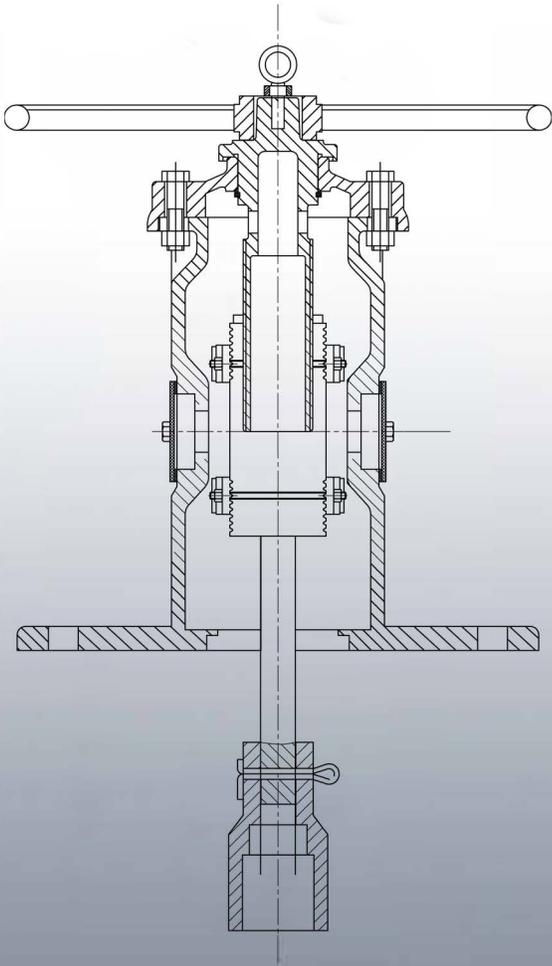


Century



Model W540
Wall Post Indicator
Installation and Maintenance Manual



2
0
2
5

Century

Operation and installation manual for Century Wall Post Indicator Model W540

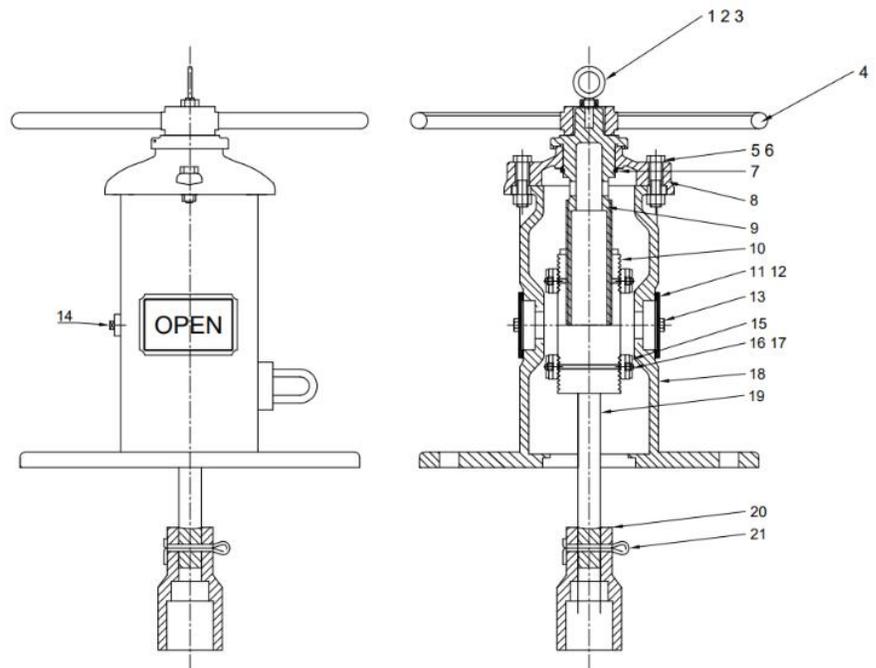
This document is an inspection, installation, and maintenance manual for the Century Wall Post Indicator Model W540. It details the Wall Post components and proper installation procedures to ensure longevity and functionality. The manual also provides step-by-step instructions for inspection, operation, and routine maintenance.

Emphasis is placed on safety precautions during all procedures; this will ensure reliable operation and the longevity of the equipment.

Components:

The Century Wall Post Indicator Model W540 is made of various high-quality parts.

