INSTRUCTIONS FOR MECHANICAL CLOCK

I. Installation Procedure for Mechanical Pendulum Clock

After two people lay the packaging box flat and open it:

1. Remove the pendulum from the rectangular cardboard box inside.

2. At the bottom of the clock, there is a foam packaging box containing the weights. Depending on the clock movement, it may include a winding crank or winding key, and cotton gloves.

3. If you have purchased a chime rod movement, the chime rods will be in a separate, clearly marked box.

Caution: Keep all packaging materials away from children.

II. Placement of the Floor Clock

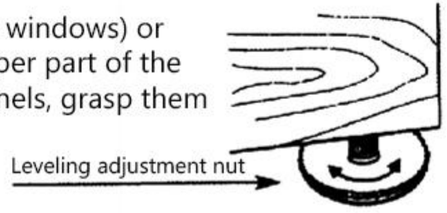
Choose a suitable location to place your clock:

1. The environment where the clock is placed should avoid direct sunlight, proximity to heat sources, and being directly in the path of air conditioning vents. It should also be protected from moisture and corrosive gases.

2. As shown in (Figure 1), place the pendulum clock in the chosen location. There are leveling nuts at the bottom of the clock case to adjust the front-to-back and side-to-side leveling of the clock to ensure it is vertical and stable. (Available for select models only.)

III. Clock Installation and Adjustment

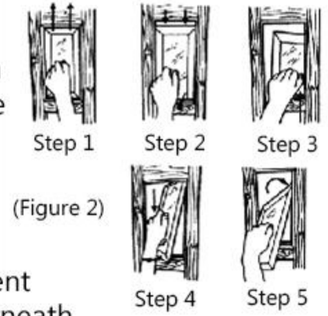
As shown in (Figure 2), open the side doors (sound hole windows) or side panels (sound hole panels) on both sides of the upper part of the clock (depending on the model). To remove the side panels, grasp them with your hands and lift them upward. The movement will then become visible.



(Figure 1)

Note: Please wear gloves during installation.

1. Be careful not to pull too hard. Remove the protective device securing the movement, as well as the protective device between the chime rods and the hammers, to prevent misalignment of the chime rods and hammers, which would affect the chime performance.
2. The three-chime-rod weight chain movement has two weights: the one on the right is for timekeeping, and the one on the left is for striking. The eight-chime-rod weight chain movement has three weights. Remove the plastic bag from the chains underneath the movement, and take out the metal wire securing the chains.

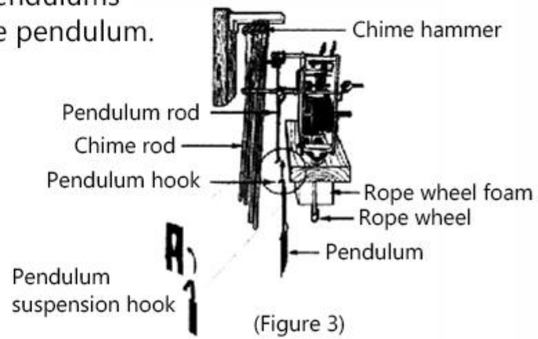


(Figure 2)

Facing the front of the clock, the chains are arranged as follows:
the right chain is for chime playing, the center chain for timekeeping, and the left chain for striking. Pull each chain up and down over a short distance with both hands. A "clicking" sound indicates normal operation; otherwise, the chain has come off the sprocket or is jammed.

IV. Hanging the Chime Rods (for Chime Rod Movement Only)
Facing the front of the clock, hang the chime rods on the chime rod rack from left to right, in order from longest to shortest.

V. Hanging the Pendulum
1. Open the pendulum packaging as shown. Some pendulums have a protective film – remove it before hanging the pendulum.
2. As shown in (Figure 3), hold the upper pendulum rod with one hand and the upper part of the pendulum with the other hand. Hook the pendulum hook into the slot of the upper pendulum rod. After confirming it is securely hooked, release your hands. If the pendulum hangs crooked, pinch the upper part of the pendulum with one hand and gently twist the lower part with the other to adjust it until it is straight and vertical.



