



TEKTRONIX®
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technical excellence

MANUAL CHANGE INFORMATION

PRODUCT 832 Instruction
070-2389-00

CHANGE REFERENCE C1/978
DATE 9-1-78

CHANGE:	DESCRIPTION
	<p>EFF ALL SN</p> <p style="text-align: center;">TEXT CORRECTIONS</p> <p>Page 5-7 Second paragraph, third line: CHANGE TO: ...cycles are to allow the MPU to stabilize. U1044D and U1044E which form a Schmitt trigger, and their associated circuitry pull...</p> <p>Page 5-7 Ninth paragraph (all of it): CHANGE TO: The A15 (U1155-25) and R/W (U1155-34) outputs go to U1276B which controls one enable line to the Address Decoder (U1345-19). The output of U1276B, is used as a write disable input that prevents the MPU from attempting to write on any of the upper half of the memory addresses (8000 through FFFF) which are intended as read-only addresses. The VMA (U1155-5) output is inverted through U1035D and applied to the other enable line (U1345-18) of the Address Decoder. This prevents buss components from seeing illegal addresses from the MPU.</p> <p>Page 5-7 Eleventh (last) paragraph, first line: CHANGE TO: The R/W (U1155-34) output that goes through U1172C, U1072C and U1172F to the gate inputs of the tri-state buffers from the...</p> <p>Page 5-10 Last paragraph, lines 3, 4, and 5: CHANGE TO: (U1205A,B, and D and U1105B), then through the MONITOR mode to Modem Simulator mode multiplexers (U1312 A,B,C, and D) and out to the respective DCE or DTE device through line drivers (U1305A,B, and C and U1212A). One circuit (TDATA) is not multiplexed and two others (AUX CLK and DTR) are wired directly through the 832 and picked off by a Schmitt Trigger (U1112B).</p> <p>Page 5-12 Figure 5-6 CHANGE: Nomenclature at left of U1022 terminal 5 to read: ASYNC 2.4576 MHz or SYNC 153 kHz. DELETE: Center contact of S2190 BAUD SWITCH (this is only a two position switch not three as shown).</p>

CHANGE:	DESCRIPTION
<p>Page 5-15</p> <p>CHANGE:</p> <p>CHANGE:</p> <p>ADD:</p>	<p>Figure 5-7</p> <p>U2375D upper right pin to 12 (not 2).</p> <p>The 13 above and right of U2375D to read \bar{W}.</p> <p>DATA LATCH to U3065 nomenclature, and show 8 lines on its output lead.</p>
<p>Page 5-16</p> <p>CHANGE TO:</p>	<p>Third paragraph, first line under READ-ONLY MEMORY (ROM) 2</p> <p>Each ROM is an 8-bit X 2048 word device with eleven address lines. This provides a total hexadecimal equivalent addressing...</p>
<p>Page 5-16</p> <p>CHANGE TO:</p>	<p>Last paragraph, 7th line.</p> <p>...clock (U2028-9 goes LO, which occurs when U2375-11 is LO. U2375D is an OR gate whose output is LO when both \bar{W}...</p>
<p>Page 5-17</p> <p>CHANGE:</p> <p>CHANGE:</p> <p>ADD:</p> <p>ADD:</p> <p>ADD:</p>	<p>Figure 5-8.</p> <p>U2028 CLK pin number to 9 (not 11).</p> <p>U3145 pin 4 nomenclature to \bar{RBO}.</p> <p>+5V at Q2135 emitter.</p> <p>R2035 in series with Q2135 base lead.</p> <p>R3137 in series with Q2135 collector lead.</p>
<p>Page 5-18</p> <p>DELETE:</p>	<p>Table 5-6</p> <p>Column D numbers and bottom two rows of numbers.</p>
<p>Page 5-18</p> <p>CHANGE TO:</p>	<p>First paragraph, fifth line:</p> <p>...decoded to drive the segments. \bar{EL} is provided by OR gate U2375D, which will be LO whenever both \bar{W} is LO (the MPU is...</p>
<p>Page 5-19</p> <p>CHANGE TO:</p>	<p>First paragraph, third line:</p> <p>...turned on by either the Read/write Strobe (U2016) through U2008, or Bank Strobes (U2365A)...</p>
<p>Page 5-19</p> <p>CHANGE TO:</p>	<p>Fifth paragraph, third and fourth lines:</p> <p>...Q3014 (+0.7V), CR3012 (+0.7V) and DS3010 (+1.6V) for a +3 volt threshold. These same relative voltage drops occur with Q3114, CR3011 and DS3110, but in a negative direction for a -3 volt threshold.</p>

