ROCKLER HERMLE
MOVEMENT INSTRUCTIONS

PARTS LIST

<table>
<thead>
<tr>
<th>QTY.</th>
<th>PART DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Movement #451-050 (with chains, hooks, rings and hand nut)</td>
</tr>
<tr>
<td>3</td>
<td>Weight shells - polished brass (40 x 232mm)</td>
</tr>
<tr>
<td>2</td>
<td>Weight inserts - lead (4.7 lb.)</td>
</tr>
<tr>
<td>1</td>
<td>Weight insert - lead (6.6 lb.)</td>
</tr>
<tr>
<td>1</td>
<td>Pendulum -( Wood stick or Lyra style) depends on order</td>
</tr>
<tr>
<td>2</td>
<td>Mounting screws &amp; Washers (for seatboard mounting)</td>
</tr>
<tr>
<td>3</td>
<td>Weight rods, hooks, knobs</td>
</tr>
<tr>
<td>1</td>
<td>Chime block (back mount.) with mounting screws &amp; washers</td>
</tr>
<tr>
<td>1</td>
<td>Hands for 8” dial (pair)</td>
</tr>
<tr>
<td>1</td>
<td>Chime selector angles with set screw</td>
</tr>
</tbody>
</table>

NOTE: HERMLE DOUBLE-CHECKS ALL PARTS PRIOR TO SHIPMENT.

Please read the instructions carefully before beginning to install your movement.

UNPACKING INSTRUCTIONS

1. Keep movement wrapped and away from woodworking areas (dust can be harmful)
2. Be sure to look through all packing material, not to miss any parts.
3. Be careful cutting taped packed parts open. (You do not want to scratch or cut any parts)

MOUNTING MOVEMENT TO SEATBOARD

1. Seatboard schematics should be provided with case plans.
2. To fasten movement to seatboard you must first slip movement chains through the pre-cut chain slot in seatboard, this will allow the movt. to rest level on the board. Place the movement onto the seatboard parallel to the front edge and center it from side to side. All chains must hang through the center slot of seatboard. Also, check that the pendulum leader does not come in contact with the seatboard after the movement is placed on it.

3. Take the two movement mounting screws and washers, screw them in from underneath the seatboard into the bottom movement pillars with threaded holes. (These pillars are located in-between the movement plates at the bottom right & left corners of the movement.

4. Make sure both screws are tightened so that the movement is secured to the seatboard and will not slide or tip when moved (finger tight plus one turn, do not over tighten).
MOUNTING DIAL TO MOVEMENT

1. With the movement placed inside the clock, slide the selector angle onto the selector arm but do not tighten the set screw yet (angle points forward to protrude through dial slot).

2. Slide the moon drive-gear onto the handshaft (with the teeth towards the movement).

3. Take dial out of the plastic cover, fit dial onto the movement by inserting dial posts through the four holes in movement plate (holes are located at each corner of front movement plate).

4. While holding dial on movement, you will notice that the four dial posts are protruding through the inside of the front plate. At the end of these posts there are holes drilled through them for the brass tapered pins. Press one tapered pin in each hole. (Be sure pin is in tight) This will hold dial in place.

5. Align the moon drive-gear, (you placed it on the handshaft in step 2) so it rides in the middle of the gear on bottom of the dial. Once it is in this position you can tighten the set screw in the moon drive-gear.

6. Align the chime-selector angle protruding through the dial at the 3 o’clock position to the center of the slots in the dial and tighten the set screw. (Set screw is located on the back of the chime-selector angle).

7. If you have the second hand option on your model, take the second-hand and insert its shaft through the hole of the second-hand dial. Make sure the second-hand does not come in contact with the dial. (not all models have the second hand option)

8. Minute and hour hand installation comes after weight installation.

MOUNTING MOVEMENT TO CASE

1. Install the movement which is mounted on the seatboard into the case. The handshaft has to be in the center of the case. The dial has to fit in the dial-cutout of the case. Make sure that the handshaft does not come into contact with the glass in the door when it is closed.

2. Position the chime rod assembly inside the rear of the case such that the base of the chime block is approximately 1” above the hammers. Secure the seatboard at this time to the 2 mounting blocks inside the case with wood screws (not supplied by us).

3. If your case is deeper than 9”, a wood block will have to be added to the back wall of the case to bring the chime block closer to the movement. The hammer wires on the movement must be bent to adjust to the chime block rods.

   NOTE: None of the chime rods are to interfere with the pendulum leader or the pendulum itself.

4. Mark the position of the four threaded holes onto the back board.

5. Remove the chime assembly unscrew movement from seatboard and drill these four holes into the backboard using a 7/32” drill bit.

6. Place the four washers onto the four mounting screws and secure the chime assembly to the case.
7. Screw movement back onto the seatboard making sure that it is centered again. Also, make sure that the center shaft will not come into contact with the door when it is closed. (Important)

8. With the movement secured, bend hammer arms so that the hammers strike each chime rod squarely in the center and rest approximately 1/16” to 1/8” off of the rods (you must do this to get the best sound. Also, do not position hammer arms closer than 1/16” because hammer will double hit the chime rod.) The closer the hammer is to the rod, the louder it will strike, the further away, the softer it will strike. Beyond this, there is no volume adjustment.

9. Rotate the chrome chime hammer retainer bars back and away from the chime hammers. Make sure they are as far away as possible from the hammers.

**INSTALLATION OF THE PENDULUM**

1. Unpack pendulum carefully.

2. Use gloves to handle the pendulum, thus avoiding fingerprints. Hang the pendulum onto the pendulum hanger hook, located on the back side of the movement.