(Figure 3)

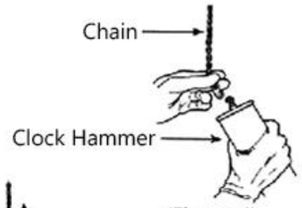
Note: Do not forcefully twist the upper or lower pendulum rods, as this may break or deform the pendulum spring, which could cause the clock to stop.

VI. Hanging the Weights

Chain-driven triple-weight movement, chain-driven double-weight movement

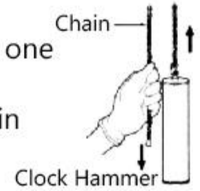
1. Before hanging the weights, carefully check whether the screws at both ends of each weight are tightened properly to ensure they are securely assembled.

2. 2. If the chains are overlapped, they must be straightened out before hanging the weights. Due to the different weights of the weights, facing the front of the clock, simply match the weight hooks and rings with the corresponding chain rings and hooks from left to right, as shown in (Figure 4).

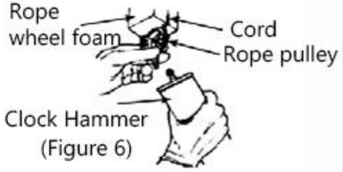


(Figure 4)

3. When raising the weights as shown in (Fig. 5), use one hand to gently steady the weight to prevent it from swinging, while using the other hand to pull the chain vertically, slowly, and evenly downwards. Raise the weight to approximately 1.97"–3.94" below the movement frame.

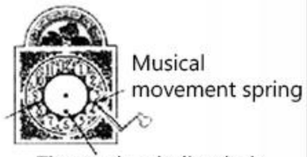


(Figure 5)



(Figure 6)

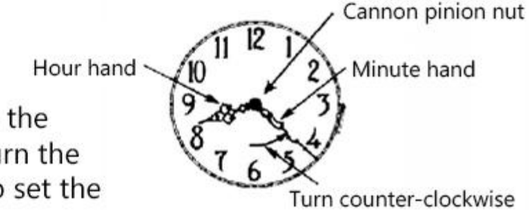
Note: Do not pull the chain too forcefully. When steadying the weight, do not lift it up or leave it unattached, to prevent the weight from slipping off the hook or the chain from slipping.



(Figure 7)

1. Before hanging the weights, please check that the screws on both ends are tight. Facing the clock, match the weights to the chains from left to right: (Right) Music, (Center) Time, (Left) Chime. See (Fig. 6).
2. Insert the key into the dial and turn clockwise to raise the weights (note: some movements turn counter-clockwise). Stop when the weights are about 1.97"–3.94" below the frame.
Note: Do not touch or lift the weights by hand while winding. This prevents the cords from tangling on the pulleys, which can stop the clock or damage the movement.
1.Mechanical clocks require regular winding to power the movement; otherwise, the clock will stop running.
2. To wind the spring-driven movement, insert the provided key into the winding holes on the dial. Facing the clock, the left hole is for Chime and the right hole is for Time. Turn clockwise evenly until fully wound (note: some movements require counter-clockwise winding).
Note: Please wind slowly and evenly. Do not force the key when the spring is nearly fully wound.

VII. Time Setting

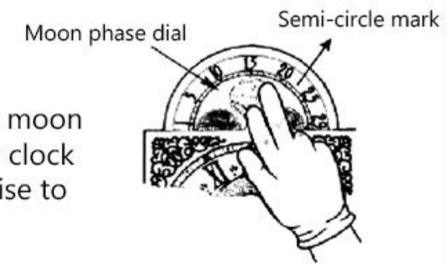


(Figure 8)

Refer to (Fig. 8). First, set the music on/off switch on the right side of the dial to the SILENT position. Then, turn the hands (long hand) clockwise or counter-clockwise to set the desired time. Finally, turn the music switch back on.
If the chime is not synchronized, this is not a malfunction. The movement has an auto-adjust function; the quarter-hour and hourly chimes will automatically return to normal within two hours.

2. The movement features a 4/4 Westminster chime. Do not move the minute hand while the music is playing. Always wait for the melody to finish completely. Continuously moving the hands while the chime is active may damage the movement.
Note: If the chime count does not match the time shown on the dial (e.g., the clock shows 10:00 but chimes 9 times), follow this solution: Move the hour hand to the 9 o'clock position, then move the minute hand to the correct time to resynchronize.

