

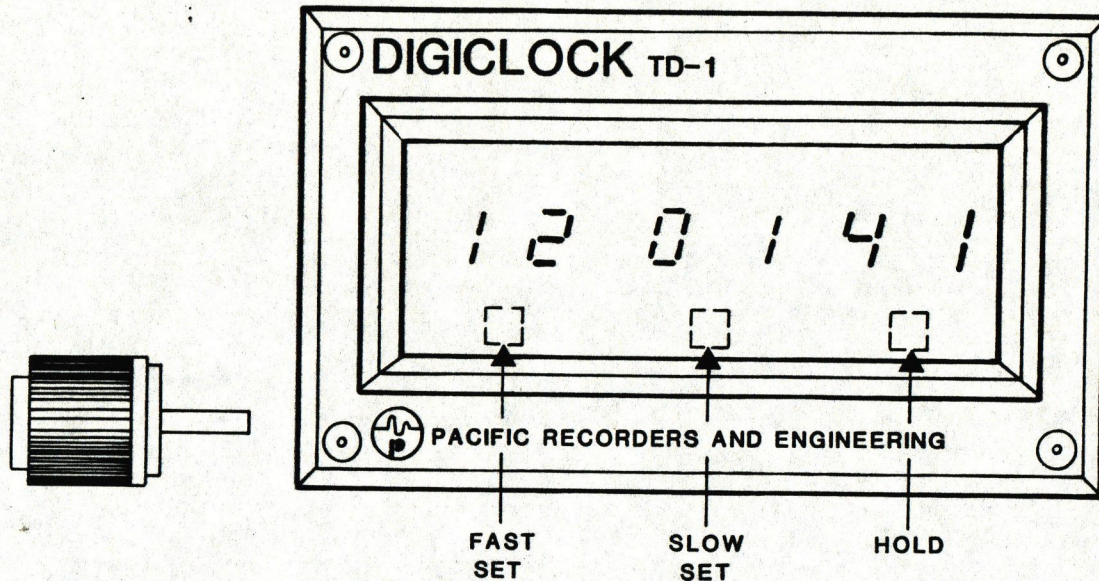


Section 8 ACCESSORIES

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8.1.2 TD-1 DIGITAL CLOCK

TD-1 CIRCUIT DESCRIPTION: The time of day clock is designed around the MM5315 digital clock integrated circuit U3. Time base is supplied by oscillator/divider circuit R1, C1, C2, Y1, U1, R3, R4, and Q3 to pin 20 of U3. The voltage doubler circuit Q1, Q2, C4, CR1, CR2, and C5 provides the high V_{ss} required at pin 15 of U3. The multiplex frequency is established by C3 and R2. The segments of DS1-6 are selected by drivers Q4-10, and the digits are selected by invertors Q11-16 and drivers Q17-22. Hall effect switches U4-6 are magnetically activated to set the clock by respective FAST, SLOW, and HOLD functions.



