

- NOTE: UNLESS OTHERWISE SPECIFIED
- * C6, CR3, R62B NOT NORMALLY INSTALLED.
 - INSTALL 14 PIN I.C. SOCKET AT J1 & J2.
 - INSTALL SOCKETS UNDER ALL TRANSISTORS, I.C.'s AND CRYSTAL.
 - LOW PROFILE SOCKETS MUST BE USED AT LOCATIONS J1, J2, S1 & S2.
 - SOCKET NOT USED UNDER SWITCH S3.
 - DS1 & DS2 NOT USED WHEN BOARD IS INSTALLED IN MPC 1000R.

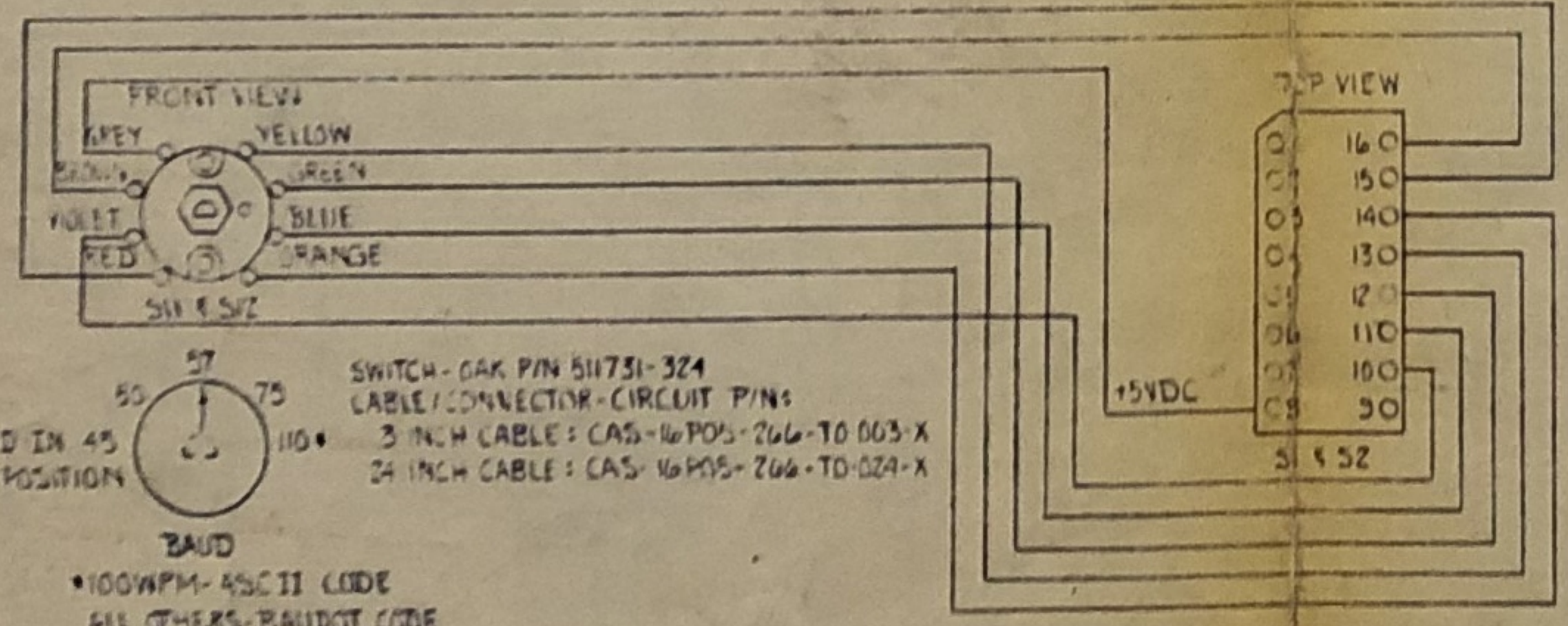
⊙ MOUNTING HOLES

NO.	1	2	3	4	5	6	7	8	9	10
45	0	0	0	1	0	1	0	0	0	0
50	1	1	1	1	1	0	1	0	1	0
57	0	1	1	1	0	0	1	1	0	0
75	0	1	1	0	0	1	1	1	0	0
10	1	0	1	0	0	0	0	0	0	0
100	1	1	0	1	0	0	1	1	0	0

GRAY (PIN 8) IS +5 VDC & PROVIDES BINARY ONE

TWO 3 INCH CABLE ASSEMBLIES REQUIRED IN EACH MPC1000R.