VIII. Moon Phase Setting (For selected models)
The moon phase dial displays the Chinese Lunar Calendar, reflecting the waxing and waning of the moon. The cycle ranges from 1 to 29.5, representing one lunar month. As the clock runs, the dial advances one notch per day. Refer to (Figure 9). Based on the current lunar date, gently press and rotate the moon phase dial clockwise until the semi-circle mark aligns with the corresponding date. Please note that accumulated errors may occur over time due to the mechanical movement. It is recommended to readjust the moon phase every 4-6 months. When adjusting, each audible "click" represents one day.



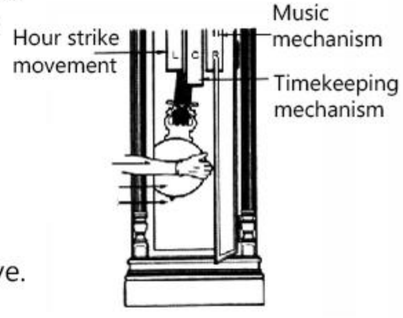
(Figure 9)

Note: If the moon phase dial does not turn, it means the moon phase dial drive gear is engaged. You should wait for the clock to run for 6 hours, then turn the moon phase dial clockwise to adjust it to the position that matches the date.

IX. Setting Night-time Silence
The night-time silence function is controlled by the lever located at the bottom right of the dial (on some movements, it is at the 9 o'clock position). If the main chime switch on the right is set to "On": Pull the lever DOWN for 24-hour chime (all-day music).
Push the lever UP for night-time silence. This mutes the chime from 10:00 PM to 6:45 AM; chiming resumes at 7:00 AM.

Note: If your clock is set to night silence but the timing is reversed (silent from 10:00 AM to 6:45 PM, and chiming at night), please pull the lever down, wait for 12 hours, and then push the lever back up to correct it.

X. Starting the Pendulum
Refer to (Figure 10). Open the front door of the clock. Place your hand on the side of the pendulum and move it horizontally to the left or right until it nearly touches the side of the case. Then, release it with a wide swing to start the clock running.



(Figure 10)

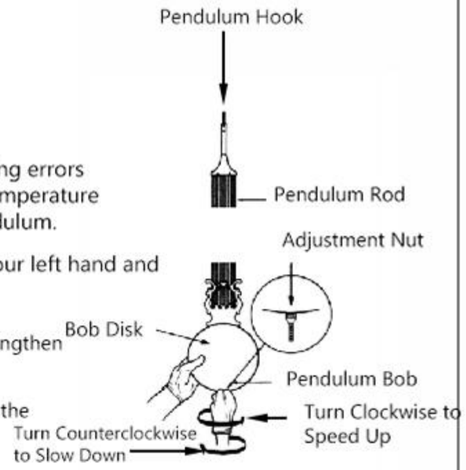
Note: Be careful not to twist the pendulum suspension; keep the movement strictly horizontal. When the clock is running correctly, you should hear a regular "tick-tock" sound. If the beat is uneven, simply restart the pendulum as described above.

XI: Method for Adjusting the Timekeeping Speed

The length of the pendulum determines the clock's timekeeping rate. Timing errors caused by variations in factors such as geographic latitude and ambient temperature can be corrected via the adjustment nut located at the bottom of the pendulum.

Follow the procedure illustrated in Figure 11: Secure the pendulum with your left hand and turn the adjustment nut with your right hand.

- If the clock is running fast: Rotate the adjustment nut counterclockwise to lengthen the pendulum, which will slow the clock.
- If the clock is running slow: Rotate the adjustment nut clockwise to shorten the pendulum, which will speed up the clock.



(Figure 11)

Each full rotation of the nut adjusts the timekeeping rate by approximately 20 seconds per 24-hour day.

Timekeeping tolerance for spring-driven movements: ±30 seconds per day.
Timekeeping tolerance for weight-driven movements: ±15 seconds per day.

NOTE: After adjusting the clock's timekeeping speed, synchronize the clock to the standard time and restart the pendulum.

