

KENWOOD

NTSC COLOR PATTERN GENERATOR

CG-931

PAL COLOR PATTERN GENERATOR

CG-932

OPTION

REMOTE CONTROLLER

RT-62

SERVICE MANUAL

KENWOOD CORPORATION



WARNING

The following instructions are for use by qualified personnel only. To avoid electric shock, do not perform any servicing other than contained in the operating instructions unless you are qualified to do so.

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ADJUSTMENT

To obtain the best performance, periodically calibrate the unit. Sometimes, only one mode need be calibrated, while at other times, all modes should be calibrated. When one mode is calibrated, it must be noted that the other modes may be affected. When calibrating all modes, perform the calibration in the specified sequence.

The following calibration required an accurate measuring instrument and an insulated adjusting flat blade screwdriver. If they are not available, contact your dealer. For optimum adjustment, turn the power on and warm up the unit sufficiently (more than 30 minutes) before starting.

Before calibrating the unit check the power supply voltage.

TEST EQUIPMENT REQUIRED

The following instrument or their equivalent should be used for making adjustment.

Test Equipment	Model	Maker
Vector Scope (NTSC)	CV-1250	KENWOOD
Vector Scope (PAL)	CV-1255	KENWOOD
Oscilloscope	CS-6040	KENWOOD
Digital multimeter	45	FLUKE
Frequency Counter	FC-758	KENWOOD

1. Video Sync

Item	Adjustment VR (C)	Procedure
fsc (CG-931)	C17	<ul style="list-style-type: none"> Connect the counter with the subcarrier OUT on the rear panel. Adjust C17 so that the frequency is 3.579545 MHz \pm 5 Hz
fsc (CG-932)	C12	<ul style="list-style-type: none"> Connect the counter with the subcarrier output on the rear panel. Adjust C12 so that the frequency is 4.43361875 MHz \pm 6 Hz
fH (CG-932)	C17	<ul style="list-style-type: none"> Adjust C17 so that the direct current voltage between the ground and either of R31 terminals is +2.5 V.

2. Dot Level

Item	Adjustment VR (C)	Procedure
Sink Level (CG-931)	VR12	<ul style="list-style-type: none"> Connect VIDEO OUT with the oscilloscope (75 Ω termination). Adjust VR12 so that the level is 286 mVp-p.
Sink Level (CG-932)	VR12	<ul style="list-style-type: none"> Connect VIDEO OUT with the oscilloscope (75 Ω termination). Adjust VR12 so that the level is 300 mVp-p.
Dot Level	VR13	<ul style="list-style-type: none"> Display a crosshatch pattern. Make the display luster white (100%). Make the crosshatch level the same as luster white 100%.
Horizontal line interval	VR7	<ul style="list-style-type: none"> Display a crosshatch pattern. Set to the center position in the range where the horizontal line is displayed in the normal position.

ADJUSTMENT

3. Color

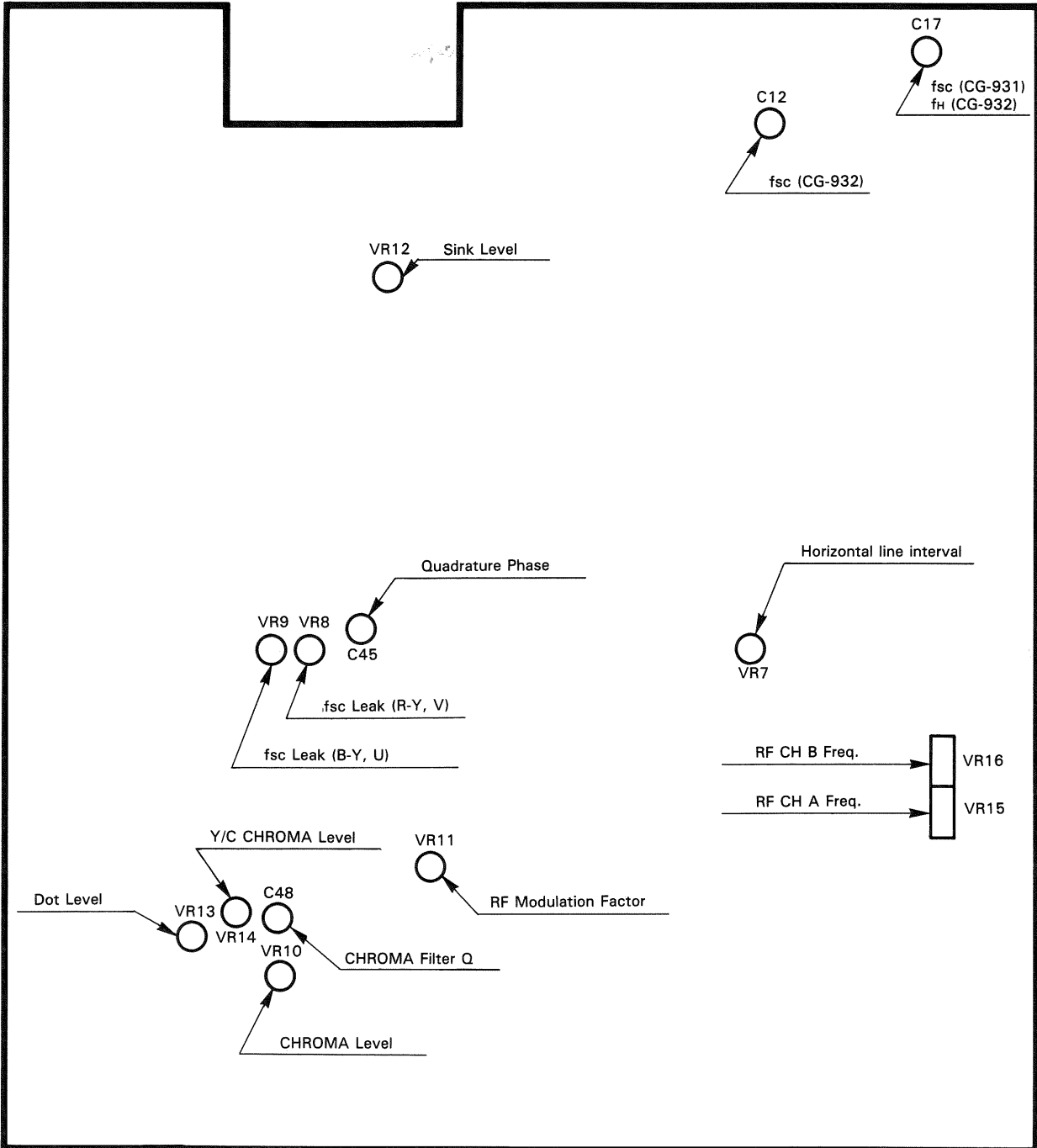
Item	Adjustment VR (C)	Procedure
fsc Leak (R-Y, V)	VR8	<ul style="list-style-type: none"> • Display a color bar with the luminance off. • Connect VIDEO OUT with the oscilloscope. • Minimize the fsc leak.
fsc Leak (B-Y, U)	VR9	<ul style="list-style-type: none"> • Same as above.
CHROMA Filter Q	C48 T2	<ul style="list-style-type: none"> • Display a color bar with the luminance on. • Connect VIDEO OUT with the vector scope. • Adjust so that the luminescent lines between each dot are on one single straight line.
Quadrature Phase	C45	<ul style="list-style-type: none"> • Display a color bar with the luminance off. • Connect VIDEO OUT with the vector scope. • Make the phases of each dot the same.
CHROMA Level	VR10	<ul style="list-style-type: none"> • Display a color bar with the luminance off. • Connect VIDEO OUT with the vector scope. • Make the levels of each dot the same.
Y/C CHROMA Level	VR14	<ul style="list-style-type: none"> • Display a color bar with the luminance off. • Connect the CHROMA OUT on the rear panel with input A on the rear panel of the vector scope. • Connect VIDEO OUT with the input B on the rear panel of the vector scope. • Set the rear panel of the vector scope to (INPUT A, ϕB). • Adjust the levels of each dot.

4. RF

Item	Adjustment VR (C)	Procedure
RF CH A Freq.	VR15	<ul style="list-style-type: none"> • Display a color bar with the luminance and the chroma off. • Turn RF on. • Connect the counter with RF OUT. • Adjust VR15 so that the frequency is that in the country where the unit is used.
RF CH B Freq.	VR16	<ul style="list-style-type: none"> • Same as above.
RF Modulation Factor	VR11	<ul style="list-style-type: none"> • Luster white. • Turn RF on. • Connect CH1 of the oscilloscope with RF OUT. • Connect CH2 of the oscilloscope with SYNC OUT. • Set the oscilloscope to (Display CH1, synchronization CH2). • Adjust VR11 so that the 100% level of luster white is equivalent to 12.5% against the sink level.

ADJUSTMENT

PANEL UNIT



FRONT

PARTS LIST

CG-931 Y77-1250-00

REF. NO	PARTS NO	NAME & DESCRIPTION
	A01-1229-02	CASE, TOP
	A01-1230-02	CASE, BOTTOM
	A13-0948-13	FRAME, SIDES
	A21-1175-12	DECORATIVE PANEL
	A22-0883-12	SUB PANEL
	A83-0006-02	REAR PANEL
	B01-0705-03	SIDE ESCUTCHEON
	B42-1819-04	LABEL; CH2 CH3
	B42-1820-04	LABEL; CH5 CH6
	B42-3721-13	SERIAL NO. PLATE
	B63-0013-00	INSTRUCTION MANUAL; ENG./JAP.
	E18-0365-05	AC SELECTOR WITH 6X30MM FUSE
	E30-1818-05	JIS POWER CORD SET
	E30-1820-05	UL/CSA POWER CORD SET
	E38-0422-08	WIRE ASS'Y; P1
	E38-0423-08	WIRE ASS'Y; CN2
	E38-0424-08	WIRE ASS'Y; CN3
	E38-0425-08	WIRE ASS'Y; CN4
	E38-0426-08	WIRE ASS'Y; CN5
	E38-0427-08	WIRE ASS'Y; CN6
	E38-0428-08	WIRE ASS'Y; CN7
	E38-0429-08	WIRE ASS'Y; CN9
	E38-0430-08	WIRE ASS'Y; CN10
	E38-0432-18	WIRE ASS'Y; CN13
	E38-0433-08	WIRE ASS'Y; CN14
	E38-0434-08	WIRE ASS'Y; CN15
	E38-0435-08	WIRE ASS'Y; CN16
	E38-0436-08	WIRE ASS'Y; CN17
	E38-0439-08	WIRE ASS'Y; CN12
	E38-1431-08	WIRE ASS'Y; CN11
	F15-0703-04	BLIND PLATE
	H10-2851-02	FOAMED STYRENE PAD, FRONT
	H10-2852-02	FOAMED STYRENE PAD, REAR
	H20-1709-14	VINYL COVER
	H53-0012-14	CARTON BOX
	J02-0363-04	RUBBER FOOT, REAR
	J02-0525-13	RUBBER FOOT, FRONT
	J02-0528-04	TILT STAND
	J19-1676-04	HOLDER, LED
	J21-4712-04	BRACKET; FOR VR
	K01-0544-05	HANDLE
	K21-0915-04	KNOB
	K27-0351-04	PUSH BUTTON; GRAY
	K27-0506-04	PUSH BUTTON; ORANGE
	W02-2101-08	MAIN UNIT
	W02-2102-08	PANEL UNIT
	W03-2309-05	ACCESSORY CORD CA-41
J1	E04-0259-05	BNC RECEPTACLE
J2	E04-0259-05	BNC RECEPTACLE
J3	E04-0259-05	BNC RECEPTACLE
J4	E29-0550-08	PIN CONNECTOR
J5	E04-0259-05	BNC RECEPTACLE
J6	E04-0259-05	BNC RECEPTACLE
J7	E04-0259-05	BNC RECEPTACLE
Q1	2SD721	
R13	RN14BK2E2401F	RES. METAL FILM 2.4K 1% 1/4W
R14	RN14BK2E3601F	RES. METAL FILM 3.6K 1% 1/4W
R15	RN14BK2E2401F	RES. METAL FILM 2.4K 1% 1/4W
R16	RN14BK2E2401F	RES. METAL FILM 2.4K 1% 1/4W
R17	RN14BK2E2401F	RES. METAL FILM 2.4K 1% 1/4W
R18	RN14BK2E2401F	RES. METAL FILM 2.4K 1% 1/4W
R19	RN14BK2E4990F	RES. METAL FILM 499 1% 1/4W
R20	RN14BK2E6800F	RES. METAL FILM 680 1% 1/4W
R21	RN14BK2E4990F	RES. METAL FILM 499 1% 1/4W
R22	RN14BK2E6800F	RES. METAL FILM 680 1% 1/4W
R23	RN14BK2E7150F	RES. METAL FILM 715 1% 1/4W
R24	RN14BK2E3740F	RES. METAL FILM 374 1% 1/4W
S1	S40-2532-05	POWER SW
T1	L01-9974-08	POWER TRANSFORMER
VR1	R29-2502-08	V. R. 5K
VR2	R29-2502-08	V. R. 5K
VR3	R29-2502-08	V. R. 5K
VR4	R29-1511-08	V. R. 1K
VR5	R29-1511-08	V. R. 1K
VR6	R29-1511-08	V. R. 1K

CG-932 Y77-1260-00

REF. NO	PARTS NO	NAME & DESCRIPTION
	A01-1229-02	CASE, TOP
	A01-1230-02	CASE, BOTTOM
	A13-0948-13	FRAME, SIDES
	A21-1172-12	DECORATIVE PANEL
	A22-0883-12	SUB PANEL
	A83-0008-02	REAR PANEL
	B01-0715-03	SIDE ESCUTCHEON
	B42-1830-04	LABEL; CH3 CH4
	B42-1831-04	LABEL; CHA CHB
	B42-1832-14	LABEL; CH1 CH2
	B42-1833-04	LABEL; CH2 CH3
	B42-3721-13	SERIAL NO. PLATE
	B42-3772-04	LABEL; CH71 CH77
	E18-0365-05	AC SELECTOR WITH 6X30MM FUSE
	E30-1644-15	BS POWER CORD
	E30-1818-05	JIS POWER CORD SET
	E30-1819-05	CEE POWER CORD SET
	E30-1821-05	SAA POWER CORD SET
	E38-0423-08	WIRE ASS'Y; CN2
	E38-0424-08	WIRE ASS'Y; CN3
	E38-0425-08	WIRE ASS'Y; CN4
	E38-0426-08	WIRE ASS'Y; CN5
	E38-0427-08	WIRE ASS'Y; CN6
	E38-0428-08	WIRE ASS'Y; CN7
	E38-0429-08	WIRE ASS'Y; CN9
	E38-0430-08	WIRE ASS'Y; CN10
	E38-0431-08	WIRE ASS'Y; CN11
	E38-0432-08	WIRE ASS'Y; CN13
	E38-0433-08	WIRE ASS'Y; CN14
	E38-0434-08	WIRE ASS'Y; CN15
	E38-0435-08	WIRE ASS'Y; CN16
	E38-0436-08	WIRE ASS'Y; CN17
	E38-0438-08	WIRE ASS'Y; P1
	E38-0439-08	WIRE ASS'Y; CN12
	F15-0703-04	BLIND PLATE
	H10-2851-02	FOAMED STYRENE PAD, FRONT
	H10-2852-02	FOAMED STYRENE PAD, REAR
	H51-1719-14	VINYL COVER
	H53-0013-14	CARTON BOX
	J02-0363-04	RUBBER FOOT, REAR
	J02-0525-13	RUBBER FOOT, FRONT
	J02-0528-04	TILT STAND
	J19-1676-04	HOLDER, LED
	J21-4712-04	BRACKET; FOR VR
	K01-0410-05	HANDLE
	K21-0915-04	KNOB
	K27-0351-04	PUSH BUTTON; GRAY
	K27-0506-04	PUSH BUTTON; ORANGE
	W02-2102-08	PANEL UNIT
	W02-2103-08	MAIN UNIT
	W03-2309-05	ACCESSORY CORD CA-41
J1	E04-0259-05	BNC RECEPTACLE
J2	E04-0259-05	BNC RECEPTACLE
J3	E04-0259-05	BNC RECEPTACLE
J4	E29-0550-08	PIN CONNECTOR
J5	E04-0259-05	BNC RECEPTACLE
J6	E04-0259-05	BNC RECEPTACLE
J7	E04-0259-05	BNC RECEPTACLE
Q1	2SD721	
R15	RN14BK2E2401F	RES. METAL FILM 2.4K 1% 1/4W
R16	RN14BK2E2401F	RES. METAL FILM 2.4K 1% 1/4W
R17	RN14BK2E2401F	RES. METAL FILM 2.4K 1% 1/4W
R18	RN14BK2E2401F	RES. METAL FILM 2.4K 1% 1/4W
R19	RN14BK2E4990F	RES. METAL FILM 499 1% 1/4W
R20	RN14BK2E6800F	RES. METAL FILM 680 1% 1/4W
R21	RN14BK2E4990F	RES. METAL FILM 499 1% 1/4W
R22	RN14BK2E6800F	RES. METAL FILM 680 1% 1/4W
R23	RN14BK2E7150F	RES. METAL FILM 715 1% 1/4W
R24	RN14BK2E3740F	RES. METAL FILM 374 1% 1/4W
S1	S40-2532-05	POWER SW
T1	L01-9974-08	POWER TRANSFORMER
VR1	R29-2502-08	V. R. 5K
VR2	R29-2502-08	V. R. 5K
VR3	R29-2502-08	V. R. 5K
VR4	R29-1511-08	V. R. 1K
VR5	R29-1511-08	V. R. 1K
VR6	R29-1511-08	V. R. 1K