Item	Name
1	Eye Bolt
2	Hex Nut
3	Washer
4	Handwheel
5	Hex Cap Screw
6	Square Nut
7	Snap Ring
8	Cover
9	Operating Nut
10	Target Carrier Nut
11	Window Glass
12	Gasket
13	Hex Nut
14	Plug
15	Target
16	Hex Cap Screw
17	Hex Nut
18	Body
19	Stem
20	Crane Coupling
21	Cotter Pin



PRE-INSTALLATION INSPECTION

1. Proper Storage:

If storage is required, keep the Wall Post Indicator in a cool, dry environment. Before installation, re-inspect the unit to verify that its condition has not changed.

2. Inspect for Shipping Damage

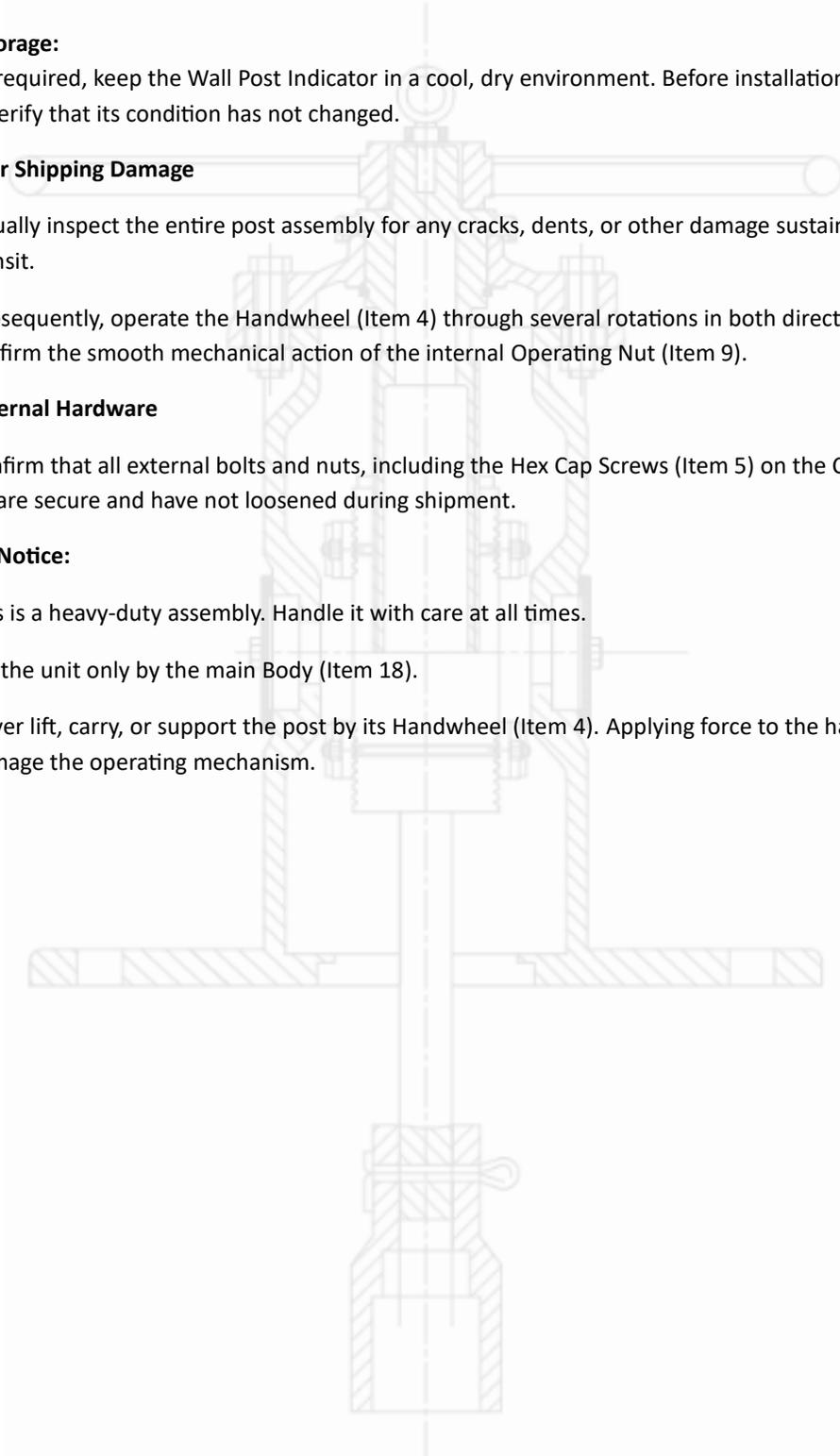
- Visually inspect the entire post assembly for any cracks, dents, or other damage sustained during transit.
- Subsequently, operate the Handwheel (Item 4) through several rotations in both directions to confirm the smooth mechanical action of the internal Operating Nut (Item 9).

