

TM-2 AND TM-2R STUDIO TIMER

The Radio Systems studio timer is a versatile, easy to operate accessory with the capacity to time events to 23:59:59. The 2R version of the unit is equipped to readily and simultaneously interface with various types of studio equipment for automatic timing through its integral rear barrier strip connections.

Operation

The timer will automatically count up in one second intervals to a maximum time of 23:59:59, then "roll-over" to 00:00:00. "Reset" returns the display to 0:00:00 when in either the run or stop mode. "Start" initiates or continues the count, and "stop" holds the display constant.

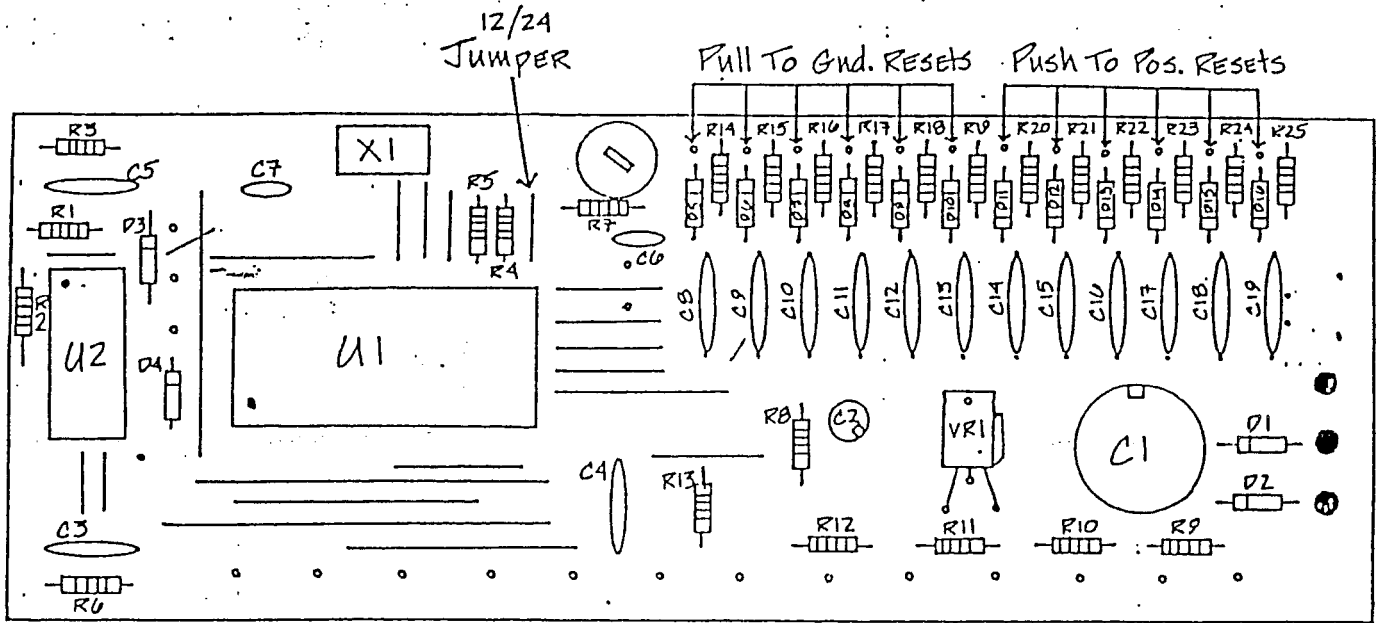
REMOTE INTERFACE (TM-2R VERSION ONLY)

The three front panel push button functions can be accessed on the four left hand screws of the rear terminal strip. "Stop", "start" and "reset" are activated by momentarily shorting the appropriate screw terminals to the ground screw provided.

The reset function can also be activated through the six machine reset terminals on the right hand side of the terminal strip. Each of these terminals is isolated and capacitively coupled so that any studio unit connected can independently reset (and, if in the run mode, re-start) the timer.

