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New FAX line directly to our parts supply department: 610-689-0567



Instructions and Parts List

P-1126... Kieninger® 8-day Bell Strike Grandfather Movement

Important: These instructions are supplied for your reference only. Extreme care should be observed to prevent personal injury or property damage during any phase of the installation process. Merritt's can not be held liable for errors, omission, damage or injury caused in any shape or form by these instructions. It is the installer's responsibility to observe and follow any and all safety precautions.

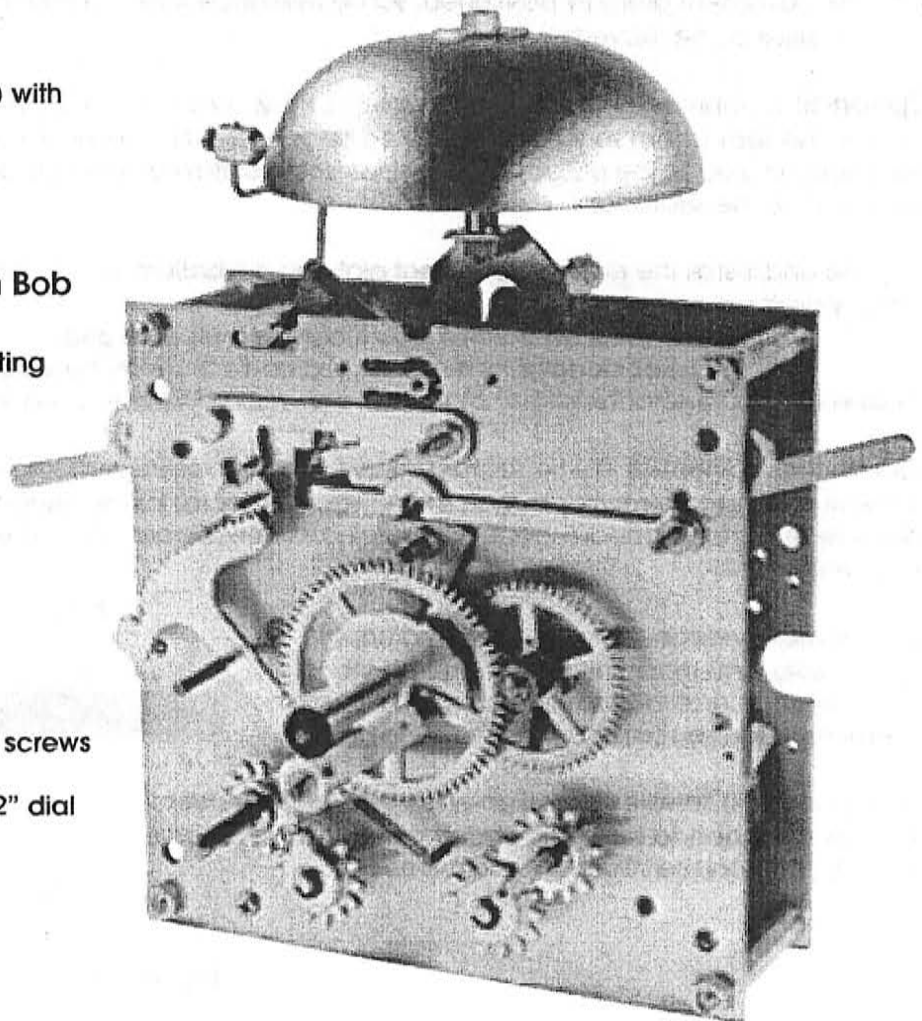
Immediately after delivery: After unpacking and before installing your movement, check the parts list and read the following instructions carefully. In the event that a part appears to be missing, please carefully check all packing materials for stray parts. If any part is missing, please call or X us before installation and explain which part you need.

If you need any further instructions or information, please call us at 610-689-9541, Extension 3 during regular business hours: Monday through Friday. 8:00 A.M. to 4:00 P.M.

1126C Parts List...

