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## A manual for your Clock. MAJOR d/l warn!

October 22 2007 at 9:37 PM



[Bob Brown](#)

Tony's gonna think I'm on speed or something, but I've been working on this 'off-line' Clock project for over a year and decided to sit down & finish the thing. (something I seem to rarely do!)

The following 4-page "Manual" is dedicated to the X1/9's clock. There's not much out there for info, and what you'll find is basic bits & pieces of what you're looking for. Here, I've concatenated everything into 4 printable sheets in .jpg format, so no one has to search for a place to host them.

Do note the original images are of much higher resolution but I think you'll find these to be adequate for most. Hope you find them useful.

BTW, some of the material was copied "almost verbatim" from a Maserati manual.

Also, if anyone's interested, I've been experimenting with different clock face colors. (using Blue, Yellow & vintage Sperry gas discharge displays)  
Let me know about that & I'll post the pict's.

Enjoy! -Bob Brown 🐸

### The X1/9 Veglia Biturbo Digital Clock

By: Bob Brown  
Oct 23rd, 2007





This digital clock with stop-watch may also be used as an hour meter and has a 4-digit LED display with two warning lights. There are two or three function selectors, pending the clock model you have.

If used as a clock, it displays HOURS and MINUTES or MINUTES and SECONDS. The center warning light flashes.

If used as a stop-watch, it displays MINUTES and SECONDS, SECONDS and TENTHS or HOURS and MINUTES. The right-hand warning light flashes during counting and remains permanently lit when timing is stopped.

With ignition key removed, clock and stopwatch continue to count but LED displays are switched off to avoid unnecessary battery consumption. When the optional center button (Red) is pressed, only the REAL TIME clock in HOURS and MINUTES is displayed.

With the ignition key on, the display remains permanently lit and all features of the clock may be selected. The display light is dimmed if the running lights or headlights are switched on.

In case of power cut, the display will be zeroed and will flash to signal that the clock needs resetting. Check the clock feed lines, fuses and battery terminals if troubleshooting becomes necessary. As the clock ages, missing display segments or intermittent zeroed display is an indication that internal connections could be deteriorating and likely require resoldering.

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1. LED digital display
  2. LED clock warning light:  
- it flashes when the clock is operating
  3. LED stopwatch warning light:  
- it flashes when the stopwatch is counting  
- it remains permanently lit when the stop-watch is STOPPED
- A, C, B - Selector buttons



A C B

Clock Functions: (Operations to be performed in sequence)	Button to be pressed		
	A	C	B
<i>With ignition key in:</i>			
<b>Setting REAL TIME:</b>			
<b>HOURS digits callback</b> – press once. If the displays flash due to previous current cut-out, press twice. <b>HOURL Correction</b> – Make the digits run to the required hour.	●		●
<b>MINUTES digits callback</b>			●
<b>MINUTES correction</b> – Make the digits run until the minutes match those of the master time. (Radio, TV or similar)	●		
<b>SECONDS digits callback</b>			●
<b>SECONDS synchronizer</b> – Keep button A pressed down and release it as soon as the time signal matches the hours and minutes called back in the display – With this operation, the seconds will be zeroed and the clock will remain perfectly synchronized.	●		
<b>REAL TIME reading</b>			●
Changeover from REAL TIME to MINUTES and SECONDS and vice versa.	●		
<i>With ignition key removed (the display is off but counting continues)</i>			
<b>REAL TIME reading</b>		●	

**Clock Functions: (continued)**

STOP-Watch – HOUR METER – Functions: (operations to be performed in sequence)	Button to be pressed		
	A	C	B
<i>With ignition key in:</i>			
<b>Changeover from clock to stopwatch and vice versa</b>		●	
<b>Timing:</b>			
<b>Zeroing</b> – Press A and B simultaneously	●		●

<p><b>Counting start</b> – Stop and vice versa – At the first pulse, counting starts in MINUTES and SECONDS. At the second pulse, counting stops and re-starts as soon as B is pressed again.</p>			●
<p><b>Hour timed reading</b> – At each pulse, the following will subsequently appear on A, in this order: HOURS and MINUTES MINUTES and SECONDS SECONDS AND TENTHS and again HOURS AND MINUTES, etc.</p>	●		
<p><b>REAL TIME reading</b> – At any time during the timing phase it is possible, With the C-RED button, to change over to REAL TIME and vice versa without interfering with stopwatch counting.</p>		●	
<p><i>With ignition key removed</i> – Stopwatch counting continues but it cannot be stopped or read.</p>			

**Wiring the Clock** (viewed from the male plug, facing the connections)

- Red = Pos. (+12V)
- Black = Ground
- Yellow = Display (+12V)
- Gray = Dimmer (+12V)



**Clock Behavior:**

Power (Pos) and Ground connections should always be present to the clock. Interruption of power will reset the clock and require resetting of the correct time. The Yellow wire activates the display and should be powered only when the ignition is switched on. The Gray wire should be powered on only when driving lights are on.

