

SS1760	SCALE	TOLERANCES .XX +/- .015 .XXX +/- .007 ANGLES +/- 1 DEG Hole dia: +/- .002	TKM, Inc SCOTTSDALE, ARIZONA		
	MAT'L		BOARD, COMPUTER, MX170B		
	FINISH	DRAWN BY WM	DATE	SS1760	REV
		APPROVED	12-6-00		6
	APPROVED	USED ON		SHEET 1 OF 5	

Ref#	Part #	Description	Qty
01	PC1760-6	PCB COMPUTER; MX170B	1
02	MP1053-	MISC. PARTS PIN HEADERS; GOLD; DUAL RO	1
03	ES1001-	IC SOCKET; DIP 8 PIN; DIP	2
04	ES1002-	IC SOCKET; DIP 14 PIN; DIP	7
05	ES1003-	IC SOCKET; DIP 16 PIN; DIP	4
06	ES1004-	IC SOCKET; DIP 20 PIN; DIP	2
07	ES1005-	IC SOCKET; DIP 24 PIN; DIP	2
08	ES1006-	IC SOCKET; DIP 40 PIN; DIP	1
C01	CR1024-	CAP; MONO-CERAMIC .001uF; 100V	1
C02	CB2006-	CAPACITOR; TRIMMER 1-20 PF	1
C03	CE2211-	CAP; ALUM ELECT. 220/50V; RADIAL	1
C04	CF4733-	CAPACITOR; FILM .047/63V	1
C05	CF1033-	CAPACITOR; FILM .01/63	1
C06	CF1033-	CAPACITOR; FILM .01/63	1
C07	CT1051-	CAP; TANTALUM 1.0/35V; AXIAL	1
C08	CT1051-	CAP; TANTALUM 1.0/35V; AXIAL	1
C09	CT1051-	CAP; TANTALUM 1.0/35V; AXIAL	1
C10	CT1051-	CAP; TANTALUM 1.0/35V; AXIAL	1
C11	CR1033-	CAP; MONO-CERAMIC .01uF; 100V	1
C12	CF3323-	CAPACITOR; FILM .0033/63V	1
C13	CR1043-	CAP; MONO-CERAMIC .1uF; 50V	1
C14	CR1043-	CAP; MONO-CERAMIC .1uF; 50V	1
C15	CE2262-	CAP; ALUM ELECT. 22/50V; RADIAL	1
C16	CE2262-	CAP; ALUM ELECT. 22/50V; RADIAL	1
C17	CE2262-	CAP; ALUM ELECT. 22/50V; RADIAL	1
C19	CF1523-	CAPACITOR; FILM .0015/63V	1
C20	CF1523-	CAPACITOR; FILM .0015/63V	1
C21	CF1523-	CAPACITOR; FILM .0015/63V	1
C22	CF1523-	CAPACITOR; FILM .0015/63V	1
C23	CF3333-	CAPACITOR; FILM .033/63V	1
C24	CR2242-	CAP; MONO-CERAMIC .22 uF; 100V	1
C25	CE4772-	CAP; ALUM ELECT. 470/6.3-10V; RADIAL	1
C26	CE4772-	CAP; ALUM ELECT. 470/6.3-10V; RADIAL	1
C27	CE4772-	CAP; ALUM ELECT. 470/6.3-10V; RADIAL	1
C28	CR1024-	CAP; MONO-CERAMIC .001uF; 100V	1
D01	DD4148-	DIODE 1N4148	1
D02	DD4148-	DIODE 1N4148	1
D03	DD4148-	DIODE 1N4148	1
D04	DD4148-	DIODE 1N4148	1
D05	DD4148-	DIODE 1N4148	1
D06	DD4148-	DIODE 1N4148	1
D07	DD5240-	DIODE ZENER; 1N5240	1
D08	DD5240-	DIODE ZENER; 1N5240	1
D09	DD5819-	DIODE 1N5819	1
D10	DD5231-	DIODE ZENER; 1N5231	1
D11	DD5819-	DIODE 1N5819	1
D12	DD5819-	DIODE 1N5819	1
D13	DD5819-	DIODE 1N5819	1
D14	DD5819-	DIODE 1N5819	1
D15	DD5819-	DIODE 1N5819	1

