

Setting Up A Bowler

For the purposes of identification, the rear of the Pan & Tilt head is the face containing the flying lead. When viewed from the top, anti-clockwise movement is left, and clockwise movement is right.

The Bowler Pan & Tilt Head is fitted with external pan and tilt limit stops. (continuous rotation is on the tilt only). These stops actuate an internal micro switch via a pivoting pin. This system provides an accurate and simple method of limit stops which are extremely easy to set. It is not necessary to power down or gain access to the internal mechanism of the pan & tilt head to set up the limit stops

To set both pan and tilt limit stops, the following procedures need to be followed.

To set the panning angle of travel (Non continuous rotation)

Drive the pan & tilt head to the extreme left hand position required. Slide the top actuator spring until it engages and actuates the micro switch pin. This limit is now set. Now drive the pan & tilt unit to the extreme right hand position required. Adjust the bottom actuator spring until it engages and actuates the micro switch pin. This limit is now set. Drive the pan & tilt unit to the extreme limits of travel in both directions and check operation of the limit switches. Re-adjust if required.

To set the tilt angle of travel (all models)

Drive the pan & tilt head to the upper-most position required. Slide the rear actuator spring until it engages and actuates the micro switch pin. This limit is now set. Drive the unit to the lowest point required and slide the front actuator spring until it engages and actuates the micro switch pin. This limit is now set.

Drive the pan & tilt unit to the extreme limits of travel in both directions and check operation of the limit switches. Re-adjust if required.

*** The actuator pins are designed to slip in one direction more easily than the other. Observe this characteristic and ensure that the limits are operated in the direction that tightens the spring on the shaft.**

MAD Ltd

Bowler Range of Pan & Tilt Heads

User Manual

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