Quantity: Description:

- 1 Kieninger Movement (#HS020/116 cm) with installed cables and hand nut
- 1 Brass pendulum leader
- 1 6 1/2" dia. Polished Brass Pendulum Bob
- 1 Wood Pendulum Rod with threaded rating assembly/nut and brass hanger
- 2 Cast Iron Weights
- 1 Bag of Accessories which includes:
 - 1 Winding Crank
 - 2 Movement Mounting Screws
 - 2 Movement Mounting Plates
 - 2 1 1/2" dia. brass pulleys
 - 1 Cable Attachment Plate
 - 4 Cable Attachment Plate mounting screws
 - 1 Second Hand
 - 1 Pair of Serpentine Hands for a 9 1/2" dial
- 1 Oiler



A. Lubricating your movement

It is essential that you lubricate your movement prior to running. This is most easily completed before the hands and dial are installed.

1. Each pivot protruding through the front and back plates should be given a small drop of oil. Oil in small quantities so the lubricant does not run down the plates.
2. If the oil is allowed to run, it will carry lubricant that would otherwise remain in place around the pivot.

B. Mounting the movement to the seatboard...

- 1a. Using the diagram on the opposite page, make a seatboard. Use 3/4" plywood or comparable wood stock capable of supporting 35 pounds without breaking.

Note: An existing seatboard may be used, but first check to assure it will fit the movement without obstructing the cables or pendulum. Compare the board's measurements with the measurements on the Seatboard Diagram

- b. To determine the width of your seatboard:

- 1) measure the distance between the vertical supports on your case
- 2) add 1/2" for adjustments if room allows

2. Once the seatboard is cut to width, scribe a line at the center. Then transfer the measurements from the diagram on the opposite page onto the seatboard.

3. Cut out the shaded areas shown on the diagram ("Cut out for cable and movement attachment) and the notched area at the rear of the seatboard

4. Place the movement on the top of the seatboard and position it so it is **centered** (use the reference line from step 2) and **sits back from the front edge of the seatboard 1/2"**.

5. With the movement properly positioned, scribe reference lines marking the back edge and both sides of the movement.

6. **Optional:** Cut three wood strips, each 2 3/8" L x 1/2" W x 1/4" T. Tack these strips into place on the seat board so that the inside edge of each strip corresponds with the reference lines scribed in Step 5. The purpose of the strips is to maintain a constant location for the movement on the seatboard.

- 7a. Locate and install the **cable attachment plate** on the **bottom** of the seatboard. As shown on the opposite diagram, the plate should be:

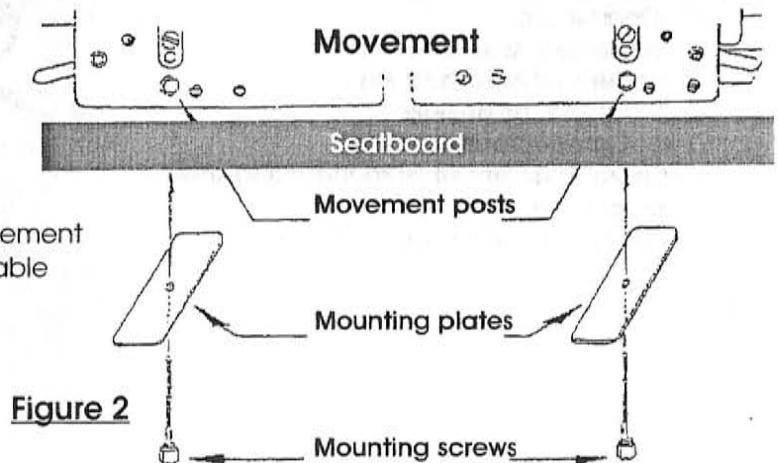
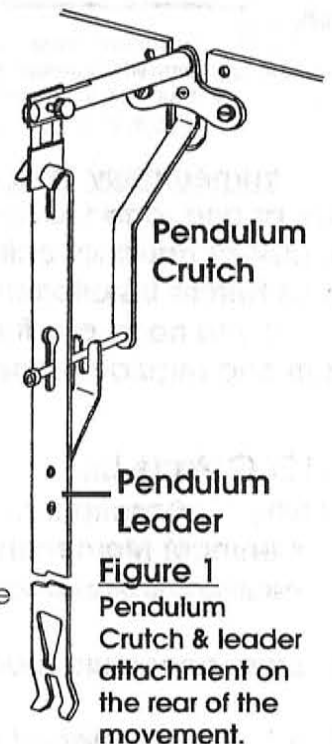
- 1) centered between the two cutouts for the cable **and...**
- 2) the **back edge** of the plate should be 2 3/8" from the **front edge** of the seatboard

- b. Fasten the cable attachment plate to the seatboard with the four wood screws supplied.

