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](image1.png)

   ![Figure 2](image2.png)

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](image3.png)

   ![Figure 4](image4.png)

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

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.