



- NOTES:
1. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE RATED IN OHMS, 1/4W, 5% K=1,000 OHMS, M=1 MEGOHM.
  2. CAPACITORS ARE RATED IN MICROFARADS, PF=10-12
  3. ▽ DENOTES CONNECTION TO CIRCUIT COMMON.
  4. ANALOG SWITCHES U2, 10 AND 16 POSITION SHOWN AS IF CONTROL PIN IS LOW.

DWG. NO.	KC1632	H
DATE	2-1-90	
ISS.	CHANGE	
A	ADDED R187.	5-14-90
B	ADDED C84 & C85.	7-25-90
C	ADDED D1, D14, J5, R102, R159, R179 C13, C15 AND C48 NOW MYLAR.	12-12-90
D	ADDED R190 & R191. SWITCHED Q16GU9-D. MOVED R14. C25 WAS .47. R51 WAS 470K. R104 WAS 220K. U9 WAS EC0082 (4011). 2N3906 WAS MPS6517 MPS6521 WAS 6515.	4-16-91
E	R27 WAS 470 Ω.	9-26-91
F	ADDED C86 AND C87.	12-2-91
G	REMOVED C78. R54 WAS 100K.	12-23-91
H	R16 WAS 10K.	12-5-94

DESIGNATION	RAULAND PART NO.	TYPE	GND	+15V	+28V
U1	EC0004	LM555	1	8	-
U2	EC0071	MC14053	6, 7, 8	16	-
U3, 4	EC0283	TDA2030A	3	-	5
U6	EC0020	MC14013	7	14	-
U7	EC0159	ULN2004	8	-	9
U8	EC0111	MC14001	7	14	-
U9	EC0160	MC14093	7	14	-
U10	EC0052	MC14016	7	14	-
U11	EC0042	MC14049	8	1	-
U14	EC0013	MC1741	4	7	-
U16	EC0071	MC14053	2, 6, 7, 8	16	-
U19	EC0084	TDA2006	3	-	5
U20	EC0133	MC7815	2 (COM)	3 (OUT)	1 (IN)
EH1, 2	EH0014	EH0014	17	14	-
Q1, 5, 6, 20	ET2N3906	2N3906			
Q2, 4, 7-10, 16, 21, 22	ETMPS6521	MPS6521			
Q13-15	ET2N5089	2N5089			
RY1	D0236	D0236			