ONE 24 INCH CABLE ASSEMBLY IS PROVIDED WITH EACH TSR-500 FOR REMOTE SIGNAL SPEED CONTROL.



PINS 1-7 & 9 NOT USED
 PLUG FITS STANDARD
 16 PIN DIP SOCKET

PROPRIETARY

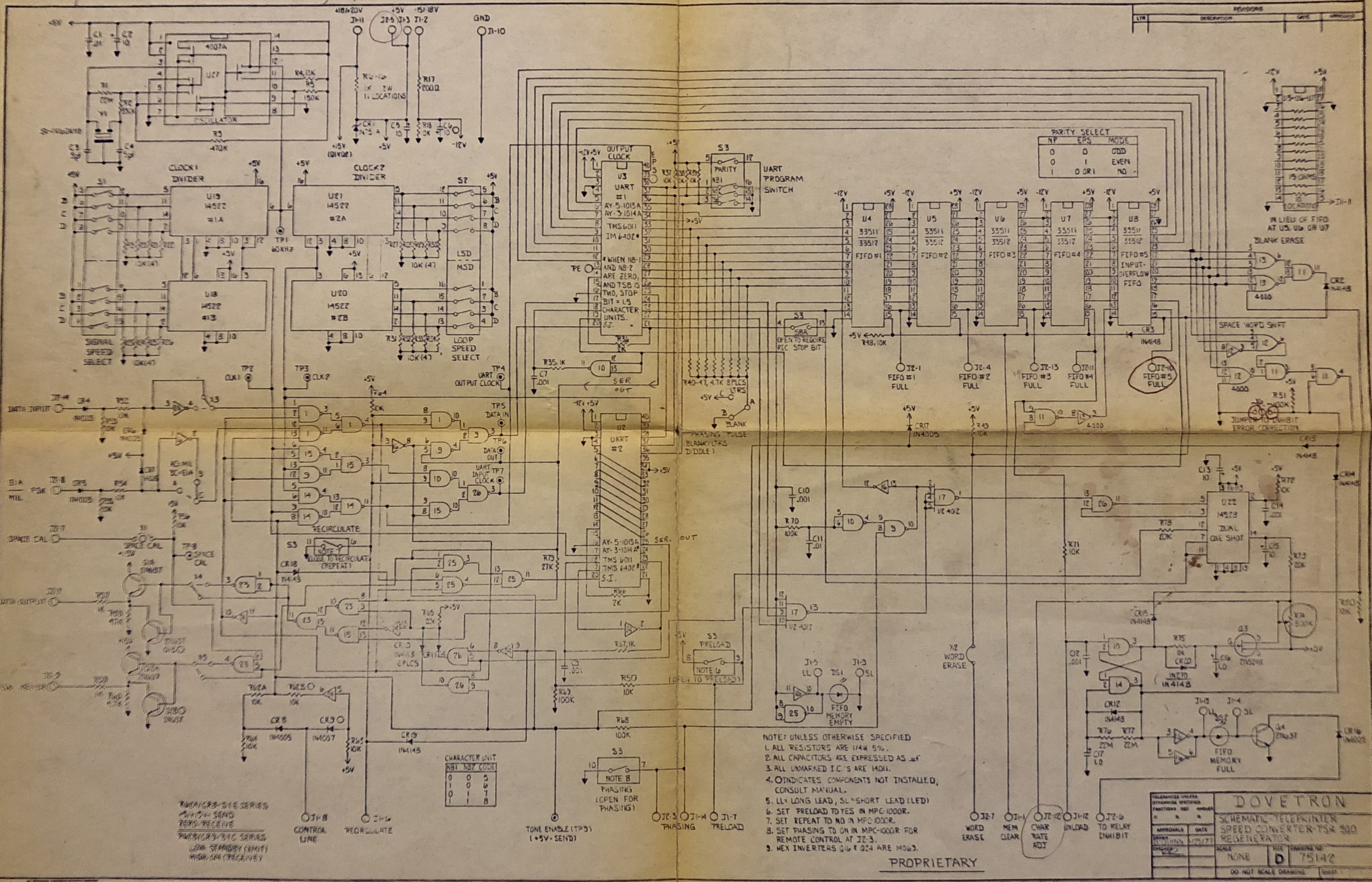
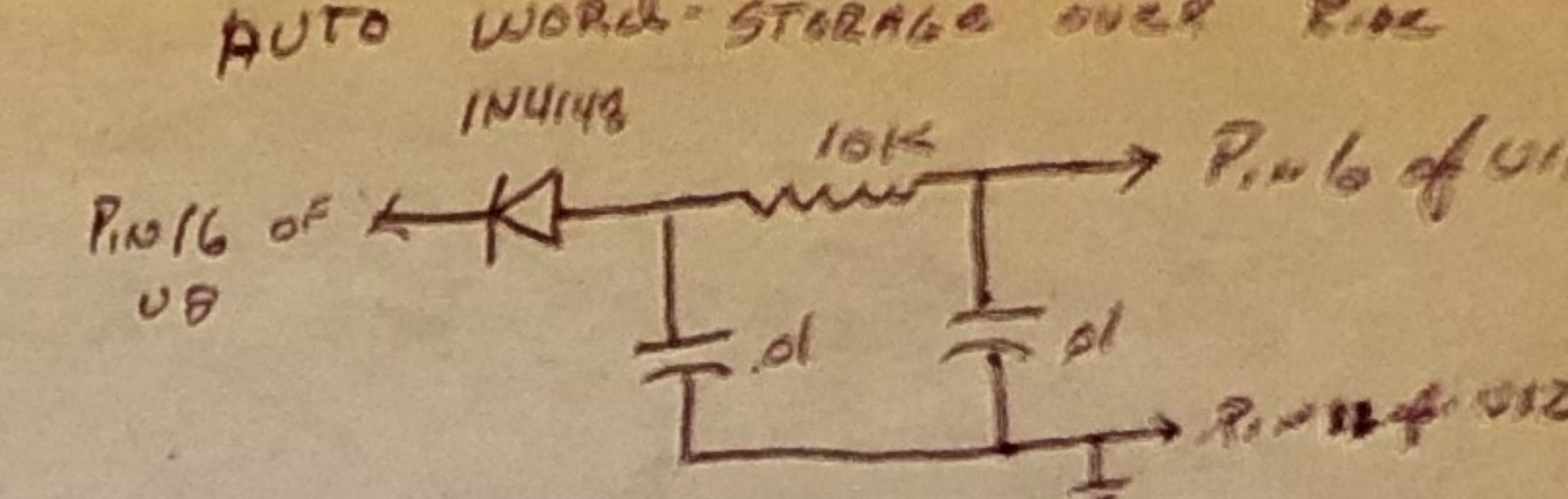
REV.	Q.C.	DESCRIPTION	QTY	QTY	APPD.	DATE
43	3	9L1008	S1.2.3	SWITCH		CONTL SWITCH
41	1	6X-1V00KHZ	Y1	CRYSTAL		STATE K
4	2	1M5402	U2.3	I.C.		INTEREL
4	5	33512	U4-8			FAIRCHILD
55	1	4528	U22			MOTOROLA
55	4	14522	U18-21			
57	2	4069	U16.24			
56	1	4012	U17			
55	9	14011	U1.9-11, 14, 15, 23, 24, 25			
55	2	14000	U12.13			MOTOROLA
57	1	4007A	U27	I.C.		TECA
57	1	PT15YD	R14	POT 50K		PHENIX
57	1	447B COMP	R1	PRESISTOR 200 Ω 1/4 W 5%		IRC
57	1	CARB FILM	R15			BOESCHLAG
57	1		R3			
57	1		R2			
57	1		R5			
57	2		R51, R8, R9			
57	1		R79			
57	3		R15, R3, R6			
57	37		R4, R8, R34, R35, R36, R48-50, R1-54, U1, U2, U16, U3, U4, U17, U20			