CHANGE:	DESCRIPTION
<p>Page 5-20</p> <p>ADD: Pin 9 to U2028 CLK terminal.</p> <p>ADD: A connecting line from U2375A pin 3 to an added inverting CLK pin 9 input for U3065.</p> <p>ADD: Pin 2 to BANK STROBE D terminal.</p> <p>CHANGE: Nomenclature for control lines at right of U3065 to read:</p>	<p>Figure 5-9</p> <p>TO OTHER LED'S THROUGH U3180A-F.</p>
<p>Page 5-21</p> <p>CHANGE TO:</p>	<p>Fifth paragraph, first line:</p> <p>A LO on the U1312 SEL line also causes a LO at U1105A-2 through CR1304. This sets U1105-3 H1, which lets U1212D...</p>
<p>Page 5-21</p> <p>CHANGE TO:</p>	<p>Eighth paragraph, second line:</p> <p>...drivers (U1212A,B,C, & D and U1305A,B,C, & D) and reinserted on the RS-232 interface.</p>



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PRODUCT 832 Instruction
070-2389-00

CHANGE REFERENCE C2/978
DATE 9-11-78

CHANGE:

DESCRIPTION

EFF ALL SN

DIAGRAM CHANGE

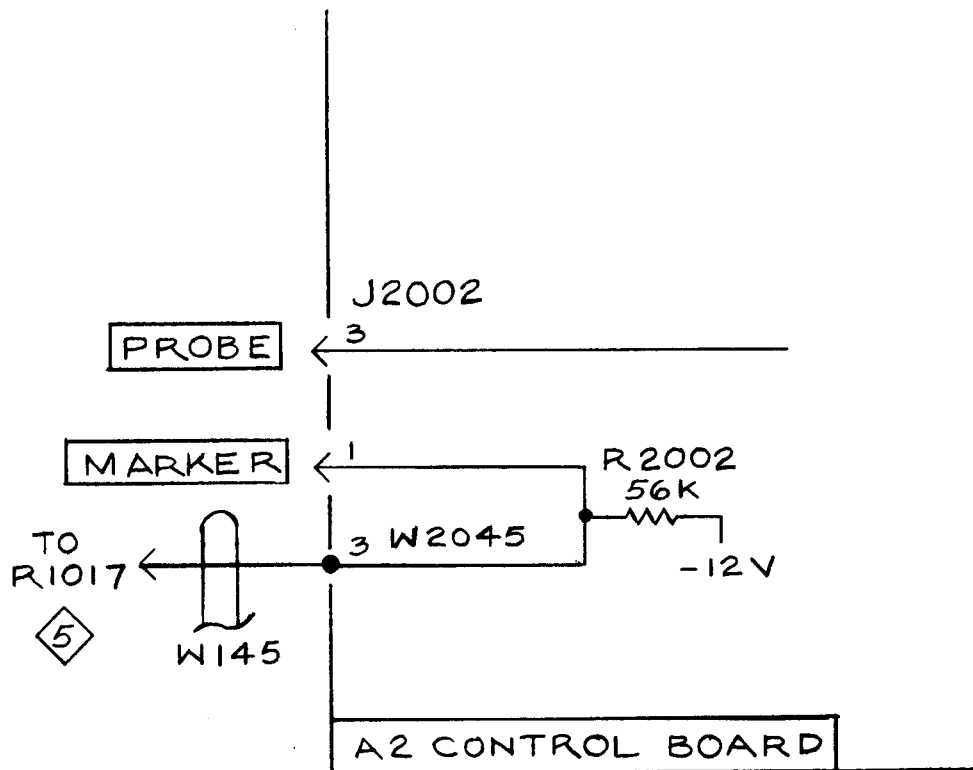
ADD:

REF

R2002, 56K OHM, 0.25W, 5% resistor to A2 CONTROL board on CONTROL
CIRCUITS diagram 4 as shown below. R2002 is located on back of
A2 CONTROL board.

PC #1

PARTIAL



Steve Propcopy

CHANGE	DESCRIPTION
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EFF SN: B010100 (OR AS INDICATED)

MECHANICAL PARTS LIST AND ILLUSTRATION CORRECTIONS.

FIG. 1 EXPLODED

CHANGE TO:

				<u>REF</u>
1-1	200-2200-00	1	COVER, TOP: PLASTIC	
1-14	211-0658-00	2	SCREW ASSEM WSHR: 6-32 X 0.312 INCH, PNH STL	
1-15	211-0658-00	2	SCREW ASSEM WSHR: 6-32 X 0.312 INCH, PNH STL	
1-25	352-0522-00		(DELETE 14 LED HOLDER AT SN B010230)	PC 9
1-28	407-2129-00	2	BRACKET, CKT BD: ALUMINUM	
1-29	211-0661-00	4	SCREW, MACHINE: 4-40 X 0.25 INCH, PNH STL	
1-31	211-0658-00	6	SCREW ASSEM WSHR: 6-32 X 0.312 INCH, PNH STL	
1-32	ADD FOLLOWING EXISTING ENTRY: ATTACHING PARTS, 2 EA SCREW 2-56 X.250			
1-36	263-0019-07	1	. SWITCH PB ASSY: MOMENTARY (ORANGE) S2611 IN EPL	
1-38	263-0019-08	1	. SWITCH PB ASSY: MOMENTARY (BLUE) S2631 IN EPL	
1-39	352-0522-01		(NO CHANGE)	
	263-0043-00	1	. SWITCH SL ASSY: SYNC-ASYNC	
			(ATTACHING PARTS)	
1-40	220-0828-00		(NO CHANGE)	
			. . SWITCH ASSY INCLUDES:	
1-41	(NO CHANGE)			
1-42	(NO CHANGE)			
1-43	(NO CHANGE)			
1-44	380-0541-00	1	. . HOUSING, SL SW: 2 OF 6 POSITION	
	FOLLOWING 1-44 380-0541-00 ADD - - - * - - - BEFORE THE 263-0041-00 ENTRY.			
1-45	220-0828-00		(NO CHANGE)	