COMPUTER; MX170B

SS1760-6

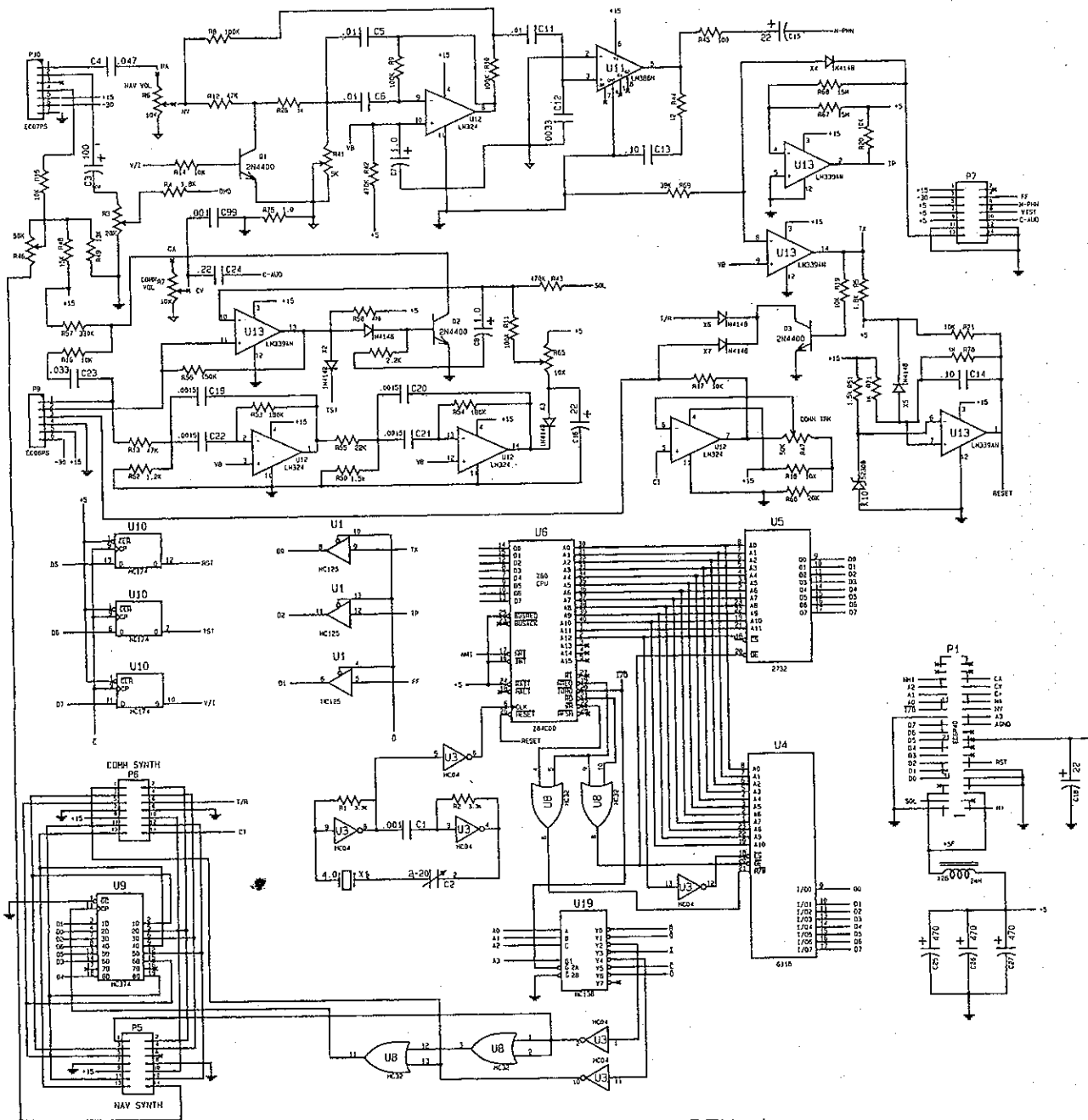
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Ref#	Part #	Description	Qty
D16	DD5819-	DIODE 1N5819	1
D17	DD5819-	DIODE 1N5819	1
D18	DD5819-	DIODE 1N5819	1
D19	DD5819-	DIODE 1N5819	1
D20	DD5256-	DIODE ZENER; 1N5256	1
K1	KA1807-	RELAY 12V; 170B COMP	1
K2	KA1807-	RELAY 12V; 170B COMP	1
Q01	QX4400-	TRANSISTOR 2N4400	1
Q02	QX4400-	TRANSISTOR 2N4400	1
Q03	QX4400-	TRANSISTOR 2N4400	1
Q04	QX4400-	TRANSISTOR 2N4400	1
Q05	QX4400-	TRANSISTOR 2N4400	1
Q06	QX4402-	TRANSISTOR 2N4402	1
Q07	QX4400-	TRANSISTOR 2N4400	1
Q08	QX1652-	TRANSISTOR 2SD1862	1
Q09	QX1652-	TRANSISTOR 2SD1862	1
Q10	QX1652-	TRANSISTOR 2SD1862	1
Q11	QX1652-	TRANSISTOR 2SD1862	1
Q12	QX1652-	TRANSISTOR 2SD1862	1
Q13	QX1652-	TRANSISTOR 2SD1862	1
Q14	QX1652-	TRANSISTOR 2SD1862	1
Q15	QX1652-	TRANSISTOR 2SD1862	1
Q16	QX1652-	TRANSISTOR 2SD1862	1
Q17	QX1652-	TRANSISTOR 2SD1862	1
Q18	QX1652-	TRANSISTOR 2SD1862	1
Q19	QX1652-	TRANSISTOR 2SD1862	1
Q20	QX1652-	TRANSISTOR 2SD1862	1
