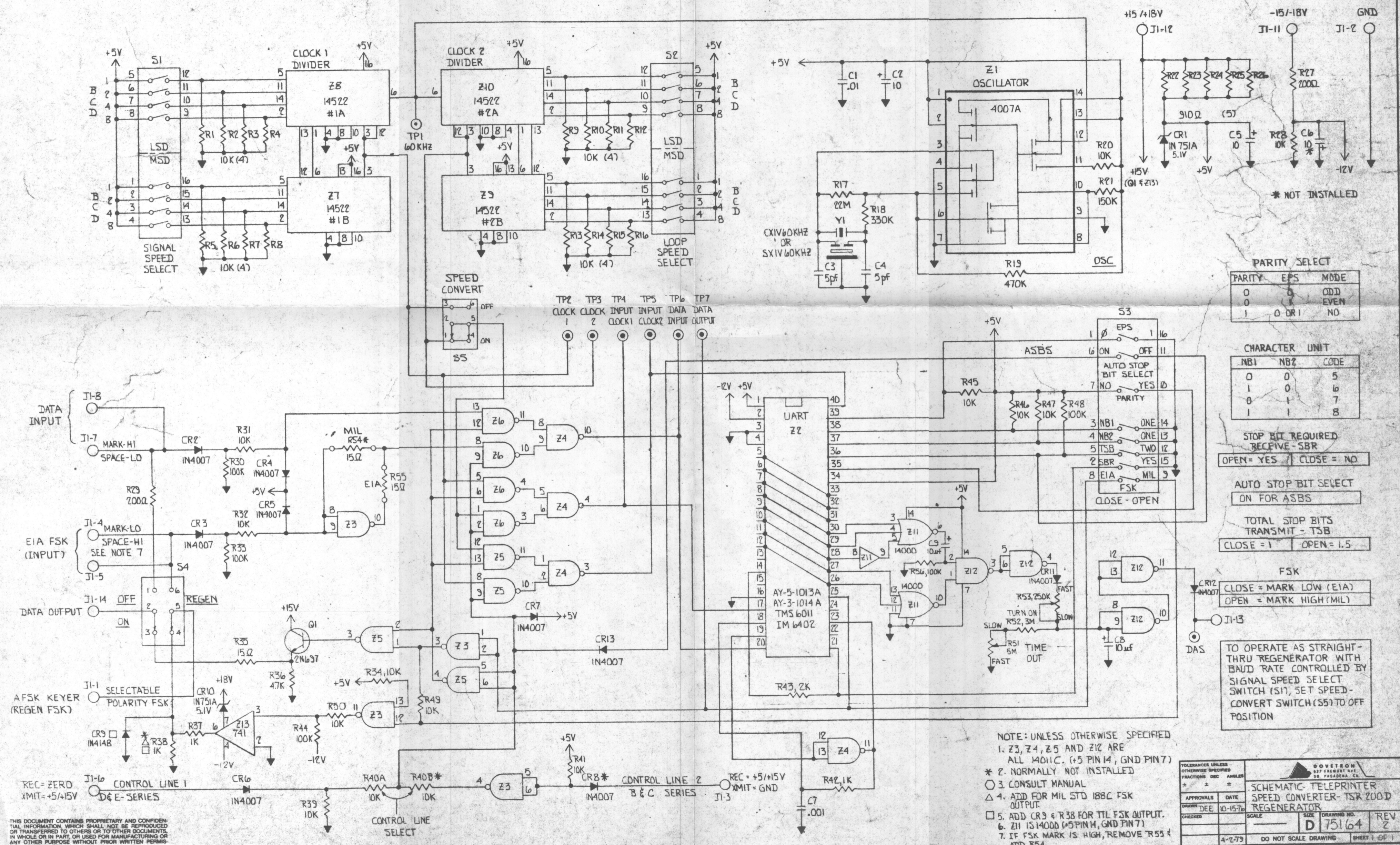


REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
1	REVISED	11-5-78	
2	ADDED C9 & R56	4-2-9	