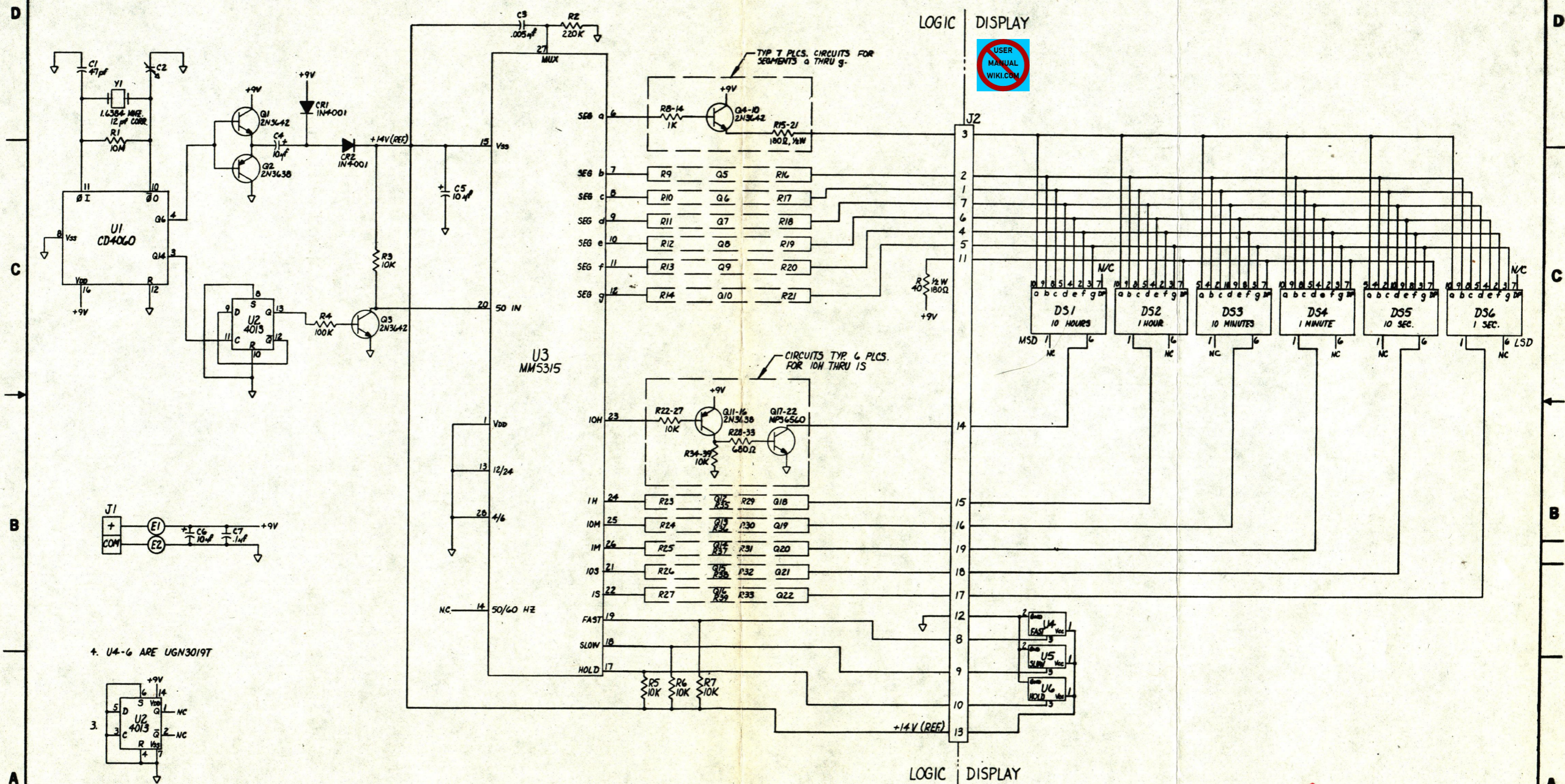
INSTALLATION AND OPERATION: The Model TD-1 Digiclock is a six-digit (hours, minutes, seconds) general-purpose digital clock. It may be mounted in any manner suitable for the application; a hole in a rack panel or in a wooden cabinet are the two most-commonly used mounting methods. The only connections needed to the rear of the unit are for the external power source.

To set or reset the clock requires the use of a small adjusting magnet to operate the magnetically-actuated (Hall-effect) switches located immediately behind the front panel. These switches are centered beneath the pairs of digits, about a quarter of an inch above the bottom of the bezel as shown in the above drawing. The adjusting magnet is supplied with the clock, and is in the form of a bar magnet attached to a knob.

To adjust the clock, hold the shaft of the adjusting magnet against the panel and perpendicular to it, in the appropriate area. The FAST SET switch will advance the minutes and hours. The SLOW SET switch will advance the seconds and minutes. The HOLD switch will cause the clock to remain at its current setting while the magnet is present. This latter switch is used to allow the clock to restart in synchronization with an external standard.

After adjusting the clock, store the adjusting magnet in a secure location. Replacement magnets can be obtained from PR & R, or any other small magnet can be used.

ZONE		LTR		REVISIONS		DATE	APPROVED



4. U4-6 ARE UGN3019T

2. DS1-6 ARE HP-5082-7623

1. ALL RESISTORS ARE IN OHMS, 1/4W, 5% UNLESS OTHERWISE SPECIFIED

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TD-2 &

8.1.2 TD-1 DIGITAL CLOCK

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