

Sempre

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Your Sempre Watchwinder..

... is the world's first and only UNIVERSAL Watchwinder. It will wind, and keep wound virtually any mechanical watch with an accessible winding crown, be it a hand wound or an automatic (self-winding) watch. A unique three-stage safety system prevents any possibility of damage caused by over winding. Safety is provided by utilizing both electronic and mechanical torque controls as well as a winding time limiter. Please spend a few minutes to read these instructions before using your SEMPRE winder. There are several user adjustments that are required to obtain safe and reliable performance. The time you spend mastering them will be brief, but well spent. Your winder has been designed to provide many years of dependable service, and is guaranteed against defects in material and/or workmanship for 2 years.



Powering the Sempre Watchwinder

The winder is powered by either batteries or by an AC/DC adapter. In the battery mode, four (4) "C" cell alkaline batteries are employed. They should be inserted in the plastic battery holder located on the underside of the lift-out drive module. Observe the correct placement (polarity) of the batteries as indicated. As batteries discharge over time, a flashing light automatically activates when fresh batteries are needed. Do not use rechargeable batteries for your winder. They do not provide the 6-volt DC power required for reliable operation.

If you choose to use the AC/DC adapter, simply plug it in to any wall outlet. It is a "switcher" type unit that is suitable for any voltage from 90 to 240 volts AC, 50 or 60 hertz with prongs for the USA or Japan. In other countries, simply obtain a local-to-USA plug. If using the adapter exclusively, remove the batteries to prevent possible damage caused by battery leakage. The adapter plugs into the rear of the lift-out drive module through an access hole in the back of the winder case.

Adjusting the Sempre Watchwinder

Lift up the cover of the drive module. You'll see that your winder has a meter that indicates the power used as it operates. Before you mount the watch, turn the unit on using the toggle switch. Move the toggle switch to "ON" position and observe the reading. This is the NO LOAD power of your winder. Then, press your finger very lightly against the rotating safety clutch gear. You'll see that the power used increases and the motor will stop. That is exactly what happens when your hand-wound watch is being wound; the power increases as the tension of the mainspring increases and the motor stops winding as the fully wound state is approached.



Adjusting the Sempre Watchwinder

Just to the right of the meter is the power adjustment screw. It is actually the “business” end of a precision potentiometer, which triggers a signal to the microprocessor when the power setting is exceeded. In its extreme counter clockwise position, it instantly turns the motor off when the toggle switch is actuated as the trigger point is zero. However, as you turn the screw clockwise, the trigger point increases. The power adjustment has been preset at the factory to a very low value. Now mount the watch. If the motor doesn’t start when the switch is actuated, turn the adjusting screw slightly clockwise until the motor runs. Do this in small steps. Each time you adjust the trigger point, you must move the toggle switch back to the “OFF” position, then return it to the “ON” position before adjusting the trigger point again. Regardless of the power adjustment you make, the microprocessor automatically “times out” as follows:



Sempre watch winding sequence

- First Winding stops if the power of the gear-motor exceeds the preset adjustment.
- Second Winding continues but slippage occurs if the factory preset slip torque of the safety clutch is exceeded.
- Third Winding stops automatically after 8 minutes

Once winding stops, the motor automatically reverses, rotating the crown counter-clockwise for approximately 3 seconds, to relieve any residual torque in the system. Then, the microprocessor shuts down and begins an electronic time count. After approximately twenty-four (24) hours of “sleep”, the microprocessor “awakens” and again actuates the winding system. This cycle repeats every 24 hours as long as the toggle switch remains in the “ON” position. Each day, the wind/reverse/sleep cycle repeats, replenishing the watch’s diminished mainspring energy as required.

Unlike manual-wound watches with mainspring winding limits, automatic watches have a built-in slip clutch to prevent over-winding. Therefore, the power limit may never be triggered. In that case, the timing circuit becomes the primary trigger for on/off cycling.

Winding Torque Meter Readings



Operating Mode

No load (factory setting)

Torque Trigger points

Safety clutch slippage

Automatic shutoff

Power Reading

10 to 30 percent

40 to 60 percent

60 to 70 percent

Over 80 percent

Motor and/or Clutch Adjustment

The engagement of the motor drive pinion with the safety clutch spur gear is adjustable as is the slip torque setting of the safety clutch. Both have been preset at the factory and should **NOT** require adjustment. Do **NOT** attempt these adjustments on your own. You might render the built-in safety mechanism inoperative, which **will** result in watch damage and void your warranty. Remember, this is a precision instrument and should be handled accordingly.