Q21	QX1652-	TRANSISTOR 2SD1862	1
Q22	QX4126-	TRANSISTOR 2N4126	1
Q23	QX7000-	TRANSISTOR 2N7000	1
Q24	QX7000-	TRANSISTOR 2N7000	1
Q25	QX7000-	TRANSISTOR 2N7000	1
Q26	QX7000-	TRANSISTOR 2N7000	1
R01	RC0332-	RESISTOR; CARB. 3.3 Kohm; 5%; 1/4 watt	1
R02	RC0332-	RESISTOR; CARB. 3.3 Kohm; 5%; 1/4 watt	1
R04	RC0101-	RESISTOR; CARB. 100 Ohm; 5%; 1/4 watt	1
R08	RC0104-	RESISTOR; CARB. 100K 5% 1/4W	1
R09	RC0104-	RESISTOR; CARB. 100K 5% 1/4W	1
R10	RC0104-	RESISTOR; CARB. 100K 5% 1/4W	1
R11	RC0104-	RESISTOR; CARB. 100K 5% 1/4W	1
R12	RC0473-	RESISTOR; CARB. 47 Kohm; 5%; 1/4 watt	1
R13	RC0473-	RESISTOR; CARB. 47 Kohm; 5%; 1/4 watt	1
R14	RC0103-	RESISTOR; CARB. 10 Kohm; 5%; 1/4 watt	1
R15	RC0103-	RESISTOR; CARB. 10 Kohm; 5%; 1/4 watt	1
R16	RC0103-	RESISTOR; CARB. 10 Kohm; 5%; 1/4 watt	1
R17	RC0103-	RESISTOR; CARB. 10 Kohm; 5%; 1/4 watt	1
R18	RC0103-	RESISTOR; CARB. 10 Kohm; 5%; 1/4 watt	1
R19	RC0103-	RESISTOR; CARB. 10 Kohm; 5%; 1/4 watt	1
R20	RC0103-	RESISTOR; CARB. 10 Kohm; 5%; 1/4 watt	1
R21	RC0103-	RESISTOR; CARB. 10 Kohm; 5%; 1/4 watt	1

