

TMI, Corp. Model 114E & 134W Electronic Timelock Movements

Programming 114E & 134W Movements

Figure A

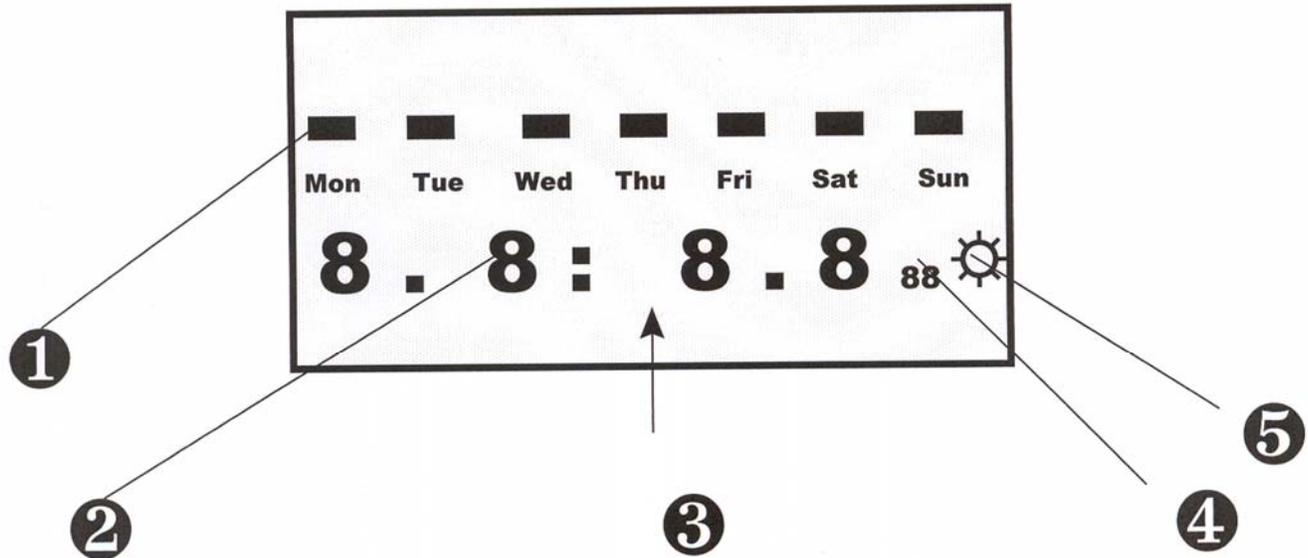


Figure 1: Each day of the week has a cursor line above it. The LCD display shown above is the “power-up” screen seen on both 114E and 134W Electronic timelock movements. After the first time you wind either of these movements, the cursor line will only appear above the day of the next scheduled opening.

Figure 2: The first 2 numerals occupy the space for hours.

Figure 3: The arrow points at the LCD (Liquid-Crystal Display) assembly, followed by two digits that represent actual minutes.

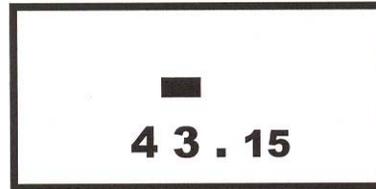
Figure 4: The smaller numerals indicated by Figure 4 are the second’s markers.

Figure 5: The actual symbol that appears here is shaped to represent a typical battery. This is your low battery alert symbol. This symbol appears on initial power-up and whenever the processor senses that adequate current/voltage is not present to operate your movement reliably.

Note: The screen shown above will only appear this way when a new power cell is installed and changes to a normal operating screen as soon as the movement is wound for the first time.