PARITY SELECT

PARITY	EPS	MODE
0	0	ODD
0	1	EVEN
1	0 OR 1	NO

CHARACTER UNIT

NB1	NB2	CODE
0	0	5
1	0	6
0	1	7
1	1	8

STOP BIT REQUIRED RECEIVE-SBR
 OPEN = YES / CLOSE = NO

AUTO STOP BIT SELECT
 ON FOR ASBS

TOTAL STOP BITS TRANSMIT - TSB
 CLOSE = 1 / OPEN = 1.5

FSK
 CLOSE = MARK LOW (EIA)
 OPEN = MARK HIGH (MIL)

TO OPERATE AS STRAIGHT-THRU REGENERATOR WITH BAUD RATE CONTROLLED BY SIGNAL SPEED SELECT SWITCH (S1), SET SPEED-CONVERT SWITCH (S5) TO OFF POSITION

- NOTE: UNLESS OTHERWISE SPECIFIED
- Z3, Z4, Z5 AND Z12 ARE ALL 1401C. (+5 PIN 14, GND PIN 7)
 - * 2. NORMALLY NOT INSTALLED
 - 3. CONSULT MANUAL
 - △ 4. ADD FOR MIL STD 188C FSK OUTPUT
 - 5. ADD CR9 & R38 FOR TTL FSK OUTPUT.
 6. Z11 IS 1400D (+5 PIN 14, GND PIN 7)
 7. IF FSK MARK IS HIGH, REMOVE R55 & ADD R54.

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DOVETRON
 427 FREMONT AVE.
 10 PASADENA, CA.

SCHEMATIC TELETYPE
 SPEED CONVERTER-TSR 200D
 REGENERATOR

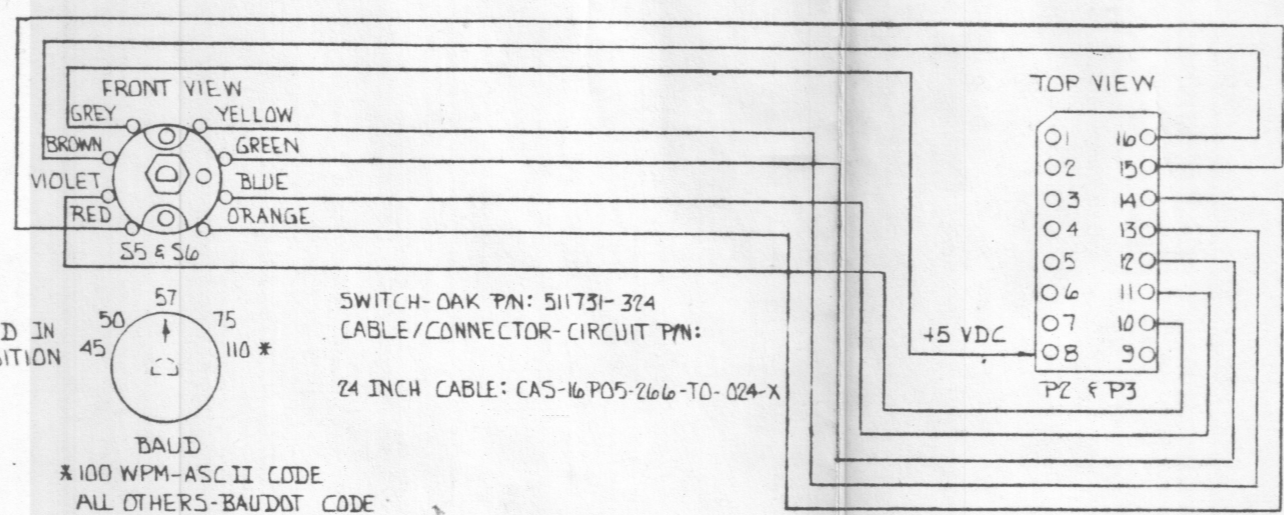
APPROVALS: DATE: 10-15-78
 DRAWN: DEE
 CHECKED: []
 SCALE: [] SIZE: [] DRAWING NO.: D 75164 REV: 2
 4-2-79 DO NOT SCALE DRAWING SHEET 1 OF 1

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
1	REVISED	11-5-75	RE
2	ADDED C9 + R56	4-2-76	