XII:Maintenance and Precautions

Notes on Moving the Clock:

Do not move or bump the grandfather clock while it is running. If you need to move it, first stop the pendulum, then remove the weights and the pendulum, and secure the chains (for chain-driven movements) to prevent them from slipping off before moving the clock.

1. Wind the clock regularly (for spring-driven movements) or raise the weights (for weight-driven movements). Failure to do so will cause the clock to stop running. Weight-driven movements require this operation every 7 days, while spring-driven movements require it every 15-31 days (depending on the movement model).

2. For weight-driven movement clocks, if you will be away for more than one week, it is recommended to stop the clock. After returning home, restart the pendulum and adjust the time.

3. Ensure that the front door, side doors, and sound hole window of the clock are securely closed. Do not allow children to touch or operate the clock.

4. Like wooden furniture, wooden clocks require regular cleaning of the exterior with a soft, clean cotton cloth. Periodically wax and polish the clock case. Do not use hard wax or soft wax.

5.When lifting the weight, inspect the weight hook and chain to ensure the assembly is firm.

6.In especially dry areas, place a glass of water inside the clock base to maintain relative humidity and prevent the case from cracking. In especially humid areas, place several bags of desiccant inside the clock base to prevent the movement from oxidizing and discoloring.

7.Avoid strong magnetic fields near the clock to prevent affecting timekeeping accuracy.

8.When moving the clock, please remove and properly pack all components, pendulum, weights, etc., to avoid damage.

From the date of purchase, the floor clock should be cleaned and maintained at most every 4 years according to the local climate. Use special lubricating oil for the movement.

(It is recommended that you do not repair or maintain the movement by yourself. The cleaning and maintenance of the movement shall be performed by professional technicians.)

XIII:roubleshooting.

We do not recommend self-repair. Before requesting repair for a clock malfunction, please troubleshoot according to the following steps. If the problem persists, contact an authorized after-sales service provider. Do not disassemble the clock or make any uncertain adjustments during inspection.

Clock Stopped:

1. Check if packaging near the movement has been removed.

2. Check if the pendulum clamp behind the movement has been removed.

3. Check if the weights have dropped to the bottom or the mainspring is loose. If yes, lift the weights and wind the mainspring.

4. Check if the clock has been moved recently.

5. Check if the weights and pendulum are hung in the correct position, and if the pendulum touches the weights or chime rods. If yes, check if the clock case is level and vertical.

6. Check if the cord is overlapped and wound on the rope wheel, and if the zipper is disengaged from the sprocket.

7. Check if the hour, minute, and second hands collide or rub against each other. If so, adjust the hands to be parallel to the clock face.

8. Check if the balance spring is skewed or broken. If so, replace the balance spring.

9. Check the circlip behind the moon phase dial.

Performance Common Sense

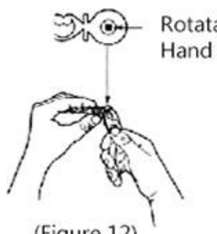
1. The weights can be wound (lifted) smoothly and stably.

2. The pendulum swings with a steady, clear sound, free of noise.

3. The hands set time accurately and move smoothly.

4. After winding (lifting) the weights once, the clock operates continuously for no less than 7 days, with a cumulative time error of no more than 2 minutes within 7 days.

5. The striking sound is uniform, rhythmic, loud, clear, free of muffled or silent strikes.



(Figure 12)

Inaccurate Chiming

If the clock's chiming error is ±30 seconds, adjust the minute hand as shown in (Figure 12).

Note: When doing the following steps, be careful not to scratch the hand nut, clock hands, or clock face.

1. Stop the pendulum when the clock starts chiming.

2. Hold the minute hand, then use pliers to carefully loosen and remove the hand nut, and take off the minute hand.

3. Clamp the minute hand bushing with pliers, then turn the minute hand forward or backward. Adjust it so that the minute hand points to 12 o'clock when the clock chimes.

4. Put the minute hand back on the shaft, then tighten the hand nut with pliers. If the minute hand is not at the correct chiming time, repeat steps 2 and 3.