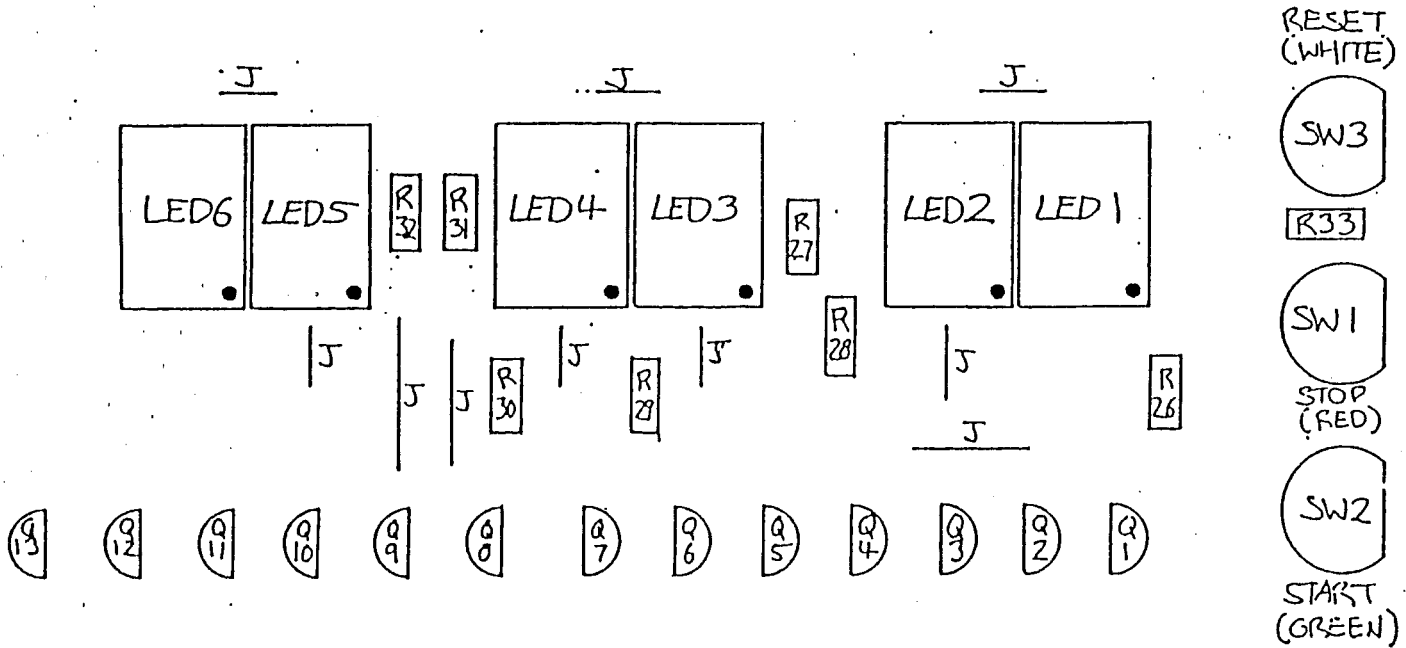
Reset triggering can be activated by either a momentary or holding connection. In addition, the timer can accommodate any combination of six "pull-to-ground" or "push-to-positive" (+15v to +24v) connections. The unit is shipped wired for three pull and three push connections, but can be easily user re-wired internally to change this mix. The illustration attached shows the extra circuit board pads available for re-soldering of remote start wiring.

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601 HERON DRIVE
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REF-DES.	DESC.	PART#	QTY.	UM
	SOCKET 14 PIN	1027	1	EA
	WASHER LOCK #6	1093	1	EA
	SCREW PANHEAD 6-32X1/4	1157	1	EA
	NUT SM PT 6-32	1159	1	EA
	HEAT SINK 5772B	2846	1	EA
	PCB RSM CLK-010	3396	1	EA
C1	CAPACITOR 470 UF 16V POL	1025	1	EA
C2	CAPACITOR 15 UF POL 35V	1026	1	EA
C3-C5;C8-C19	CAPACITOR .1 UF MYLAR	1013	15	EA
C6;C7	CAPACITOR 27 PF SILVER MICA	2710	2	FA
D1;D2	DIODE 1N4004	1020	2	EA
D3-D16	DIODE 1N4148	1012	14	EA
R1-R7;R14-R25	RESISTOR 10K 1/8W 5%	2699	19	EA
R8-R13	RESISTOR 100K 1/8W 5%	2700	6	EA
U1	IC 5509	3393	1	FA
U2	IC MC14011B	2715	1	EA
VR1	VOLTAGE REGULATOR UA7806UC	3395	1	EA
X1	CRYSTAL 4.194304 MHZ	3394	1	EA