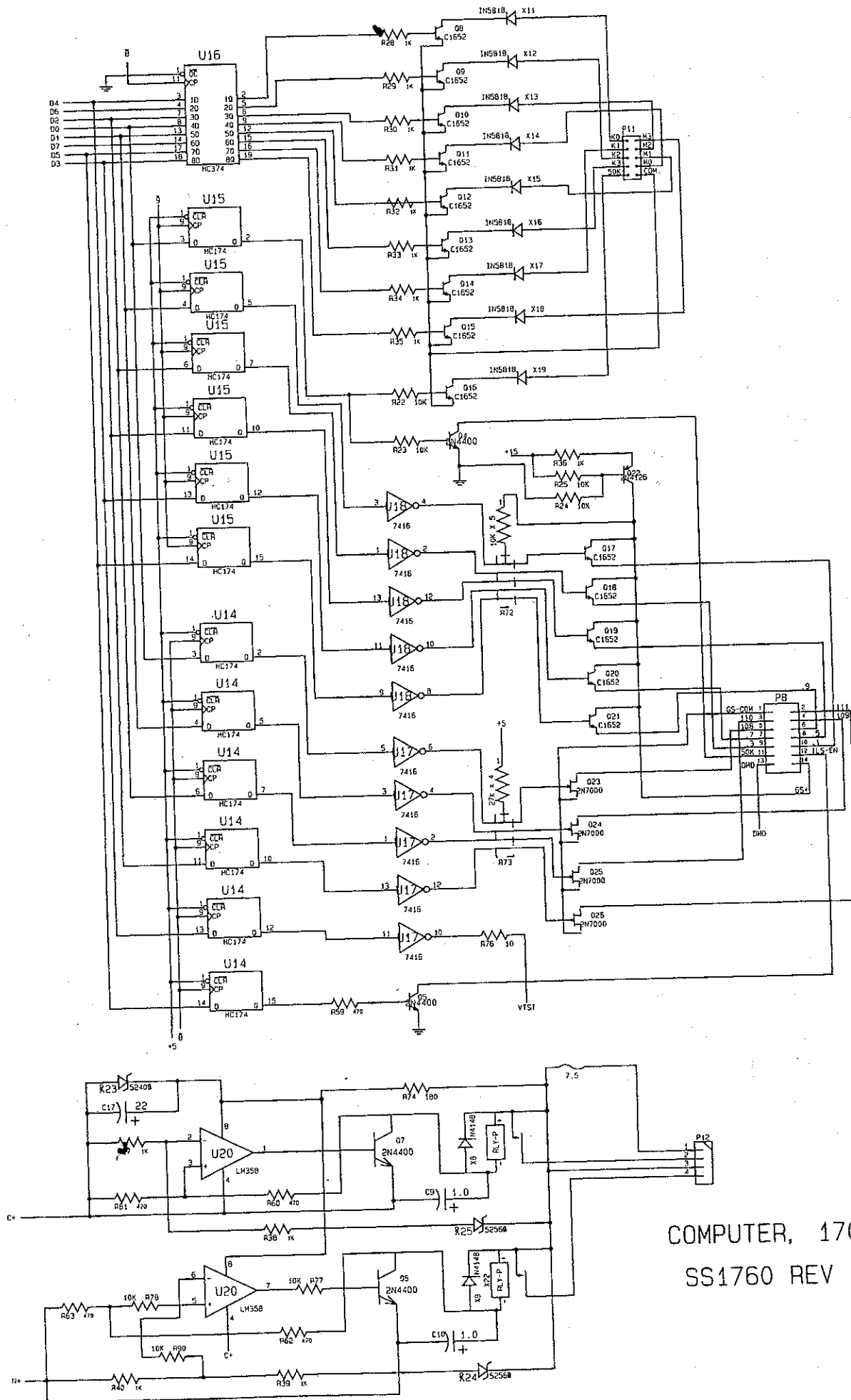
Ref#	Part #	Description	Qty
R23	RC0103-	RESISTOR; CARB. 10 Kohm; 5%; 1/4 watt	1
R24	RC0103-	RESISTOR; CARB. 10 Kohm; 5%; 1/4 watt	1
R25	RC0103-	RESISTOR; CARB. 10 Kohm; 5%; 1/4 watt	1
R26	RC0102-	RESISTOR; CARB. 1 Kohm; 5%; 1/4 watt	1
R27	RC0222-	RESISTOR; CARB. 2.2 Kohm; 5%; 1/4 watt	1
R28	RC0103-	RESISTOR; CARB. 10 Kohm; 5%; 1/4 watt	1
R29	PQ0203-	POT; TRIMMER SIDE ADJ. 20K, Side Adjust	1
R30	RC0102-	RESISTOR; CARB. 1 Kohm; 5%; 1/4 watt	1
R36	RC0102-	RESISTOR; CARB. 1 Kohm; 5%; 1/4 watt	1
R37	RC0102-	RESISTOR; CARB. 1 Kohm; 5%; 1/4 watt	1
R38	RC0102-	RESISTOR; CARB. 1 Kohm; 5%; 1/4 watt	1
R39	RC0102-	RESISTOR; CARB. 1 Kohm; 5%; 1/4 watt	1
R40	RC0102-	RESISTOR; CARB. 1 Kohm; 5%; 1/4 watt	1
R41	PW0502-	Pot. Top Adjust .3 Dia 5K	1
R43	RC0474-	RESISTOR; CARB. 470K 1/4W 5%	1
R44	RC0120-	RESISTOR; CARB. 12 Ohm; 5%; 1/4 watt	1
R45	RC0101-	RESISTOR; CARB. 100 Ohm; 5%; 1/4 watt	1
R46	PW0503-	Pot. Top Adjust .3 Dia 50K	1
R47	PW0503-	Pot. Top Adjust .3 Dia 50K	1
R48	RC0105-	RESISTOR; CARB. 1 Megohm; 5%; 1/4 watt	1
R49	RN1302-	RESISTOR; METAL FILM 13K; 1/4W; 1%	1
R50	RC0152-	RESISTOR; CARB. 1.5 Kohm; 5%; 1/4 watt	1
R51	RC0152-	RESISTOR; CARB. 1.5 Kohm; 5%; 1/4 watt	1
