However, occasionally customers experience problems with the shower running for a shorter duration than specified. It is expected that this is due dirt entering the flow control dashpot during commissioning.

## How it works:

Under normal conditions, water pressure pushes the piston to the top of the dashpot when the button is pressed. This simultaneously causes the shower to start running. When the button is released, a spring slowly pushes the piston back to the bottom of the dashpot to shut off the shower. The speed at which the piston travels is determined by the rate at which water can flow around the piston seal. The piston seal is a tight fit but there is also a small groove in the cylinder wall which allows water to pass slowly. In a fault condition, dirt can become lodged between the piston seal and the cylinder wall and cause a faster leak of water around the piston. This in turn causes the piston to travel faster and the shower flow to shut off sooner than expected.



Deal with this problem using the following instructions:-

Fig 2. Unscrew flow mechanism from unit using circlip pliers or similar.

Take great care to ensure that all the seals are retained and stored carefully for re-assembly.

Note that in addition to the seals shown in fig.3, there is a seal which adjoins sealing face 'A'. This tends to stay in the housing when the dashpot assembly is removed.

Dismantle dashpot assembly (exploded view shown in fig.3). Short flow duration is caused by dirt on and around the lip-seal 'B' causing an enlarged leak path around the piston. Therefore carefully clean this and the area around it, removing all small foreign particles. Then re-assemble the dashpot using a little silicon oil or water to lubricate.

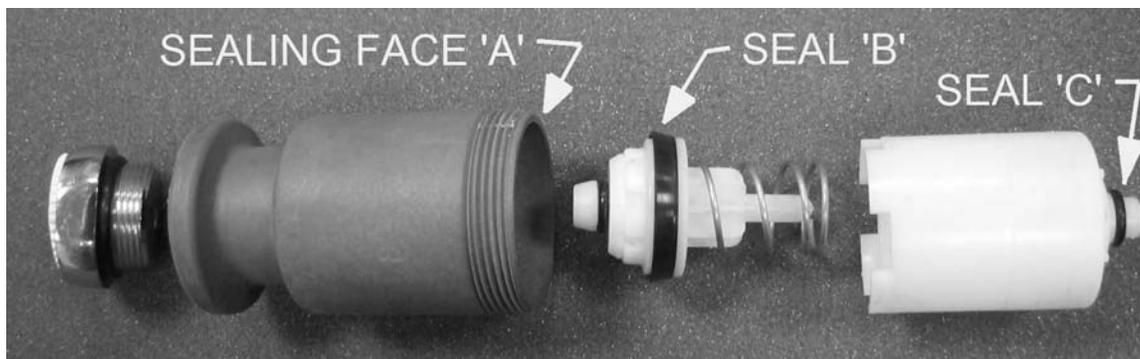


Fig 3. Timed flow control mechanism. When re-assembling, ensure that the piston can move freely in the cylinder. Lubricate sealing face 'A' and piston seal 'B' using a little silicon oil and re-assemble. Ensure that seal 'C' is present when the parts are dismantled and on re-assembly. Occasionally it can fall into the shower panel on dismantling.