Mounting your Watch in the winder

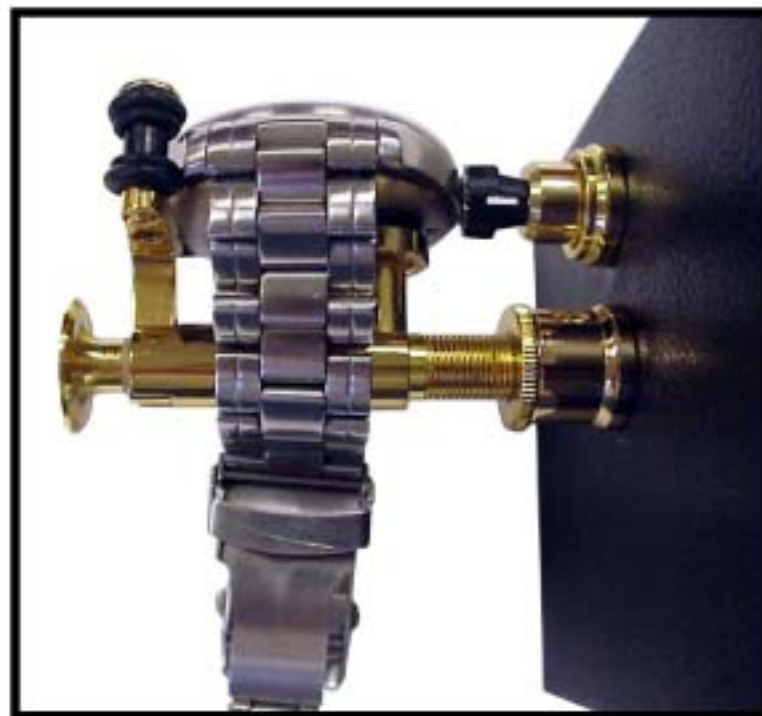
You will probably find it most convenient to mount your watch with the drive module out of the wooden case. Simply lift it out and place it on any level surface. Instructions for mounting your watch are provided under the lift-up cover of the drive module for convenience. Four (4) plastic collets are provided with your SEMPRE winder for a range of crown diameters from 3 to 9 millimeters. Larger diameter collets for oversize wristwatches and mechanical pocket watches can also be supplied on special order. Please check with our customer service department for such needs.



Mounting your Watch in the winder

A plastic snap-in place spacer is included for watches with “screw-down” crowns. The spacer is designed to snap over the watch stem when the crown is pulled out for winding purposes, thus preventing the crown from screwing itself back into its original locked position during the powered winding cycle.

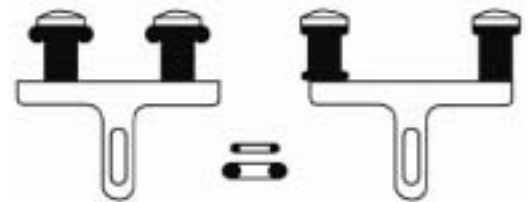
A shuttle extension kit (AN1300) may be ordered separately with your winder. Easily mounted, it has been designed to accommodate unusually large wristwatches and pocket watches up to 60 millimeter in diameter. To mount it, simply unscrew the knob at the end of the shuttle, remove the “tee bar” and screw in the threaded steel part. Then slide the extender over it engaging the support post. Replace the “tee bar” and knob and mount the watch as follows.



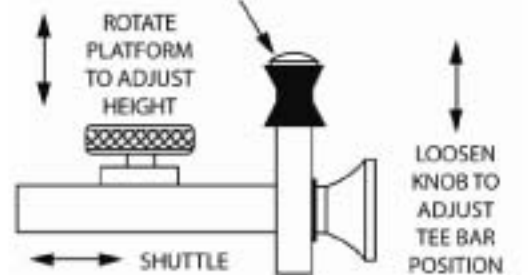
Adjusting the Position of your Watch

After inserting and locking the watch crown in position in the collet, adjust the shuttle components so that the watch is properly supported both axially and radially. The “tee bar” support supplied with your winder accepts several different posts which you can screw in place. Select and install the posts that best conform to the profile of your watchcase. The tee bar support is mounted and adjusted vertically using the knob at the end of the shuttle. The shuttle itself is adjusted, in and out, by hand or by using the knurled threaded nut on its threaded shaft. The bottom support platform with black felt pad is screwed onto the shuttle body and may be rotated to provide up and down adjustment. All contact points are non-metallic to prevent damage to fine watchcase finishes. Refer to the handy mounting instruction guide affixed inside the lift-up cover of the Sempre drive module for further details.

VARIOUS TEE BAR ARRANGEMENTS



USE ONE OR TWO O-RINGS ON EACH SPACER TUBE



Maintenance

No maintenance for the Sempre Watchwinder is required other than occasional battery replacement. All of the gold plated parts have a durable baked lacquer coating. Do not use any abrasives, detergents, or polishes on these parts. Simply buff the surfaces with a soft cotton cloth if desired. All bearings and moving parts are factory lubricated and require no further attention. Maple Burl cases are finished with a multi-coat polyester lacquer finish, requiring no polishing. Leather cases should be treated as you would any other fine leather product.