PARTS LIST

CG-931 MAIN UNIT W02-2101-08

REF. NO	PARTS NO	NAME & DESCRIPTION			
	F01-0890-08	HEAT SINK			
	W02-2003-05	RF CONVERTER			
C1	CE04EW1E102M	CAP. ELECTRO	1000	20%	25V
C2	CE04EW1C470M	CAP. ELECTRO	47	20%	16V
C3	CK45F1H103Z	CAP. CERAMIC	0.01		50V
C4	CE04EW1C471M	CAP. ELECTRO	470	20%	16V
C5	CE04EW1C470M	CAP. ELECTRO	47	20%	16V
C6	CK45F1H103Z	CAP. CERAMIC	0.01		50V
C7	CE04EW1E102M	CAP. ELECTRO	1000	20%	25V
C8	CE04EW1C470M	CAP. ELECTRO	47	20%	16V
C9	CK45F1H103Z	CAP. CERAMIC	0.01		50V
C14	CM93BD2A220J	CAP. MICA	22P	5%	100V
C17	C05-0482-08	CAP. TRIMMER	40P		
C18	CE04EW1C100M	CAP. ELECTRO	10	20%	16V
C19		NO USE			
C20	CE04EW1C100M	CAP. ELECTRO	10	20%	16V
C21	CE04EW1C100M	CAP. ELECTRO	10	20%	16V
C22	CM93BD2A100J	CAP. MICA	10P	5%	100V
C23	CQ92N1H473K	CAP. NYLAR	0.047	10%	50V
C24	CE04EW1C100M	CAP. ELECTRO	10	20%	16V
C25		NO USE			
C26	CK45F1H103Z	CAP. CERAMIC	0.01		50V
C27		NO USE			
C28	CE04EW1C100M	CAP. ELECTRO	10	20%	16V
C29		NO USE			
C30	CK45F1H103Z	CAP. CERAMIC	0.01		50V
C31		NO USE			
C32	CE04EW1C100M	CAP. ELECTRO	10	20%	16V
C33		NO USE			
C34	CK45F1H103Z	CAP. CERAMIC	0.01		50V
C41	CQ92N1H104K	CAP. NYLAR	0.1	10%	50V
C42	CQ92N1H104K	CAP. NYLAR	0.1	10%	50V
C43	CQ92N1H104K	CAP. NYLAR	0.1	10%	50V
C44	CM93BD2A680J	CAP. MICA	68P	5%	100V
C45	C05-0482-08	CAP. TRIMMER	40P		
C46	CE04EW1C220M	CAP. ELECTRO	22	20%	16V
C47	CM93BD2A820J	CAP. MICA	82P	5%	100V
C48	C05-0482-08	CAP. TRIMMER	40P		
C49	CK45F1H103Z	CAP. CERAMIC	0.01		50V
C52	CE04EW1E101M	CAP. ELECTRO	100	20%	25V
C53	CK45F1H103Z	CAP. CERAMIC	0.01		50V
C54	CE04EW1C100M	CAP. ELECTRO	10	20%	16V
C55	CK45F1H103Z	CAP. CERAMIC	0.01		50V
C56	CE04EW1C100M	CAP. ELECTRO	10	20%	16V
C57	CC45CH1H330J	CAP. CERAMIC	33P	5%	50V
C60	CE04EW1C471M	CAP. ELECTRO	470	20%	16V
C61	CE04EW1C471M	CAP. ELECTRO	470	20%	16V
C62	CK45F1H103Z	CAP. CERAMIC	0.01		50V
C63	CK45F1H103Z	CAP. CERAMIC	0.01		50V
C64	CK45F1H103Z	CAP. CERAMIC	0.01		50V
C65	CQ92N1H104K	CAP. NYLAR	0.1	10%	50V
C66	CK45F1H103Z	CAP. CERAMIC	0.01		50V
C67	CE04EW1C100M	CAP. ELECTRO	10	20%	16V
C68	CK45F1H103Z	CAP. CERAMIC	0.01		50V
C69	CE04EW1C100M	CAP. ELECTRO	10	20%	16V
C70	CK45F1H103Z	CAP. CERAMIC	0.01		50V
C71	CE04EW1C100M	CAP. ELECTRO	10	20%	16V
C72	CK45F1H103Z	CAP. CERAMIC	0.01		50V
C73	CE04EW1C100M	CAP. ELECTRO	10	20%	16V
C74	CK45F1H103Z	CAP. CERAMIC	0.01		50V
C75	CE04EW1C100M	CAP. ELECTRO	10	20%	16V
C76	CK45F1H103Z	CAP. CERAMIC	0.01		50V
C77	CE04EW1C100M	CAP. ELECTRO	10	20%	16V
C78	CK45F1H103Z	CAP. CERAMIC	0.01		50V
C79	CE04EW1C100M	CAP. ELECTRO	10	20%	16V
C80	CK45B1H102K	CAP. CERAMIC	1000P	10%	50V
C81	CE04EW1V470M	CAP. ELECTRO	47	20%	35V
C82	CK45F1H103Z	CAP. CERAMIC	0.01		50V
C83	CE04EW1C100M	CAP. ELECTRO	10	20%	16V
C100	CC45CH1H330J	CAP. CERAMIC	33P	5%	50V
C101		NO USE			
C102	CM93BD2A820J	CAP. MICA	82P	5%	100V
C105	CK45B1H222K	CAP. CERAMIC	2200P	10%	50

REF. NO	PARTS NO	NAME & DESCRIPTION			
C106	CK45B1H222K	CAP. CERAMIC	2200P	10%	50V
C107	CK45B1H222K	CAP. CERAMIC	2200P	10%	50V
C108	CQ92N1H472K	CAP. NYLAR	4700P	10%	50V
C109	CK45B1H222K	CAP. CERAMIC	2200P	10%	50V
C110	CK45B1H222K	CAP. CERAMIC	2200P	10%	50V
C111	CK45B1H222K	CAP. CERAMIC	2200P	10%	50V
C112	CK45B1H222K	CAP. CERAMIC	2200P	10%	50V
C130	CK45B1H102K	CAP. CERAMIC	1000P	10%	50V
C131	CC45SL1H471J	CAP. CERAMIC	470P	5%	50V
C150	CE04EW1C100M	CAP. ELECTRO	10	20%	16V
C151	CC45CH1H220J	CAP. CERAMIC	22P	5%	50V
CN2	E40-1515-05	PIN CONNECTOR	15P		
CN3	E40-1515-05	PIN CONNECTOR	15P		
CN4	E40-0915-05	PIN CONNECTOR	9P		
CN5	E40-3362-05	PIN CONNECTOR	3P		
CN6	E40-3362-05	PIN CONNECTOR	3P		
CN7	E40-3362-05	PIN CONNECTOR	3P		
CN8		NO USE			
CN9	E40-3361-05	PIN CONNECTOR	2P		
CN10	E40-3361-05	PIN CONNECTOR	2P		
CN11	E40-3363-05	PIN CONNECTOR	4P		
CN12	E40-3361-05	PIN CONNECTOR	2P		
CN13	E40-3361-05	PIN CONNECTOR	2P		
CN14	E40-3361-05	PIN CONNECTOR	2P		
CN15		NO USE			
CN16	E40-3365-05	PIN CONNECTOR	6P		
CN17	E40-3362-05	PIN CONNECTOR	3P		
D1	U05B	DIODE			
D2	U05B	DIODE			
D3	U05B	DIODE			
D4	U05B	DIODE			
D5	10D1	DIODE			
D6	10D1	DIODE			
D7	10D1	DIODE			
D8	10D1	DIODE			
D9	10D1	DIODE			
D10	10D1	DIODE			
D11	10D1	DIODE			
D12	10D1	DIODE			
D13	CC45CH1H680J	CAP. CERAMIC	68P	5%	50V
D14		NO USE			
D15	1S1588	DIODE			
D16	1S1588	DIODE			
D17	1S1588	DIODE			
D18	1S1588	DIODE			
D19	1S1588	DIODE			
D20	1S1588	DIODE			
D21	1S1588	DIODE			
D22	1S1588	DIODE			
D23	1S1588	DIODE			
D24	HZ27-3	DIODE, ZENER	27.9V		
D25	MA700	DIODE			
D26	MA700	DIODE			
L2	L39-0536-08	COIL			
L3		NO USE			
L4	L39-0537-08	COIL			
L5	L39-0538-08	COIL			
Q2	2SC1815(Y)	TR. SI, NPN			
Q5	2SC1815(Y)	TR. SI, NPN			
Q6	2SC1815(Y)	TR. SI, NPN			
Q7	2SA1015(Y)	TR. SI, PNP			
Q8	2SA1015(Y)	TR. SI, PNP			
Q9	2SC1815(Y)	TR. SI, NPN			
Q10	2SC1815(Y)	TR. SI, NPN			
Q11	2SC1815(Y)	TR. SI, NPN			
Q14	2SA1015(Y)	TR. SI, PNP			
Q15	2SA1015(Y)	TR. SI, PNP			
Q16	2SA1015(Y)	TR. SI, PNP			
Q17	2SC3419(Y)	TR. SI, NPN			
Q18	2SC1815(Y)	TR. SI, NPN			
Q19	2SA1356(Y)	TR. SI, PNP			
Q20	2SA1015(Y)	TR. SI, PNP			
Q21	2SC3419(Y)	TR. SI, NPN			
Q22	2SC1815(Y)	TR. SI, NPN			
Q23	2SA1356(Y)	TR. SI, PNP			
Q24	2SA1015(Y)	TR. SI, PNP			
Q25	2SC3419(Y)	TR. SI, NPN			

