Coin slot Zero Set (Stop) Mechanism – Prevention of Turret Binding and Proper Use

Below explains the operating principle of the zero set (=stop) mechanism of March Scopes and important precautions for proper use. Correct handling is essential to prevent turret binding and ensure long-term reliability.

Typical Causes of Turret Binding

- Applying excessive torque to the Set Dial during zero set adjustment.
- Continuing to rotate the dial in the downward direction even after it has reached the zero set position.

Operating Principle of the Zero Set (=Stop) Mechanism

The zero set mechanism operates by axially pressing internal components against each other within the turret assembly, thereby preventing further rotation of the dial. It does not function by mechanical collision of parts in the rotational direction. As a result, even after the set position has been reached, it is structurally possible to continue tightening the Set Dial or Elevation Dial with excessive force. In this condition, internal components may be pressed together beyond their intended limit, creating excessive preload between parts and potentially causing binding or seizure.

Precautions for Using the Zero Set Mechanism

When tightening the Set Dial, internal components will eventually make contact and stop further movement. Once this set is reached, do not apply additional force. In addition, when rotating the dial in the downward direction with the zero set, increased resistance may be felt near the zero set position. Although the mechanism does not provide a distinct hard stop, the dial should not be forced beyond this point. For this reason, it is recommended to set the zero set position with a margin of at least several clicks above the mechanical end of travel of the dial. This helps prevent excessive mechanical stress and ensures smooth operation and long-term durability.

Thank you for choosing March Scopes. We appreciate your continued support and recommend following the above precautions to ensure reliable operation and long service life.