

### 3MR / 3MI / 3MR-FM CLOCK MECHANISM INSTALLATION

#### GENERAL:

The 3MR Series clock mechanisms are resettable electrically from a remote location via a manual reset switch or automatic clock controller. Resetting is accomplished by means of a reversible motor and gear reduction to speed the mechanism up 10 time's normal speed. The 3MI Series Minute Impulse Clock mechanism must utilize a clock controller for operation.

#### INSTALLATION FOR STANDARD 3M SERIES CLOCK MECHANISMS:

It is recommended that a support shelf be installed 2" below center for support and prevent the mechanism from rotation. Provide a 5/8" diameter hole through center of clock dial material. Remove front nut, metal washer and rubber washer from the center bushing of the mechanism. Slide movement through the hole and reinstall washers and nut. Adjust nuts so the dial is in the center of the threads and tighten the front nut securely. **Shafts must be level and/or perpendicular to dial face and hands parallel to the dial fascia.**

#### INSTALLATION FOR THROUGH WALL 3M SERIES CLOCK MECHANISMS:

Provide a 3/4" minimum hole through wall for extension shaft clearance. Only one nut, washer and rubber washer are used. Slide movement through the hole and reinstall washers and nut. Shim mechanism between wall and housing to achieve desired position and tighten nut. **Confirm shafts are level and perpendicular to dial face. Adjust shims or mechanism position as necessary.**

#### INSTALLATION FOR FRONT MOUNTED CLOCK MECHANISM:

Install and secure the box so the mounting holes are horizontally level and flush to the wall. Secure the clock movement to the plate in a square position to the mounting holes. A connection plug is supplied for ease of installation and service. Wire unit per supplied diagram. Secure the plate and movement assembly to the wall box.

**Note:** Unless otherwise noted or coordinated with the factory, the front plate and mounting screws are typically supplied with a prime finish for painting the color of the wall fascia or other to contrast with the hand color.

#### WIRING:

We recommend that the clock(s) be put on their own electrical circuit, separate from lighting and all other accessories. Refer to wiring diagrams supplied for the type of clock control provided and the initial time setting sequence from the 12:00 position.

#### INSTALLATION OF HANDS:

Back off 2 set screws in the hour hand bushing. Slide hand over the hour hand shaft, center on shaft, point up to the 12 and tighten screws firmly. Do not over tighten them as the brass tubular hour shaft can collapse slightly resulting in resistance or even binding with the minute shaft within causing premature wear or failure. Position the minute hand pointing to the 12 and secure. Check for adequate clearance of the hands and dials.

#### MAINTENANCE & LUBRICATION:

None specifically required.