PARTS LIST

REF. NO	PARTS NO	NAME & DESCRIPTION	REF. NO	PARTS NO	NAME & DESCRIPTION
Q26	2SC1815(Y)	TR. SI, NPN	R128	RN14BK2E2201F	RES. METAL FILM 2.2K 1% 1/4W
Q27	2SA1356(Y)	TR. SI, PNP	R129	RN14BK2E2201F	RES. METAL FILM 2.2K 1% 1/4W
Q28	2SC1815(Y)	TR. SI, NPN	R130	RN14BK2E4702F	RES. METAL FILM 47K 1% 1/4W
Q35	2SA1015(Y)	TR. SI, PNP	R131	RN14BK2E2201F	RES. METAL FILM 2.2K 1% 1/4W
Q36	2SC1815(Y)	TR. SI, NPN	R132	RN14BK2E2201F	RES. METAL FILM 2.2K 1% 1/4W
Q37	2SC1815(Y)	TR. SI, NPN	R133	RN14BK2E4702F	RES. METAL FILM 47K 1% 1/4W
Q38	2SC1815(Y)	TR. SI, NPN	R134	RN14BK2E1001F	RES. METAL FILM 1K 1% 1/4W
R11	RD14BB2E472J	RES. CARBON 4.7K 5% 1/4W	R135	RN14BK2E1001F	RES. METAL FILM 1K 1% 1/4W
R12	RD14BB2E181J	RES. CARBON 180 5% 1/4W	R136	RN14BK2E2201F	RES. METAL FILM 2.2K 1% 1/4W
R38	RD14BB2E103J	RES. CARBON 10K 5% 1/4W	R137	RN14BK2E2201F	RES. METAL FILM 2.2K 1% 1/4W
R39	RD14BB2E103J	RES. CARBON 10K 5% 1/4W	R138	RN14BK2E1001F	RES. METAL FILM 1K 1% 1/4W
R40	RD14BB2E103J	RES. CARBON 10K 5% 1/4W	R139	RN14BK2E2701F	RES. METAL FILM 2.7K 1% 1/4W
R41	RN14BK2E4701F	RES. METAL FILM 4.7K 1% 1/4W	R140	RN14BK2E1501F	RES. METAL FILM 1.5K 1% 1/4W
R42	RD14BB2E102J	RES. CARBON 1K 5% 1/4W	R141	RN14BK2E2201F	RES. METAL FILM 2.2K 1% 1/4W
R43	RN14BK2E4990F	RES. METAL FILM 499 1% 1/4W	R142	RN14BK2E1501F	RES. METAL FILM 1.5K 1% 1/4W
R44	RN14BK2E1300F	RES. METAL FILM 130 1% 1/4W	R143	RN14BK2E2201F	RES. METAL FILM 2.2K 1% 1/4W
R45	NO USE		R144	RD14BB2E102J	RES. CARBON 1K 5% 1/4W
R46	RN14BK2E36R0F	RES. METAL FILM 36.0 1% 1/4W	R145	RD14BB2E102J	RES. CARBON 1K 5% 1/4W
R47	RN14BK2E1600F	RES. METAL FILM 160 1% 1/4W	R146	RD14BB2E121J	RES. CARBON 120 5% 1/4W
R48	RN14BK2E51R0F	RES. METAL FILM 51.0 1% 1/4W	R147	RD14BB2E332J	RES. CARBON 3.3K 5% 1/4W
R49	RN14BK2E1600F	RES. METAL FILM 160 1% 1/4W	R148	RD14BB2E152J	RES. CARBON 1.5K 5% 1/4W
R50	RN14BK2E36R0F	RES. METAL FILM 36.0 1% 1/4W	R149	RD14BB2E101J	RES. CARBON 100 5% 1/4W
R51	RD14BB2E102J	RES. CARBON 1K 5% 1/4W	R150	RD14BB2E681J	RES. CARBON 680 5% 1/4W
R52	RN14BK2E51R0F	RES. METAL FILM 51.0 1% 1/4W	R151	RD14BB2E622J	RES. CARBON 6.2K 5% 1/4W
R53	NO USE		R152	RD14BB2E682J	RES. CARBON 6.8K 5% 1/4W
R54	RN14BK2E8201F	RES. METAL FILM 8.2K 1% 1/4W	R153	RD14BB2E102J	RES. CARBON 1K 5% 1/4W
R55	RN14BK2E7501F	RES. METAL FILM 7.5K 1% 1/4W	R157	RD14BB2E102J	RES. CARBON 1K 5% 1/4W
R56	RN14BK2E1501F	RES. METAL FILM 1.5K 1% 1/4W	R158	RD14BB2E563J	RES. CARBON 56K 5% 1/4W
R57	NO USE		R159	RD14BB2E152J	RES. CARBON 1.5K 5% 1/4W
R58	RN14BK2E3901F	RES. METAL FILM 3.9K 1% 1/4W	R160	RD14BB2E101J	RES. CARBON 100 5% 1/4W
R59	RN14BK2E9091F	RES. METAL FILM 9.09K 1% 1/4W	R161	RN14BK2E1331F	RES. METAL FILM 1.33K 1% 1/4W
R60	NO USE		R162	RN14BK2E6800F	RES. METAL FILM 680 1% 1/4W
R61	RN14BK2E4421F	RES. METAL FILM 4.42K 1% 1/4W	R163	RD14BB2E622J	RES. CARBON 6.2K 5% 1/4W
R62	RN14BK2E2001F	RES. METAL FILM 2K 1% 1/4W	R164	RN14BK2E6801F	RES. METAL FILM 6.8K 1% 1/4W
R63	RN14BK2E8200F	RES. METAL FILM 820 1% 1/4W	R165	RD14BB2E102J	RES. CARBON 1K 5% 1/4W
R64	RN14BK2E8200F	RES. METAL FILM 820 1% 1/4W	R166	NO USE	
R65	RN14BK2E8200F	RES. METAL FILM 820 1% 1/4W	R167	RD14BB2E221J	RES. CARBON 220 5% 1/4W
R66	RN14BK2E8200F	RES. METAL FILM 820 1% 1/4W	R171	RN14BK2E2400F	RES. METAL FILM 240 1% 1/4W
R67	RN14BK2E8200F	RES. METAL FILM 820 1% 1/4W	R172	RN14BK2E6800F	RES. METAL FILM 680 1% 1/4W
R68	RN14BK2E4701F	RES. METAL FILM 4.7K 1% 1/4W	R173	RD14BB2E102J	RES. CARBON 1K 5% 1/4W
R69	RN14BK2E4701F	RES. METAL FILM 4.7K 1% 1/4W	R174	RD14BB2E563J	RES. CARBON 56K 5% 1/4W
R70	RN14BK2E4701F	RES. METAL FILM 4.7K 1% 1/4W	R175	RD14BB2E102J	RES. CARBON 1K 5% 1/4W
R71	RN14BK2E2201F	RES. METAL FILM 2.2K 1% 1/4W	R176	RD14BB2E102J	RES. CARBON 1K 5% 1/4W
R72	RN14BK2E8200F	RES. METAL FILM 820 1% 1/4W	R177	RD14BB2E121J	RES. CARBON 120 5% 1/4W
R73	RN14BK2E4701F	RES. METAL FILM 4.7K 1% 1/4W	R178	RD14BB2E102J	RES. CARBON 1K 5% 1/4W
R90	RN14BK2E7501F	RES. METAL FILM 7.5K 1% 1/4W	R179	RD14BB2E223J	RES. CARBON 22K 5% 1/4W
R91	RN14BK2E1600F	RES. METAL FILM 160 1% 1/4W	R180	RD14BB2E103J	RES. CARBON 10K 5% 1/4W
R92	RN14BK2E8251F	RES. METAL FILM 8.25K 1% 1/4W	R181	RD14BB2E472J	RES. CARBON 4.7K 5% 1/4W
R93	RN14BK2E2200F	RES. METAL FILM 220 1% 1/4W	R182	RN14BK2E2700F	RES. METAL FILM 270 1% 1/4W
R94	RN14BK2E5492F	RES. METAL FILM 54.9K 1% 1/4W	R183	RN14BK2E8200F	RES. METAL FILM 820 1% 1/4W
R95	RN14BK2E8061F	RES. METAL FILM 8.06K 1% 1/4W	R184	RD14BB2E103J	RES. CARBON 10K 5% 1/4W
R98	RN14BK2E1102F	RES. METAL FILM 11K 1% 1/4W	R185	RD14BB2E472J	RES. CARBON 4.7K 5% 1/4W
R99	RN14BK2E1600F	RES. METAL FILM 160 1% 1/4W	R186	RD14BB2E101J	RES. CARBON 100 5% 1/4W
R100	RN14BK2E1502F	RES. METAL FILM 15K 1% 1/4W	R187	RD14BB2E101J	RES. CARBON 100 5% 1/4W
R101	RN14BK2E2400F	RES. METAL FILM 240 1% 1/4W	R188	RD14BB2E103J	RES. CARBON 10K 5% 1/4W
R102	RN14BK2E3012F	RES. METAL FILM 30.1K 1% 1/4W	R189	RD14BB2E472J	RES. CARBON 4.7K 5% 1/4W
R103	RN14BK2E1002F	RES. METAL FILM 10K 1% 1/4W	R190	RD14BB2E101J	RES. CARBON 100 5% 1/4W
R104	RN14BK2E2202F	RES. METAL FILM 22K 1% 1/4W	R191	RD14BB2E152J	RES. CARBON 1.5K 5% 1/4W
R105	RN14BK2E4701F	RES. METAL FILM 4.7K 1% 1/4W	R192	RD14BB2E151J	RES. CARBON 150 5% 1/4W
R106	RN14BK2E2702F	RES. METAL FILM 27K 1% 1/4W	R193	RD14BB2E151J	RES. CARBON 150 5% 1/4W
R107	RN14BK2E6041F	RES. METAL FILM 6.04K 1% 1/4W	R194	RD14BB2E151J	RES. CARBON 150 5% 1/4W
R108	RN14BK2E4702F	RES. METAL FILM 47K 1% 1/4W	R195	RD14BB2E151J	RES. CARBON 150 5% 1/4W
R109	RN14BK2E5361F	RES. METAL FILM 5.36K 1% 1/4W	R196	RD14BB2E103J	RES. CARBON 10K 5% 1/4W
R110	RN14BK2E3602F	RES. METAL FILM 36K 1% 1/4W	R197	RD14BB2E472J	RES. CARBON 4.7K 5% 1/4W
R111	RN14BK2E7501F	RES. METAL FILM 7.5K 1% 1/4W	R198	RD14BB2E101J	RES. CARBON 100 5% 1/4W
R112	RN14BK2E2702F	RES. METAL FILM 27K 1% 1/4W	R199	RD14BB2E152J	RES. CARBON 1.5K 5% 1/4W
R113	RN14BK2E3321F	RES. METAL FILM 3.32K 1% 1/4W	R200	RD14BB2E101J	RES. CARBON 100 5% 1/4W
R114	RN14BK2E4702F	RES. METAL FILM 47K 1% 1/4W	R201	RD14BB2E151J	RES. CARBON 150 5% 1/4W
R115	RN14BK2E3601F	RES. METAL FILM 3.6K 1% 1/4W	R202	RD14BB2E103J	RES. CARBON 10K 5% 1/4W
R116	RN14BK2E5621F	RES. METAL FILM 5.62K 1% 1/4W	R203	RD14BB2E472J	RES. CARBON 4.7K 5% 1/4W
R117	RN14BK2E1200J	RES. METAL FILM 120 5% 1/4W	R204	RD14BB2E101J	RES. CARBON 100 5% 1/4W
R118	RN14BK2E1002F	RES. METAL FILM 10K 1% 1/4W	R205	RD14BB2E152J	RES. CARBON 1.5K 5% 1/4W
R119	RN14BK2E4701F	RES. METAL FILM 4.7K 1% 1/4W	R206	RD14BB2E151J	RES. CARBON 150 5% 1/4W
R120	NO USE		R207	RD14BB2E103J	RES. CARBON 10K 5% 1/4W
R121	RN14BK2E3601F	RES. METAL FILM 3.6K 1% 1/4W	R208	RD14BB2E472J	RES. CARBON 4.7K 5% 1/4W
R122	RN14BK2E3302F	RES. METAL FILM 33K 1% 1/4W	R209	RD14BB2E101J	RES. CARBON 100 5% 1/4W
R123	RN14BK2E5601F	RES. METAL FILM 5.6K 1% 1/4W	R210	RD14BB2E152J	RES. CARBON 1.5K 5% 1/4W
R124	RN14BK2E2201F	RES. METAL FILM 2.2K 1% 1/4W	R211	RD14BB2E101J	RES. CARBON 100 5% 1/4W
R125	RN14BK2E4420F	RES. METAL FILM 442 1% 1/4W	R212	RD14BB2E151J	RES. CARBON 150 5% 1/4W
			R213	RD14BB2E151J	RES. CARBON 150 5% 1/4W
			R214	RD14BB2E103J	RES. CARBON 10K 5% 1/4W
			R215	RD14BB2E472J	RES. CARBON 4.7K 5% 1/4W

PARTS LIST

REF. NO	PARTS NO	NAME & DESCRIPTION
R216	RD14BB2E101J	RES. CARBON 100 5% 1/4W
R217	RD14BB2E152J	RES. CARBON 1.5K 5% 1/4W
R218	RD14BB2E151J	RES. CARBON 150 5% 1/4W
R219	RD14BB2E151J	RES. CARBON 150 5% 1/4W
R220	RD14BB2E223J	RES. CARBON 22K 5% 1/4W
R221	RD14BB2E473J	RES. CARBON 47K 5% 1/4W
R222	RD14BB2E102J	RES. CARBON 1K 5% 1/4W
R223	RD14BB2E103J	RES. CARBON 10K 5% 1/4W
R224	RD14BB2E103J	RES. CARBON 10K 5% 1/4W
R225	RD14BB2E103J	RES. CARBON 10K 5% 1/4W
R226	RD14BB2E103J	RES. CARBON 10K 5% 1/4W
R249	RN14BK2E9762F	RES. METAL FILM 97.6K 1% 1/4W
R250	RD14BB2E152J	RES. CARBON 1.5K 5% 1/4W
R251	RD14BB2E510J	RES. CARBON 51 5% 1/4W
R300	RD14BB2E153J	RES. CARBON 15K 5% 1/4W
RM1	R90-1116-08	RES. NETWORK 8X10K
RM2	R90-1116-08	RES. NETWORK 8X10K
T2	L37-0052-05	MATCHING COIL
U1	MC7812CT	IC, POSITIVE VOLTAGE REGULATORS
U2	MC7912CT	IC, NEGATIVE VOLTAGE REGULATORS
U3	TA78L005P	IC, 3-TERNINAL REGULATOR
U4	CXD1217M	IC, SYNC. SIGNAL GENERATOR
U5	TC74HC161AN	IC, SYNC. 4-BIT BINARY COUNTER
U6	TC74HC04AN	IC, HEX INVERTER
U7	TC74HC00AN	IC, QUAD 2-INPUT NAND GATE
U8	TC74HC74AN	IC, DUAL D-F.F. WITH PR&CLR
U9	TC74HC161AN	IC, SYNC. 4-BIT BINARY COUNTER
U10	TC74HC393AN	IC, DUAL BINARY COUNTER
U11	TC74HC393AN	IC, DUAL BINARY COUNTER
U12	T93-0759-08	IC, PROGRAMMED ROM
U13	NO USE	
U14	T93-0760-08	IC, PROGRAMMED ROM
U15	HD74HC93PN	IC, 4-BIT BINARY COUNTER
U16	T93-0762-08	IC, PROGRAMMED ROM
U17	NO USE	
U18	TC74HC04AN	IC, HEX INVERTER
U19	TC74HC123AN	IC, DUAL MONO. MULTIVIB.
U20	TC74HC74AN	IC, DUAL D-F.F. WITH PR&CLR
U21	T93-0761-08	IC, PROGRAMMED ROM
U22	TC74HC32AN	IC, QUAD 2-INPUT OR GATE
U23	TC74HC32AN	IC, QUAD 2-INPUT OR GATE
U24	SN74LS06N	IC, HEX INVERTERS
U25	SN74LS06N	IC, HEX INVERTERS
U26	MC1496P	IC, BALANCED MODEM
U27	MC1496P	IC, BALANCED MODEM
U30	SN74LS138N	IC, 3-8 DECOD. /DE-MPX
U31	SN74LS06N	IC, HEX INVERTERS
U32	SN74LS08N	IC, QUAD 2-INPUT AND GATE
U33	SN74LS138N	IC, 3-8 DECOD. /DE-MPX
VR7	R29-3512-08	RES. SEMI FIXED 10K
VR8	R29-5503-08	RES. SEMI FIXED 220K
VR9	R29-5503-08	RES. SEMI FIXED 220K
VR10	R29-1512-08	RES. SEMI FIXED 4.7K
VR11	R29-1512-08	RES. SEMI FIXED 4.7K
VR12	R29-1513-08	RES. SEMI FIXED 1K
VR13	R29-1514-08	RES. SEMI FIXED 3K
VR14	R29-1512-08	RES. SEMI FIXED 4.7K
VR15	R29-5504-08	RES. SEMI FIXED 100K
VR16	R29-5504-08	RES. SEMI FIXED 100K
X1	L77-1060-05	CRYSTAL RESONATOR (14.31818MHZ)