3. Verify External Hardware

- Confirm that all external bolts and nuts, including the Hex Cap Screws (Item 5) on the Cover (Item 8), are secure and have not loosened during shipment.

4. Handling Notice:

- This is a heavy-duty assembly. Handle it with care at all times.
- Lift the unit only by the main Body (Item 18).
- Never lift, carry, or support the post by its Handwheel (Item 4). Applying force to the handwheel can damage the operating mechanism.



INSTALLATION GUIDELINES

CRITICAL NOTE: Before beginning the installation, ensure the associated non-rising stem gate valve is in the FULLY OPEN position.

1. Create the Wall-Through Hole

- Make a clearance hole through the mounting wall that is a minimum of 4.7 inches (120mm) and a maximum of 7.1 inches (180mm) in diameter.
- This hole must be concentric with the 2-inch square operating nut of the NRS gate valve.
- Recommendation: A 4-inch (114.3mm OD) pipe sleeve can be used to line the hole. This sleeve will fit snugly into the machined recess on the flange of the wall post Body (Item 18).

2. Drill the Mounting Holes

- Using the post's flange as a template or the specified 10.5-inch (267mm) bolt circle, drill four (4) mounting holes through the wall using a 3/4-inch (19mm) drill bit.

3. Mount the Wall Post Body

- Securely bolt the flange of the Body (Item 18) to the wall using four (4) appropriately sized bolts and anchors (to be provided by the customer).

4. Remove the Cover

- With the Body (Item 18) now securely mounted, remove the two Hex Cap Screws (Item 5) and Square Nuts (Item 6).
- Carefully slide the Cover (Item 8) off the body to expose the internal mechanism.

5. Insert and Measure the Stem Assembly

- Assemble the Stem (Item 19), Crane Coupling (Item 20), and Cotter Pin (Item 21).
- Slide this assembly through the body and the wall until the Crane Coupling (Item 20) fully engages with the operating nut of the NRS gate valve.
- With the coupling fully engaged, make a clear mark on the Stem (Item 19) at a point that is between 1.25 inches (32mm) below and 2 inches (50mm) above the top surface of the wall post body.

6. Cut the Stem Rod

- Remove the stem assembly. Carefully and squarely cut the Stem (Item 19) at the mark made in the previous step. De-burr the cut end to ensure smooth operation.

