

Self Winding Clock Voltage Guide (Non-slave clocks)

Note: This guide is a work in process. Last updated 5-9-2010

| Manufacturer | Clock Type | Voltage | Recommended Power Source | Comments |
|-----------------------------|---|--|--|--|
| Self Winding Clock Co. | Style A, C, F with .008" x .220" x 72" spring; 5.6 Ω coil | 3 volts | Model 1900GS or RS Kit if clock has synchronizer coils. Model 1900L if clock has no synchronizer kit. | Most common clock; dials 16 inches and smaller. Requires 180-210mA for an 8-15 sec/hour wind for F style and 400mA for 5-6 sec/hr with A or C style rotary motor. |
| Self Winding Clock Co. | Style A, C, F with .010" spring, 5.6 Ω coil | 3 volts | Same as above. | Clocks with attachments to seconds shaft such as slave switches, or clocks with large dials. |
| Self Winding Clock Co. | Style A, C, F with .010" x .220" x 72" spring; 200 Ω coil (called Telco clocks) | 24 volts | Model 1900-24V Kit or single 1900R2-24V | Often, but not always, there is a tag on the clock that specifies 24 volts. Style F movements identical to 3 volt unit. Requires 46-50mA for 12-15 second wind per hour. |
| Self Winding Clock Co. | Style E | 6 volts | Pair of Model 1900G-3VN or pair of Model 1900R2-3V. Connect two units in series. | Uncommon |
| Self Winding Clock Co. | Some Style F Later Models, S/N 300000 or above with R prefix using enclosed DC motor | 3 volts | Model 1900G-3VN or Model 1900R2-3V. Do not try to use any other battery, as these are the only units that will have the capacity to start the motor and provide good battery life. | Self Winding Clock Co. used an enclosed 3 volt motor in some clocks circa 1950 for broadcast studio version. Requires up to 3 amps to start, 1 amp to run, for about 1-2 sec/hour depending on condition of motor |
| American Clock Co. | "Getty" movement with pair of weighted arms | 3 volts | One Model 1900G-3VN or Model 1900R2-3V | Requires 0.5-1A for about 200ms every 5-7 minutes depending on size of clock. |
| American Standard Watch Co. | Hipp Toggle Self Winding 80 beat (contact us for 60 beat) | 3 volts | One Model 1900G-3VN or Model 1900R2-3V. | Requires 0.5-1A for about 200ms every 2-4 minutes depending on size and condition of movement. |
| Landis (Cincinnati Time) | Minute impulse wind | 72 Ω coil: 15 volts 12 Ω coil: 6 volts | Model 1900W-UNV (contact us when you order) | These are power hungry clocks. Must be configured for 3 watts vs. <2 watts delivered by standard 1900W-UNV. We have also seen a version with 12 Ω coil. Appropriately configured 1900W-UNV will power either. |
| Standard Electric Clock Co. | Units with two electromagnetic coils at base of movement, impulse wound once per minute, helical mainspring | From 4.5 volts to 24 volts. The 24 volt unit is most common. | Model 1900W-UNV available either as a small 2" tall "hockey puck" module or No. 6 battery kit. | Model 1900W-UNV Clock Winder can be connected directly to coil, conserving contacts and greatly improving battery efficiency. The Model 1900W-UNV will determine the required, proper voltage and apply it. |
| Standard Electric Clock Co. | Motor wound weight driven | 24 volts AC, 120 volts or 240 volts AC | No battery solution for these clocks | Requires AC power |

Self Winding Clock Voltage Guide (Non-slave clocks) Page 2

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| Comments | Comments | Comments | Comments | Comments |
|--------------------------------|--|---|--|---|
| Monarch Master Clock | Minute Impulse | 4.5 volts | Model 1900GS-4.5V or Model 1900R2-4.5V (Will not run reliably on series of alkaline batteries) | These clocks utilize a single 12 ohm coil requiring 4.5 volts to properly activate winding. They can be adjusted to wind on 3 volts but battery efficiency will suffer. With 4.5 volts, the movement is very reliable, battery life is excellent. |
| Stromberg | Minute Impulse style Vintage Master Clocks w/ .008" x .250" x 40" spring | 10 volts most common, but others produced (up to 24 volts) | Model 1900W-UNV | Like the Standard Electrics, the impulse driven Strombergs can be driven directly to the coil by the Model 1900W-UNV. The Model 1900W-UNV will determine the required, proper voltage and apply it. |
| Stromberg | Same as Above | 110 volts | Model 1900W-110V | High voltage unit provides proper signal to wind clock. Connect directly to coil, bypassing contacts and therefore avoiding effects from burned out contacts (particularly notable with the 110 volt units). Coils are usually marked if unit is 110 volts. |
| Synchronome | All A frame movements | 3-4.5 volts | 1900R2 on float charge. Contact us. | Movements virtually the same from 1908 to 1962. Requires 295-320mA for 0.3 second per half minute impulse. |
| English Clock Systems (ECS) | Smiths Gravity Arm | 10-10.5 volts | Contact us | Requires 300-320mA |