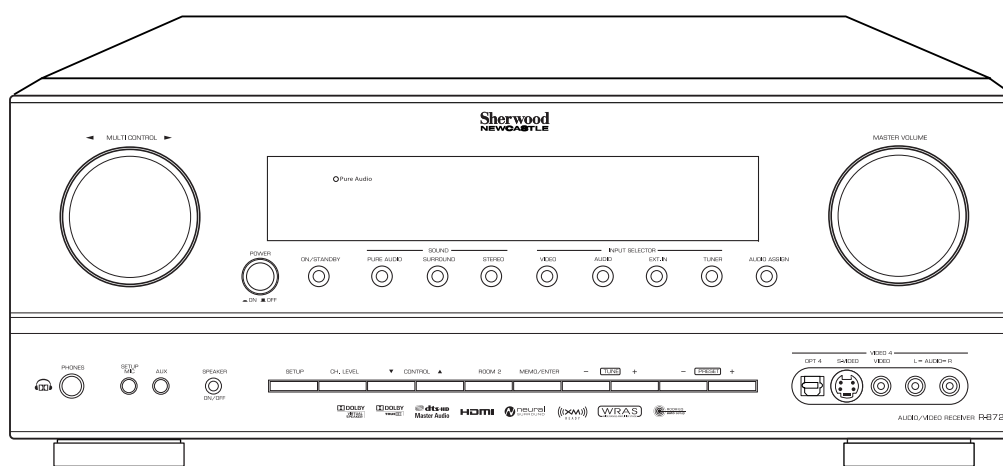


SERVICE MANUAL

R-872

AUDIO/VIDEO RECEIVER



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SAFETY PRECAUTIONS

WARNING

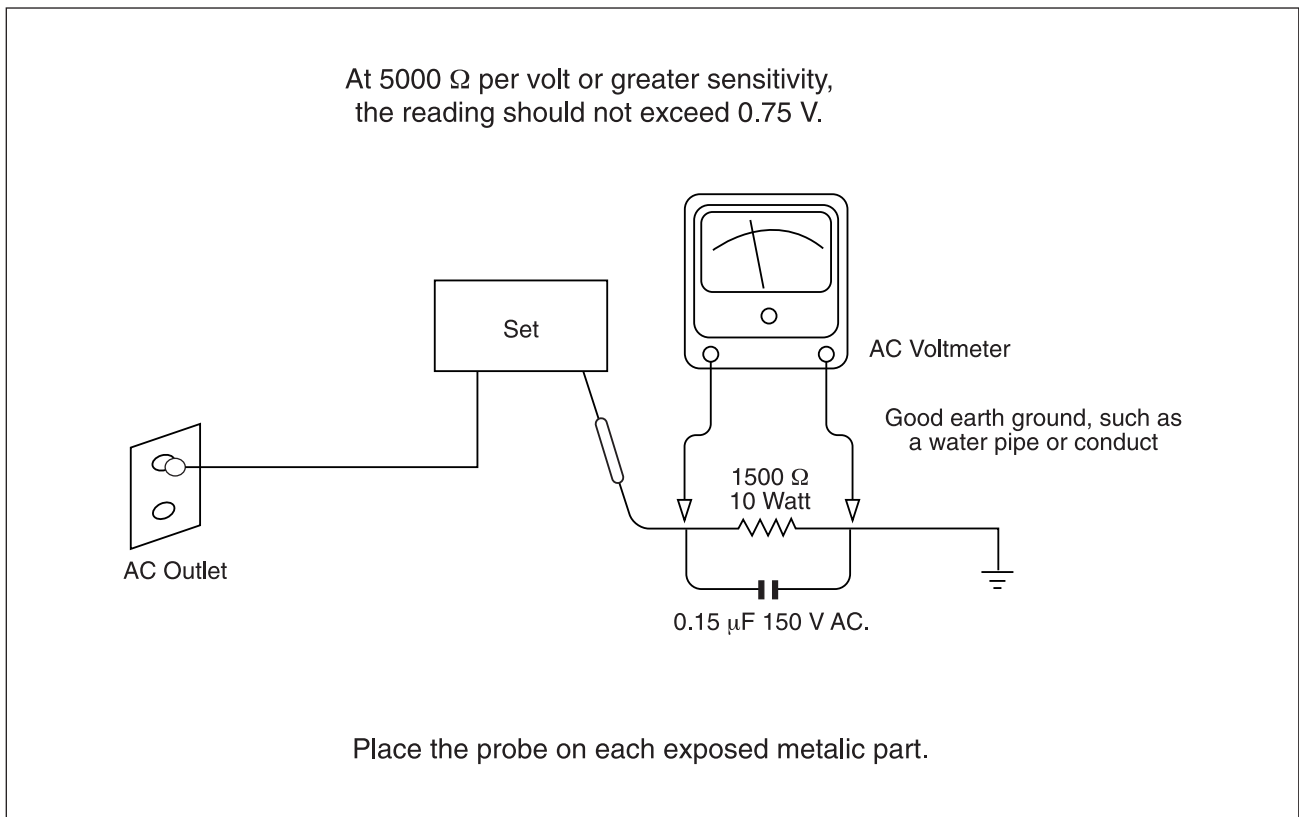
Before servicing this unit, familiarize yourself with the following precautions:

1. Many electrical and mechanical parts in this chassis have special safety characteristics that often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements: electrical components having such features are identified by  in the schematic diagram and the parts list.

Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

2. Before returning the set to the customer, always do an AC leakage current check on the exposed

metal parts of the cabinet, such as terminals, screw heads, and metal overlays, to be sure the set is safe to operate danger of electrical shock. Plug the AC line cord directly into a 120 V AC outlet(USA Version) or 230 V AC outlet(EU Version). (Do not use a line isolation transformer during this check.) Be sure your AC voltmeter has a sensitivity of $5000\ \Omega$ per volt or greater. Then connect a $1500\ \Omega$ 10 watt resistor, paralleled by a $0.15\ \mu\text{F}$ 150 V AC capacitor, between a known good earth ground(such as a water pipe, or conduit) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of a $1500\ \Omega$ resistor and a $0.15\ \mu\text{F}$ capacitor. Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.75 V RMS. This corresponds to 0.2 mA AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



SPECIFICATION

Measuring methods are based on IHF and IEC standard 268-3

Measurements conditions, unless otherwise noted :

Output resistive load = (8) ohms /Both channel driven.

Tone (Bass, Treble), Balance, EQ control : Center Position, Other SW's : OFF

Nominal input level : (230)mV for MM, ()mV for MC, (2.5)mV for general purpose inputs.

Power figures should be kept minimum 10min. between 15 and 35°C

Terminator : 100ohm for MC, 1kohm for MM and general purpose inputs.

Filter : JIS-A filter R/O = Rated Output

SP Configuration -1

→ FRONT : Small, CENTER : Small, SURROUND : Small, SUB WOOFER : YES

SP Configuration -2

→ FRONT : Large, CENTER : Small, SURROUND : Small, SUB WOOFER : NO

※ THE INITIAL CONDITION OF SP CONFIGURATION IS

→ FRONT : Small(CROSS--80Hz), CENTER : Small(CROSS--80Hz), SURROUND : Small(CROSS--80Hz),
SUB WOOFER : YES, SURROUND CENTER : 2CH- LARGE

You should setup sp configuration for others before measurment.

T.H.D Filter : 20Hz, 400Hz Off, 80kHz : ON, 1kHz/20kHz : 400Hz/80kHz : ON

Load conditions : SPKR OUT (8Ω±2%), TAPE REC OUT (100KΩ±5%), PRE OUT (100KΩ±5%)

TEMP.: (23°C ±2%), (60±5%RH), INPUT VOLTAGE : ±1%

Power supply : 120V/60Hz (A), 230V/50Hz (RDS), 220V/60Hz (K)

1. FRONT AMP SECTION

- SURROUND MODE : STEREO AT FRONT SPEAKER
(SP configuration : ALL LARGE, S/W-YES)
- INPUT : CD ANALOG

NO.	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
1	INPUT IMPEDANCE (CD, AUX, TAPE, VIDEO 1~4)				KΩ	47±5	47±10
2	INPUT SENSITIVITY (CD, AUX, TAPE, VIDEO 1~4) OUTPUT LEVEL : 28.3Vrms		1kHz		mVrms	230±20	230±30
3	T.H.D VOL : +17dB Lch + Rch		20Hz		%	≤ 0.05	≤ 0.07
			1kHz		%	≤ 0.05	≤ 0.07
			20kHz		%	≤ 0.07	≤ 0.09
4	CONTINUOUS AVE.POWER at(0.08)% THD STEREO IN		20Hz	(8) Ω	W	≤ 95	≤ 90
			1kHz		W	≤ 100	≤ 95
			20kHz		W	≤ 95	≤ 90
5	S/N RATIO 28.3V RMS. MEAS : SP OUT TERMINAL ※JIS-A FILTER		1kHz	R/O	dB	≥ 96	≥ 95
6	FREQUENCY RESPONSE (VOL : 0dB)		10Hz	1kHz Ref	dB	0±1	0 ± 1.5
			100kHz	1kHz Ref	dB	0±5	0 ± 6
7	RESIDUAL NOISE NO INPUT JIS-A FILTER	INPUT SHORT	DIN	VOL=+20	mV	≤ 0.5	≤ 0.7