57	10		R4C, U22, U20			
57	2		R1, R2			
57	4	CARB FILM	R3, R5, R7, R16			
57	1	CARB COMP	R6-16			BOESCHLAG
57	1	CARB FILM	R17	PRESISTOR 200 Ω 1/4 W 5%		IRC
57	2	HI-DOME	DS1, DS2	LED RED		OPCO
57	1	2N5248	Q3	TRANSISTOR 3FET		NSC
57	5	2N697	Q1A, B, 2A, 2B, 4	TRANSISTORS NPN SIL		MOTOROLA
57	1	51731-324		SPEED SWITCH		DAK
57	1	N751A	CR1	DIODE ZENER 5.1V		MOTOROLA
57	0	1N4148	CR2, 3, 10, 15, 19	DIODE SIL, SIGNAL		
57	1	1N4007	CR 9*	SIL 1KV		
57	7	1N4005	CR 4-8, 16, 17	SIL		
57	9	1N570	CR 20	DIODE GERMANIUM		MOTOROLA
57	7	TSR-500		CABLE ASSY.		CIRCUIT PARTY
57	7	TANTALUM	C2.5, 15, 15(2)*	CAPACITORS 10 μF		ITT
57	6	TANTALUM	C16, 17			ITT
57	5	CEP DISC	C1.8, 11	.01 μF		DILECTRON
57	4	CEP DISC	C1.9, 10, 12, 14	.001 μF		DILECTRON
57	3	SMICA	C3.4	CAPACITOR 5pF		EL MENDO
57	2					
57	1	TSR500		PC BOARD (75140)		DOVETRON
		PART NO.	REP DES	DESCRIPTION	SPEC	REVISIONS/ISSUE OR EQUIPMENT