CG-932 MAIN UNIT W02-2103-08

REF. NO	PARTS NO	NAME & DESCRIPTION
	F01-0890-08	HEAT SINK
	W02-2002-05	RF CONVERTER
C1	CE04EW1E102M	CAP. ELECTRO 1000 20% 25V
C2	CE04EW1C100M	CAP. ELECTRO 10 20% 16V
C3	CK45F1H103Z	CAP. CERAMIC 0.01 50V
C4	CE04EW1C471M	CAP. ELECTRO 470 20% 16V
C5	CE04EW1C100M	CAP. ELECTRO 10 20% 16V
C6	CK45F1H103Z	CAP. CERAMIC 0.01 50V
C7	CE04EW1E102M	CAP. ELECTRO 1000 20% 25V
C8	CE04EW1C100M	CAP. ELECTRO 10 20% 16V
C9	CK45F1H103Z	CAP. CERAMIC 0.01 50V
C10	CE04EW1C100M	CAP. ELECTRO 10 20% 16V
C11	NO USE	
C12	C05-0482-08	CAP. TRIMMER 40P
C13	CC45CH1H470J	CAP. CERAMIC 47P 5% 50V
C14	CN93BD2A220J	CAP. MICA 22P 5% 100V
C15	CK45B1H102K	CAP. CERAMIC 1000P 10% 50V
C16	CK45B1H102K	CAP. CERAMIC 1000P 10% 50V
C17	C05-0482-08	CAP. TRIMMER 40P
C18	CE04EW1C100M	CAP. ELECTRO 10 20% 16V
C19	NO USE	
C20	CE04EW1C100M	CAP. ELECTRO 10 20% 16V
C21	CE04EW1C100M	CAP. ELECTRO 10 20% 16V
C22	CN93BD2A100J	CAP. MICA 10P 5% 100V
C23	CQ92M1H473K	CAP. MYLAR 0.047 10% 50V
C24	CE04EW1C100M	CAP. ELECTRO 10 20% 16V
C25	NO USE	
C26	CK45F1H103Z	CAP. CERAMIC 0.01 50V
C27	NO USE	
C28	CE04EW1C100M	CAP. ELECTRO 10 20% 16V
C29	NO USE	
C30	CK45F1H103Z	CAP. CERAMIC 0.01 50V
C31	NO USE	
C32	CE04EW1C100M	CAP. ELECTRO 10 20% 16V
C33	NO USE	
C34	CK45F1H103Z	CAP. CERAMIC 0.01 50V
C40	CQ92M1H104K	CAP. MYLAR 0.1 10% 50V
C41	CQ92M1H104K	CAP. MYLAR 0.1 10% 50V
C42	CQ92M1H104K	CAP. MYLAR 0.1 10% 50V
C43	CQ92M1H104K	CAP. MYLAR 0.1 10% 50V
C44	CN93BD2A680J	CAP. MICA 68P 5% 100V
C45	C05-0482-08	CAP. TRIMMER 40P
C46	CE04EW1C220M	CAP. ELECTRO 22 20% 16V
C47	CN93BD2A820J	CAP. MICA 82P 5% 100V
C48	C05-0482-08	CAP. TRIMMER 40P
C49	CK45F1H103Z	CAP. CERAMIC 0.01 50V
C52	CE04EW1E101M	CAP. ELECTRO 100 20% 25V
C53	CK45F1H103Z	CAP. CERAMIC 0.01 50V
C54	CE04EW1C100M	CAP. ELECTRO 10 20% 16V
C55	CK45F1H103Z	CAP. CERAMIC 0.01 50V
C56	CE04EW1C100M	CAP. ELECTRO 10 20% 16V
C57	CC45CH1H330J	CAP. CERAMIC 33P 5% 50V
C60	CE04EW1C471M	CAP. ELECTRO 470 20% 16V
C61	CE04EW1C471M	CAP. ELECTRO 470 20% 16V
C62	CK45F1H103Z	CAP. CERAMIC 0.01 50V
C63	CK45F1H103Z	CAP. CERAMIC 0.01 50V
C64	CK45F1H103Z	CAP. CERAMIC 0.01 50V
C65	CQ92M1H104K	CAP. MYLAR 0.1 10% 50V
C66	CK45F1H103Z	CAP. CERAMIC 0.01 50V
C67	CE04EW1C100M	CAP. ELECTRO 10 20% 16V
C68	CK45F1H103Z	CAP. CERAMIC 0.01 50V
C69	CE04EW1C100M	CAP. ELECTRO 10 20% 16V
C70	CK45F1H103Z	CAP. CERAMIC 0.01 50V
C71	CE04EW1C100M	CAP. ELECTRO 10 20% 16V
C72	CK45F1H103Z	CAP. CERAMIC 0.01 50V
C73	CE04EW1C100M	CAP. ELECTRO 10 20% 16V
C74	CK45F1H103Z	CAP. CERAMIC 0.01 50V
C75	CE04EW1C100M	CAP. ELECTRO 10 20% 16V
C76	CK45F1H103Z	CAP. CERAMIC 0.01 50V
C77	CE04EW1C100M	CAP. ELECTRO 10 20% 16V
C78	CK45F1H103Z	CAP. CERAMIC 0.01 50V
C79	CE04EW1C100M	CAP. ELECTRO 10 20% 16V
C80	CK45B1H102K	CAP. CERAMIC 1000P 10% 50V
C81	CE04EW1V470M	CAP. ELECTRO 47 20% 35V
C82	CK45F1H103Z	CAP. CERAMIC 0.01 50V
C83	CE04EW1C100M	CAP. ELECTRO 10 20% 16V

PARTS LIST

REF. NO	PARTS NO	NAME & DESCRIPTION
C100	CC45CH1H330J	CAP. CERAMIC 33P 5% 50V
C101	NO USE	
C102	CC45SL1H101J	CAP. CERAMIC 100P 5% 50V
C105	CK45B1H222K	CAP. CERAMIC 2200P 10% 50V
C106	CK45B1H222K	CAP. CERAMIC 2200P 10% 50V
C107	CK45B1H222K	CAP. CERAMIC 2200P 10% 50V
C108	CK45B1H472K	CAP. CERAMIC 4700P 10% 50V
C109	CK45B1H222K	CAP. CERAMIC 2200P 10% 50V
C110	CK45B1H222K	CAP. CERAMIC 2200P 10% 50V
C111	CK45B1H222K	CAP. CERAMIC 2200P 10% 50V
C112	CK45B1H222K	CAP. CERAMIC 2200P 10% 50V
C113	CE04EW1C100M	CAP. ELECTRO 10 20% 16V
C12A	CC45SL1H330J	CAP. CERAMIC 33P 5% 50V
C130	CK45B1H102K	CAP. CERAMIC 1000P 10% 50V
C150	CE04EW1C100M	CAP. ELECTRO 10 20% 16V
C151	CC45SL1H471J	CAP. CERAMIC 470P 5% 50V
C152	CE04EW1C010M	CAP. ELECTRO 1 20% 16V
C17A	CC45SL1H101J	CAP. CERAMIC 100P 5% 50V
CN2	E40-1515-05	PIN CONNECTOR 15P
CN3	E40-1515-05	PIN CONNECTOR 15P
CN4	E40-0915-05	PIN CONNECTOR 9P
CN5	E40-3362-05	PIN CONNECTOR 3P
CN6	E40-3362-05	PIN CONNECTOR 3P
CN7	E40-3362-05	PIN CONNECTOR 3P
CN8	NO USE	
CN9	E40-3361-05	PIN CONNECTOR 2P
CN10	E40-3361-05	PIN CONNECTOR 2P
CN11	E40-3363-05	PIN CONNECTOR 4P
CN12	E40-3361-05	PIN CONNECTOR 2P
CN13	E40-3361-05	PIN CONNECTOR 2P
CN14	E40-3361-05	PIN CONNECTOR 2P
CN15	NO USE	
CN16	E40-3365-05	PIN CONNECTOR 6P
CN17	E40-3362-05	PIN CONNECTOR 3P
D1	U05B	DIODE
D2	U05B	DIODE
D3	U05B	DIODE
D4	U05B	DIODE
D5	10D1	DIODE
D6	10D1	DIODE
D7	10D1	DIODE
D8	10D1	DIODE
D9	10D1	DIODE
D10	10D1	DIODE
D11	10D1	DIODE
D12	10D1	DIODE
D13	FC54M	DIODE
D14	NO USE	
D15	1S1588	DIODE
D16	1S1588	DIODE
D17	1S1588	DIODE
D18	1S1588	DIODE
D19	1S1588	DIODE
D20	1S1588	DIODE
D21	1S1588	DIODE
D22	1S1588	DIODE
D23	1S1588	DIODE
D24	HZ27-3	DIODE, ZENER 27.9V
D25	MA700	DIODE
D26	MA700	DIODE
L1	L39-0540-08	COIL
L2	L39-0536-08	COIL
L3	NO USE	
L4	L39-0537-08	COIL
L5	L39-0538-08	COIL
Q2	2SC1815(Y)	TR. SI, NPN
Q5	2SC1815(Y)	TR. SI, NPN
Q6	2SC1815(Y)	TR. SI, NPN
Q7	2SA1015(Y)	TR. SI, PNP
Q8	2SA1015(Y)	TR. SI, PNP
Q9	2SC1815(Y)	TR. SI, NPN
Q10	2SC1815(Y)	TR. SI, NPN
Q11	2SC1815(Y)	TR. SI, NPN

REF. NO	PARTS NO	NAME & DESCRIPTION
Q14	2SA1015(Y)	TR. SI, PNP
Q15	2SA1015(Y)	TR. SI, PNP
Q16	2SA1015(Y)	TR. SI, PNP
Q17	2SC3419(Y)	TR. SI, NPN
Q18	2SC1815(Y)	TR. SI, NPN
Q19	2SA1356(Y)	TR. SI, PNP
Q20	2SA1015(Y)	TR. SI, PNP
Q21	2SC3419(Y)	TR. SI, NPN
Q22	2SC1815(Y)	TR. SI, NPN
Q23	2SA1356(Y)	TR. SI, PNP
Q24	2SA1015(Y)	TR. SI, PNP
Q25	2SC3419(Y)	TR. SI, NPN
Q26	2SC1815(Y)	TR. SI, NPN
Q27	2SA1356(Y)	TR. SI, PNP
Q28	2SC1815(Y)	TR. SI, NPN
Q31	2SC1815(Y)	TR. SI, NPN
Q32	2SC1815(Y)	TR. SI, NPN
Q35	2SA1015(Y)	TR. SI, PNP
Q36	2SC1815(Y)	TR. SI, NPN
Q37	2SC1815(Y)	TR. SI, NPN
Q38	2SC1815(Y)	TR. SI, NPN
R11	RD14BB2E472J	RES. CARBON 4.7K 5% 1/4W
R12	RD14BB2E181J	RES. CARBON 180 5% 1/4W
R30	RD14BB2E332J	RES. CARBON 3.3K 5% 1/4W
R31	RD14BB2E222J	RES. CARBON 2.2K 5% 1/4W
R32	RN14BK2E5602F	RES. METAL FILM 56K 1% 1/4W
R33	RD14BB2E103J	RES. CARBON 10K 5% 1/4W
R34	NO USE	
R35	RD14BB2E473J	RES. CARBON 47K 5% 1/4W
R36	RD14BB2E103J	RES. CARBON 10K 5% 1/4W
R37	RD14BB2E103J	RES. CARBON 10K 5% 1/4W
R38	RD14BB2E103J	RES. CARBON 10K 5% 1/4W
R39	RD14BB2E103J	RES. CARBON 10K 5% 1/4W
R40	RD14BB2E103J	RES. CARBON 10K 5% 1/4W
R41	RN14BK2E4701F	RES. METAL FILM 4.7K 1% 1/4W
R42	RD14BB2E102J	RES. CARBON 1K 5% 1/4W
R43	RN14BK2E4990F	RES. METAL FILM 499 1% 1/4W
R44	RN14BK2E1300F	RES. METAL FILM 130 1% 1/4W
R45	RN14BK2E1600F	RES. METAL FILM 160 1% 1/4W
R46	RN14BK2E36R0F	RES. METAL FILM 36.0 1% 1/4W
R47	RN14BK2E1600F	RES. METAL FILM 160 1% 1/4W
R48	RN14BK2E51R0F	RES. METAL FILM 51.0 1% 1/4W
R49	RN14BK2E1600F	RES. METAL FILM 160 1% 1/4W
R50	RN14BK2E36R0F	RES. METAL FILM 36.0 1% 1/4W
R51	RD14BB2E102J	RES. CARBON 1K 5% 1/4W
R52	RN14BK2E51R0F	RES. METAL FILM 51.0 1% 1/4W
R53	NO USE	
R54	RN14BK2E8201F	RES. METAL FILM 8.2K 1% 1/4W
R55	RN14BK2E7501F	RES. METAL FILM 7.5K 1% 1/4W
R56	RN14BK2E1501F	RES. METAL FILM 1.5K 1% 1/4W
R57	NO USE	
R58	RN14BK2E3901F	RES. METAL FILM 3.9K 1% 1/4W
R59	RN14BK2E9091F	RES. METAL FILM 9.09K 1% 1/4W
R60	NO USE	
R61	RN14BK2E4421F	RES. METAL FILM 4.42K 1% 1/4W
R62	RN14BK2E2001F	RES. METAL FILM 2K 1% 1/4W
R63	RN14BK2E8200F	RES. METAL FILM 820 1% 1/4W
R64	RN14BK2E8200F	RES. METAL FILM 820 1% 1/4W
R65	RN14BK2E8200F	RES. METAL FILM 820 1% 1/4W
R66	RN14BK2E8200F	RES. METAL FILM 820 1% 1/4W
R67	RN14BK2E8200F	RES. METAL FILM 820 1% 1/4W
R68	RN14BK2E4701F	RES. METAL FILM 4.7K 1% 1/4W
R69	RN14BK2E4701F	RES. METAL FILM 4.7K 1% 1/4W
R70	RN14BK2E4701F	RES. METAL FILM 4.7K 1% 1/4W
R71	RN14BK2E2201F	RES. METAL FILM 2.2K 1% 1/4W
R72	RN14BK2E8200F	RES. METAL FILM 820 1% 1/4W
R73	RN14BK2E4701F	RES. METAL FILM 4.7K 1% 1/4W
R90	RN14BK2E3651F	RES. METAL FILM 3.65K 1% 1/4W
R91	RN14BK2E7500F	RES. METAL FILM 750 1% 1/4W
R92	RN14BK2E4871F	RES. METAL FILM 4.87K 1% 1/4W
R93	RN14BK2E1800F	RES. METAL FILM 180 1% 1/4W
R94	RN14BK2E2672F	RES. METAL FILM 26.7K 1% 1/4W
R95	RN14BK2E1501F	RES. METAL FILM 1.5K 1% 1/4W
R96	RN14BK2E1962F	RES. METAL FILM 19.6K 1% 1/4W
R97	RN14BK2E1801F	RES. METAL FILM 1.8K 1% 1/4W
R98	RN14BK2E6801F	RES. METAL FILM 6.8K 1% 1/4W
R99	RN14BK2E9100F	RES. METAL FILM 910 1% 1/4W
R100	RN14BK2E8251F	RES. METAL FILM 8.25K 1% 1/4W
R101	RN14BK2E2801F	RES. METAL FILM 2.8K 1% 1/4W