NO.	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
8	DC VOLT SPK OUT	INPUT SHORT		VOL=-79	mV	0±35	0 ± 50
9	HEAD PHONE OUTPUT (VOL : 0dB, LOAD : 32)	230mV	1kHz		mV	190±30	190±50
10	FUNCTION CROSSTALK CD → TAPE INPUT → SHORT CD → VIDEO1		1kHz	R/O -3dB	dB	≥ 70	≥ 65
			10kHz				
			1kHz				
			10kHz				
11	SUB WOOFER OUT SW MODE : SW+	230mV		VOL=+20 L/R=30Hz	V	2.0±0.2	2.0±0.3
12	CINEMA EQ VOL : +2dB(AT PREOUT)	230mV	10kHz		dB	-4.18±0.5	-4.18±1

2. TONE CONTROL

• TONE : ON(SP Configuration : ALL LARGE, S/W-YES)

NO.	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
1	TONE CONTROL INPUT : CD	MAX	100Hz		dB	+10±1	+10±2
		MIN	100Hz		dB	-10±1	-10±2
		MAX	10kHz		dB	+10±1	+10±2
		MIN	10kHz		dB	-10±1	-10±2

3. SURROUND MODE : STEREO AT ROOM2 SPEAKER

• INPUT : CD ANALOG

NO.	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
1	INPUT SENSITIVITY (CD, AUX, TAPE, VIDEO 1~4) OUTPUT LEVEL : 28.3Vrms		1kHz		mVrms	230±20	230±30
2	S/N RATIO 28.3V RMS MEAS : SP OUT TERMINAL ※ JIS-A FILTER		1kHz	R/O	dB	≥ 95	≥ 94

4. TONE CONTROL

• TONE : ON

NO.	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
1	TONE CONTROL INPUT : CD	MAX	100Hz		dB	+10±1	+10±2
		MIN	100Hz		dB	-10±1	-10±2
		MAX	10kHz		dB	+10±1	+10±2
		MIN	10kHz		dB	-10±1	-10±2

5. FRONT AMP SECTION

• SURROUND MODE : EXT.IN

TONE : OFF(SP configuration : ALL LARGE, S/W-YES)

• INPUT 8CH FRONT

NO.	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
1	INPUT SENSITIVITY 28.3Vrms OUTPUT		1kHz		mVrms	230±20	230±30
2	T.H.D VOL : +17dB Lch + Rch		20Hz		%	0.05	0.07
			1kHz		%	0.05	0.07
			20kHz		%	0.07	0.09

NO.	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
3	S/N RATIO MEAS : SP OUT TERMINAL 28.3Vrms OUTPUT JIS-A FILTER		1kHz		dB	≥ 96	≥ 95
4	FREQUENCY RESPONSE VOL : 0dB, INPUT : 200mVrms		10Hz 100kHz	1kHz Ref	dB	0±1 0±5	0 ±1.5 0 ±6
5	OUTPUT DC VOLTAGE VOL : -79dB MEAS : SPK OUT		1kHz		mV	0±35	0±50
6	RESIDUAL NOISE NO INPUT JIS-A FILTER	INPUT SHORT		VOL=+20	mV	≤0.5	≤ 0.7

6. CENTER AMP SECTION

- SURROUND MODE : EXT.IN
TONE : OFF(SP configuration : ALL LARGE, S/W-YES)
- INPUT 8CH CENTER

NO.	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
1	INPUT SENSITIVITY 28.3Vrms OUTPUT		1kHz		mVrms	230±20	230±30
2	T.H.D VOL : +17dB Lch + Rch		20Hz 1kHz 20kHz		% % %	≤0.05 ≤0.05 ≤0.07	≤0.07 ≤0.07 ≤0.09
3	S/N RATIO MEAS : SP OUT TERMINAL 28.3Vrms ※JIS-A FILTER		1kHz		dB	≥ 96	≥ 95
4	FREQUENCY RESPONSE VOL : 0dB, INPUT : 200mVrms		10Hz 100kHz	1kHz Ref	dB	0±1 0±5	0±1.5 0±6
5	VOL : -79dB MEAS : SPK OUT	SHORT	1kHz		mV	0±35	0±50
6	RESIDUAL NOISE NO INPUT JIS-A FILTER	INPUT SHORT		VOL=+20	mV	≤ 0.5	≤ 0.7

7. SURROUND AMP SECTION

- SURROUND MODE : EXT.IN
TONE : OFF(SP configuration : ALL LARGE, S/W-YES)
- INPUT 8CH CENTER

NO.	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
1	INPUT SENSITIVITY 28.3Vrms OUTPUT		1kHz		mVrms	230±20	230±30
2	T.H.D VOL : +17dB Lch + Rch		20Hz 1kHz 20kHz		% % %	≤0.05 ≤0.05 ≤0.07	≤0.08 ≤0.08 ≤0.09
3	S/N RATIO MEAS : SP OUT TERMINAL 28.3V RMS ※JIS-A FILTER		1kHz		dB	≥ 96	≥ 95

NO.	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
4	FREQUENCY RESPONSE VOL : 0dB		10Hz	1kHz Ref	dB	0±3	0 ±1.5
			100kHz			0±5	0 ± 6
5	OUTPUT DC VOLTAGE VOL : -79dB MEAS : SPK OUT	SHORT	1kHz		mV	0±35	0±50
6	RESIDUAL NOISE NO INPUT JIS-A FILTER	INPUT SHORT		VOL=+20	mV	≤ 0.5	≤ 0.7

8. SURROUND BACK AMP SECTION

(SP Configuration : ALL LARGE, S/W-YES)

• SURROUND MODE : EXT.IN TONE : OFF

• INPUT 8CH S/BACK

NO.	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
1	INPUT SENSITIVITY 28.3Vrms OUTPUT		1kHz		mVrms	230±30	230±50
2	T.H.D VOL : +17dB Lch + Rch		20Hz		%	≤0.05	≤ 0.07
			1kHz		%	≤0.05	≤ 0.07
			20kHz		%	≤0.07	≤ 0.09
3	S/N RATIO MEAS : SP OUT TERMINAL 28.3V RMS ※ JIS-A FILTER		1kHz		dB	96	95
4	FREQUENCY RESPONSE VOL. : 0dB		10Hz	1kHz Ref	dB	0±3	0 ±4
			100kHz			0±5	0 ±6
5	OUTPUT DC VOLTAGE VOL : -79dB MEAS : SPK OUT	SHORT	1kHz		mV	0±35	0±50
6	RESIDUAL NOISE NO INPUT JIS-A FILTER	INPUT SHORT		VOL=+20	mV	≤0.5	≤ 0.7

9. S/W SECTION

• SURROUND MODE : EXT.IN

TONE : OFF(SP configuration : ALL LARGE, S/W-YES)

• INPUT 8CH SUB WOOFER, PREOUT

NO.	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
1	OUTPUT LEVEL (VOL : +20dB)	200mV	30Hz		Vrms	2±0.1	2±0.2
2	S/N RATIO, JIS A FILTER (VOL : +20dB) ※ JIS-A FILTER	200mV	30Hz		dB	≥95	≥ 90
3	T.H.D VOL : +20dB ※ DIGITAL L.P.F	200mV	30Hz		%	≤0.05	≤ 0.08
4	FREQUENCY RESPONSE OUTPUT LEVEL : 1V/30Hz	200mV	10Hz		dB	0±1	0±2
			80Hz		dB	0±1	0±2

10. DOLBY DIGITAL INPUT SECTION

- INPUT : COAXIAL (CD DIGITAL)
- SURROUND MODE : DOLBY DIGITAL
- VOLUME POSISTION : 0dB L : FULL, S : 80
- AT Pre OUT Disc : LD VER 1.0