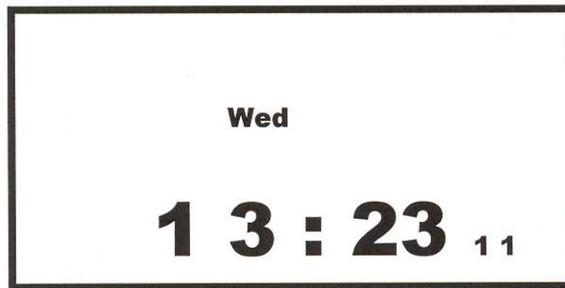
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Figure B



Model 114E movements are “time-only,” which means that they operate in much the same way as a mechanical movement. The display above shows a time setting of 43 hours and 15 minutes. All versions of the 114E can be advanced in 15 minute increments only. All 114E movements feature instant open, which means that the unlocking pin does not release the lock until exact “0” hour. Standard versions of the 114E series can be set for a maximum locking time of 199 hours. A special version is available that can be set for maximum locking time of 999 hours. 114E series movements are available as reset or non-reset. Non-reset movements can not have their locking time altered after 1 minute.

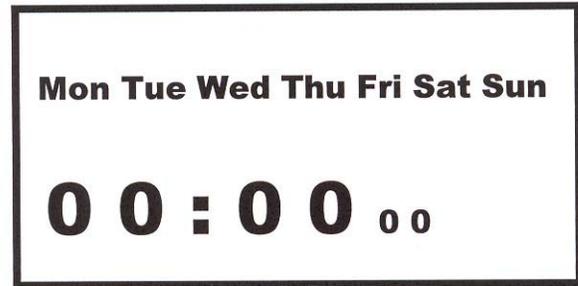
Figure C



The display shows that 1:23 PM has been set as “Real-Time” and that the day of the week is Wednesday. Immediately after the power-up display, model 134W movements will prompt you to install the day of the week and the exact time of day in “military” format. The first time you wind the movement after installing a new power cell, “Mon” will begin to blink. If Mon is not the day of the week, rotate the winding key very slowly clockwise until the actual day of the week is blinking. Stop on the correct day and wait several seconds and you will see the hour start flashing and the day of the week will remain solid. Advance the winding key clockwise to increase, counterclockwise to back-up and reduce the set hour. When you reach the correct hour, pause several seconds until the minute numerals begin to flash. Advance the minute numerals in the same manner as the hour numerals. When you reach the exact minute, stop all winding key motion and carefully remove the winding key from the winding arbor. The entire display will flash several seconds, followed by the unlocking or release of the unlocking pin back to its neutral point. The display will appear similar to the one above. Only the colon will flash while the seconds advance in a normal manner.

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Figure D



Setting the Unlocking/Opening Times for Each Day: After installing “Real-Time” your timelock movement will unwind and the display will look similar to figure C. The next step is to program in an opening time for each day you want the timelock to unlock. For example, your normal time each day to access your safe or vault is 8:15AM. On Saturday, you do not open the safe or vault until 10:00AM and you are closed on Sunday. Start by rotating the winding key counterclockwise until you no longer feel any resistance on the winding key. Immediately, “Mon” will flash. Let the day of the week flash until the hour numerals begin to flash. Once the hour numerals begin to flash, advance the winding key clockwise until “08” appears. If you over-shoot your target hour, reverse key rotation. When you are satisfied with the hour, stop rotating the winding key. Within several seconds, the minute numerals will begin to flash. Set the minutes in the same manner you set the hours. When you are satisfied that the minutes are set correctly, stop rotating the winding key. Within several seconds, “Tue” will begin to flash. Repeat the same process for “Tue” that you did for “Mon.” If your schedule includes a day off either on Sunday or any other day of the week, simply take no action when that day, hour and minute flashes. For each scheduled opening day and time a solid cursor will show above that day, indicating that day has a program in place. Refer to Figure 1. When all the days of the week are programmed, a verifying program takes effect automatically. The entire program sequence will step through each day of the week allowing you to verify the accuracy of your programmed opening days and times. If the days and times are correct, take no action, allowing the verifying program to run its course. At the end of the verification program, the movement will unlock, releasing the movement’s unlocking pin back to the neutral, unlocked position.