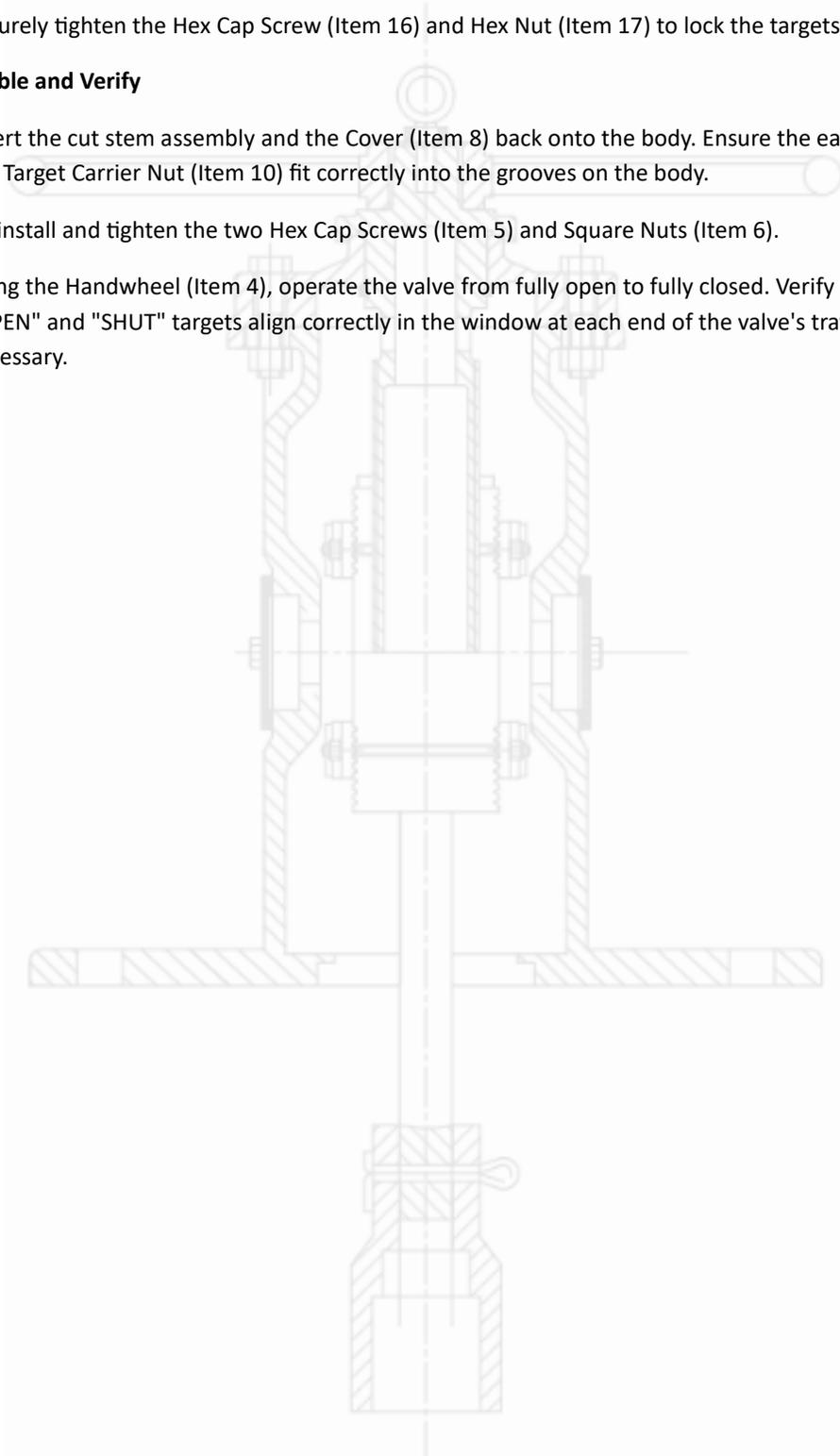
7. Adjust the Target Plates

- Loosen the Hex Cap Screw (Item 16) and Hex Nut (Item 17) that secure the Target (Item 15) plates.
- With the NRS gate valve still in the FULLY OPEN position, slide the "OPEN" target plate until it is perfectly centered in the Window Glass (Item 11).

- Manually close the NRS gate valve completely. Slide the "SHUT" target plate until it is centered in the window.
- Securely tighten the Hex Cap Screw (Item 16) and Hex Nut (Item 17) to lock the targets in place.

8. Re-assemble and Verify

- Insert the cut stem assembly and the Cover (Item 8) back onto the body. Ensure the ears on the Target Carrier Nut (Item 10) fit correctly into the grooves on the body.
- Re-install and tighten the two Hex Cap Screws (Item 5) and Square Nuts (Item 6).
- Using the Handwheel (Item 4), operate the valve from fully open to fully closed. Verify that the "OPEN" and "SHUT" targets align correctly in the window at each end of the valve's travel. Adjust if necessary.



OPERATING INSTRUCTIONS

Opening Procedure:

To open the valve, rotate the Handwheel (Item 4) counterclockwise until it reaches a firm mechanical stop and the visual indicator clearly reads 'OPEN'. It is recommended to then turn the handwheel clockwise approximately one-half turn. This practice prevents thermal binding of the Stem (Item 19) and eases future operation.

Closing Procedure:

To close the valve, rotate the Handwheel (Item 4) clockwise until it reaches a firm mechanical stop and the visual indicator clearly reads 'SHUT'.

Operational and Safety Notices:

- **Prohibited Practices:** Never use extension bars ("cheater bars") or other leverage devices on the handwheel. Applying excessive force can damage the post mechanism, operating Stem (Item 19), and internal valve components, and will void the product warranty.
- **On/Off Service Only:** This indicator post operates an NRS gate valve, which is intended exclusively for on/off service. It must be used only in the fully open or fully closed position. Do not use this device to regulate or throttle flow, as this will cause severe damage to the gate valve's wedge and seats.
- **Visual Verification:** Always confirm the valve's status by checking the visual indicator window after operation.

MAINTENANCE

Lubrication:

At least once a year, apply several drops of oil to the bearing through the oil hole located on top of the Operating Nut (Item 9). This ensures smooth operation and protects against corrosion.

By following these guidelines, your Century Wall Indicator Post will provide long-term, reliable service. Please contact us at sales@centuryvalves.com for all your valves and hydrant needs.