8. Place the movement on the seatboard using the reference marks from step 2 or the optional wood strips. Both cables must hang through the cutouts in the seat board. Install the pendulum leader as shown in **Figure 1**. Check to make sure that the pendulum leader does not come in contact with the seatboard when the board is parallel with the movement.

9. With the movement in the proper position, use the two (2) movement mounting screws and plates (one for each side of the movement) to secure the movement to the seatboard as shown in **Figure 2**.

10. Make sure both screws are tightened so that the movement is securely attached to the seatboard. It should not be able to slide or tip on the seatboard when moved.



Mounting the Movement to the Case...

Position the movement in the case.

Slide the case hood onto the case and close the door completely. **Make sure the hands do not touch the door or glass and the dial is centered when observed from the front of the case.** If the assembly is not aligned properly, open the lower case door, reach up and carefully slide the assembly into position.

When properly aligned, carefully remove the hood without disturbing the movement position and drill one or two holes through the seatboard on each side of the movement. Make certain these holes reach through the seatboard to the case. Screw the seatboard fast to the case with wood screws (not included).

Installing the Pendulum and Weights..

Remove the rating nut from the threaded rating rod/nut assembly. Place the pendulum bob onto the threaded rating rod and screw the rating nut back in place. Make sure the foremost part of the nut latches into the slot on the back of the pendulum bob as shown in **Figure 3**.

Hang the assembled pendulum on the pendulum leader as shown in **Figure 4**.

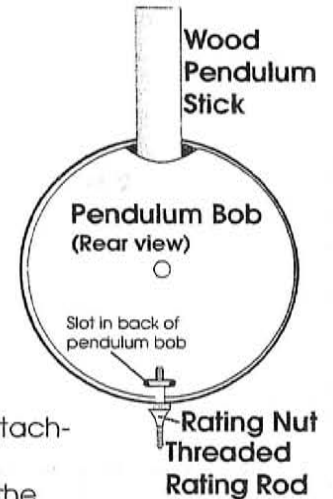


Figure 3

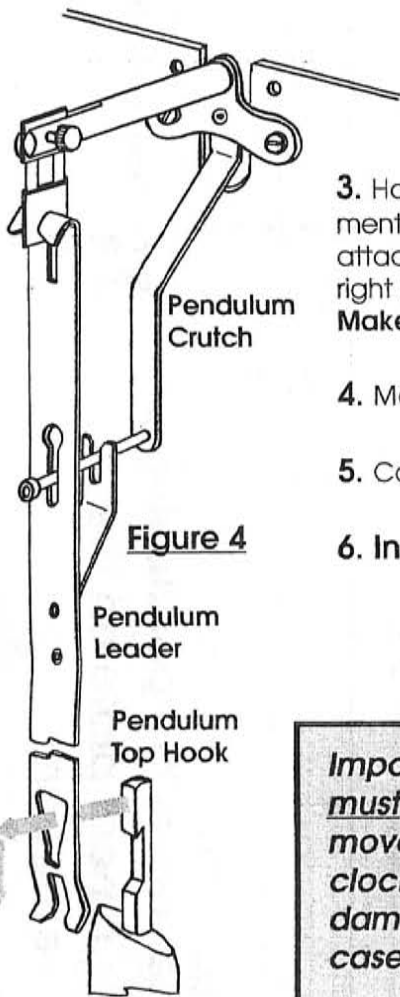


Figure 4

3. Hook the cable ends into the locking grooves on the cable attachment plate on the bottom of the seatboard. The left cable end attaches in the left groove, and the right cable end attaches in the right groove. Refer to the diagram on the preceding page. **Make sure the cables are not tangled or kinked.**

4. Make sure that each pulley rides smoothly on its cable. See **Figure 5**

5. Carefully hang each weight onto a pulley hook.

6. Install your dial at this point.

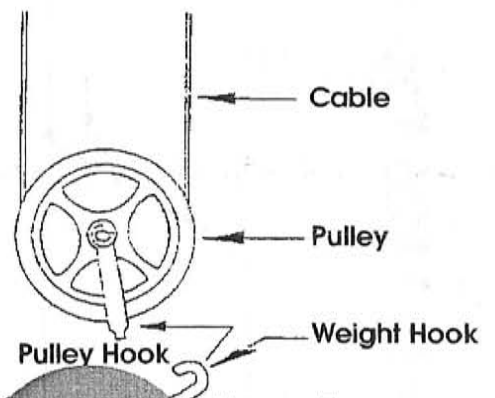


Figure 5

Important... The weights and pendulum must always be removed from the movement whenever you move your clock. Failure to do so will result in damage to the pendulum, weights, case, or break your door glass!

