

During manufacturing and calibration of the Rotary Drive Synchronous movements, the mechanism is positioned to allow attachment of the clock hands at the 6:00 location. It is important that the gears of the mechanism are not manually rotated nor power applied to prior to hand installation. If there is ever any doubt that the hands are correctly positioned, it is possible to advance the movement to the 6:00 position by following the document "C-470 - RDS Directions on Verifying Hand Location".

TOOLS REQUIRED:

½" Wrench, Deep Socket, or Nut-Driver (for center bushing nut)

¼" Thin-walled socket or nut-driver (for clock case nuts)

Glass Cleaner and Lint-free Cloth



Step 1: Place the thin washer over the center bushing of the clock movement. Center the washer on the bushing.



Step 2: Holding clock movement in your hand place the clock pan over the center bushing. Notice the top of the clock pan is identified by the location of the mounting ears. The center bushing of the clock movement is nearest the top edge of the clock movement.



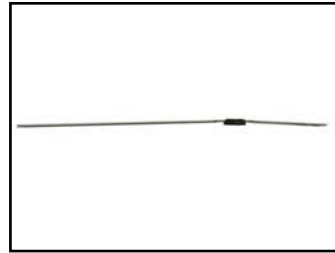
This photo shows the proper relationship between the clock movement and pan as viewed from the back. The clock movement should be between the alignment tabs of the clock pan as shown.



Step 3: Still holding the clock movement in your hand with the shafts pointing upwards, place the clock dial over the center bushing. Align the top notch of the clock dial with the top notch of the clock pan as shown.



Step 4: Place thick washer and nut onto center bushing. Tighten until snug making sure dial does not spin misaligning notches of Step 3.



Step 5: If necessary, form hour hand so that the tip and tail angle downward slightly from the center hub as shown.



Step 6: Place the hour hand onto the hour shaft without pressing in on. Sight along the hand as shown in the photo and align the hand with the 6:00 marking.

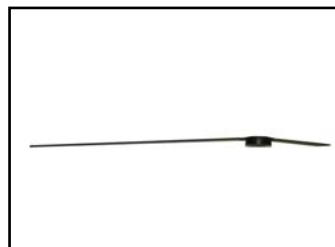


Step 7: When hand is aligned exactly, gently push hand onto hour shaft without twisting. Hand should fit snug but not so tight that it collapses the hour shaft. NOTE – If the hand is too

loose, remove the hand from the shaft. A light tap on the hub of the hand with a hammer against a hard surface will shrink the inside diameter of the hand to tighten the fit.



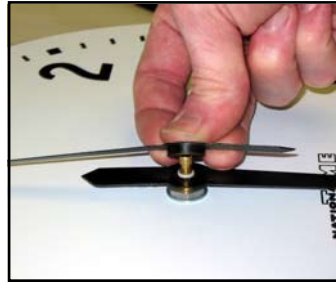
The hour hand should be pushed on until approximately 1/32" of the hour shaft protrudes through the hub of the hand as shown.



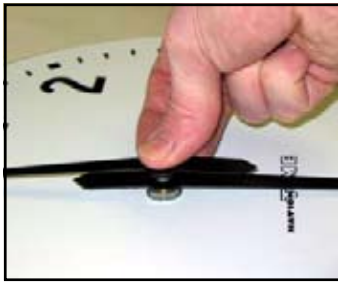
Step 8: If necessary, form the minute hand so that the tip and tail angle downward slightly from the hub of the hand as shown.



The minute hand requires a rubber bushing to mount to the minute shaft. See photo. Place the rubber bushing into the hub of the minute hand.



Step 9: With your thumb spanning the hub of the hand and the rubber bushing, gently push the rubber bushing onto the minute shaft. Start the bushing on an angle as shown in the photo and rock into position careful not to rotate the minute shaft.



Continue rocking the hand and bushing onto the shaft until the end of the hub of the hand and rubber bushing are flush with the end of the minute shaft.



Step 10: Form the tip of the minute hand until the tip of the hand is approximately 1/8" from the surface of the clock dial as shown.



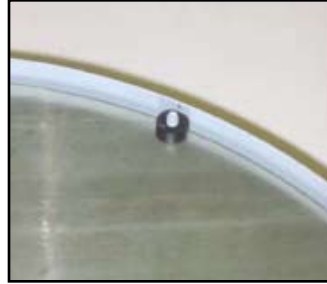
The final form of the hands should be as shown. Ensure the tip of the minute hand will not scrape the clock dial nor hit the hour hand if it were to rotate.



Step 11: Clean the glass using cleaner and a lint-free cloth. Place glass on top of pan and dial making sure it is centered between the notches as shown.



Step 12: Place clock case over assembly aligning studs in case with notches in pan and dial. Flush case is shown. If surface or double face case, make sure mounting hole is located at the top of the clock.



Step 13: Carefully flip over holding together entire assembly. Holding the case tight to the clock pan, push rubber mounting bushings over the three studs as shown. Then place three nuts on the studs. Alternately tighten each nut only until snug.

Connect clock to wiring circuit and verify operation.