PARTS LIST

REF. NO	PARTS NO	NAME & DESCRIPTION	REF. NO	PARTS NO	NAME & DESCRIPTION
R102	RN14BK2E1962F	RES. METAL FILM 19.6K 1% 1/4W	R193	RD14BB2E151J	RES. CARBON 150 5% 1/4W
R103	RN14BK2E3901F	RES. METAL FILM 3.9K 1% 1/4W	R194	RD14BB2E151J	RES. CARBON 150 5% 1/4W
R104	RN14BK2E2672F	RES. METAL FILM 26.7K 1% 1/4W	R195	RD14BB2E151J	RES. CARBON 150 5% 1/4W
R105	RN14BK2E1431F	RES. METAL FILM 1.43K 1% 1/4W	R196	RD14BB2E103J	RES. CARBON 10K 5% 1/4W
R106	RN14BK2E1212F	RES. METAL FILM 12.1K 1% 1/4W	R197	RD14BB2E472J	RES. CARBON 4.7K 5% 1/4W
R107	RN14BK2E3651F	RES. METAL FILM 3.65K 1% 1/4W	R198	RD14BB2E101J	RES. CARBON 100 5% 1/4W
R112	RN14BK2E1372F	RES. METAL FILM 13.7K 1% 1/4W	R199	RD14BB2E152J	RES. CARBON 1.5K 5% 1/4W
R113	RN14BK2E4871F	RES. METAL FILM 4.87K 1% 1/4W	R200	RD14BB2E101J	RES. CARBON 100 5% 1/4W
R114	RN14BK2E4872F	RES. METAL FILM 48.7K 1% 1/4W	R201	RD14BB2E151J	RES. CARBON 150 5% 1/4W
R115	RN14BK2E4020F	RES. METAL FILM 402 1% 1/4W	R202	RD14BB2E103J	RES. CARBON 10K 5% 1/4W
R116	RN14BK2E4871F	RES. METAL FILM 4.87K 1% 1/4W	R203	RD14BB2E472J	RES. CARBON 4.7K 5% 1/4W
R117	RN14BK2E5600F	RES. METAL FILM 560 1% 1/4W	R204	RD14BB2E101J	RES. CARBON 100 5% 1/4W
R118	RN14BK2E1102F	RES. METAL FILM 11K 1% 1/4W	R205	RD14BB2E152J	RES. CARBON 1.5K 5% 1/4W
R119	RN14BK2E2701F	RES. METAL FILM 2.7K 1% 1/4W	R206	RD14BB2E151J	RES. CARBON 150 5% 1/4W
R120	NO USE		R207	RD14BB2E103J	RES. CARBON 10K 5% 1/4W
R121	RN14BK2E3601F	RES. METAL FILM 3.6K 1% 1/4W	R208	RD14BB2E472J	RES. CARBON 4.7K 5% 1/4W
R122	RN14BK2E1132F	RES. METAL FILM 11.3K 1% 1/4W	R209	RD14BB2E101J	RES. CARBON 100 5% 1/4W
R123	RN14BK2E4021F	RES. METAL FILM 4.02K 1% 1/4W	R210	RD14BB2E152J	RES. CARBON 1.5K 5% 1/4W
R124	RN14BK2E2001F	RES. METAL FILM 2K 1% 1/4W	R211	RD14BB2E101J	RES. CARBON 100 5% 1/4W
R125	RN14BK2E4700F	RES. METAL FILM 470 1% 1/4W	R212	RD14BB2E151J	RES. CARBON 150 5% 1/4W
R126	RD14BB2E472J	RES. CARBON 4.7K 5% 1/4W	R213	RD14BB2E151J	RES. CARBON 150 5% 1/4W
R127	RD14BB2E472J	RES. CARBON 4.7K 5% 1/4W	R214	RD14BB2E103J	RES. CARBON 10K 5% 1/4W
R128	RN14BK2E2201F	RES. METAL FILM 2.2K 1% 1/4W	R215	RD14BB2E472J	RES. CARBON 4.7K 5% 1/4W
R129	RN14BK2E2201F	RES. METAL FILM 2.2K 1% 1/4W	R216	RD14BB2E101J	RES. CARBON 100 5% 1/4W
R130	RN14BK2E4702F	RES. METAL FILM 47K 1% 1/4W	R217	RD14BB2E152J	RES. CARBON 1.5K 5% 1/4W
R131	RN14BK2E2201F	RES. METAL FILM 2.2K 1% 1/4W	R218	RD14BB2E151J	RES. CARBON 150 5% 1/4W
R132	RN14BK2E2201F	RES. METAL FILM 2.2K 1% 1/4W	R219	RD14BB2E151J	RES. CARBON 150 5% 1/4W
R133	RN14BK2E4702F	RES. METAL FILM 47K 1% 1/4W	R220	RD14BB2E223J	RES. CARBON 22K 5% 1/4W
R134	RD14BB2E102J	RES. CARBON 1K 5% 1/4W	R221	RD14BB2E473J	RES. CARBON 47K 5% 1/4W
R135	RD14BB2E102J	RES. CARBON 1K 5% 1/4W	R222	RD14BB2E102J	RES. CARBON 1K 5% 1/4W
R136	RD14BB2E222J	RES. CARBON 2.2K 5% 1/4W	R223	RD14BB2E103J	RES. CARBON 10K 5% 1/4W
R137	RD14BB2E222J	RES. CARBON 2.2K 5% 1/4W	R224	RD14BB2E103J	RES. CARBON 10K 5% 1/4W
R138	RD14BB2E102J	RES. CARBON 1K 5% 1/4W	R225	RD14BB2E103J	RES. CARBON 10K 5% 1/4W
R139	RN14BK2E2701F	RES. METAL FILM 2.7K 1% 1/4W	R226	RD14BB2E103J	RES. CARBON 10K 5% 1/4W
R140	RN14BK2E1501F	RES. METAL FILM 1.5K 1% 1/4W	R249	RN14BK2E9762F	RES. METAL FILM 97.6K 1% 1/4W
R141	RN14BK2E2201F	RES. METAL FILM 2.2K 1% 1/4W	R250	RD14BB2E152J	RES. CARBON 1.5K 5% 1/4W
R142	RN14BK2E1501F	RES. METAL FILM 1.5K 1% 1/4W	R251	RD14BB2E510J	RES. CARBON 51 5% 1/4W
R143	RN14BK2E2201F	RES. METAL FILM 2.2K 1% 1/4W	R300	RD14BB2E153J	RES. CARBON 15K 5% 1/4W
R144	RD14BB2E102J	RES. CARBON 1K 5% 1/4W	RM1	R90-1116-08	RES. NETWORK 8X10K
R145	RD14BB2E102J	RES. CARBON 1K 5% 1/4W	RM2	R90-1116-08	RES. NETWORK 8X10K
R146	RD14BB2E121J	RES. CARBON 120 5% 1/4W	T2	L37-0052-05	MATCHING COIL
R147	RD14BB2E332J	RES. CARBON 3.3K 5% 1/4W	U1	MC7812CT	IC, POSITIVE VOLTAGE REGULATORS
R148	RD14BB2E152J	RES. CARBON 1.5K 5% 1/4W	U2	MC7912CT	IC, NEGATIVE VOLTAGE REGULATORS
R149	RD14BB2E101J	RES. CARBON 100 5% 1/4W	U3	TA78L005P	IC, 3-TERMINAL REGULATOR
R150	RD14BB2E681J	RES. CARBON 680 5% 1/4W	U4	CXD1217M	IC, SYNC. SIGNAL GENERATOR
R151	RD14BB2E622J	RES. CARBON 6.2K 5% 1/4W	U5	TC74HC161AN	IC, SYNC. 4-BIT BINARY COUNTER
R152	RD14BB2E682J	RES. CARBON 6.8K 5% 1/4W	U6	TC74HC04AN	IC, HEX INVERTER
R153	RD14BB2E102J	RES. CARBON 1K 5% 1/4W	U7	TC74HC00AN	IC, QUAD 2-INPUT NAND GATE
R157	RD14BB2E102J	RES. CARBON 1K 5% 1/4W	U8	TC74HC74AN	IC, DUAL D-F.F. WITH PR&CLR
R158	RD14BB2E563J	RES. CARBON 56K 5% 1/4W	U9	TC74HC161AN	IC, SYNC. 4-BIT BINARY COUNTER
R159	RD14BB2E152J	RES. CARBON 1.5K 5% 1/4W	U10	TC74HC393AN	IC, DUAL BINARY COUNTER
R160	RD14BB2E101J	RES. CARBON 100 5% 1/4W	U11	TC74HC393AN	IC, DUAL BINARY COUNTER
R161	RN14BK2E1331F	RES. METAL FILM 1.33K 1% 1/4W	U12	T93-0763-08	IC, PROGRAMMED ROM
R162	RN14BK2E6800F	RES. METAL FILM 680 1% 1/4W	U13	NO USE	
R163	RD14BB2E622J	RES. CARBON 6.2K 5% 1/4W	U14	T93-0764-08	IC, PROGRAMMED ROM
R164	RN14BK2E6801F	RES. METAL FILM 6.8K 1% 1/4W	U15	HD74HC93P	IC, 4-BIT BINARY COUNTER
R165	RD14BB2E102J	RES. CARBON 1K 5% 1/4W	U16	T93-0766-08	IC, PROGRAMMED ROM
R166	NO USE		U17	NO USE	
R167	RD14BB2E221J	RES. CARBON 220 5% 1/4W	U18	TC74HC04AN	IC, HEX INVERTER
R171	RN14BK2E2400F	RES. METAL FILM 240 1% 1/4W	U19	TC74HC123AN	IC, DUAL MONO. MULTIVIB.
R172	RN14BK2E6800F	RES. METAL FILM 680 1% 1/4W	U20	TC74HC74AN	IC, DUAL D-F.F. WITH PR&CLR
R173	RD14BB2E102J	RES. CARBON 1K 5% 1/4W	U21	T93-0765-08	IC, PROGRAMMED ROM
R174	RD14BB2E563J	RES. CARBON 56K 5% 1/4W	U22	TC74HC32AN	IC, QUAD 2-INPUT OR GATE
R175	RD14BB2E104J	RES. CARBON 100K 5% 1/4W	U23	TC74HC32AN	IC, QUAD 2-INPUT OR GATE
R176	RD14BB2E102J	RES. CARBON 1K 5% 1/4W	U24	SN74LS06N	IC, HEX INVERTERS
R177	RD14BB2E121J	RES. CARBON 120 5% 1/4W	U25	SN74LS06N	IC, HEX INVERTERS
R178	RD14BB2E102J	RES. CARBON 1K 5% 1/4W	U26	MC1496P	IC, BALANCED MODEM
R179	RD14BB2E223J	RES. CARBON 22K 5% 1/4W	U27	MC1496P	IC, BALANCED MODEM
R180	RD14BB2E103J	RES. CARBON 10K 5% 1/4W	U30	SN74LS138N	IC, 3-8 DECOD. /DE-MPX
R181	RD14BB2E472J	RES. CARBON 4.7K 5% 1/4W	U31	SN74LS06N	IC, HEX INVERTERS
R182	RN14BK2E2700F	RES. METAL FILM 270 1% 1/4W	U32	SN74LS08N	IC, QUAD 2-INPUT AND GATE
R183	RN14BK2E8200F	RES. METAL FILM 820 1% 1/4W	U33	SN74LS138N	IC, 3-8 DECOD. /DE-MPX
R184	RD14BB2E103J	RES. CARBON 10K 5% 1/4W	VR7	R29-3512-08	RES. SEMI FIXED 10K
R185	RD14BB2E472J	RES. CARBON 4.7K 5% 1/4W	VR8	R29-5503-08	RES. SEMI FIXED 220K
R186	RD14BB2E101J	RES. CARBON 100 5% 1/4W	VR9	R29-5503-08	RES. SEMI FIXED 220K
R187	RD14BB2E101J	RES. CARBON 100 5% 1/4W	VR10	R29-1512-08	RES. SEMI FIXED 4.7K
R188	RD14BB2E103J	RES. CARBON 10K 5% 1/4W	VR11	R29-1512-08	RES. SEMI FIXED 4.7K
R189	RD14BB2E472J	RES. CARBON 4.7K 5% 1/4W	VR12	R29-1513-08	RES. SEMI FIXED 1K
R190	RD14BB2E101J	RES. CARBON 100 5% 1/4W			
R191	RD14BB2E152J	RES. CARBON 1.5K 5% 1/4W			
R192	RD14BB2E151J	RES. CARBON 150 5% 1/4W			

PARTS LIST

REF.NO	PARTS NO	NAME & DESCRIPTION
VR13	R29-1514-08	RES. SEMI FIXED 3K
VR14	R29-1512-08	RES. SEMI FIXED 4.7K
VR15	R29-5504-08	RES. SEMI FIXED 100K
VR16	R29-5504-08	RES. SEMI FIXED 100K
X1	L77-1061-05	CRYSTAL RESONATOR(17.73447MHZ)

CG-931/932 PANEL UNIT W02-2102-08

REF.NO	PARTS NO	NAME & DESCRIPTION
	S68-0603-08	SWITCH;S2 TO S11
	S68-0604-08	SWITCH;S12 TO S15
CN2	E40-1515-05	PIN CONNECTOR 15P
CN3	E40-1515-05	PIN CONNECTOR 15P
D1	1S1588	DIODE
D2	1S1588	DIODE
L1	B30-0998-08	LED,RED
L2	B30-0998-08	LED,RED
L3	B30-0998-08	LED,RED
L4	B30-0998-08	LED,RED
L5	B30-0998-08	LED,RED
L6	B30-0998-08	LED,RED
L7	B30-0998-08	LED,RED
L8	B30-0999-08	LED,RED
L9	B30-0999-08	LED,RED
L10	B30-0999-08	LED,RED
R1	RD14BB2E391J	RES. CARBON 390 5% 1/4W
R2	RD14BB2E391J	RES. CARBON 390 5% 1/4W
R3	RD14BB2E391J	RES. CARBON 390 5% 1/4W
R4	RD14BB2E391J	RES. CARBON 390 5% 1/4W
R5	RD14BB2E391J	RES. CARBON 390 5% 1/4W
R6	RD14BB2E391J	RES. CARBON 390 5% 1/4W
R7	RD14BB2E391J	RES. CARBON 390 5% 1/4W
R8	RD14BB2E391J	RES. CARBON 390 5% 1/4W
R9	RD14BB2E391J	RES. CARBON 390 5% 1/4W
R10	RD14BB2E391J	RES. CARBON 390 5% 1/4W
S16	S68-0605-08	SWITCH
S17	S68-0605-08	SWITCH
S18	S68-0605-08	SWITCH
S19	S68-0605-08	SWITCH
U40	SN74LS154N	IC,4 TO 16 LINE DECODER/DE-MPX
U41	SN74LS21N	IC,DUAL 4-INPUT NAND GATE
U42	SN74LS21N	IC,DUAL 4-INPUT NAND GATE
U43	SN74LS21N	IC,DUAL 4-INPUT NAND GATE

RT-62

Y87-1740-00

REF.NO	PARTS NO	NAME & DESCRIPTION
	A01-0858-03	CASE,BOTTOM
	A01-0888-03	CASE,FRONT
	A09-0507-13	COVER;REMOVABLE
	B40-2737-24	SERIAL NO. PLATE
	B42-1865-04	LABEL
	B42-1866-04	CAUTION LABEL;JAPANESE
	B42-1867-04	CAUTION LABEL;ENGLISH
	B42-1933-04	LABEL,MODEL NO.,FOR CARTON BOX
	B50-2957-10	INSTRUCTION MANUAL;JAPANESE
	B50-2958-10	INSTRUCTION MANUAL;ENGLISH
	E30-1848-05	CABLE WITH CONNECTOR
	E31-2227-05	WIRE ASS'Y;9P
	E31-2228-05	WIRE ASS'Y;8P
	E31-2230-05	WIRE ASS'Y;1P
	E31-2234-05	WIRE ASS'Y;2P
	F15-0719-04	BLIND PLATE
	F19-0706-05	HOLL CAP
	H01-2952-12	CARTON BOX
	H25-0078-04	VINYL BAG
	J02-0506-05	RUBBER FOOT
	J21-2913-04	BRACKET;FOR AC CORD BUSHING
	J31-0502-04	COLLAR;FOR P.C.B
	J32-0122-04	BOSS
	J42-0085-05	BUSHING;FOR 3-CORE AC CORD
	J42-0404-05	BUSHING;FOR P.C.B
	J59-0001-05	GROMMET
	J59-0002-05	PLUNCER
	K29-0803-04	KNOB
	N10-2030-41	NUT,HEX M3
	N30-3006-41	SCREW, PAN HD M3X6
	N34-3006-41	SCREW, TRUSS HD M3X6
	N89-3006-41	SCREW, BINDING TAPTITE 3X6
	X77-1200-00	CONTROL UNIT