R52	RC0122-	RESISTOR; CARB. 1.2 Kohm; 5%; 1/4 watt	1
R57	RC0334-	RESISTOR; CARB. 330K 1/4W 5%	1
R58	RC0471-	RESISTOR; CARB. 470 Ohm; 5%; 1/4 watt	1
R59	RC0471-	RESISTOR; CARB. 470 Ohm; 5%; 1/4 watt	1
R60	RC0471-	RESISTOR; CARB. 470 Ohm; 5%; 1/4 watt	1
R61	RC0471-	RESISTOR; CARB. 470 Ohm; 5%; 1/4 watt	1
R62	RC0471-	RESISTOR; CARB. 470 Ohm; 5%; 1/4 watt	1
R63	RC0471-	RESISTOR; CARB. 470 Ohm; 5%; 1/4 watt	1
R65	PW0103-	Pot. Top Adjust .3 Dia 10 K	1
R66	RN2002-	RESISTOR; METAL FILM 20K; 1/4W; 1%	1
R67	RC0156-	RESISTOR; CARB. 15 Megohm; 5%; 1/4 watt	1
R68	RC0156-	RESISTOR; CARB. 15 Megohm; 5%; 1/4 watt	1
R70	RC0105-	RESISTOR; CARB. 1 Megohm; 5%; 1/4 watt	1
R72	RR1035-	RESISTOR NETWORK 10K X 5	1
R73	RR2734-	RESISTOR NETWORK 27K X 4	1
R74	RC0181-	RESISTOR; CARB. 180 Ohm; 5%; 1/4 watt	1
R77	RC0103-	RESISTOR; CARB. 10 Kohm; 5%; 1/4 watt	1
R78	RC0471-	RESISTOR; CARB. 470 Ohm; 5%; 1/4 watt	1
R79	RC0471-	RESISTOR; CARB. 470 Ohm; 5%; 1/4 watt	1
R80	RC0471-	RESISTOR; CARB. 470 Ohm; 5%; 1/4 watt	1
R81	RC0471-	RESISTOR; CARB. 470 Ohm; 5%; 1/4 watt	1
R82	RC0471-	RESISTOR; CARB. 470 Ohm; 5%; 1/4 watt	1
R83	RC0471-	RESISTOR; CARB. 470 Ohm; 5%; 1/4 watt	1
R84	RC0471-	RESISTOR; CARB. 470 Ohm; 5%; 1/4 watt	1
R85	RC0471-	RESISTOR; CARB. 470 Ohm; 5%; 1/4 watt	1