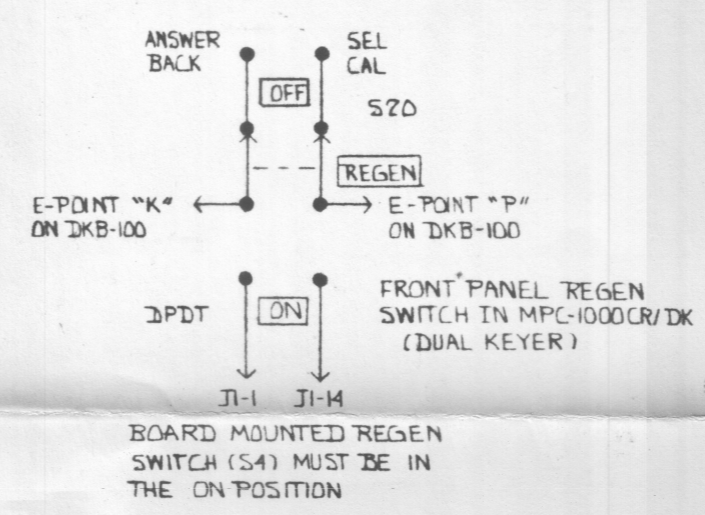
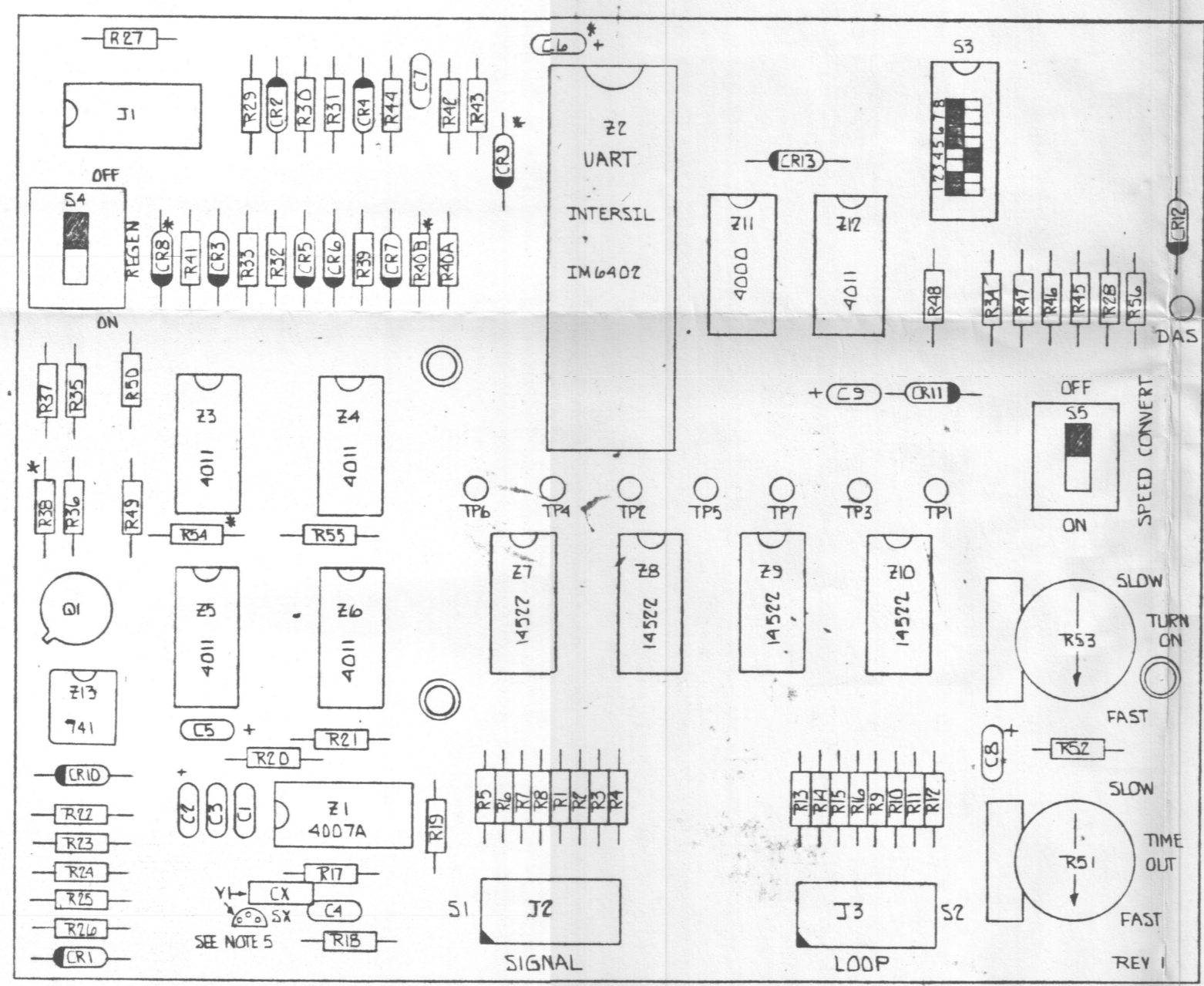
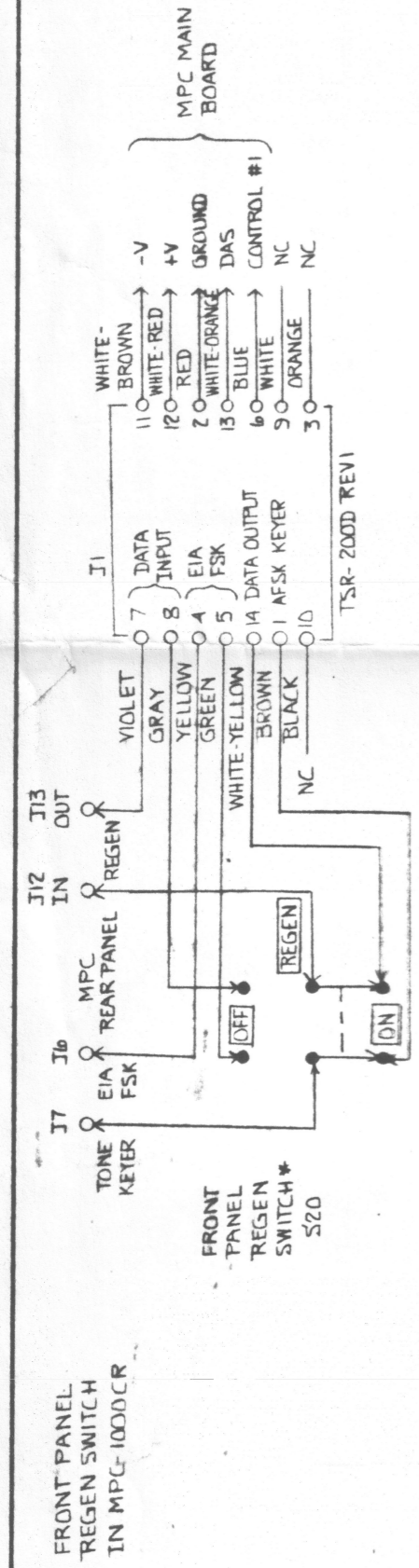
* BOARD MOUNTED REGEN ON-OFF SWITCH (S4) MUST BE IN ON POSITION