RT-62 CONTROL UNIT

X77-1200-00

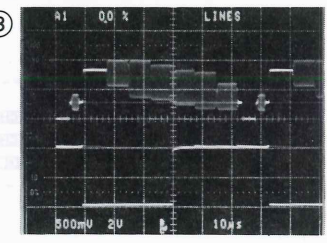
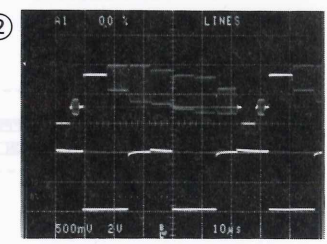
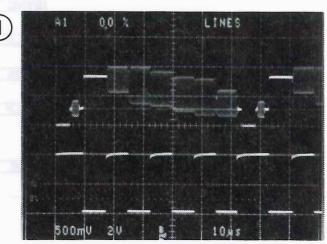
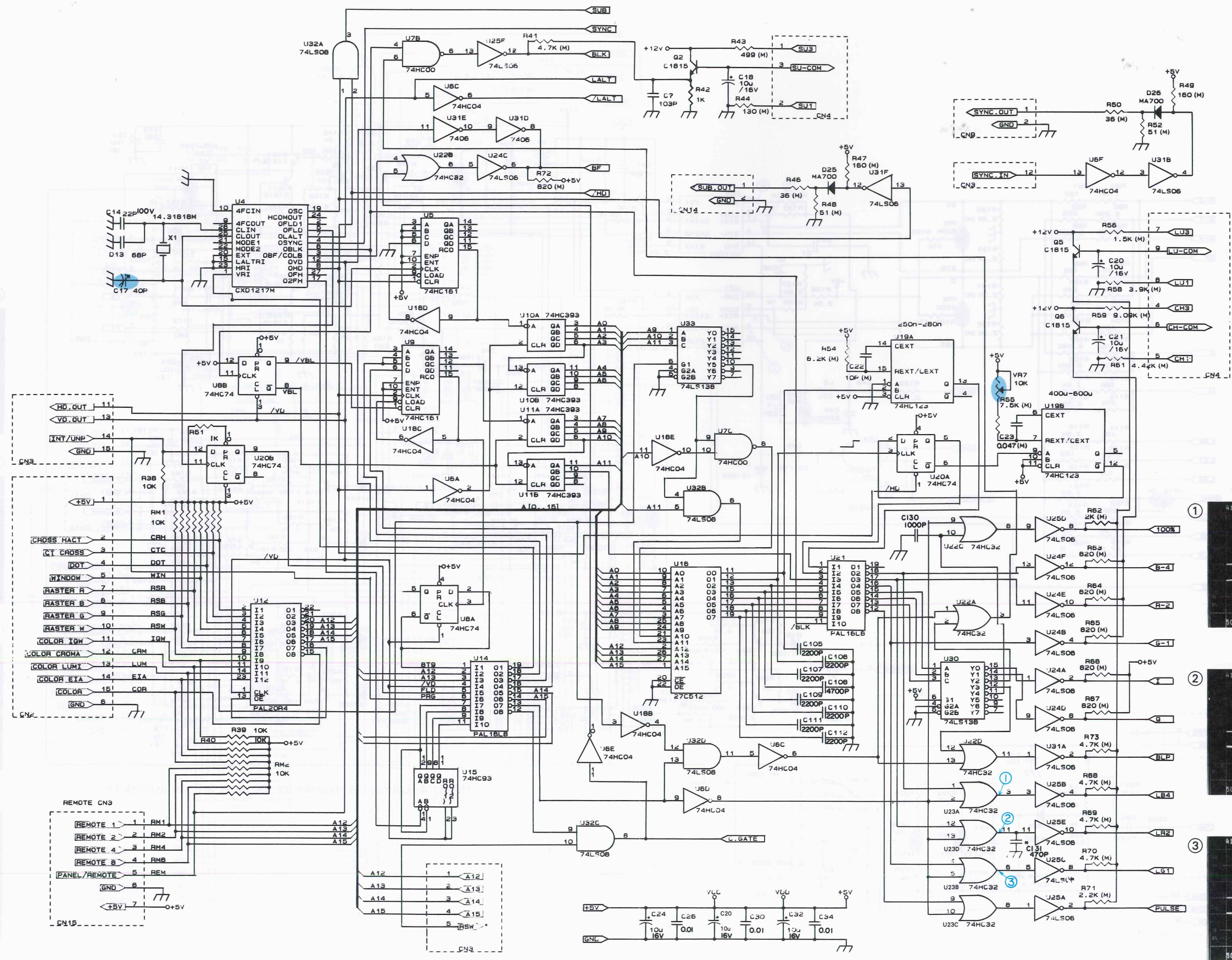
REF.NO	PARTS NO	NAME & DESCRIPTION
	J25-2955-12	PCB (UNMOUNTED)
	R92-0150-05	JUMPING RES. ZERO OHM(10MM)
D1	1N60	DIODE
D2	1N60	DIODE
D3	1N60	DIODE
D4	1N60	DIODE
D5	1N60	DIODE
D6	1N60	DIODE
D7	1N60	DIODE
D8	1N60	DIODE
D9	1N60	DIODE
D10	1N60	DIODE
D11	1N60	DIODE
D12	1N60	DIODE
D13	1N60	DIODE
D14	1N60	DIODE
D15	1N60	DIODE
D16	1N60	DIODE
D17	1N60	DIODE
D18	1N60	DIODE
D19	1N60	DIODE
D20	1N60	DIODE
D21	1N60	DIODE
D22	1N60	DIODE
D23	1N60	DIODE
D24	1N60	DIODE
D25	1N60	DIODE
D26	1N60	DIODE
D27	1N60	DIODE
D28	1N60	DIODE
D29	1N60	DIODE
D30	1N60	DIODE
D31	1N60	DIODE
D32	1N60	DIODE
D33	1N60	DIODE
D34	1N60	DIODE
D35	1N60	DIODE
D36	1N60	DIODE
D37	1N60	DIODE

PARTS LIST

REF. NO	PARTS NO	NAME & DESCRIPTION
D38	1N60	DIODE
D39	1N60	DIODE
D40	1N60	DIODE
D41	B30-0934-05	LAMP
D42	B30-0934-05	LAMP
D43	B30-0934-05	LAMP
D44	B30-0934-05	LAMP
D45	B30-0934-05	LAMP
D46	B30-0934-05	LAMP
D47	B30-0934-05	LAMP
D48	B30-0934-05	LAMP
D49	B30-0934-05	LAMP
D50	1N60	DIODE
D51	1N60	DIODE
D52	1N60	DIODE
D53	1N60	DIODE
D54	1N60	DIODE
D55	1N60	DIODE
D56	1N60	DIODE
D57	1N60	DIODE
D58	1N60	DIODE
D59	1N60	DIODE
D60	1N60	DIODE
D61	1N60	DIODE
D62	1N60	DIODE
D63	1N60	DIODE
D64	1N60	DIODE
D65	1N60	DIODE
D66	1N60	DIODE
D67	1N60	DIODE
D68	1N60	DIODE
D69	1N60	DIODE
D70	1N60	DIODE
D71	1N60	DIODE
D72	1N60	DIODE
D73	1N60	DIODE
D74	1N60	DIODE
D75	1N60	DIODE
D76	1N60	DIODE
D77	1N60	DIODE
D78	1N60	DIODE
D79	1N60	DIODE
D80	1N60	DIODE
D81	1N60	DIODE
D82	1N60	DIODE
D83	1N60	DIODE
P1	E40-0973-05	PIN CONNECTOR 9P
P2	E40-0973-05	PIN CONNECTOR 9P
P3	NO USE	
P4	E40-0311-05	PIN CONNECTOR 3P
P5	E40-0311-05	PIN CONNECTOR 3P
P6	E40-0864-05	PIN CONNECTOR 8P
P7	E40-0864-05	PIN CONNECTOR 8P
P10	E40-0973-05	PIN CONNECTOR 9P
P11	E40-0974-05	PIN CONNECTOR 9P
P12	E40-0873-05	PIN CONNECTOR 8P
P13	E40-0874-05	PIN CONNECTOR 8P
P101	E40-0811-05	PIN CONNECTOR 8P
P102	E40-0811-05	PIN CONNECTOR 8P
P103	E40-0811-05	PIN CONNECTOR 8P
P104	E40-0811-05	PIN CONNECTOR 8P
P105	E40-0811-05	PIN CONNECTOR 8P
P106	E40-0811-05	PIN CONNECTOR 8P
P107	E40-0811-05	PIN CONNECTOR 8P
P108	E40-0811-05	PIN CONNECTOR 8P
P109	E40-0811-05	PIN CONNECTOR 8P
P110	E40-0811-05	PIN CONNECTOR 8P
P111	E40-0811-05	PIN CONNECTOR 8P
P112	E40-0811-05	PIN CONNECTOR 8P
P113	E40-0811-05	PIN CONNECTOR 8P
P114	E40-0811-05	PIN CONNECTOR 8P
P115	E40-0811-05	PIN CONNECTOR 8P
P116	E40-0811-05	PIN CONNECTOR 8P
P201	E40-0811-05	PIN CONNECTOR 8P
P202	E40-0811-05	PIN CONNECTOR 8P
P203	E40-0811-05	PIN CONNECTOR 8P
P204	E40-0811-05	PIN CONNECTOR 8P
P205	E40-0811-05	PIN CONNECTOR 8P
P206	E40-0811-05	PIN CONNECTOR 8P
P207	E40-0811-05	PIN CONNECTOR 8P
P208	E40-0811-05	PIN CONNECTOR 8P

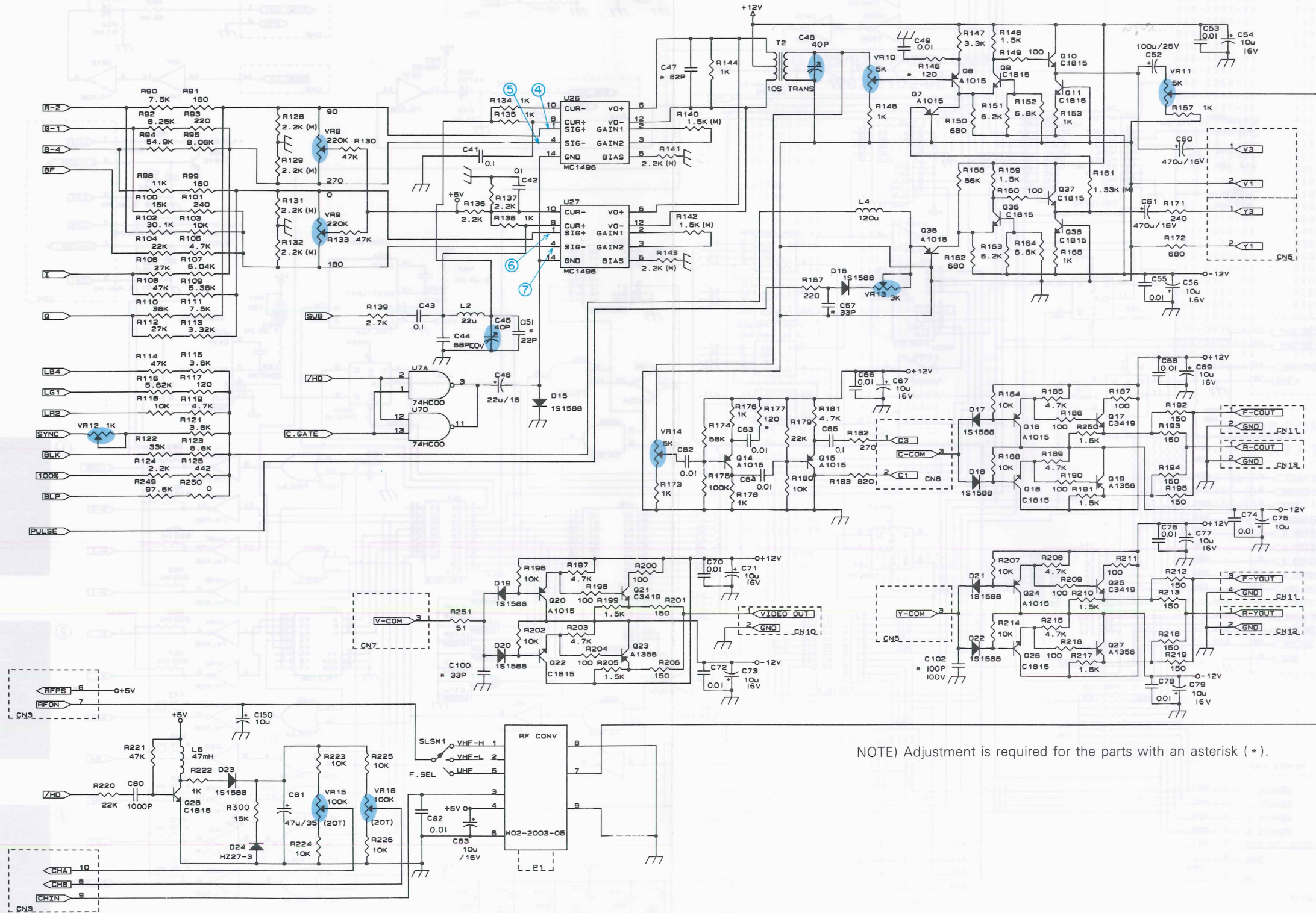
REF. NO	PARTS NO	NAME & DESCRIPTION
P209	E40-0811-05	PIN CONNECTOR 8P
P210	E40-0811-05	PIN CONNECTOR 8P
P211	E40-0811-05	PIN CONNECTOR 8P
P212	E40-0811-05	PIN CONNECTOR 8P
P213	E40-0811-05	PIN CONNECTOR 8P
P214	E40-0811-05	PIN CONNECTOR 8P
P215	E40-0811-05	PIN CONNECTOR 8P
P216	E40-0811-05	PIN CONNECTOR 8P
R1	RD14BB2E681J	RES. CARBON 680 5% 1/4W
S1	S42-8501-05	PUSH SWITCH
S2	S33-4502-05	LEVER SWITCH

CG-931 SCHEMATIC DIAGRAM

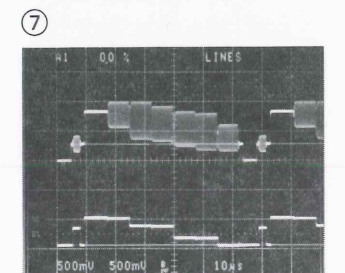
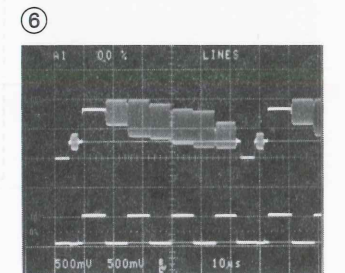
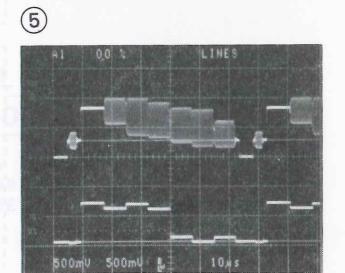
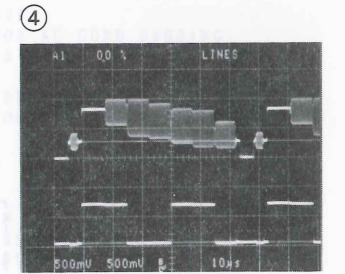