NO.	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
1	OUT PUT LEVEL Disc All CH 0dB	FRONT	1kHz	80	Vrms	1.0±0.2	1.0±0.3
		CENTER	1kHz	80	Vrms	1.0±0.2	1.0±0.3
		SURR	1kHz	80	Vrms	1.0±0.2	1.0±0.3
		S/W	30Hz	Y	Vrms	3.2±0.3	3.2±0.5
2	T.H.D Disc 0dB	FRONT	1kHz	80	%	≤0.1	≤0.15
		CENTER	1kHz	80	%	≤0.1	≤0.15
		SURR	1kHz	80	%	≤0.1	≤0.15
		S/W	30Hz	Y	%	≤0.1	≤0.15
3	S/N LPF (20kHz) JIS-A FILTER, Disc 0dB	FRONT	1kHz	80	dB	≥85	≥80
		CENTER	1kHz	80	dB	≥85	≥80
		SURR	1kHz	80	dB	≥85	≥80
		S/W	30Hz	Y	dB	≥85	≥80
4	OUT PUT CONFIG 1 Ref : FRONT L 1kHz Disc Chap 38 → 20 SPK MODE : S, S, S, Y	FRONT	1kHz	80	dB	<-16	<-15
		CENTER	1kHz	80	dB	<-16	<-15
		SURR	1kHz	80	dB	<-16	<-15
		S/W	30Hz	Y	Vrms	5.0±0.3	5.0±0.5
5	DOWNMIXING TEST SPK MODE : L, S, S, Y	CENTER	1kHz	10(ref) C→NO	dB	-3±0.5	-3±1
		SURR.L	1kHz	80	dB	-3±0.5	-3±1
		SURR.R	1kHz	80	dB	-3±0.5	-3±1
		FRONT	1kHz	Y	Vrms	7.5±1	7.5±2
6	OUT PUT CONFIG 2 SPK MODE : L, S, S, N	FRONT	30Hz	L	dB	5.5±1	5.5±2
		38 → 18					
7	DIALOG NORMALIZATION	FRONT		43	dB	-10±0.5	-10±1
		CENTER		43	dB	-10±0.5	-10±1
		SURR		43	dB	-10±0.5	-10±1
		S/W		43	dB	-10±0.5	-10±1
8	DYNAMIC RANGE 1.0 SPK MODE :	FRONT	1kHz	38	dB	-11±0.5	-11±1
		CENTER		38	dB	-11±0.5	-11±1
		SURR		38	dB	-11±0.5	-11±1
		S/W		38	dB	0±0.5	0±1
9	CINEMA EQ CD PCM 10kHz	FL	10kHz	14	dB	-4.18±0.5	-4.180±0.5
		FR	10kHz	18			

11. DOLBY-EX INPUT SECTION

- INPUT : COAXIAL CD DIGITAL
- VOLUME POSISTION : +17dB
- AT Pre OUT (BACK - 2CH) DOLBY-EX TEST Disc (TRACK 7)

NO.	DESCRIPTION	INPUT	FREQ.	TRACK	UNIT	NOMINAL	LIMIT
1	OUT PUT LEVEL Disc : dolby-ex	SBL	1kHz	7	Vrms	480±30	480±50
		SBR					
2	T.H.D Disc : DOLBY-EX LPF (20kHz)	SBL	1kHz	7	%	≤0.5	≤0.7
		SBR					
3	S/N JIS " A " LPF (20kHz)	SBL	1kHz	STOP	dB	≥70	≥65
		SBR					

12. DTS INPUT SECTION

- INPUT : COAXIAL, CD DIGITAL
- SURROUND MODE : DTS SURROUND
- VOLUME POSISTION : 0dB
- AT PRE OUT (BACK - 2CH)
- DTS TEST Disc (TRACK : 9, 10, 11, 12, 13, 14, 15)

NO.	DESCRIPTION	INPUT	FREQ.	REMARK	UNIT	NOMINAL	LIMIT
1	OUT PUT LEVEL Disc : DTS 0dB	FRONT	1kHz	L	Vrms	1.0±0.2	1.0±0.3
		CENTER	1kHz	L	Vrms	1.0±0.2	1.0±0.3
		SURR	1kHz	L	Vrms	1.0±0.2	1.0±0.3
		S/W	30Hz	Y	Vrms	3.2±0.2	3.2±0.5
2	THD Disc : DTS 0dB LPF (20kHz)	FRONT	1kHz	L	%	≤0.1	≤0.15
		CENTER	1kHz	L	%	≤0.1	≤0.15
		SURR	1kHz	L	%	≤0.1	≤0.15
		S/W	30Hz	Y	%	≤0.5	≤0.6
3	S/N Disc 0dB, JIS "A" LPF (20kHz)	FRONT	1kHz	L	dB	≥85	≥80
		CENTER	1kHz	L	dB	≥85	≥80
		SURR	1kHz	L	dB	≥85	≥80
		S/W	30Hz	Y	dB	≥85	≥80
4	DTS+NES : 6 (VOL : +17dB) OUTPUT LEVEL Disc : ALL CH (1kHz, -20dB) TRACK : 9	FRONT	1kHz	L	mVrms	730±40	730±50
		CENTER	1kHz	L	mVrms	730±40	730±50
		SURR	1kHz	L	mVrms	55±5	55±7
		S-BACK	1kHz	2CH-L	mVrms	730±40	730±50

VIDEO SECTION

- Impedance : Video output level at 75 ohm
- Test Equipment : SCOPE,VN30A1
- DISC : TDV - 540 TEST DISC (ABEX)
- MEASUREMENT POSITION : AT MONITOR OUT
- DVD VIDEO TV MODE : NTSC/A,K PAL/G

# INPUT LEVEL CONDITION(DVD OUTPUT LEVEL)					
No.	DESCRIPTION	INPUT	REMARK	UNIT	LEVEL
1	CVBS LEVEL	WHITE 100%	C-VIDEO	Vp-p	1
2	S-Y LEVEL	WHITE 100%	S-Y	Vp-p	1
3	COLOR BURST LEVEL(A/K)	Color Bar Play (Title 2,Chap 1)	S-C	mVp-p	280
	S-C LEVEL(A/K)				616
	COLOR BURST LEVEL(G)		S-C	mVp-p	300
	S-C LEVEL(G)				658
4	Y	WHITE 100%	Y	Vp-p	1
	R-Y	Color Bar Play (Title 2,Chap 1)	R-Y	Vp-p	0.53
	B-Y		B-Y	Vp-p	0.53

(1) INPUT : C-VIDEO → OUTPUT : C-VIDEO

No.	DESCRIPTION		INPUT	REMARK	UNIT	LIMIT	NOMINAL
1	OUTPUT LEVEL		WHITE 100%	C-VIDEO	Vp-p	1±0.2	1±0.15
2	S/N RATIO		WHITE 50% TITLE2 CHAP.4		dB	40 <	45 <
	Brightness S/N (VN30A1)	HPF 100KHz					
		LPF 4.2MHz					
		SC Trap ON					
	Color S/N	HPF 10KHz	MAGENTA TITLE2 CHAP.17	AM	dB	40 <	45 <
	* ALC : OFF	LPF 500KHz		PM	dB	40 <	45 <
	* RANGE : AUTO						
	* BOTH						

(2) INPUT : S-VIDEO → OUTPUT : C-VIDEO

No.	DESCRIPTION		INPUT	REMARK	UNIT	LIMIT	NOMINAL
1	OUTPUT LEVEL		WHITE 100%		Vp-p	1±0.2	1±0.15
2	S/N RATIO		WHITE 50% TITLE2 CHAP.4		dB	40 <	45 <
	Brightness S/N (VN30A1)	HPF 100KHz					
		LPF 4.2MHz					
		SC Trap ON					
	Color S/N	HPF 10KHz	MAGENTA TITLE2 CHAP.17	AM	dB	40 <	45 <
	* ALC:OFF	LPF 500KHz		PM	dB	40 <	45 <
	* RANGE:AUTO						
	* BOTH						

(3) INPUT : COMPONENT → OUTPUT : C-VIDEO

No.	DESCRIPTION		INPUT	REMARK	UNIT	LIMIT	NOMINAL
1	OUTPUT LEVEL		WHITE 100%		Vp-p	1±0.2	1±0.15
2	S/N RATIO		WHITE 50% TITLE2 CHAP.4		dB	40 <	45 <
	Brightness S/N (VN30A1)	HPF 100KHz					
		LPF 4.2MHz					
		SC Trap ON					
	Color S/N	HPF 10KHz	MAGENTA TITLE2 CHAP.17	AM	dB	40 <	45 <
	* ALC:OFF	LPF 500KHz		PM	dB	40 <	45 <
	* RANGE:AUTO						
	* BOTH						

(4) INPUT : C-VIDEO → OUTPUT : S-VIDEO

No.	DESCRIPTION	INPUT	REMARK	UNIT	LIMIT	NOMINAL
1	OUTPUT LEVEL	WHITE 100%	S-Y	Vp-p	1±0.2	1±0.15
2	BURST LEVEL(A/K)	Color Bar Play (Title 2,Chap 1)	S-C	mVp-p	616±80	616±50
			S-C	mVp-p	280±80	280±50
	BURST LEVEL(G)	Color Bar Play (Title 2,Chap 1)	S-C	mVp-p	658±80	658±50
			S-C	mVp-p	300±80	300±50