SWITCH CODING									
WPM	BAUD	BROWN	RED	ORA	YEL	GRN	BLU	NC	BCD
60	45	0	0	0	1	0	1	0	82
67	50	1	1	1	0	1	0	1	75
75	57	0	1	1	0	0	1	1	66
100	75	1	0	1	0	0	0	0	50
100	110	1	1	0	0	0	0	1	34

GREY (PINS) IS +5VDC & PROVIDES BINARY ONE



SWITCH ILLUSTRATED IN CENTER (57 BAUD) POSITION
 SWITCH-OAK P/N: 511731-324
 CABLE/CONNECTOR-CIRCUIT P/N:
 24 INCH CABLE: CAS-16 P05-2666-TO-024-X
 BAUD
 * 100 WPM-ASC II CODE
 ALL OTHERS-BAUDOT CODE



⊙ MOUNTING HOLES

- NOTE: UNLESS OTHERWISE SPECIFIED
1. INSTALL SOCKETS UNDER ALL TRANSISTORS, I.C.'S AND CRYSTAL.
 2. INSTALL 14 PIN I.C. LOW PROFILE SOCKET AT J1.
 3. INSTALL 16 PIN I.C. LOW PROFILE SOCKET AT J2 & J3
 - * 4. CR8, CR9, R38, R40B, R54 AND C6 NOT NORMALLY INSTALLED.
 5. CX & SX TYPE CRYSTALS ARE INTERCHANGEABLE.