CG-931 SCHEMATIC DIAGRAM

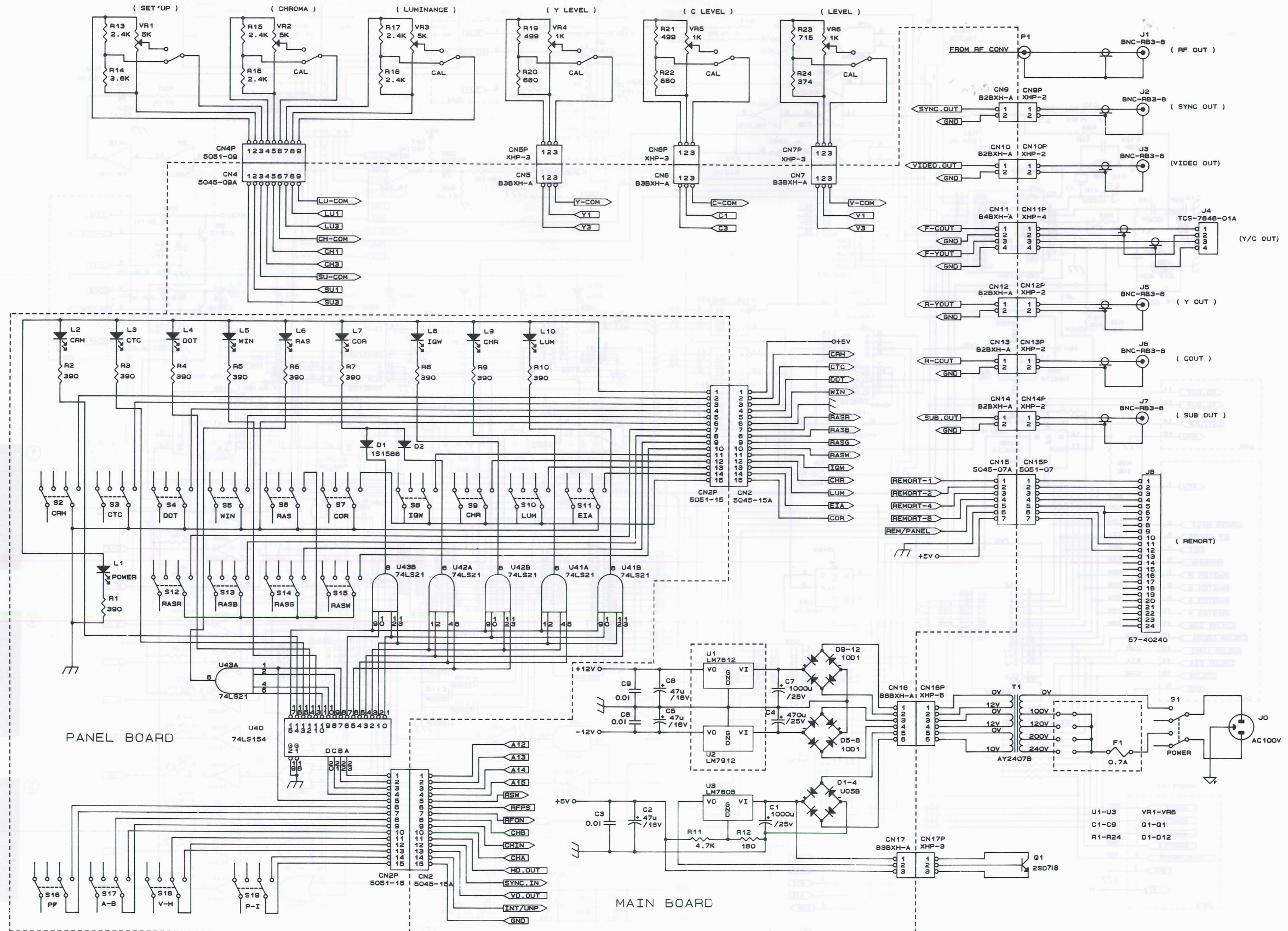
PARTS LIST



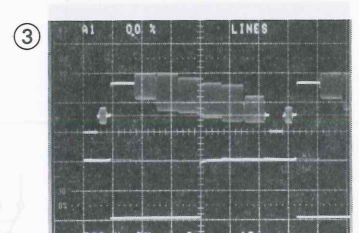
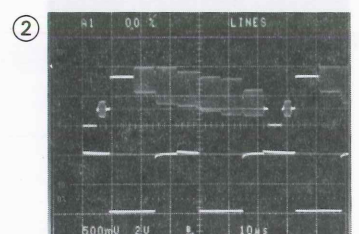
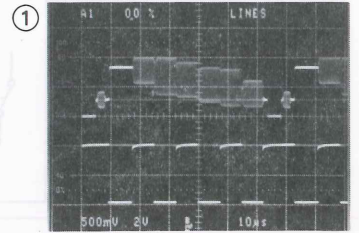
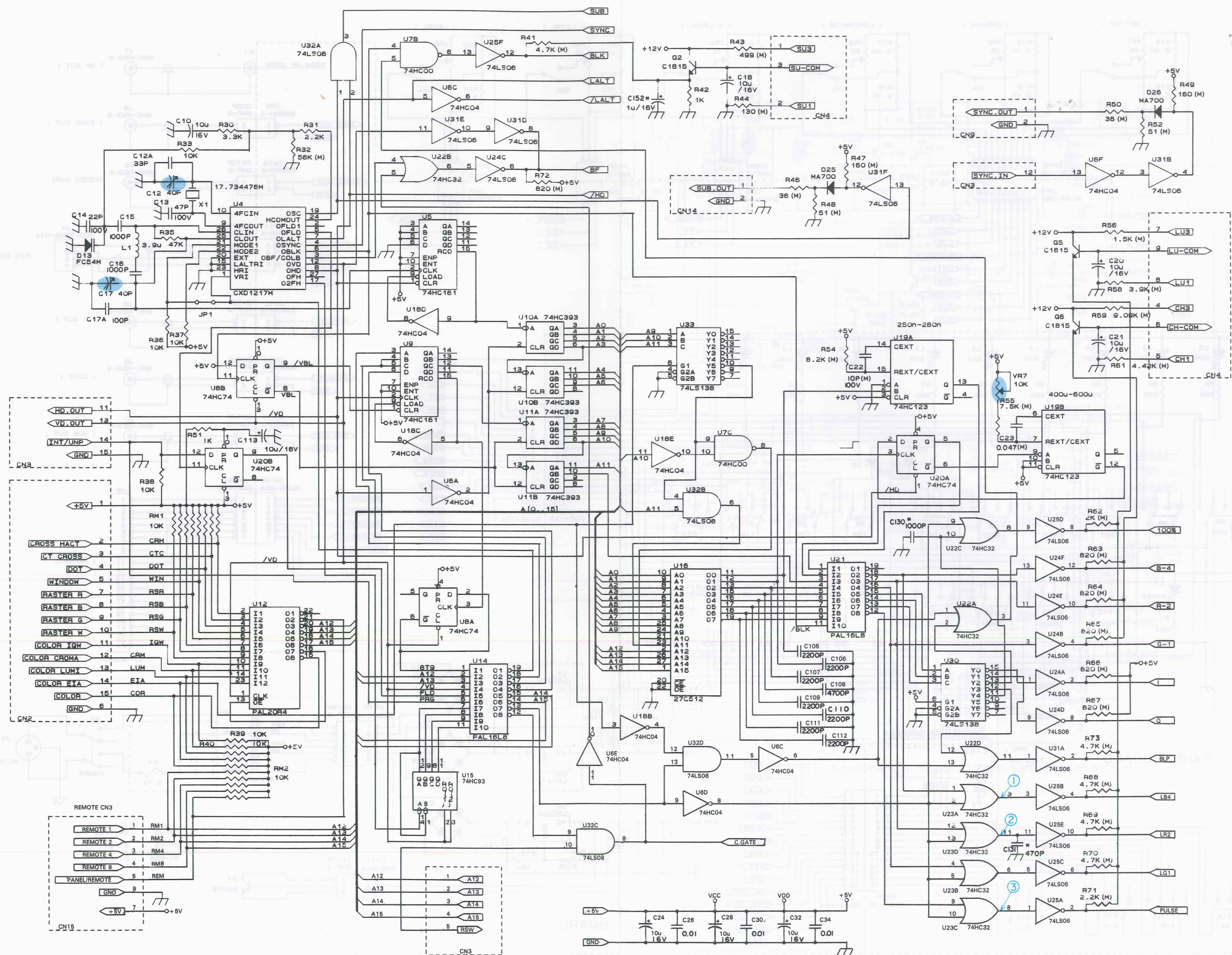
NOTE) Adjustment is required for the parts with an asterisk (*).



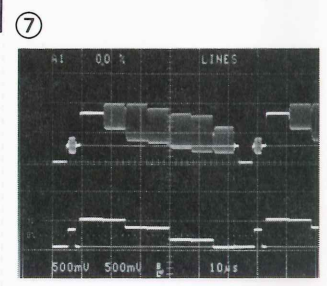
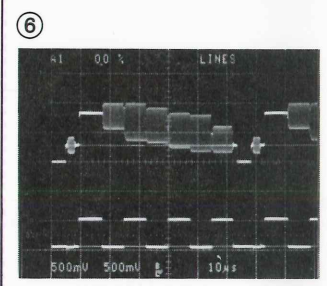
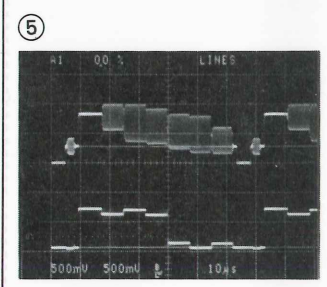
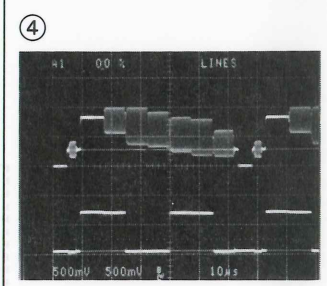
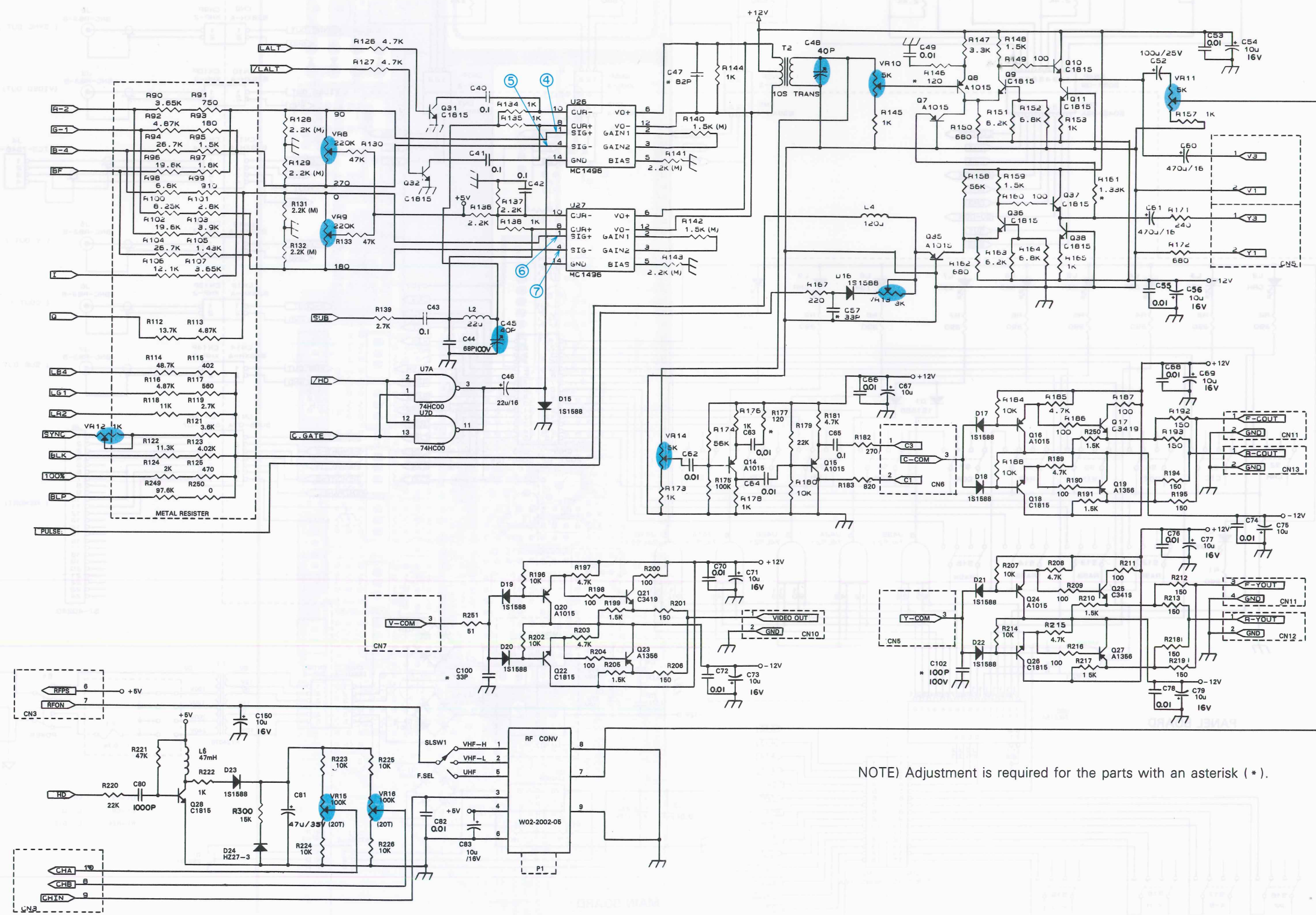
CG-931 SCHEMATIC DIAGRAM