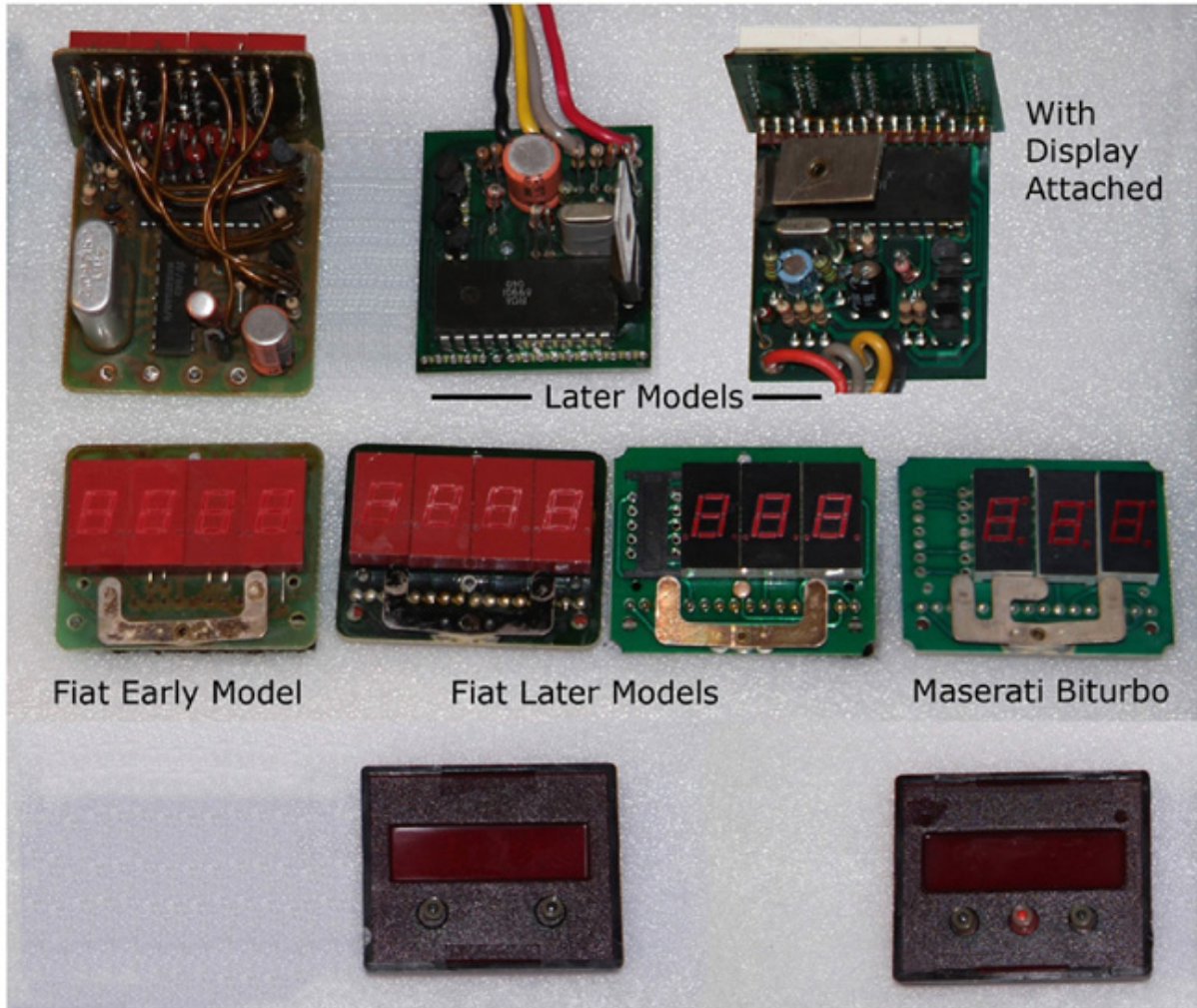
**The Fiat X1/9 Clock - Differences in Models**

The illustration (below) shows the differences in clock models.

Starting from the left of the photo is the original issue X1/9 clock. This clock does only basic functions and does not contain any of the timer functions listed in this document. It is strictly a basic 12 hour clock. These clocks are found up to and including the year 1981.

The remaining later models all use a redesigned main clock board with varying displays. These are found in 1981 and later models. All later model clocks have internal timing functions included, but the displays are what differ slightly. The 3-button Maserati model (to the right of the picture) was never included with the X1/9's but have become a popular improvement to X1/9 owners. All 3 displays are interchangeable with the main clock board. The main boards are configured as 24-hour clocks but can be changed to a 12-hour mode by shorting pins 11 & 12 on the main clock chip. (RCA 89901) Any clock containing the RCA 24-pin clock chip has the capability to use the red function button. You'll note on the X1/9 models, the manufacturer simply removed the button and switch contact.

The displays in these clocks are of type common-cathode, red in color. Some variance in part numbers were used in the later models, likely to save cost.



End of document

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- [Bob... have Mrs. Brown call me... I'm sure there is a "Group" that she can attend. nt](#) - *Tony Natoli, SoCal on Oct 24, 2007*
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