LIST OF MATERIAL

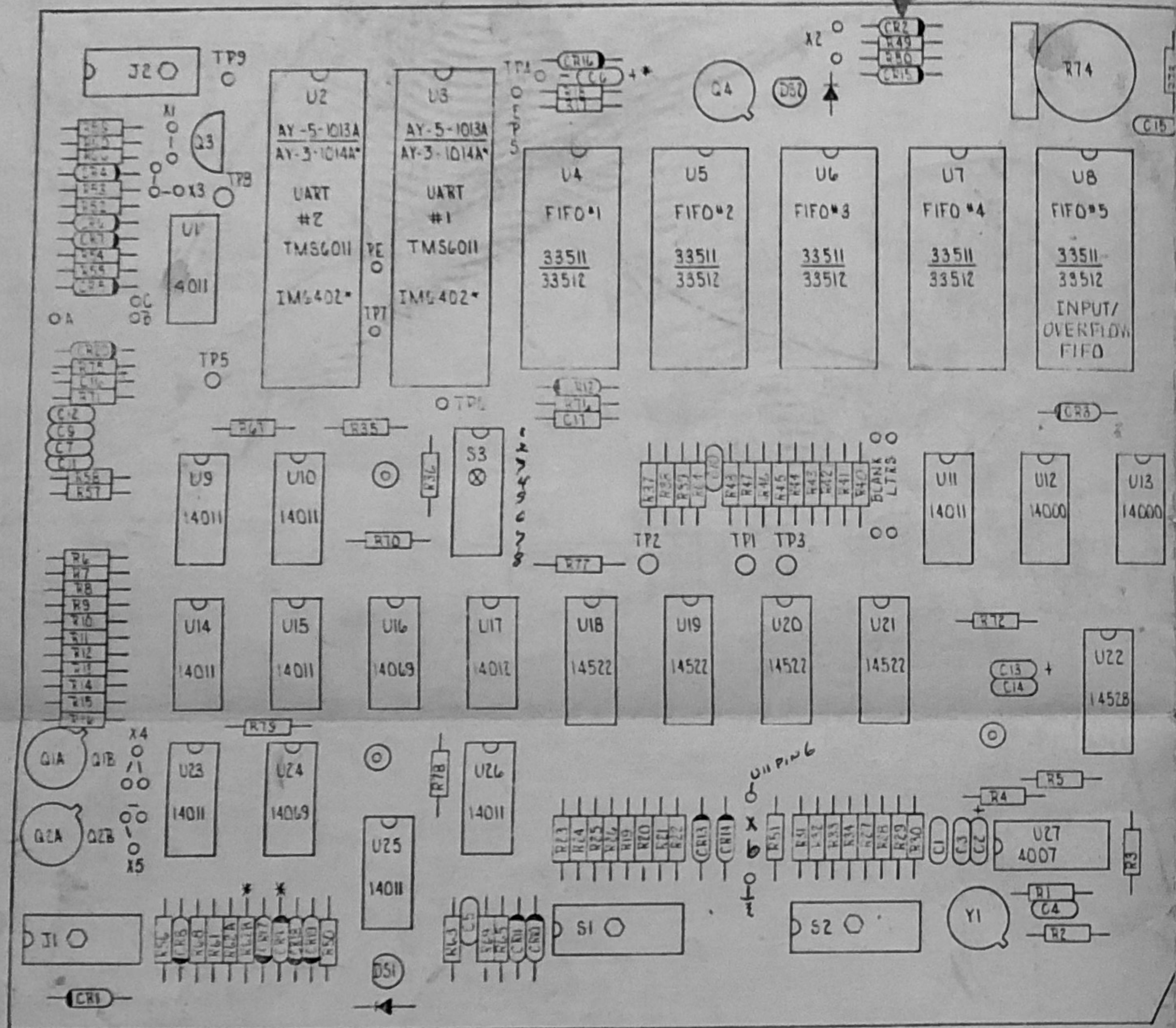
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES	ORIGINAL DATE OF DRAFTING 8-25-77	TITLE
DRAWN BY	DRAWN BY E. H. S.	ASSY- TELEPRINTER SPEED CONVERTER
CHECKED BY	DESIGNED BY	TSR-500 REGENERATOR
APPROVED BY		DOVETRON
PART NO.	REP DES	D 75139
SCALE 2:1	SHEET 001	