FOLLOWING 1-45 ENTRY: REPLACE DASHES AND ASTERISK WITH "SWITCH ASSEMBLY INCLUDES:" THEN CONTINUE WITH 1-46 THROUGH 1-49

NOTE

The mounting hole position for ITEMS 1-46, 1-47, 1-48 and 1-49, on the board should be one set of holes to the right of the ones indicated in exploded view Fig. 1. The holes indicated in Fig. 1 are required for the right hand set of 1-51, 1-52, 1-53 and 1-54 with the other two assemblies attached in holes at its left.

CHANGE	DESCRIPTION		REF
	FOLLOWING 1-49 ENTRY: ADD - - -* - - - BEFORE THE 263-0040-00 ENTRY.		
	FOLLOWING 1-50 ENTRY: REPLACE THE DASHES AND ASTERISK WITH "SWITCH ASSEMBLY INCLUDES:"		
	FOLLOWING 1-54 ENTRY: ADD - - -* - - - BEFORE THE 1-55 ENTRY.		
1-56	211-0661-00	1 . SCREW,MACHINE:4-40 X 0.25 INCH,PNH STL	
1-57	407-2134-00	1 . BRACKET,CKT BD:ALUMINUM	
	(ATTACHING PARTS)		
1-58	211-0658-00	1 . SCREW ASSEM WSHR:6-32 X 0.312 INCH,PNH STL	
1-61	211-0661-00	3 . SCREW,MACHINE:4-40 X 0.25 INCH,PNH STL	
1-63	386-3940-00	1 PANEL,DISPLAY:(WITH ADHESIVE)	
1-64	333-2461-00	1 PANEL,FRONT:ATTACHING PARTS INCLUDE:	
	211-0503-00	4 . SCREW,MACHINE,6-32 X 0.188,PNH,STL	
	210-0055-00	4 . WASHER,LOCK #6 SPLIT,0.031 THK STL	
	210-0803-00	4 . WASHER,FLAT,0.15 ID X 0.032 THK,STL	
	211-0014-00	4 . SCREW,MACHINE,4-40 X 0.500, PNH,STL	
1-65	105-0777-00	2 LATCH,LID:(ADDED AT SN B010328)	PC 9
1-71	200-2214-00	1 COVER,FRONT:PLASTIC,832	
	214-2743-00	2 HINGE,COVER:832 (ATTACHING PARTS)	
1-82	211-0012-00	(DELETED AT SN B010328)	PC 9
1-83	210-0586-00	(ADDED AT SN B010328)	PC 9
1-84	337-2591-00	(DELETED AT SN B010328)	PC 9
1-105	441-1426-00	(NO CHANGE)	
	(ATTACHING PARTS)		
	211-0504-00	1 . SCREW,MACHINE,6-32 X 0.250 INCH,PNH,STL	
1-106	337-2594-00	(NO CHANGE)	
	(ATTACHING PARTS)		
	210-0405-00	2 . NUT,PLAIN,HEX,2-56 X 0.188 BRS	
1-107	211-0001-00	(This entry is attaching part for 1-108 and should follow it rather than 1-106)	
1-121	200-2061-00	(Delete - this part is not replaceable)	
1-124	202-0240-01	(NO CHANGE)	
	105-0779-00	2 . LATCH,ACCESSORY BOX	

CHANGE	DESCRIPTION	
MECHANICAL PARTS NOT ILLUSTRATED		
		<u>REF</u> PC 9
337-2635-00	1 SHIELD, POWER SUPPLY (ADDED SN B010328)	
211-0244-00	1 SCREW ASSEM WSHR:4-40 X 0.312,PNH,STL	
198-3984-00	1 WIRE SET,ELEC (GROUND CABLE)	
211-0007-00	1 SCREW,MACHINE:4-40 X 0.188 INCH,PNH,STL (ATTACHES GROUND CABLE TO FRONT PANEL)	
211-0504-00	2 SCREW,MACHINE,6-32 X 0.250 INCH,PNH,STL (ATTACHES CABLE TO POWER SUPPLY CHASSIS)	
211-0097-00	1 SCREW,MACHINE:4-40 X 0.312 INCH,PNH,STL (ATTACHES CABLE TO PROCESSOR BOARD)	
210-0586-00	1 NUT,PL,ASSEM WA:4-40 X 0.25 INCH STL (ATTACHES CABLE TO PROCESSOR BOARD)	