(5) INPUT : S-VIDEO → OUTPUT : S-VIDEO

No.	DESCRIPTION	INPUT	REMARK	UNIT	LIMIT	NOMINAL
1	OUTPUT LEVEL	WHITE 100%	S-Y	Vp-p	1±0.2	1±0.15
2	BURST LEVEL(A/K)	Color Bar Play (Title 2,Chap 1)	S-C	mVp-p	616±80	616±50
			S-C	mVp-p	280±80	280±50
	BURST LEVEL(G)	Color Bar Play (Title 2,Chap 1)	S-C	mVp-p	658±80	658±50
			S-C	mVp-p	300±80	300±50

(6) INPUT : COMPONENT → OUTPUT : S-VIDEO

No.	DESCRIPTION	INPUT	REMARK	UNIT	LIMIT	NOMINAL
1	OUTPUT LEVEL	WHITE 100%	S-Y	Vp-p	1±0.2	1±0.15
2	BURST LEVEL(A/K)	Color Bar Play (Title 2,Chap 1)	S-C	mVp-p	616±80	616±50
			S-C	mVp-p	280±80	280±50
	BURST LEVEL(G)	Color Bar Play (Title 2,Chap 1)	S-C	mVp-p	658±80	658±50
			S-C	mVp-p	300±80	300±50

(7) INPUT : C-VIDEO → OUTPUT : COMPONENT(SCALE:AUTO)

No.	DESCRIPTION	INPUT	REMARK	UNIT	LIMIT	NOMINAL
1	OUTPUT LEVEL	WHITE 100%	Y	Vp-p	1±0.2	1±0.15
		Color Bar Play (Title 2,Chap 1)	R-Y	Vp-p	0.53±0.2	0.53±0.1
			B-Y	Vp-p	0.53±0.2	0.53±0.1

(8) INPUT : S-VIDEO → OUTPUT : COMPONENT(SCALE:AUTO)

No.	DESCRIPTION	INPUT	REMARK	UNIT	LIMIT	NOMINAL
1	OUTPUT LEVEL	WHITE 100%	Y	Vp-p	1±0.2	1±0.15
		Color Bar Play (Title 2,Chap 1)	R-Y	Vp-p	0.53±0.2	0.53±0.1
			B-Y	Vp-p	0.53±0.2	0.53±0.1

(9) INPUT : COMPONENT → OUTPUT : COMPONENT(SCALE:AUTO)

No.	DESCRIPTION	INPUT	REMARK	UNIT	LIMIT	NOMINAL
1	OUTPUT LEVEL	WHITE 100%	Y	Vp-p	1±0.2	1±0.15
		Color Bar Play (Title 2,Chap 1)	R-Y	Vp-p	0.53±0.2	0.53±0.1
			B-Y	Vp-p	0.53±0.2	0.53±0.1

(10) INPUT : C-VIDEO → OUTPUT : COMPONENT(SCALE:480P/A,K), (SCALE:576P/G)

No.	DESCRIPTION	INPUT	REMARK	UNIT	LIMIT	NOMINAL
1	OUTPUT LEVEL	WHITE 100%	Y	Vp-p	1±0.2	1±0.15
		Color Bar Play (Title 2,Chap 1)	R-Y	Vp-p	0.53±0.2	0.53±0.1
			B-Y	Vp-p	0.53±0.2	0.53±0.1

(11) INPUT : S-VIDEO → OUTPUT : COMPONENT(SCALE:480P/A,K), (SCALE:576P/G)

No.	DESCRIPTION	INPUT	REMARK	UNIT	LIMIT	NOMINAL
1	OUTPUT LEVEL	WHITE 100%	Y	Vp-p	1±0.2	1±0.15
		Color Bar Play (Title 2,Chap 1)	R-Y	Vp-p	0.53±0.2	0.53±0.1
			B-Y	Vp-p	0.53±0.2	0.53±0.1

(12) INPUT : COMPONENT → OUTPUT : COMPONENT(SCALE:480P/A,K), (SCALE:576P/G)

No.	DESCRIPTION	INPUT	REMARK	UNIT	LIMIT	NOMINAL
1	OUTPUT LEVEL	WHITE 100%	Y	Vp-p	1±0.2	1±0.15
		Color Bar Play (Title 2,Chap 1)	R-Y	Vp-p	0.53±0.2	0.53±0.1
			B-Y	Vp-p	0.53±0.2	0.53±0.1

TUNER SECTION

Measuring methods in conformity with IEC standard 315

Measurements condition FM : Ref. frequency = (98.1MHz A/K), (98MHz G) Audio frequency = 1kHz

Reference level = 1mV on (75ohms) Deviation :

Filter = B.P.F at STEREO and MONO

Test Point : TP1 = 90.1MHz, TP2 = 98.1MHz, TP3 = 106.1MHz (100kHz STEP) → A/K

MONO = 75kHz, STEREO = 67.5kHz±7.5kHz

Test Point : TP1 = 90MHz, TP2 = 98MHz, TP3 = 106MHz (50kHz STEP) → RDS

MONO = 75kHz, STEREO = 67.5kHz±7.5kHz

FM SECTION

NO.	DESCRIPTION		UNIT	NOMINAL	LIMIT
1	TUNING COVER RANGE	LOW ~ HIGH	MHz	87.5~108	
	STEP (A/K)	AUTO/MANUAL	kHz	100/100	
	(RDS)	AUTO/MANUAL	kHz	50/50	
2	USABLE SENSITIVITY S/N = 30dB (A/K) S/N = 26dB (RDS)	TP 1	dBu	≤6	≤12
		TP 2	dBu	≤6	≤12
		TP 3	dBu	≤6	≤12
3	AUTO STOP LEVEL		dBu	20±5	20±6
4	TUNED ON LEVEL		dBu	20±5	20±6
5	STEREO ON LEVEL (at Pilot 10%)		dBu	20±5	20±6
6	S/N RATIO IHF "A" FLAT	MONO	dBu	≥70	≥65
		STEREO	dBu	≥65	≥62
7	T.H.D	MONO 100Hz	%	≤0.5	≤2
		MONO 1kHz	%	≤0.5	≤2
		MONO 7kHz	%	≤0.5	≤2
		STEREO 100Hz	%	≤0.7	≤2
		STEREO 1kHz	%	≤0.7	≤2
		STEREO 7kHz	%	≤0.7	≤2
8	50dB QUIETING SENS(A/K) 46dB QUIETING SENS(RDS)	MONO	dBu	≤6	≤16
		STEREO	dBu	≤28	≤38
9	CHANNEL SEPARATION VS FREQ.	100Hz	dBu	≥38	≥25
		1kHz	dBu	≥38	≥30
		10kHz	dBu	≥30	≥25
10	FREQUENCY RESPONSE	0±3dB	Hz	25~15k	30~12k
11	SPURIOUS RESPONSE		dB	≥76	≥60
12	IF REJECTION	TP 1	dB	≥100	≥90
13	IMAGE REJECTION	TP 3	dB	≥70	≥50
14	AM REJECTION RATIO (60dBu INPUT)		dB	≥60	≥40
15	CAPTURE RATIO (60dBu INPUT)		dB	≤3.8	≤4
16	CH SELECTIVITY (±400Hz), 20dBu INPUT		dB	60	40
17	OUTPUT LEVEL	MONO	mVrms	600±100	600±150

RDS SECTION

NO	DESCRIPTION		UNIT	NOMINAL	LIMIT
1	RDS SEARCH STOP SENSE	RDS MOD. 2kHz	dBu	22	≤34
2	PS SENSE	RDS MOD. 2kHz	dBu/m	22	≤34

AM SECTION

Measurements condition AM - MW : Radio. frequency = 1000/999kHz, Audio frequency = 400Hz

