

4MI, 4MI-EX & 4MI-FM CLOCK MOVEMENT INSTALLATION

GENERAL :

The standard 4MI Series clock movement may be mounted behind metal, wood or acrylic dials with a maximum thickness of 1". The 4MI-EX Series is supplied with extended shafts for illuminated dials or for through-the-wall mounting with a maximum wall thickness of 24". The 4MI-FM Series is front-mounted and secured to a recessed wall box with an aluminum plate to cover the rough opening.

INSTALLATION OF 4MI and 4MI-EX :

Provide a rear support shelf 1 5/8" below dial center to keep the movement from turning from a horizontal position. For metal and acrylic dials, provide a 1" diameter hole in the center. For through-the-wall mounting, drill a level 1 1/8" diameter hole to accommodate the 1" diameter extension. It is critical that the shafts are level and perpendicular to the dial facia. Verify before proceeding to hand installation and shim or adjust as necessary.

INSTALLATION OF 4MI-FM :

Cut hole or build wall to accommodate a 14" W x 8" H x 8.5" D wall box. Install and secure box so mounting holes are horizontal, level and flush to the wall. Mount movement to front plate. Rest movement on table with plate hanging over the edge. Be sure wiring is adequate length for easy connection of wiring harness plug. Careful not to tilt movement, lift unit and front plate, plug connectors together, set into box and secure front plate to the box. It is critical that the shafts are level. Verify before proceeding and adjust if necessary.

Note: Unless specified at time of order, 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 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, 3, 6, or 9 position whichever is closest to but behind real time. This will shorten the length of time the clock need to be in reset to set the correct time. Ensure the rear side of hand is not backed into the center bushing. Tighten both set screws firmly without excessive force. Verify clearance between back of hand and dial surface or raised markers.

Minute Hand (threaded minute shaft) – 7/8" nuts. Thread minute hand rear nut with knurled face outward on to the minute shaft as far as it will go. Tighten 2 set screws into the shaft beyond the threads, securing the nut to the shaft. Slide minute hand on shaft and point to the 12:00 position. Thread front nut onto the minute shaft. Hold hand in place and tighten nut securely. Drive in set screw tight against hand face. Reinstall safety cotter pin.

Minute Hand (smooth shaft) - Slide minute hand on the stainless-steel minute shaft and point to the 12:00 position. Tighten set screws very securely. Verify clearance between hands. Reinstall safety cotter pin or safety screw.

WIRING AND START-UP

Refer to MC3-MI wiring diagrams supplied.

LUBRICATION

1. Lubricate annually with light weight oil. Simply pour or squirt oil over gears and bearings allowing excess to fall into reservoir.
2. OR add a maximum 6oz. light weight oil to the reservoir. Do not overfill. Shafts MUST be level or the oil can gravitate out the shafts onto the dial face.

SERVICE

Contact the factory for service or assistance.

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