Locking your Timelock

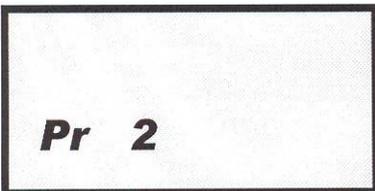
Each business has a set schedule for when they close and lock their safe, chest or vault. Whatever your schedule is will not affect your new timelock movements. Both model 134W and 114E movements can be locked at any time you choose. For model 134W movements, rotate the winding key counterclockwise until almost no resistance is noted. Repeat this process for each movement in the case. Depress the locking button or actuator and ascertain that the trigger (cam or carrying bar) has slid to the fully locked position. Verify that all movements within the case are armed and displaying the next day’s opening time. Close and lock your vault door in the usual manner. If during the preparation of your timelock you noticed a movement that failed to arm correctly, contact your local service company for assistance. In extreme emergencies, you may remove the defective movement from the case, reassemble the timelock and test it for function prior to locking your safe or vault for the night. **Note: this can only be done on timelocks that utilize 3 movements. Timelocks that use only two movements must be repaired prior to locking. Never lock your safe, chest or vault door with only one (1) movement operating correctly.**

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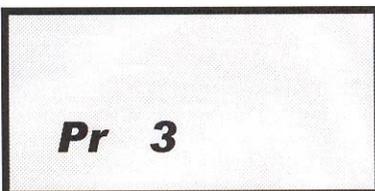
Program 1: This feature is commonly referred to as "Extra-Close/Short-Close." Occasions will arise where it will be desirable to close and lock your safe, vault or chest for a short period of time during the day. This feature allows you to add an additional opening time to your existing program without disturbing your existing programming. Example: The current time is 1:00PM (13:00 military time). You decide to lock your safe

until 4:30PM (16:30 military time). Insert and rotate the winding key counterclockwise until no resistance is felt. Wait 5 seconds and begin rotating the winding key clockwise until the LCD displays "Pr 1". Stop rotating the winding key. When the hour numerals begin to flash, install the next opening hour, which in our example is 16. After installing the hour, wait for the minute numerals to begin flashing. Install the actual minutes of the next opening, which in our example is 30. After you stop rotating the winding key the entire display will flash several times, cease flashing and the unlocking pin will remain in the fully locked position. Prepare all remaining movements in the same manner. Your timelock will now open at 16:30 (4:30PM). This is a one-time program which will not repeat.



Program 2: "Skip A Day" - this feature allows you to cancel a scheduled opening. Example: Monday is a holiday and you want your safe, vault or chest to remain locked rather than open as scheduled Monday morning. Insert and rotate the winding key counterclockwise until no resistance is noted. Wait 5 seconds and begin rotating the winding key clockwise until "PR 1" appears. Continue rotating clockwise, stopping when "PR 2" appears in the display. Each day of the week that

has a scheduled opening time will appear. The cursor will flash above each day individually. When the cursor flashes over the day you wish to cancel, rotate the winding key clockwise until the cursor over that day disappears. You may cancel 6 out of 7 opening times. After the cursor over the day you chose disappears, stop rotating the winding key. After the program steps through the remainder of the days, the movement will release to the fully unlocked position.



Program 3: "Daylight Savings Time" - this feature allows you to adjust "Real-Time" for seasonal changes. Insert and rotate the winding key counterclockwise until no resistance is noted. Wait 5 seconds and begin rotating the winding key clockwise. Scroll through "PR 1 & PR 2" stopping when "PR 3" appears on the display. The hour numerals will begin to flash. Adjust the hour reading up or down by one hour. Shortly

after you stop rotating the winding key, the minute numerals will flash. Adjust the minute reading in the usual manner. After you stop rotating the winding key, the display will begin to flash and release the movement to the fully unlocked position