Reference level = (74dBu/m), (50)ohms Modulation = (30)%

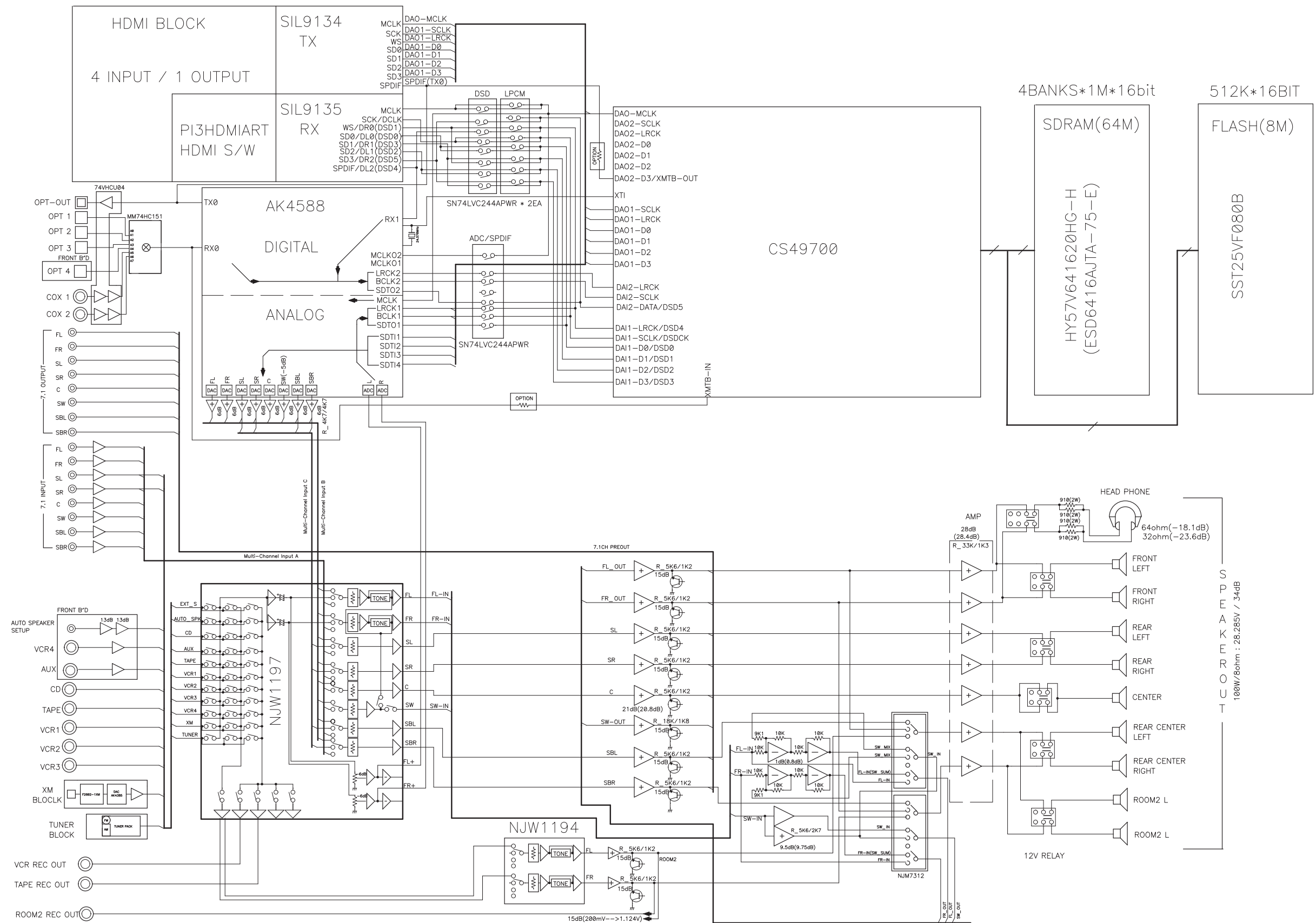
Test Point : MW TP 1 = (600)kHz , TP 2 = (1000)kHz , TP 3 = (1400)kHz → (A)

MW TP 1 = (603)kHz , TP 2 = (999)kHz , TP 3 = (1404)kHz → (K/RDS)

NO.	DESCRIPTION		UNIT	NOMINAL	LIMIT
1	TUNING COVER RANGE (A) (K/RDS)	LOW~HIGH MW	kHz	520~1710	
		LOW~HIGH MW	kHz	522~1611	
	STEP (A) (K/RDS)	AUTO/MANUAL	kHz	10/10	
		AUTO/MANUAL	kHz	9/9	
2	USABLE SENSITIVITY S/N = 20dB	TP 1	dBu/m	≤55	≤65
		TP 2	dBu/m	≤51	≤65
		TP 3	dBu/m	≤50	≤65
3	S/N RATIO 100dBu/m, 30% MOD	TP 2	dB	≥50	≥40
4	T.H.D 74dBu/m, 30% MOD	TP 2	%	≤0.9	≤2
5	OVER LOAD DISTORTION 94dBu/m, 80% MOD	TP 2	%	≤2.0	≤5
6	FREQUENCY RESPONSE (at 74dBu/m, 400Hz)	AT-6dB	Hz	80~2K	100~1.8K
7	SELECTIVITY AT SN : 20dB, ±10kHz	TP 2	dB	≥ 23	≥15
8	AGC FIGURE OF MERIT (at 100dBu/m)	TP 2	dB	≥ 55	≥40
9	IMAGE REJECTION	TP 3	dB	≥ 30	≥25
10	IF REJECTION	TP 1	dB	≥ 48	≥40
11	WHISTLE MODULATION (74dBu/m, 94dBu/m) 900kHz/1350kHz	2IF	dB	≥ 10	≥15
12	TUNED LEVEL 1000kHz (A) 999kHz (K/RDS)		dBu/m	55±8	50±10
				55±8	50±10
13	AUTO STOP LEVEL (A) (K/RDS)	1000kHz	dBu/m	55±8	55±10
		999kHz			
14	OUTPUT LEVEL 74dBu/m, 30% MOD		mVrms	200±50	200±70

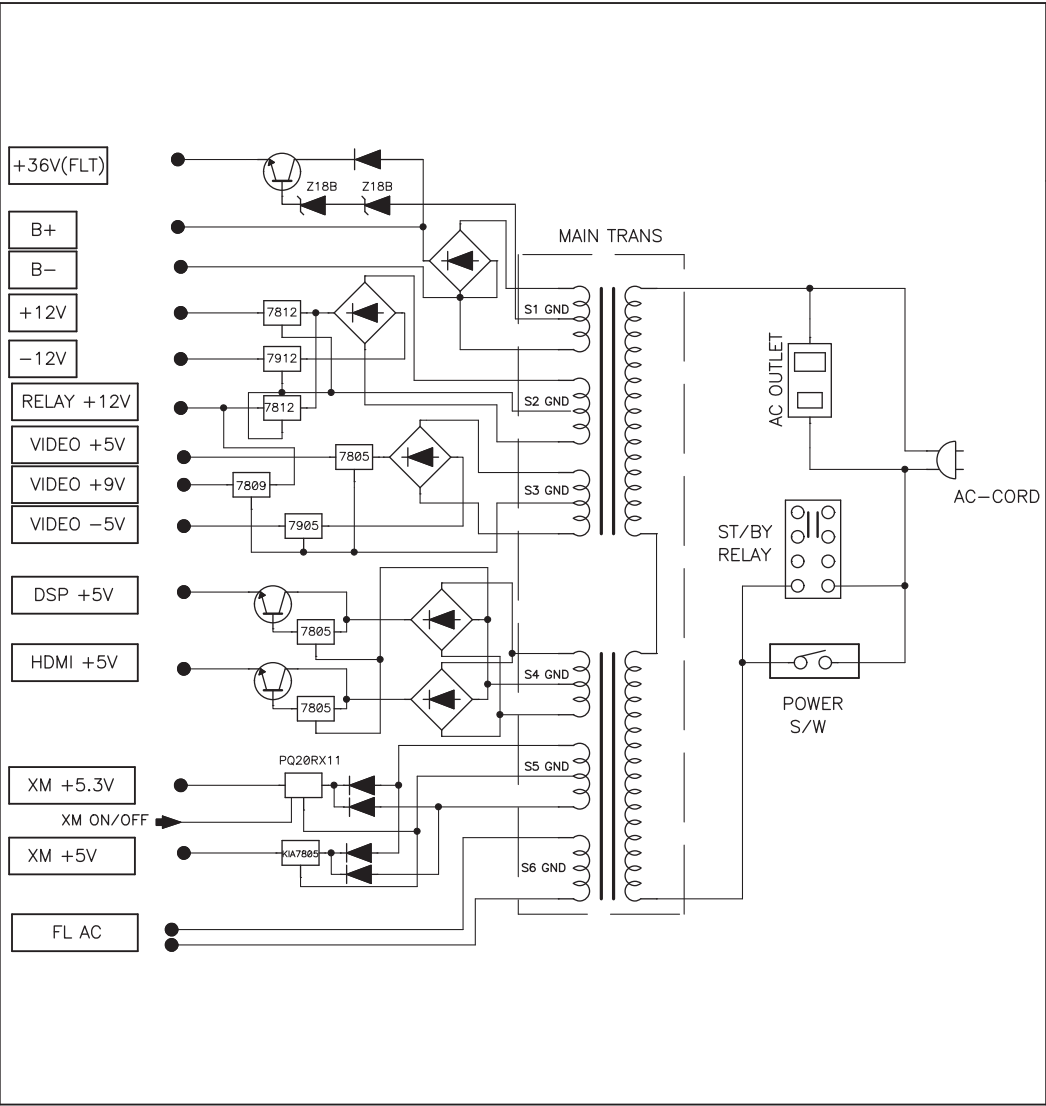
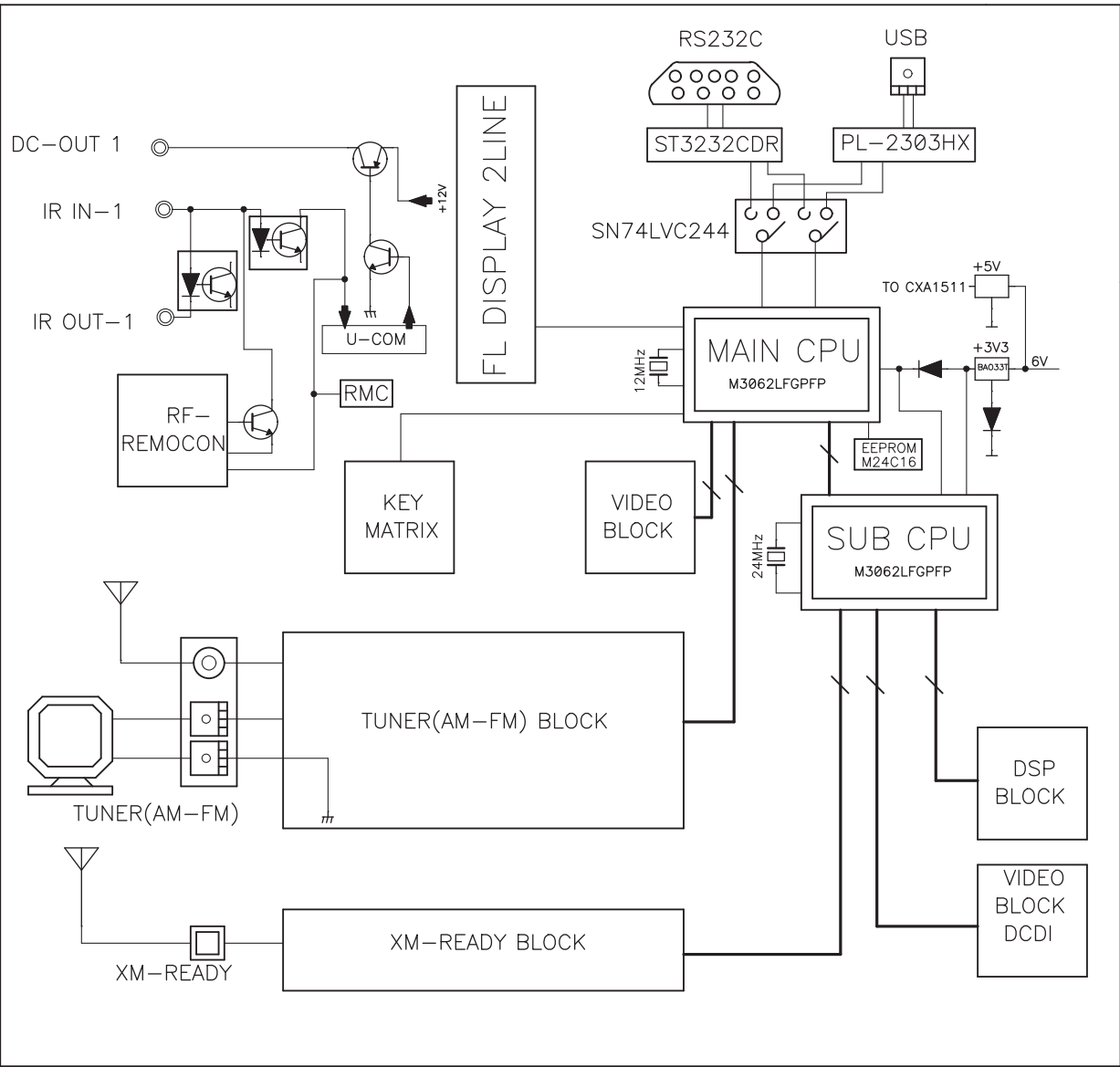
AUDIO BLOCK DIAGRAMS(1)