**INSTALLATION OF THE WEIGHTS**

1. Unpack the three weights also using gloves to avoid fingerprints.

2. Using a clean cloth rag or glove to hold weight shells, insert one weight insert into each of the brass weight shells. Some inserts may fit tightly, so some force may be necessary. Be careful not to dent or scratch shells.

3. Insert the 6.6 lb. weight into one shell. Insert the 4.7 lb. weights into the other shells, Place an end cap onto each end of all the weights.

4. Next slide the weight rod through the entire weight insert and shell so the rod protrudes through the top and bottom of the shell. Then screw one hook on the top and one knob on the bottom of all three shells.

5. Take the 6.6 lb. weight and hang it on the right-hand chain (chime side) while making sure that the chain lies hooked on the gear above. Install the other two weights in the same manner. (If you have two heavy weights and one light, then the two heavy weights should be hung on the middle & the right side chain. (This is looking at the clock from the front.)

**IMPORTANT:** The weights and pendulum MUST be removed before moving your clock. Failure to do so may damage the pendulum, weights, your case or break the door glass.
**INSTALLING THE HANDS**

1. Remove the hand nut from the hand shaft and set it aside. (Be careful not to lose the hand nut!)

2. The hour hand friction-fits onto the center shaft. Press it firmly into place, making sure that it is back far enough so that it will not interfere with the minute hand when installed and also does not contact the dial or second hand.

3. Position the minute hand onto the squared portion of the center shaft. Notice that the hand will fit in one of four positions.

4. With the minute hand on, slowly turn the hand clockwise to the nearest 1/4 hour (3, 6, 9 or 12) and wait for the movement to chime completely. If it does not chime, make sure that the chime selector switch is set to the chime mode. Continue to the next 1/4 hour.

**NOTE:** This movement has “self-adjusting” chime sequence. This simply means that the 1/4 hour chimes are reset (or self-adjusted) on the hours. If the 1/4 hour tune does not chime or it chimes out of sequence, it will be reset on the next hour.

5. Repeat step 4, making sure to stop and allow movement to chime completely, until the hour has struck.

6. Take note of how many times the hour strikes and position the hour hand to the proper hour.

7. If the minute hand is not in the correct position. (Meaning that the movement does not chime at the 3, 6, 9 or 12 position). You must than take off the minute hand and hold the round brass bushing in the center of the hand with a pair of pliers and move the hand to the correct position. (The hand slips on the brass bushing). Once you have the hand in the correct position and placed back on the center shaft, tightly screw the hand nut back onto the end of the center shaft. Be sure not to over tighten the hand nut.

8. Re-check that the hands do not touch the dial or each other.

**STARTING MOVEMENT AND ADJUSTING TIME**

1. Place clock on a level surface slightly away from any walls and in a place where it will not get bumped.

2. Level clock from side-to-side and front-to-back. If clock is sitting on carpet, it may take several days for the clock to settle into the carpet and the movement may stop periodically before the clock is completely settled.

3. To start movement, move the pendulum to one side of case and release it. NEVER start the pendulum in motion by pushing it to one side.

4. To set the hands to the proper time, turn the minute hand counterclockwise to the desired time. By turning the hand backwards, it is not necessary to wait at the 1/4 hours while the movement chimes. (DO NOT do this with other clocks you have unless you are sure it is recommended by the manufacturer.)

5. The speed of the movement is adjusted by the length of the pendulum.
6. Adjustments should be made by turning the nut on the bottom of the pendulum as follows:
   Runs too fast . . . . . Lower pendulum bob by turning the nut to the left.
   Runs too slow . . . . Raise pendulum bob by turning the nut to the right.

6. It may take several weeks of adjustments to get your clock to keep accurate time.

WINDING THE MOVEMENT
1. It is necessary to wind your movement once every week.
2. To do so, simply pull the loose chains with the rings on the end and SLOWLY pull down on
   the chain and the weight on the other side of the chain you are pulling will start going up.
   Pull chain until the weight reaches the top.
3. Repeat step 2 above for the remaining weights.
4. Never lift up weight while winding because this may cause chain to slip off chaingear.

SELECTING SHUTOFF AND CHIME MODE
1. This movement is equipped with a chime selection and silent feature, to the right of the 3
   o’clock position.
2. To change from chime to silent, simply move the switch to the desired position.
   IMPORTANT: NEVER move shutoff lever while movement is chimeing or striking, wait
   several minutes after movement is done. Failure to do so may cause damage to the
   movement.

SETTING MOON DIAL
This option is only if you have moon dial.
1. Apply slight pressure to the moon disk and rotate it clockwise until the moon is directly
   below the “15”.
   NOTE: DO NOT FORCE the moon disk if it does not rotate easily. Wait a few hours and
   try again. Failure to do so may cause damage to the moon phase drive train,
   which will prevent the moon disk from operating.
2. Using an almanac or a calendar, check the date of the last full moon.
3. Count the number of days between today and the last full moon.
4. Rotate the moon disk clockwise one “click” for every day counted above.
5. The moon dial is now set and will indicate the proper moon phase as long as the movement
   operates continuously.
6. If the clock stops, the moon disk must be repositioned when the movement is restarted.
FINAL NOTES

Dust builds up on the pivots of the movement over time, which can cause the movement to stop operating properly, and eventually, damage the movement. To prolong the life of your movement, it should be cleaned and oiled by a qualified clock repairman every couple of years.