R86	RC0471-	RESISTOR; CARB.	470 Ohm; 5%; 1/4 watt	1
R90	RC0103-	RESISTOR; CARB.	10 Kohm; 5%; 1/4 watt	1

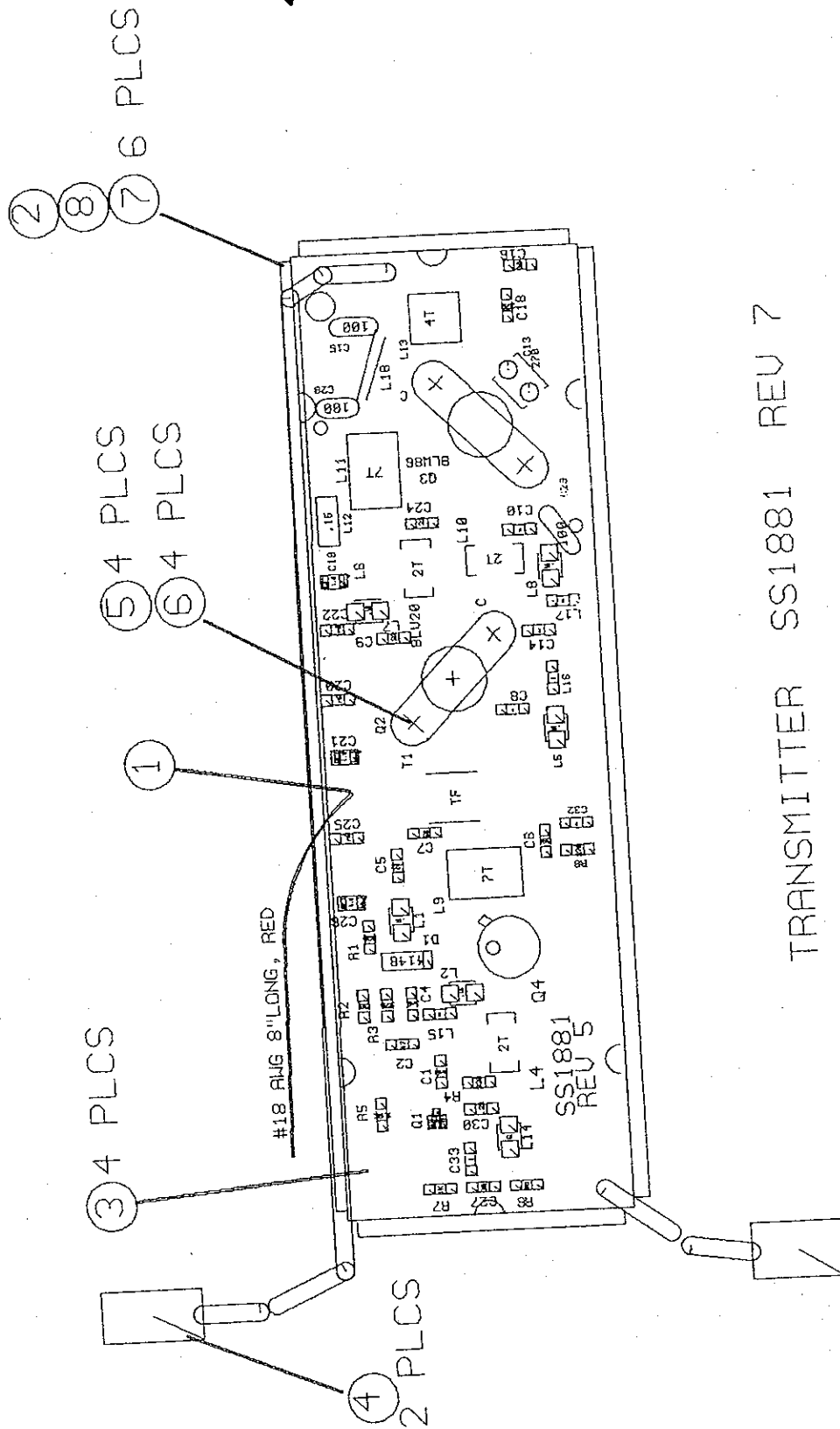
Ref#	Part #	Description	Qty
U01	IL7525-	INT. CKT.; LPSHTK 74LS125	1
U03	IH7404-	INT. CKT.; HI SPEED CMOS 74HC04	1
U04	IMZ02B-	INT. CKT.; MISC. RAM; M48Z02-150PC1	1
U05	IM2732-	INT. CKT.; MISC. EPROM; 2732; 21V	1
U06	IM0080-	INT. CKT.; MISC. Z80	1
U08	IL7432-	INT. CKT.; LPSHTK 74LS32	1
U09	IH7774-	INT. CKT.; HI SPEED CMOS 74HC374	1
U10	IL7574-	INT. CKT.; LPSHTK 74LS174	1
U11	IM0386-	INT. CKT.; MISC. LM386	1
U12	IM0324-	INT. CKT.; MISC. LM324; DIP	1
U13	IM0339-	INT. CKT.; MISC. LM339	1
U14	IL7574-	INT. CKT.; LPSHTK 74LS174	1
U15	IL7574-	INT. CKT.; LPSHTK 74LS174	1
U16	IH7774-	INT. CKT.; HI SPEED CMOS 74HC374	1
U17	IT7416-	INT. CKT.; TTL 7416	1
U18	IT7416-	INT. CKT.; TTL 7416	1
U19	IL7538-	INT. CKT.; LPSHTK 74LS138	1
U20	IM0358-	INT. CKT.; MISC. LM358	1
X01	XT4000-	CRYSTAL; QUARTZ 4.0 MHZ	1
X20	MP1709-	MISC. PARTS FUSE RESTTABLE 7 A	1
X26	MP1037-	MISC. PARTS CORE; TORROID (Lg)	1