Model No.: R-872



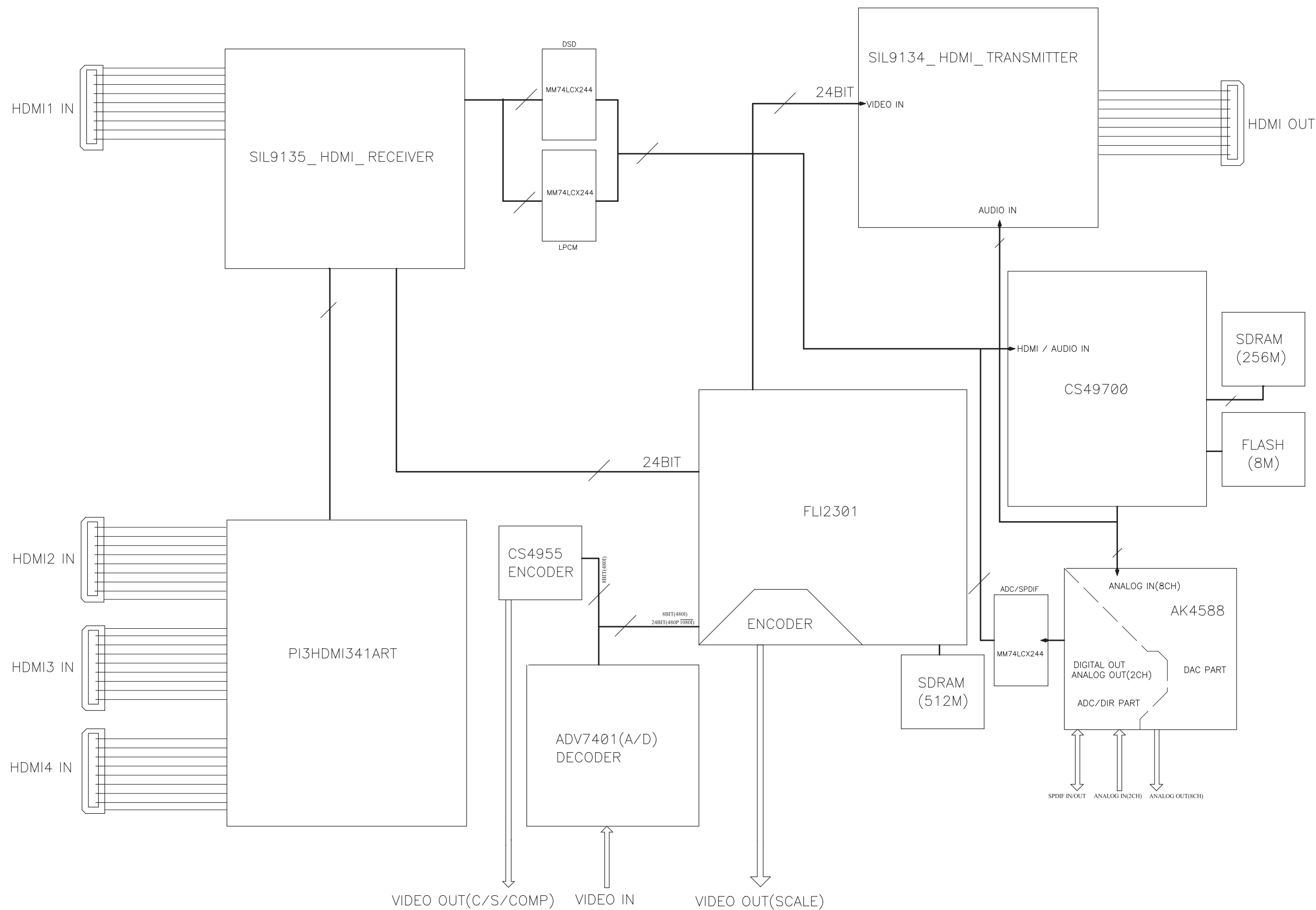
POWER/OTHER BLOCK DIAGRAMS(2)