FOR HIGHER BAUD RATES, REMOVE C3 AND C4 AND INSTALL 153.6 KHz CRYSTAL AT Y1.

BAUD	BCD	BAUD	BCD
100	96	1200	08
110	87	2400	04
150	64	4800	02
300	32	9600	01
600	16		

MPC-1000CR/T TEMPEST
 REMOVE R55 AND DISCARD,
 INSTALL R54 JUMPER.
 INSTALL SBR-100 ASSY.
 PROGRAM SBR SWITCH FOR
 100 BAUD (BCD38).

ITEM	REQD	PART NO.	REF DES	DESCRIPTION	SPEC	REC MANUFACTURER
34	1	μA741	Z13	OP AMP MINIDIP		T.I.
33	1	3355U-1	R51	POT, 5M		BOURNS
32	1	3355U-1	R53	POT, 250K		BOURNS
31	1	SX-1V60KHZ	Y1	CRYSTAL, 60,000 KHZ ± .05%		STATEK
30	3	SL 100B	S1,2,3	SWITCH, 8PST DIP		CONTROL SWITCH
29	2	C567D6LZ	S4,5	SWITCH, PC, DPDT		SWITCHCRAFT
28	1	IM6402	Z2	CMOS, LSI (UART)		INTERISIL
27	1	4007A	Z1	CMOS		RCA
26	4	14522	Z7-10	CMOS		MOTOROLA
25	5	14011	Z3-6,12	CMOS		RCA
24	1	14000	Z11	CMOS		MOTOROLA
23	5	CARB FILM	R22-Z6	RESISTOR 910Ω, 1/4W, 5%		BEYSCHLAG
22	1	CARB COMP	R17	22M		IRC-TRW
21	1	CARB FILM	R19	470K		R-OHM
20	1		R18	330K		
19	1		R21	150K		
18	30		R1-16, 20, 28, 31, 32, 34, 39, 40A, 40B, 41, 45-47, 49, 50	10K		
17	1		R36	4.7K		
16	1		R43	2K		
15	3		R37, 38, 42	1K		
14	2		R27, 29	200Ω		
13	5		R30, 33, 44, 48, 56	100K		
12	3	CARB FILM	R35, 54, 55	RESISTOR 15Ω 1/4W 5%		R-OHM
11	1	2N697	Q1	TRANSISTOR, NPN SIL		MOTOROLA
10	3	LPS-3B	Q1, 2, Y1	SOCKET, XSTR		CINCH
9	2	1N751A	CR1, 10	DIODE, ZENER 5.1V		MOTOROLA
8	8	1N4007	CR 2-7, 8, 9, 11, 12, 13	DIODE, SIL		MOTOROLA
7	1	MTA-206N	S20	SWITCH, DPDT, FRONT PANEL		ALCO
6	5	TANTALUM	C 2, 5, 6, 8, 9	CAPACITOR, 10μf, 16V		ITT
5	1	CERDISC	C1	.01μf		DILECTRON
4	1	CERDISC	C7	.001μf		DILECTRON
3	2	S MICA	C3, 4	CAPACITOR, 5pf, CM06		EL MENCO
2						
1	1	TSR 200D		P.C. BOARD (75172)		DOVETRON

MARK II

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TOLERANCES UNLESS OTHERWISE SPECIFIED		DOVETRON 227 FREMONT AVE SAN PABLO, CA	
FRACTIONS	DEC	ANGLES	
±	±	±	
APPROVALS	DATE	ASSEMBLY- TELEPRINTER SPEED CONVERTER - REGENERATOR	
DRAWN DEE	7-24-75	TSR 200D	
CHECKED		SCALE	SIZE DRAWING NO. REV
		4:26	2:1 D 75171 2
		4:2-9	DO NOT SCALE DRAWING SHEET 1 OF 1