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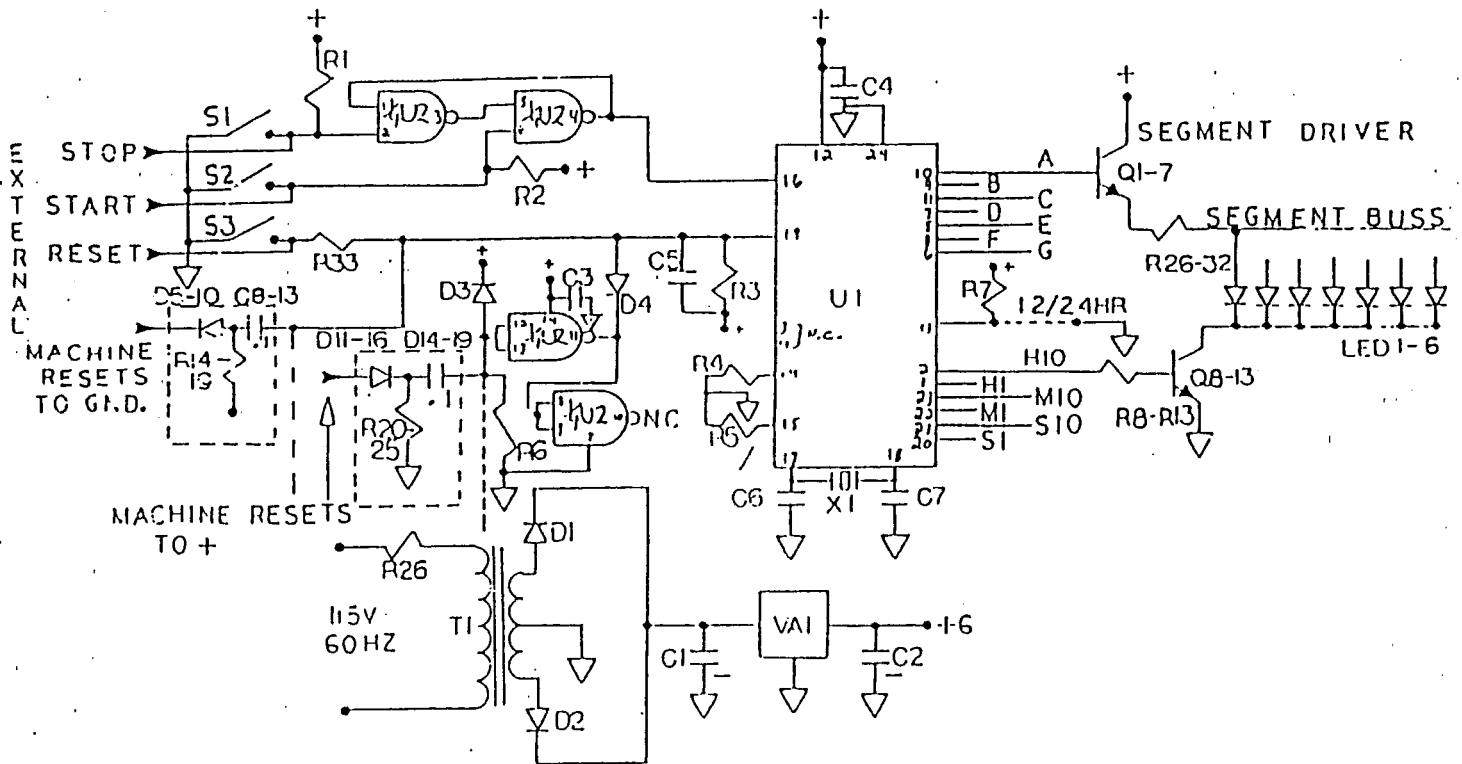


TIMER SIGNAL BOARD

REF-DES.....	DESC.....	PART#	QTY.	UM
	PCB CLK-02A, TM-1 STUDIO TIMER	2947	1	EA
LED1-LED6	LED H01133R DISPLAY	2949	6	EA
Q1-Q7	TRANSISTOR 2N3904	1128	7	EA
Q8-Q13	TRANSISTOR MPS A12	2768	6	EA
R26-R32	RES 22 OHM 1/4W 5%	1028	7	EA
R33	RESISTOR 1K 1/4W 5%	1032	1	EA
SW1	SWITCH 220033 RED	2951	1	EA
SW2	SWITCH 220036 GREEN	2952	1	EA
SW3	SWITCH 220031 WHITE	2950	1	EA

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CL-2 STUDIO CLOCK -- MANUAL ADDENDUM

The Radio Systems studio timer is also supplied, factory modified, to function as a twelve or twenty-four hour studio clock. Observe the following directions for setting the clock or changing to twelve/twenty-four hour operation.

SETTING THE CLOCK

- Step 1 - On the front of the clock depress "STOP" then "RESET"; clock display will read 00 00 00.
- Step 2 - To set minutes, depress and hold the top pushbutton on the year of the unit.
- Step 3 - To set tens-of-minutes, depress and hold the lower pushbutton. On the rear of the unit.
- Step 4 - To set hours, depress and hold both pushbuttons simultaneously.

NOTE: Clock is supplied operating in twelve hour mode. Twenty-four hour mode is achieved by cutting the internal jumper shown in diagram.