COMPUTER, 170B - SS1760 REV 4

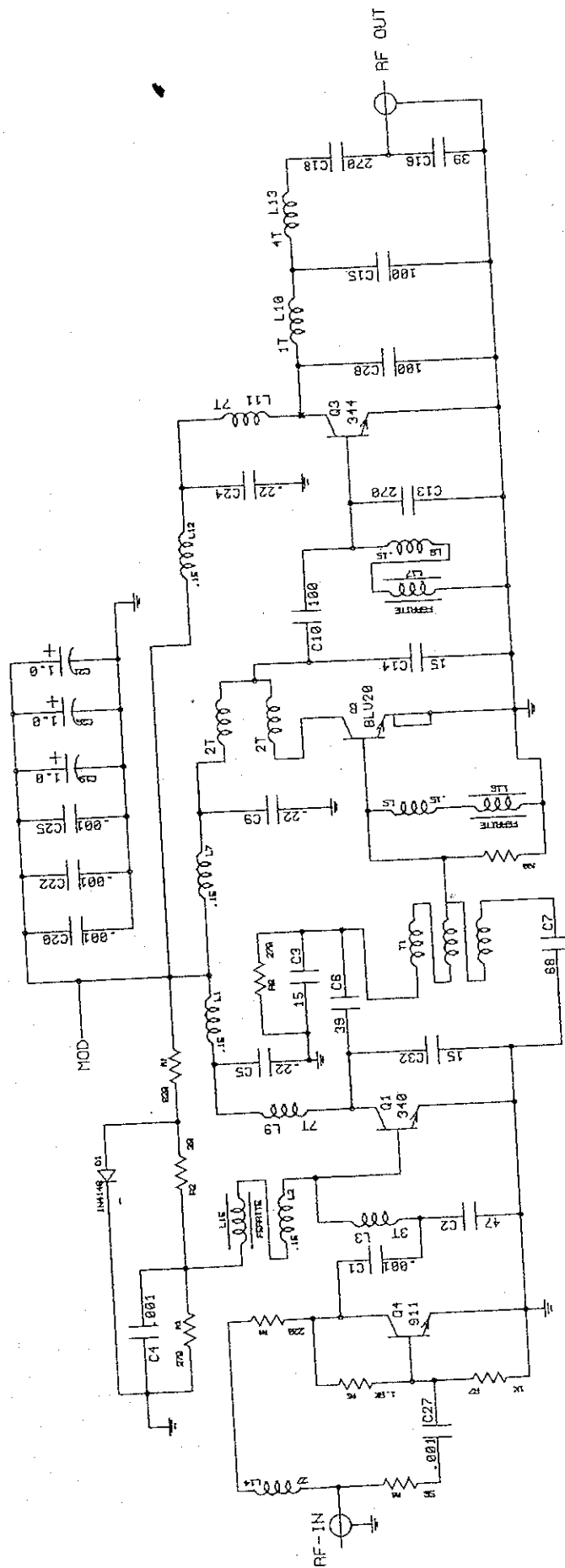


COMPUTER, 170B
SS1760 REV 4



TRANSMITTER SS1881 REV 7

SOLDER 4 THRU SPACERS (HS1880) IN CORNERS OF BOARDS.
 SOLDER COPPER TAPE ON BOTTOM OF BOARD TO CLOSE TWO TRANSISTOR HOLES.
 MOUNT 2 TRANSISTORS WITH 4-40 X 5/16 FLAT HEAD SCREWS AND SMALL PATTERN NUTS.
 ATTACH COVER WITH 6 4-40 X 3/16 FLAT HEAD SCREWS.



TRANSMITTER SS1881 REV 7

TRANSMITTER

SS1881-7

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Ref#	Part #	Description	Qty
L16	LFRRIT-	INDUCTOR; FIXED BEAD; SMT; 1206	1
L17	MP1036-	MISC. PARTS BEAD; FERRITE	1
L18	LFSHTN-	INDUCTOR; FIXED	1
Q01	QX0911-	TRANSISTOR MPS911	1
Q02	QX0020-	TRANSISTOR RF; BLV20	1
Q03	QX0086-	TRANSISTOR RF; BLW86	1
Q04	QX3553-	TRANSISTOR 2N3553	1
R01	RS0821-	RES; SMT; FILM; 820 OHM; 1/4W 5%; 1206	1
R02	RS0390-	RES; SMT; FILM; 39 OHM; 1/4W 5%; 1206	1
R03	RS0271-	RES; SMT; FILM; 270 OHM; 1/4W 5%; 1206	1
R04	RS0221-	RES; SMT; FILM; 220 OHM; 1/4W 5%; 1206	1
R05	RS0182-	RES; SMT; FILM; 1.8K; 1/4W 5%; 1206	1
R06	RS0560-	RES; SMT; FILM; 56 OHM; 1/4W 5%; 1206	1
R07	RS0102-	RES; SMT; FILM; 1K; 1/4W 5%; 1206	1
R08	RS0271-	RES; SMT; FILM; 270 OHM; 1/4W 5%; 1206	1
T1	TF1701-	TRANSFORMER RF; 3:1 Ratio	1