- 1 +5V
- 2 -12V
- 3 GND
- 4 R01
- 5 R02
- 6 R03
- 7 R04
- 8 R05
- 9 R06
- 10 R07
- 11 R08
- 12 R09
- 13 R10
- 14 R11
- 15 R12
- 16 R13
- 17 R14
- 18 R15
- 19 R16
- 20 R17
- 21 R18
- 22 R19
- 23 R20
- 24 R21
- 25 R22
- 26 R23
- 27 R24
- 28 R25
- 29 R26
- 30 R27
- 31 R28
- 32 R29
- 33 R30
- 34 R31
- 35 R32
- 36 R33
- 37 R34
- 38 R35
- 39 R36
- 40 R37
- 41 R38
- 42 R39
- 43 R40
- 44 R41
- 45 R42
- 46 R43
- 47 R44
- 48 R45
- 49 R46
- 50 R47
- 51 R48
- 52 R49
- 53 R50
- 54 R51
- 55 R52
- 56 R53
- 57 R54
- 58 R55
- 59 R56
- 60 R57
- 61 R58
- 62 R59
- 63 R60
- 64 R61
- 65 R62
- 66 R63
- 67 R64
- 68 R65
- 69 R66
- 70 R67
- 71 R68
- 72 R69
- 73 R70
- 74 R71
- 75 R72
- 76 R73
- 77 R74
- 78 R75
- 79 R76
- 80 R77
- 81 R78
- 82 R79
- 83 R80
- 84 R81
- 85 R82
- 86 R83
- 87 R84
- 88 R85
- 89 R86
- 90 R87
- 91 R88
- 92 R89
- 93 R90
- 94 R91
- 95 R92
- 96 R93
- 97 R94
- 98 R95
- 99 R96
- 100 R97
- 101 R98
- 102 R99
- 103 R100

1	-12V	8 DI	.15	22 DO
2		9 DI	16	23 DO
3		10 DI	17	24 DO
4		11	18	25 DO
5		12	19 DO	26 DO
6		13	20 DO	27
7		14 GND	21 DO	28 +5V