Cast Iron Weight

Installing the Hands...

Remove the handnut from the centershaft and place it in a safe location. You will need this nut after the hour and minute hands are installed.

Installing the hour hand: The hour hand friction-fits onto the movement's centershaft. Press it firmly onto the shaft. If the hand fits so loosely that it won't stay in position on the shaft, simply crimp the slotted hand bushing slightly with a pliers to create more tension. Then:

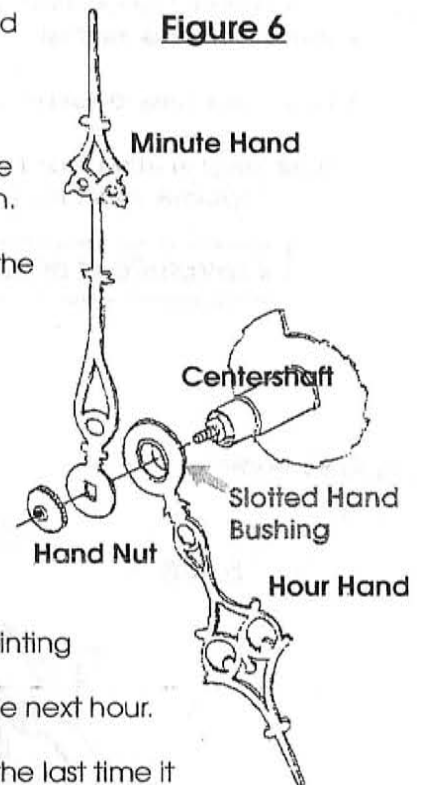
- make sure the hand is back on the shaft far enough so it will not interfere with the minute hand when installed
- make sure the hand does not touch or rub the dial in any way.

Installing the minute hand: Position the minute hand on the squared portion of the centershaft. Notice the hand will fit in four different positions.

Hand Alignment:

- With the hour and minute hands installed, slowly move the minute hand in a clockwise direction to the nearest hour... The hand will be at either the 3, 6, 9, or 12 o'clock position.
- Wait for the clock to chime completely. Then, reposition the minute hand so it is pointing at the "12" on the dial.
- Repeat step 4a: Allow the movement to completely strike the half hour and then the next hour.
- Count how many times the hour is struck.**
- Reposition the hour hand to the position struck. (i.e.: If the clock struck seven times the last time it was advanced, place the hour hand at the 7 o'clock position on the dial.)
- Reposition the minute hand so it is pointing at the "12" on the dial. If the hands do not match up exactly at the appropriate time, you must adjust the bushing on the minute hand. To do so, make sure the movement is not running and remove the minute hand from the centershaft. Use a pliers to hold the bushing, rotate the bushing until the hand is in a position where it will be properly aligned on the hour.
- When the hands are aligned to your satisfaction, use the hand nut to secure the hands to the centershaft.
- Recheck to make sure the hands do not make contact with each other or the dial.

Second Hand: Install the second hand by sliding the second hand onto movement's second hand shaft. Make sure the hand does not touch or rub the dial in any way.



Starting the Movement and Movement Adjustments...

The site for your clock should be level and stable. Avoid areas where it might be bumped or the floor vibrates excessively during normal everyday activities.

Level the clock from side-to-side and front-to-back. If your clock has been placed on carpet, it may take several days for the clock to settle into the carpet. It is not unusual for a movement to stop periodically until the clock is completely settled.

Caution note: Clocks placed on thick carpet may become hazardously unstable and dangerous...

Avoid clock placement in areas where thick carpet could cause your clock to fall over and cause serious injury to the clock or people in proximity to the clock.

To start the movement: Gently pull the pendulum to one side and release it with an exaggerated swing to set the beat. **(Never start the movement in motion by pushing the pendulum. This may damage the suspension spring.)** Then, allow the pendulum to settle down into its normal swing.

To set the hands: Turn the minute hand **clockwise** to the correct time. Allow the clock to its strike sequence on the hour and half-hour until the correct time position is achieved.

