



## Manual Fail-Safe spring torque adjustment – Female output.

The procedure detailed below is applicable to any Kinetrol manual spring unit with a female output drive with part numbers listed below: (where \* can be either 1,3,7,9, - or F)

05\*\*020-1006      05\*\*020-1006/F4      05\*\*020-1016      05\*\*020-1016/F4

The models listed above all have a CLOCKWISE spring action when viewed from the top. For COUNTER-CLOCKWISE models, the codes are 030 (e.g. 053F020-1006 becomes 053F030-1006), and the travel directions shown in the illustrations below are reversed.

### Procedure:

1. Mount manual spring return on bracket (SP 836) with two M5 x 12, or M8 x 16 screws and secure bracket in bench vice as shown in figure 1.

Figure 1



Figure 2



2. Insert handle (SP 837) to the female square of the manual unit as shown in figure 2.
3. Pulling handle off stop to relieve spring pressure remove screw, cover & manual unit handle, whilst maintaining pulling force on tensioned handle as shown in figure 3.  
**(It is hazardous to release the tensioned handle!)**

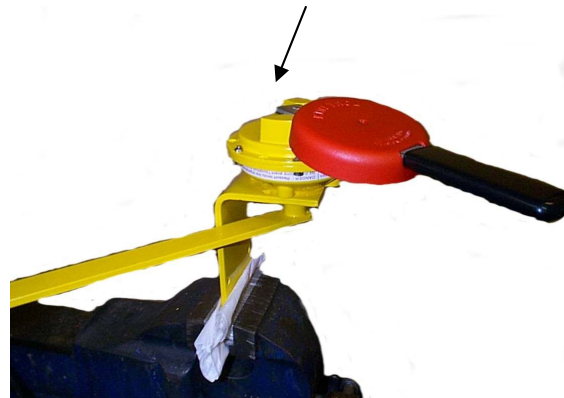
Figure 3

Remove screw, cover and handle only whilst maintaining force on tensioned handle.



Figure 4

Refit handle, cover and screw



4. Whilst maintaining pressure on handle, allow handle to rotate and unwind about ¼ turn (90°) in spring direction then refit the manual unit handle, cover and screw as shown in figure 4.
5. Check lever torque is satisfactory then remove assembly from bracket. If a further reduction in torque is necessary repeat the procedure.

Issue C	Signed T.L.	Date 15/10/13	<b>KINETROL</b> Trading Estate Farnham Surrey England	Doc. No. TD126 Page 1 of 1
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