CG-932 SCHEMATIC DIAGRAM

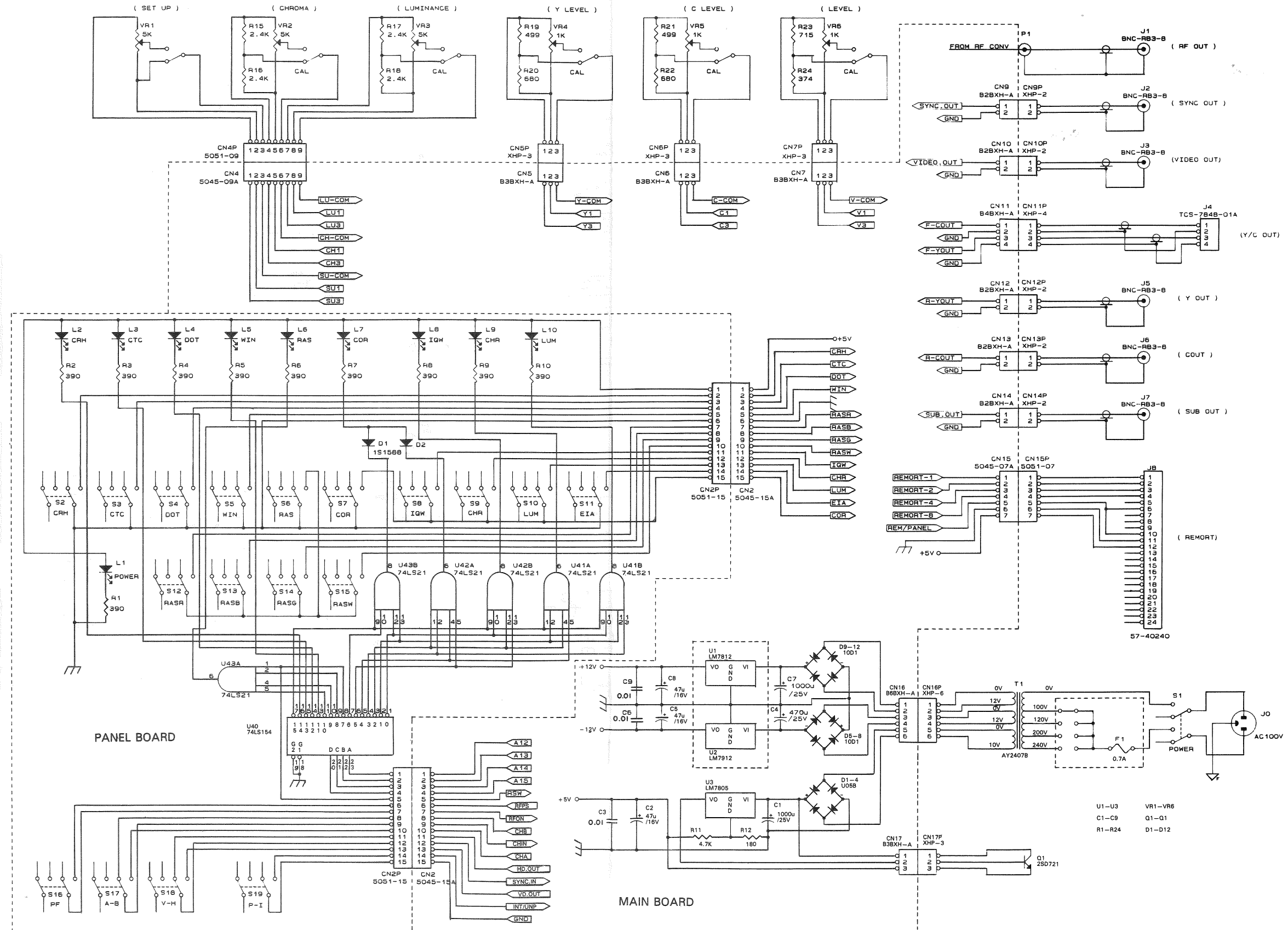


CG-932 SCHEMATIC DIAGRAM

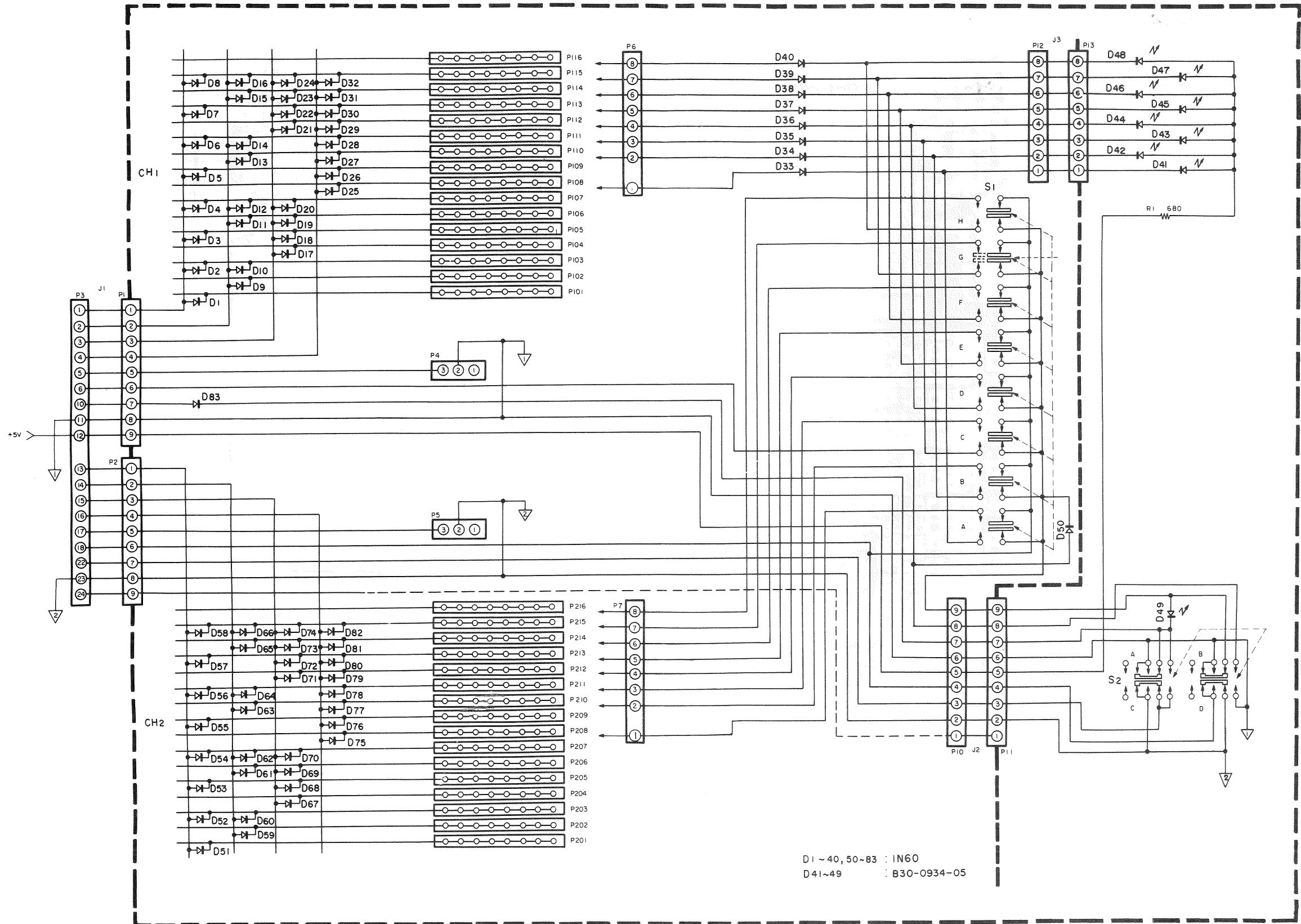


NOTE) Adjustment is required for the parts with an asterisk (*).

CG-932 SCHEMATIC DIAGRAM



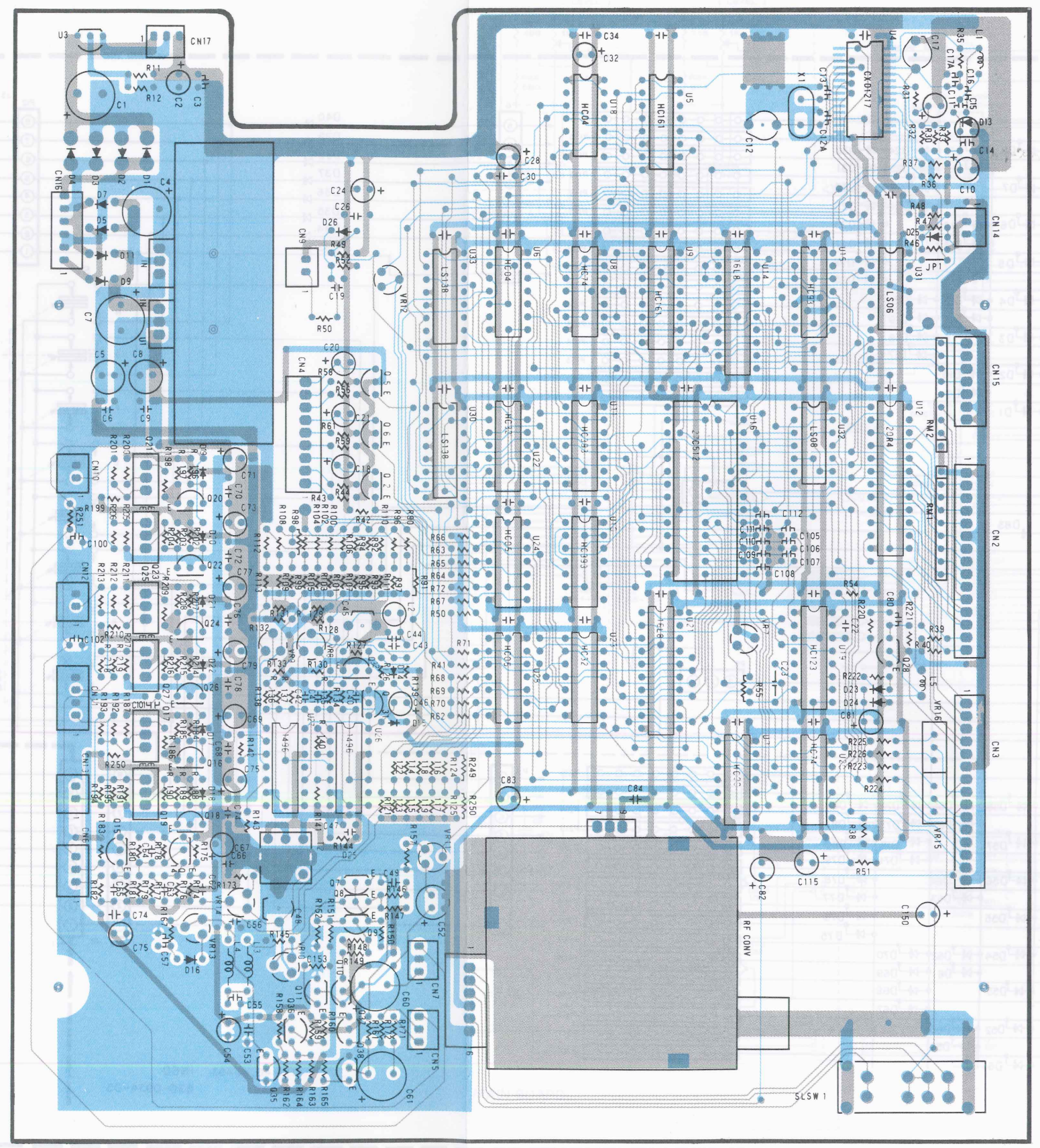
RT-62 SCHEMATIC DIAGRAM



D1 ~ 40, 50 ~ 83 : 1N60
 D41 ~ 49 : B30-0934-05

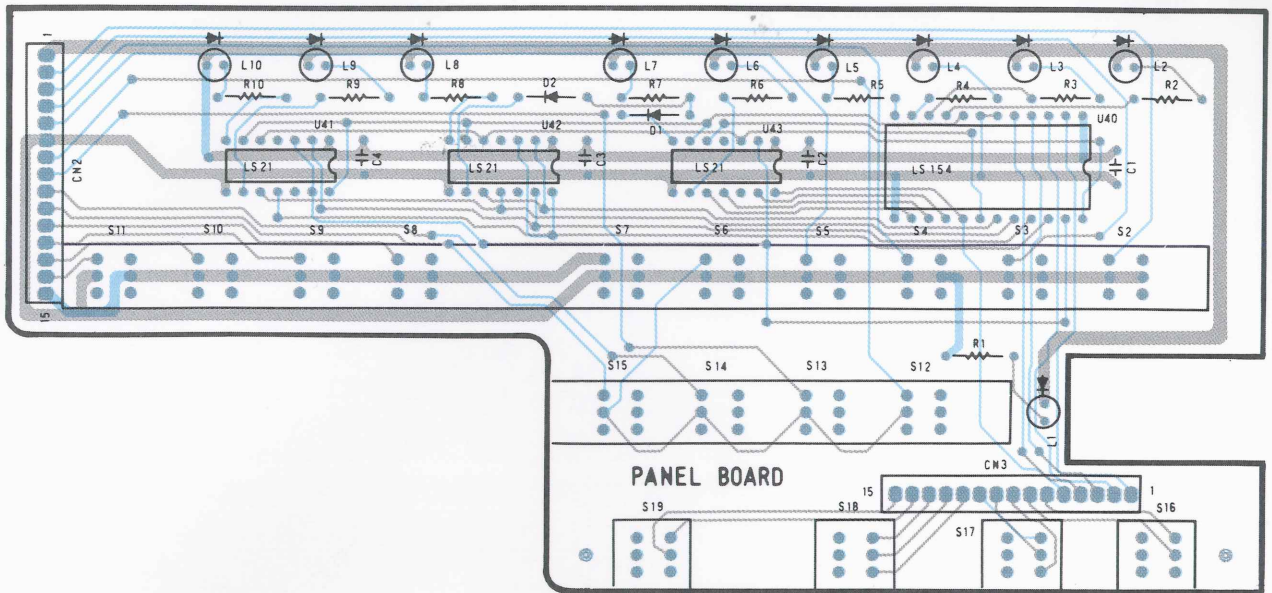
P.C. BOARD

PANEL UNIT

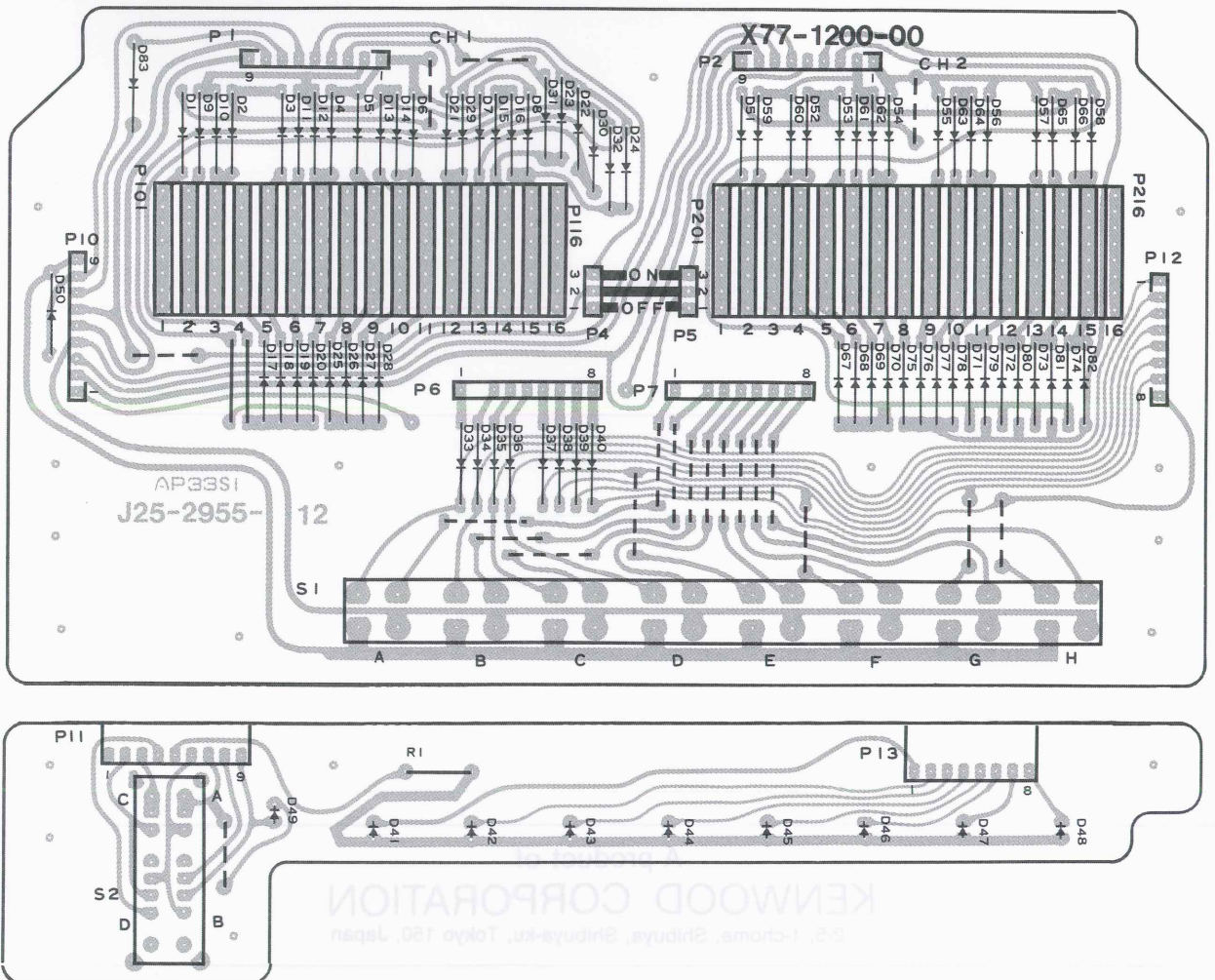


PANEL UNIT

Pattern side view



RT-62 CONTROL UNIT



A product of
KENWOOD CORPORATION
2-5, 1-chome, Shibuya, Shibuya-ku, Tokyo 150, Japan

B51-1107-00 (MC)