Model No.: R-872



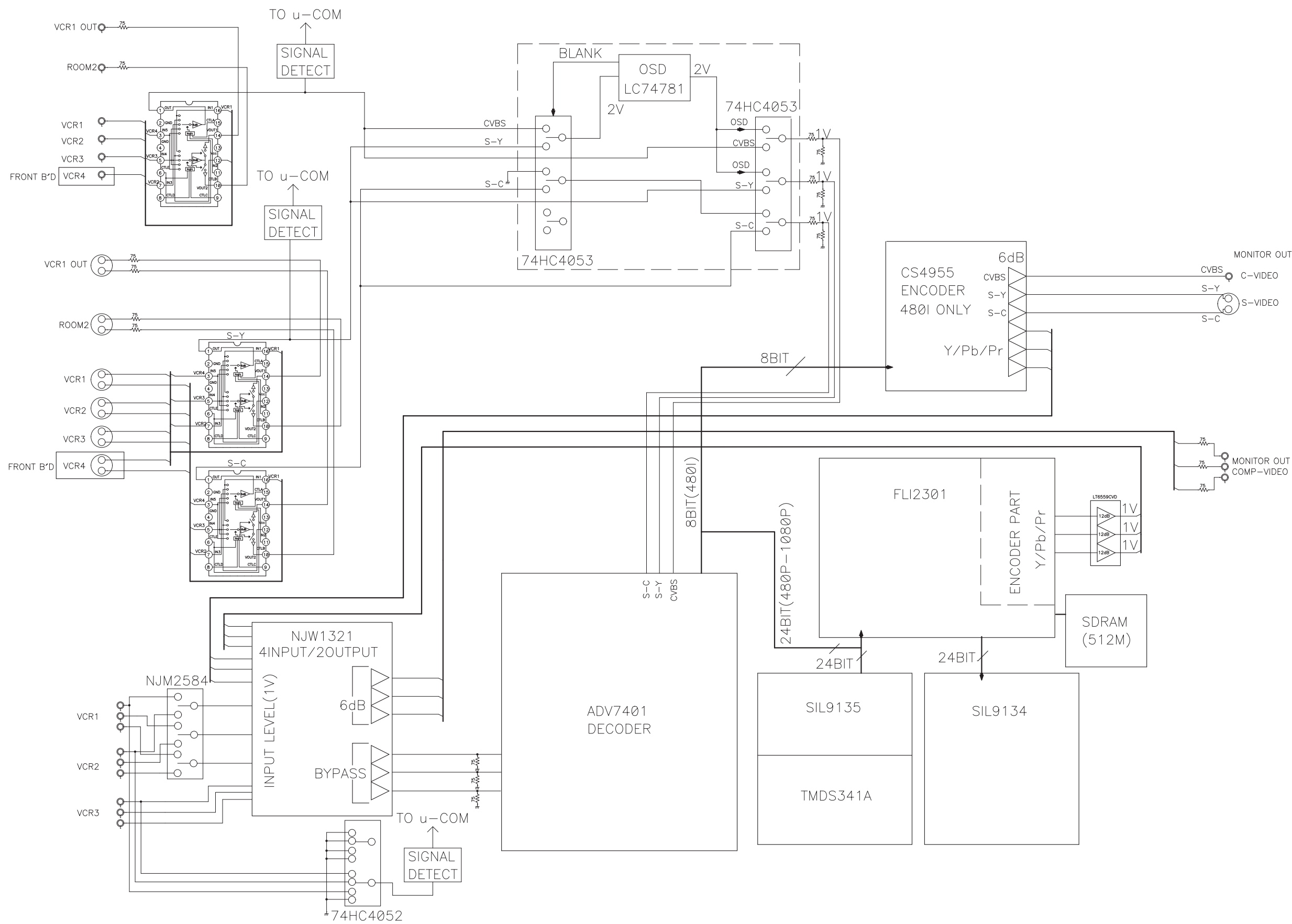
HDMI/DSP BLOCK DIAGRAMS(3)

Model No.: R-872



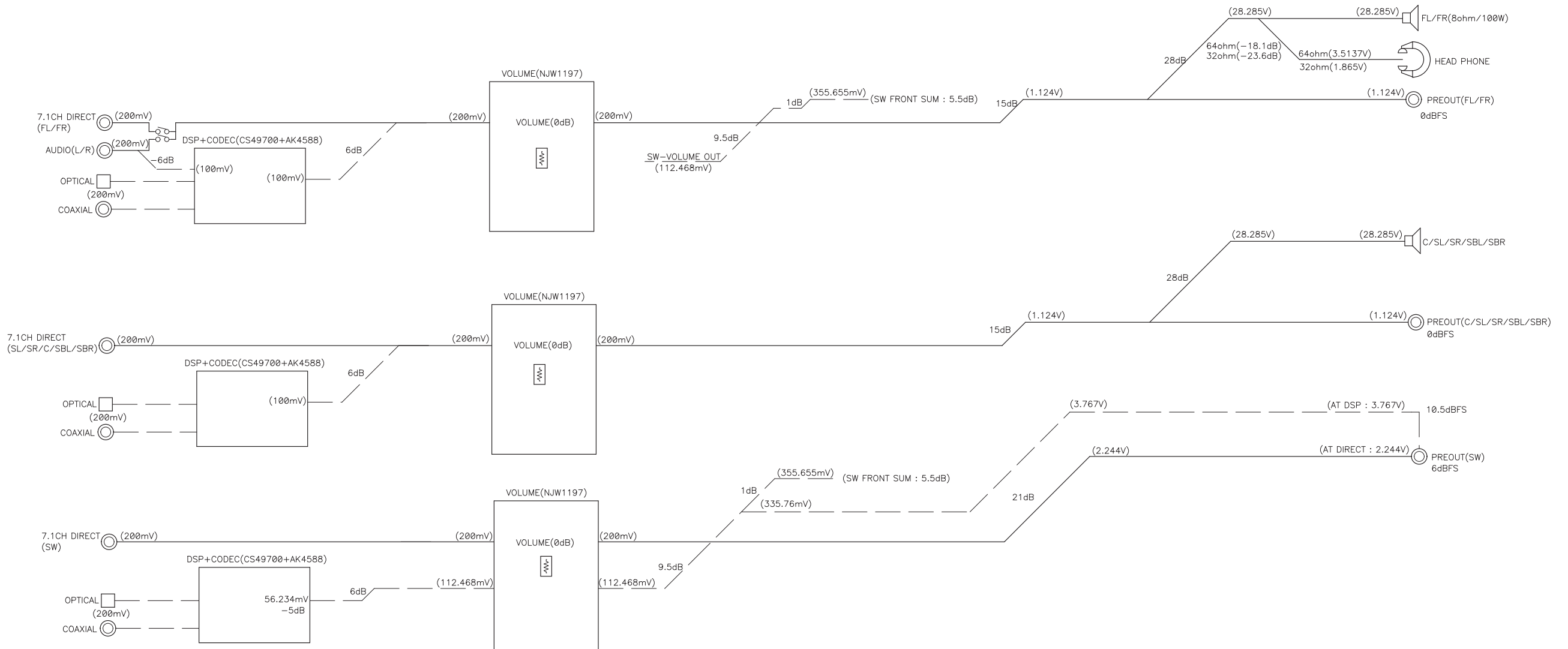
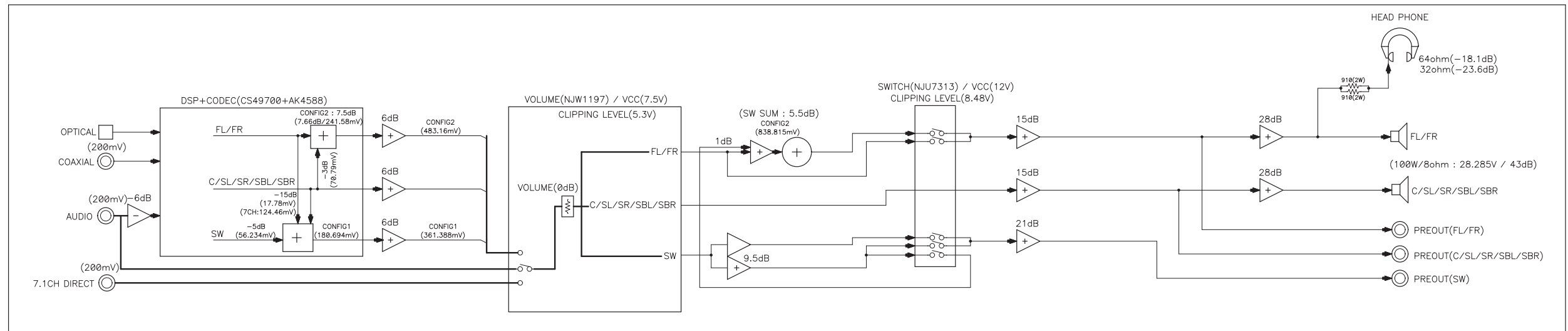
VIDEO BLOCK DIAGRAMS(4)