5. Speed of the movement (fast/slow adjustment): The speed of the movement is regulated by the Adjustment Nut located at the bottom of the pendulum bob. **Figure 7**

If your clock runs too fast: Lower the pendulum bob by turning the adjustment nut to the left

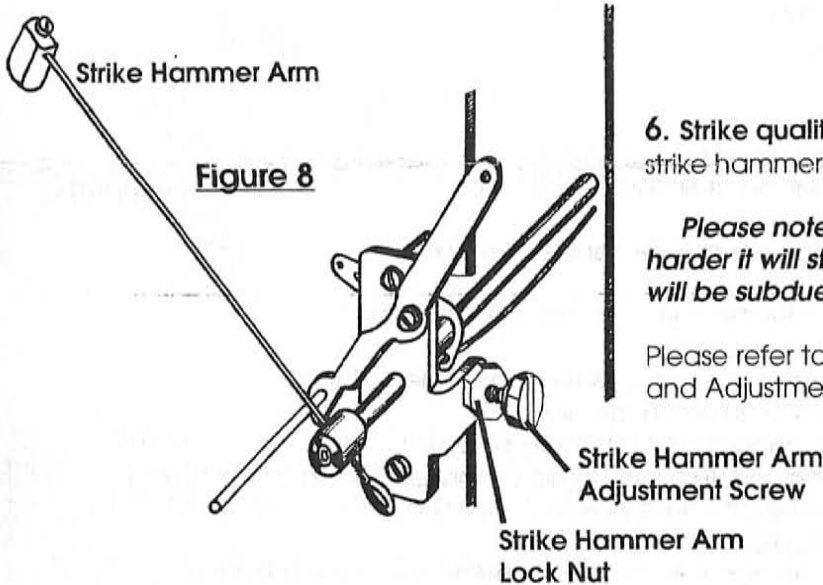
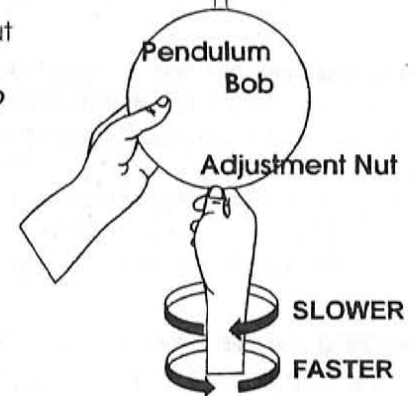
If your clock runs too slow: Raise the pendulum bob by turning the adjustment nut to the right

Please keep in mind that it often requires several weeks of periodic adjustment to regulate your clock so that it keeps accurate time.

2 revolutions of the Adjustment Nut = 1 minute a day

Pendulum

Figure 7



6. Strike quality adjustment: It may be necessary to adjust your strike hammer arm to achieve a nice, even tone.

Please note: The closer the hammer is to the chime rod, the harder it will strike. As you move the arm farther away, the strike will be subdued. Beyond this, there is no strike volume control.

Please refer to **Figure 8** to locate the Strike Hammer Arm Lock Nut and Adjustment Screw.

- Loosen the Strike Hammer Arm Lock Nut
- Screw the Adjustment Screw in to move the hammer away from the bell. Screw the Adjustment Screw out to move the hammer toward the bell.
- Re-tighten the Strike Hammer Arm Lock Nut when the hammer and strike are adjusted to your satisfaction.

7. Winding the Movement: It is necessary to wind your movement completely once every week during normal operation.

- Simply insert the winding key, or crank, onto one of the winding arbors
- Turn the crank clockwise until you feel the crank stop. It will only turn in one direction.
- Never** force the crank if it doesn't turn. This means you are turning it in the wrong direction or the movement is already fully wound.
- Repeat steps 7a and b for the other weight

This Kieninger® movement incorporates "Geneva Stops" which prevent the movement from being over wound. Overwinding could possibly damage the movement, weights, pendulum or case. The "Geneva Stops" will stop your weights several inches from the seatboard when completely wound.

Final Note...If, for any reason, your movement does not appear to be operating properly, please call us: 610-689-9541, Extension 263, Monday through Friday... 8 A.M. to 4 P.M. EST

◆ **Please do not return the movement without calling. Most of the problems you encounter can be resolved over the phone. Merritt's will not be responsible for postage or damage which results from shipping without the expressed permission of Merritt's Antiques.**

◆ **Dust accumulates on the movement pivots over time. This can cause a 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. Frequency would depend on the conditions in which the movement is operating.**