



Everything but the water since 1947!

Assembly Instructions for
Kiefer's 36" Pace Clock
Product#: 210603 (Battery)



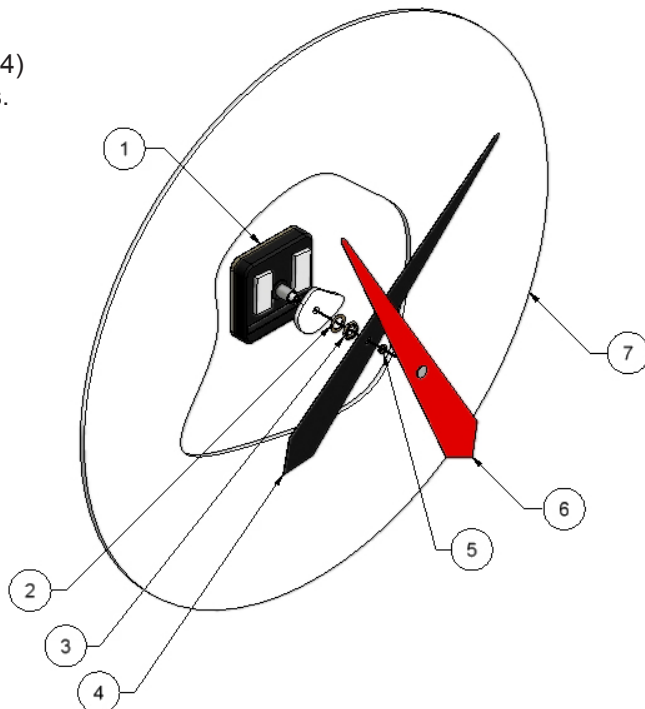
Please follow these directions to set up your new pace clock:

1. The wire clock frame is partly assembled into two (2) sections. Remove the four (4) thumbscrews and their brackets from the wheeled brace. Use the thumbscrews to attach the circular clock cradle to the base, with the wheels on the backside. Place clock in the frame, and secure it into place with the top wire handle.
2. Loosen the eight (8) Phillip head screws and remove the lens cover.
3. Peel off protective brown paper from the acrylic cover lens. *NOTE:* To avoid scratches, clean lens with water and a mild detergent. Wipe dry with a soft cloth. Avoid abrasive cleansers and aromatic solvents.
4. *CAREFULLY* remove bubble wrap packing from the clock's hands. If hands have been bent in shipment, gently straighten them.
5. Turn the clock around so you can access the motor. Remove white rear hatch cover by sliding it up. Take out the bubble wrap packing.
6. Install the battery by inserting positive (pointed) end into left hand side of the battery compartment.
7. Next wedge the copper switch plate between the right hand side of the motor spring contact and the negative (flat) end of the battery. Press down. Replace the rear hatch cover.
8. Replace the clock lens and re-attach the white plastic tabs.
9. Test the clock by clicking the on/off button.

If you have problems see the troubleshooting guide.

Installation Instructions for Battery Motor & Hands

1. Remove the clock lens cover by un-screwing the four (4) Phillips Head screws and removing the white plastic tabs.
2. Remove the Red second hand, (#6) by **Gently** pulling it directly off the motor shaft.
3. Remove the Black minute hand, (#4) by unscrewing the small knurled Brass nut, (#5).
4. Remove the Brass jam nut and washer, (#2 & #3).
5. Turn the clock around so you can access the motor, (#1). Remove the battery and the copper switch plate. The motor is held in place with double-sided tape. Gently pry the motor off the clock body. Remove any residual tape from the surface of the clock.
6. Install the new motor by first peeling off the protective covering on the double-sided tape exposing the new adhesive. Insert the shaft of the motor through the center hole of the clock face, (#7) and press the motor firmly into place.
7. Replace the Brass jam nut and washer, (#2 & #3).
8. Align the center hole of the Black minute hand, (#4) with the flat edge of the motor shaft and insert the hand. Tighten the hand onto the shaft with the small knurled Brass nut, (#5).
9. The Red second hand, (#6) has a hollow shaft on it's unpainted side. Gently press the hand onto the pin-sized second hand stem located in the center of the motor shaft.
10. Replace the battery, copper switch plate and rear hatch cover. Test the clock by clicking the on/off button several times. Watch the hands while you do this to see if the hands are rubbing against each other. If they rub, gently bend them so there is no longer any contact between them.
11. Replace the clock lens cover with the the four (4) Phillips Head screws and the white plastic tabs.





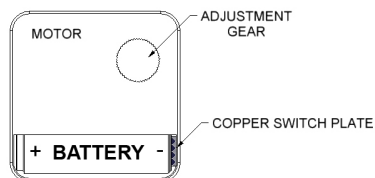
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Troubleshooting Kiefer Pace Clocks

Battery Clocks:

If the clock will not start.

- It may need a fresh battery.
- The battery may be installed incorrectly. When inserting the battery, make sure to place it into the battery compartment positive end first (left-hand side) and "shoe horn" the Copper switch plate into position.
- If the motor's gears are not turning properly, making noise or are erratic check them by looking through the translucent window on the back of the motor casing. The gears should be spinning smoothly; if they are not, the motor is defective and should be replaced.
- The on/off button could be worn or defective. It is replaced by snaking the wire through the top hole and screwing the on/off button flush with the clock body.



Electric Clocks:

Instructions for installing or replacing electric motors & hands.

1. Remove clock lens cover by unscrewing the four (4) Phillips head screws and removing the white plastic lens tabs.
2. Remove the red second hand by unscrewing the hand counter-clockwise off the shaft. The black minute hand is removed by unscrewing the small brass nut.
3. Next from the back of the clock unscrew the motor from the face counterclockwise about 5 turns.
4. Now take the replacement motor make sure the rubber washer is installed around the motor stem and thread it into the face clockwise about 5 turns.
5. Attach the minute hand by aligning the hand on the motor shaft with the flat edges and install the small brass nut. Attach the red second hand by threading the hand on to the stem about 4 turns.
6. Replace the clock lens cover with the plastic lens tabs and Phillips screws and reinstall the hatch cover.

If Clock Timing is Incorrect or the Hands are Loose:

- There is a brass adjustment gear on the backside of the motor to change the minute hand setting.
- Secure the black minute hand by tightening the small brass nut.
- If hands come into contact with each other, gently bend them for clearance.
- To check for motor movement the red second hand must be attached, since it is not possible to visually detect shaft rotation.