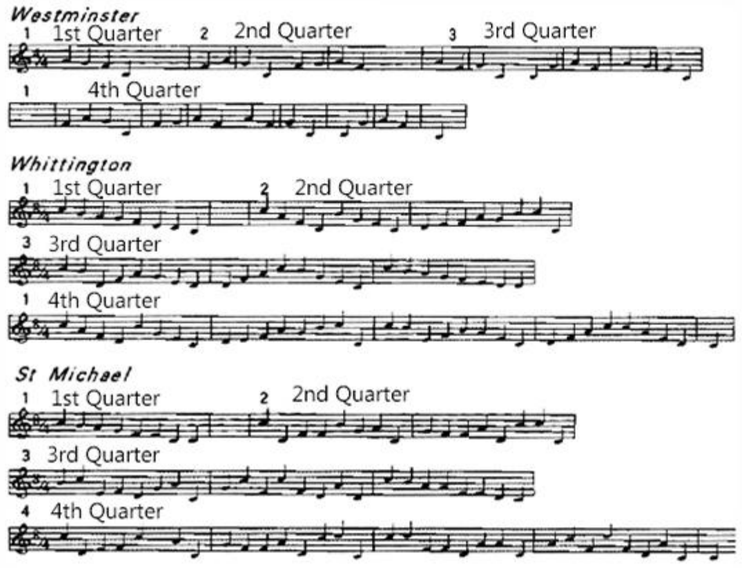
5. Do not tighten the hand nut too hard.

6. Restart the pendulum to keep time.

Example: If the clock chimes 3 o'clock, but the minute hand shows 2:58: Stop the pendulum, take off the minute hand, clamp the minute hand bushing with pliers, turn the minute hand 2 minutes forward, put it back, tighten the hand nut, adjust the minute hand to match the chiming time, then restart the pendulum.

7. Different weight drop speed: If you turn on the strike stop or night silent function, the middle (timekeeping) weight will drop faster than the left and right weights. This is normal and will not affect timekeeping or function.

Mechanical Grandfather Clock Music Sheet



Movement Functions

Option	Movement Model	Control Switch	Position	Function	Description	Night Silent Time
	B2F	Lever at Bottom Right of Clock Face	Up	STRIKE	1/2 Hour Strike	Manual Strike Off
			Down	STLENT	Silent	
	SVC-Dual Chime	Lever at Bottom Right of Clock Face	Up	STRIKE	1/2 Hour Strike	
			Down	STLENT	Silent	
	B4	Lever at Bottom Right of Clock Face	Up	STRIKE	1/2 Hour Strike	
			Down	STLENT	Silent	
	0451-8	Lever at Bottom Right of Clock Face	Up	STLENT	Full Silent	Silent from 10:00 PM to 6:45 AM, Chiming resumes at 7:00 AM
			Down	WESTM	Westminster Chime	
		Music Control Switch (at 3 o'clock Position on Clock Face)	Up	NIGHT OFF	Night Auto Silent	
			Down	STRIKE	24-Hour Strike	

Movement Functions

Option	Movement Model	Control Switch	Position	Function	Description	Night Silent Time
	1161-12	Music Control Switch (at 3 o'clock Position on Clock Face)	Up	STLENT	Full Silent	Silent from 10:00 PM to 6:45 AM, Chiming resumes at 7:00 AM
			※	WHITT.	Whittington Chime	
			※	ST.MICH	St Michael Chime	
			Down	WESTM	Westminster Chime	
		Lever at Bottom Right of Clock Face	Up	NIGHT OFF	Night Auto Silent	
			Down	STRIKE	24-Hour Strike	
	1171-9-tube Chime	Music Control Switch (at 3 o'clock Position on Clock Face)	Up	STLENT	Full Silent	Silent from 10:00 PM to 6:45 AM, Chiming resumes at 7:00 AM
			※	4/4SILENT	4/4 Silent	
			※	WHITT.	Whittington Chime	
			※	ST.MICH	St Michael Chime	
			Down	WESTM	Westminster Chime	
		Music Control Switch (at 9 o'clock Position on Clock Face)	Up	OFF	Strike Off	
			Down	ON	Strike On	
		Lever at Bottom Right of Clock Face	Up	NIGHT OFF	Night Auto Silent	
			Down	STRIKE	24-Hour Strike	