PROPRIETARY



Remove
To ENABLE
WORD ERASE

74814574
MONTRE

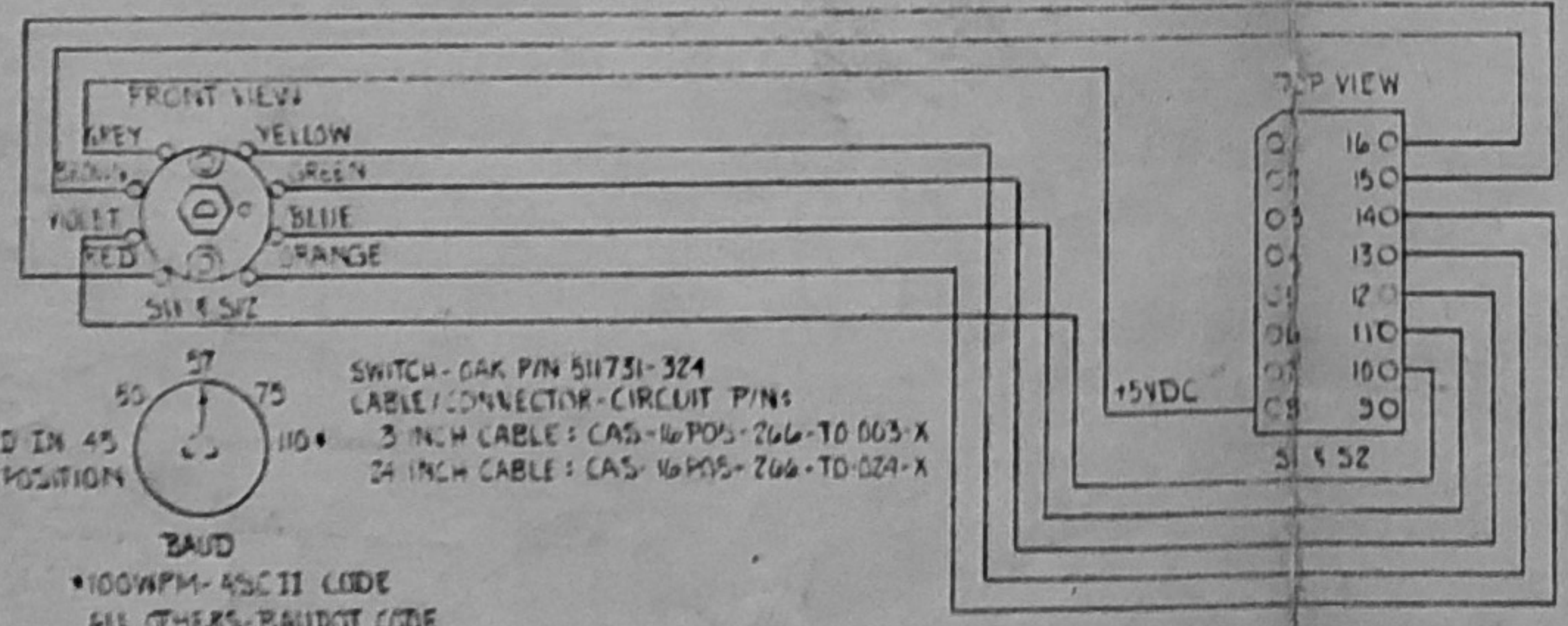
- NOTE: UNLESS OTHERWISE SPECIFIED
1. * C6, CR3, R62B NOT NORMALLY INSTALLED.
 2. INSTALL 14 PIN I.C. SOCKET AT J1 & J2.
 3. INSTALL SOCKETS UNDER ALL TRANSISTORS, I.C.'S AND CRYSTAL.
 4. LOW PROFILE SOCKETS MUST BE USED AT LOCATIONS J1, J2, S1 & S2.
 5. SOCKET NOT USED UNDER SWITCH S3.
 6. DS1 & DS2 NOT USED WHEN BOARD IS INSTALLED IN MPC 1000R.

⊙ MOUNTING HOLES

SWITCH POSITION	1	2	3	4	5	6	7	8	9	10
1	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0

GRAY (PIN 8) IS +5 VDC & PROVIDES BINARY ONE
TWO 3 INCH CABLE ASSEMBLIES REQUIRED IN EACH MPC1000R.
ONE 24 INCH CABLE ASSEMBLY IS PROVIDED WITH EACH TSR-500 FOR REMOTE SIGNAL SPEED CONTROL.

SWITCH ILLUSTRATED IN 45 CENTER (57) BAUD POSITION



SWITCH - OAK P/N 51731-324
CABLE/CONNECTOR - CIRCUIT P/N:
3 INCH CABLE: CAS-16P05-206-TO-063-X
24 INCH CABLE: CAS-16P05-206-TO-024-X

