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GDS Helpsheet



*World Leaders in Computer Controlled Testing
Systems for Geotechnical Engineers and Geologists*

Hardware

Advanced Controller – High Pressure

Ballscrew and Gearbox Alignment

1. Introduction

The ballscrew and gearbox are connected by a 'dog tooth' connection (fig. 1). Disconnect the ballscrew from the gearbox by removing the pin and separating the parts.

Loosen screws 'A' Put the ballscrew in the position shown in fig. 2 - i.e. in the 'full' position. Wind the screw in two rotations. Tighten screws 'A' simultaneously - do not tighten one screw completely and then the next but all screws a little at a time together.

In any position of the ballscrew between the extremes shown in fig. 1 and fig. 2 you should be able to push the dog tooth connection together as follows. Position the dog tooth connection vertically (ballscrew and gearbox - you may need to run the motor to position the gearbox), the connection should slide together easily without forcing the ballscrew to bend. If this does not occur then put the ballscrew in the empty position (fig. 3), align the dog tooth vertically, release screws 'B' and push the two parts of the dog tooth together, you can then re-tighten screws 'B'. Then check that the connection is aligned at all other positions.