

## INSTALLATION AND MAINTENANCE OF HMI SERIES CLOCK MOVEMENTS

### GENERAL

The HMI series clock movements are manufactured to job requirements. They may be mounted behind metal, plastic or wood dials, through walls to 24". For a typical rear illuminated application, 3" extension shafts are provided to eliminate mechanism shadows. Custom shaft length or configurations are also made to order.

### INSTALLATION OF CENTER MOUNT (CM) CLOCK MOVEMENT

Provide a straight 1" diameter hole through the center of the clock dial. Remove front nut, metal washer and rubber washer. A mounting platform 1.5" below center is recommended to keep the movement level. **Shafts must be level and/or perpendicular to dial face.**

### INSTALLATION REAR ILLUMINATED CLOCK MOVEMENT

Same as above, except before installing movement add a nut, metal washer and then the rubber washer. Slide unit into the hole so the rubber washer is against the rear of the glass or acrylic dial. Add the rubber washer, metal washer and the nut to the front of the dial and tighten. **Shafts must be level and/or perpendicular to dial face.**

### INSTALLATION FOR FRONT MOUNTED (FM) CLOCK MOVEMENT

Install 11 1/2" wide x 8" high x 7 1/2" deep wall box square and level flush to wall face. Secure movement to the front plate. Remove gear box cover plate, pour oil (4 ounces max.) into reservoir and replace cover. Connect wiring harness and screw front plate to the wall box. For exterior applications, apply sealant around perimeter of front plate. **Shafts must be level and/or perpendicular to dial/wall face.**

Note: The front plate and mounting hardware are supplied in a primed finish for painting color of wall surface or something other than the hand color for contrast visibility.

### INSTALLATION OF BULLETIN MOUNT CLOCK MOVEMENT

Provide a straight 1 1/8" diameter hole through the center of the clock dial. Provide two 1/4" holes located 3/4" above clock dial center and 1 1/4" to each side of center. (Refer to drawing # 6451A) If face is too thin, reinforce with 16 gauge aluminum plate. Remove mounting nuts from threaded studs and insert clock movement through the holes. With movement level against wall, install the front plate on face of dial and clamp in place using the 2 nuts provided. **Shafts must be level and/or perpendicular to dial face.**

### INSTALLATION OF THROUGH WALL CLOCK MOVEMENT

Provide a straight 1 1/8" diameter hole through the wall. Slide shafts through the hole and reinstall hardware as shown in data sheet C-450. A mounting platform 1.5" below center is recommended to keep the movement level. **Shafts must be level and/or perpendicular to dial face.**

## **INSTALLATION OF HANDS**

**Hour Hand** – Back off the 2 set screws in the hand bushing. Slide the hand on the hour shaft and point to the 12:00 position. Insure the rear side of hand is not making contact with the center bushing. Tighten both set screws.

Remove safety screw at tip of minute shaft if provided.

**Minute Hand** (When minute shaft end is not threaded):

Minute hands under 23” long from the center to the tip have a bushing similar to the hour hand bushing. Slide the hand on the shaft and point hand to the 12:00 position and tighten both set screws. Verify clearance between hands and any elevated markers. Reinstall safety screw in tip of minute shaft.

**Minute Hand** (When minute shaft end is threaded):

Thread minute hand rear nut with knurled face outward on to the minute shaft as far as it will go. Tighten 2 setscrews into the shaft, locking nut into place. Slide minute hand on shaft and point to the 12:00 position. Back off set screw in the front nut and thread nut onto the minute shaft. Hold hand in place and tighten 7/8” nut securely. Drive in set screw tight against hand face. Verify clearance between hands and any elevated markers. Reinstall safety screw in tip of minute shaft.

## **WIRING AND START-UP**

Refer to wiring diagrams supplied for the type of clock control provided and the initial starting sequence from the 12:00 position. We recommend that the clock controller be put on their own electrical circuit.

## **SERVICE**

Contact the factory for service or assistance.  
Phone 1-800-326-8456

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