BAUD
• 100WPM - ASCII CODE
ALL OTHERS - BAUDOT CODE

PINS 1-7 & 9 NOT USED
PLUG FITS STANDARD
16 PIN DIP SOCKET

PROPRIETARY

REV.	Q.C.	DESCRIPTION	QTY.	QTY.	QTY.	DATE
43	8	9L1008	S1.2.3	SWITCH		CONT'L SWITCH
41	1	DX-1V00KHZ	Y1	CRYSTAL		STATE K
4	2	140402	U2.3	I.C.		INTERTEL
4	5	33512	U4-8			FAIRCHILD
25	1	4528	U22			MOTOROLA
25	4	14522	U18-21			
27	2	4069	U16.24			
26	1	14012	U17			
25	9	14011	U1.9-11,14,15,23,24,25			
25	2	14000	U12.13			MOTOROLA
27	1	4007A	U27	I.C.		ILCA
27	1	PT15YD	R14	POT. 50K		OMER
27	1	44B C.M.P.	R1.17	RESISTOR 22M 5% 1/4W		IRC
27	1	CARB. FILM	R15		1M	BEYSCHLAG
27	1		R3		470K	
27	1		R2		330K	
27	1		R5		150K	
27	2		R51,R8,R9		100K	
27	1		R79		27K	
27	3		R15,R3,7,8		20K	
27	37		R4,8,24,27,33,36,48-50,51,54,61,64,66,63,64,71,72,83		10K	
27	10		R4C,47,52,60		47K	
27	2		R62B		1K	
27	4	CARB. FILM	R35,R78,R7		1K	BEYSCHLAG
27	1	CARB. COMP.	R6-16		1K	BEYSCHLAG
27	1	CARB. FILM	R17	RESISTOR 200 OHM 5%		IRC
27	2	HI-DOME	DS1,DS2	LED RED		OPCO
27	1	2N5248	Q3	TRANSISTOR JFET		NSC
27	5	2N697	Q1,18,2A,2B,4	TRANSISTORS NPN SIL		MOTOROLA
27	1	51731-324		SPEED SWITCH		OAK
27	1	N751A	CR1	DIODE ZENER 5.1V		MOTOROLA
27	10	1N4148	CR2,3,10,15,19	DIODES SIL. SIGNAL		
27	1	1N4007	CR 9	SIL. 1KV		
27	7	1N4005	CR 4-8,14,17	SIL.		
27	9	1N270	CR 20	DIODE GERMANIUM		MOTOROLA
27	7			CABLE ASSY.		CIRCUIT ASSEMBLY
27	7			TANTALUM	0.25,15,15(2)	CAPACITORS 10 uF
27	6			TANTALUM	0.1,17	1.0 uF
27	5			CEP DISC	01.8,11	.01 uF
27	4			CEP DISC	01.9,10,12,14	.001 uF
27	3			SMICA	03.4	CAPACITOR 5pF
27	2					
27	1	TSR500		PC BOARD (75140)		DOVETRON
27		PART NO.	REP DES.	DESCRIPTION	SPEC.	RECOMMENDED MFG OR EQUIVALENT

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES	ORIGINAL DATE OF DRAWING 8-25-77	TITLE
DATE	DRAWN BY E. J. S.	ASSY- TELEPRINTER SPEED CONVERTER
DESIGNED BY	CHECKED BY	TSR-500 REGENERATOR
DATE	DATE	D 75139
SCALE 2:1	SHEET 001	OF 1

- 1 +5V
- 2 -12V
- 3 DI
- 4 DI
- 5 DI
- 6 DI
- 7 DI
- 8 DI
- 9 DI
- 10 DI
- 11
- 12
- 13
- 14 GND
- 15
- 16
- 17
- 18
- 19
- 20
- 21 MASTER RESET
- 22 TRANS. BUFF. REG. EMPTY
- 23 TRANS. BUFF. REG. LOAD
- 24 TRANS. REG. EMPTY
- 25 TRANSMITTER OUTPUT
- 26 T11
- 27 T12
- 28 T13
- 29 T14
- 30 T15
- 31 T16
- 32 T17
- 33 T18
- 34 CONTROL REGISTER LOAD
- 35 PARITY INHIBIT
- 36 STOP BIT SELECT
- 37
- 38
- 39 PARITY SELECT
- 40 TRANSMITTER SECTION CLOCK

- 1 -12V
- 2
- 3 DI
- 4 DI
- 5 DI
- 6 DI
- 7 DI
- 8 DI
- 9 DI
- 10 DI
- 11
- 12
- 13
- 14 GND
- 15
- 16
- 17
- 18
- 19 DO
- 20 DO
- 21 DO
- 22 DO
- 23 DO
- 24 DO
- 25 DO
- 26 DO
- 27
- 28 +5V