Model No.: R-872



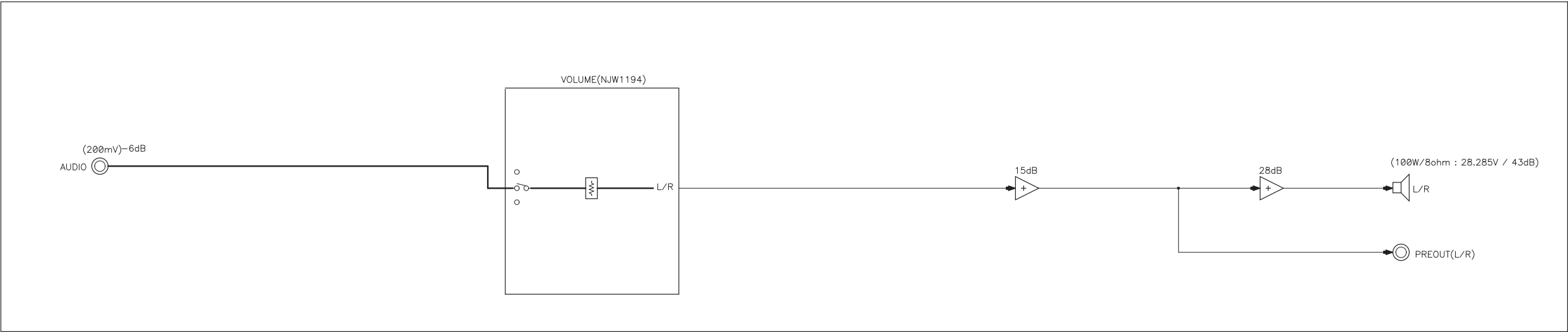
LEVEL BLOCK DIAGRAMS-ROOM 1(5)

Model No.: R-872



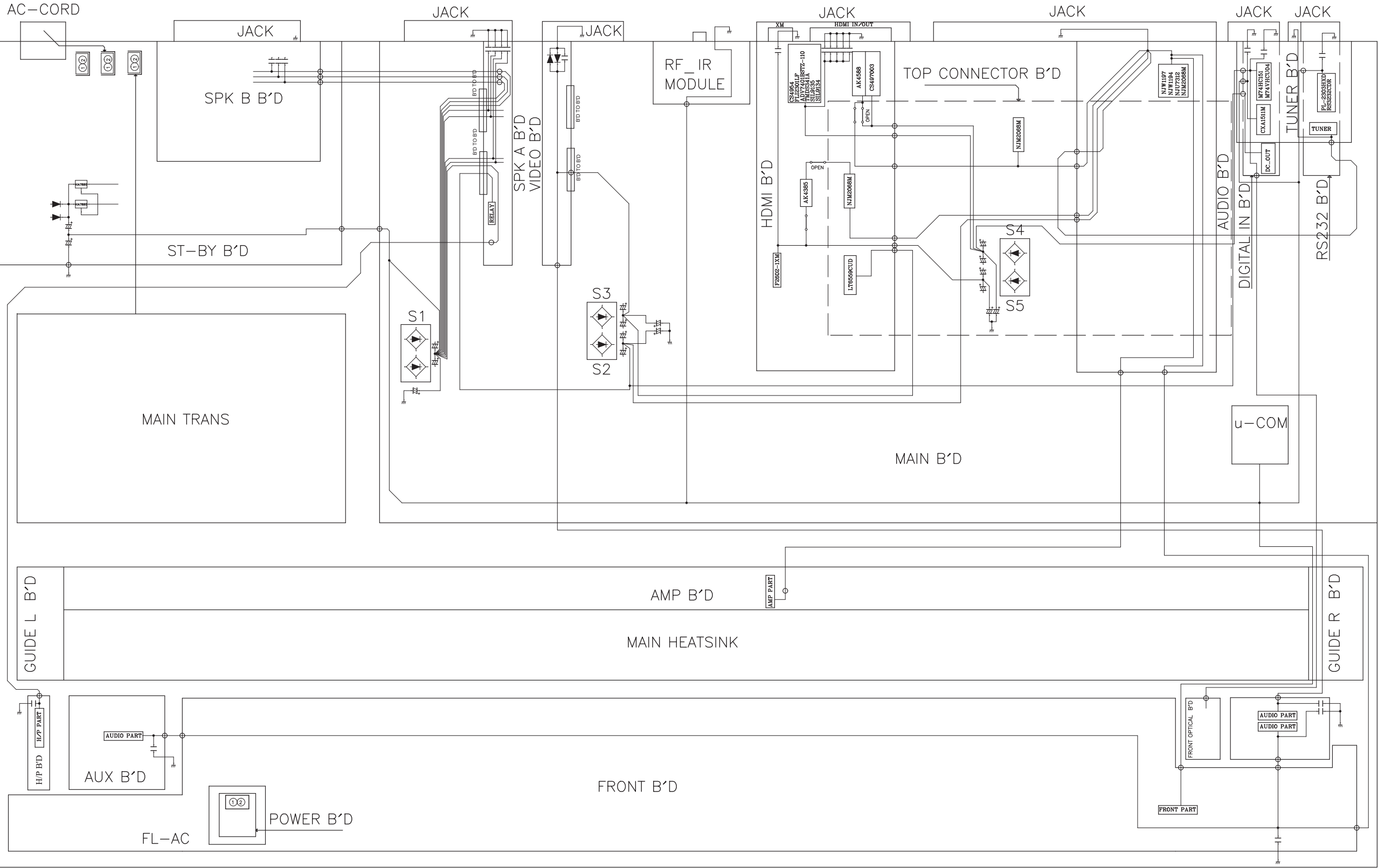
LEVEL BLOCK DIAGRAMS-ROOM 2(6)

Model No.: R-872



GND BLOCK DIAGRAMS(7)

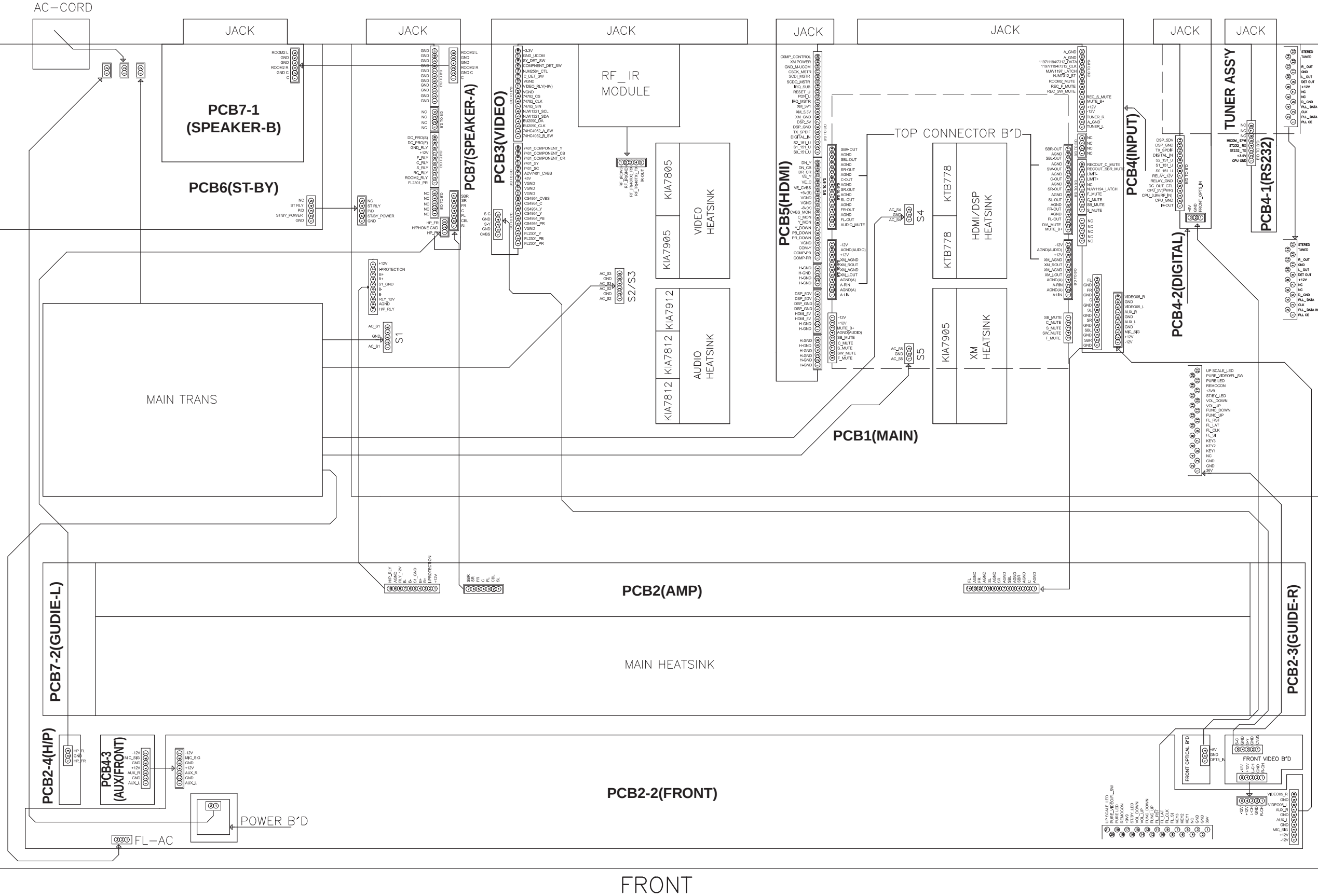
Model No.: R-872



FRONT

WIRING DIAGRAM

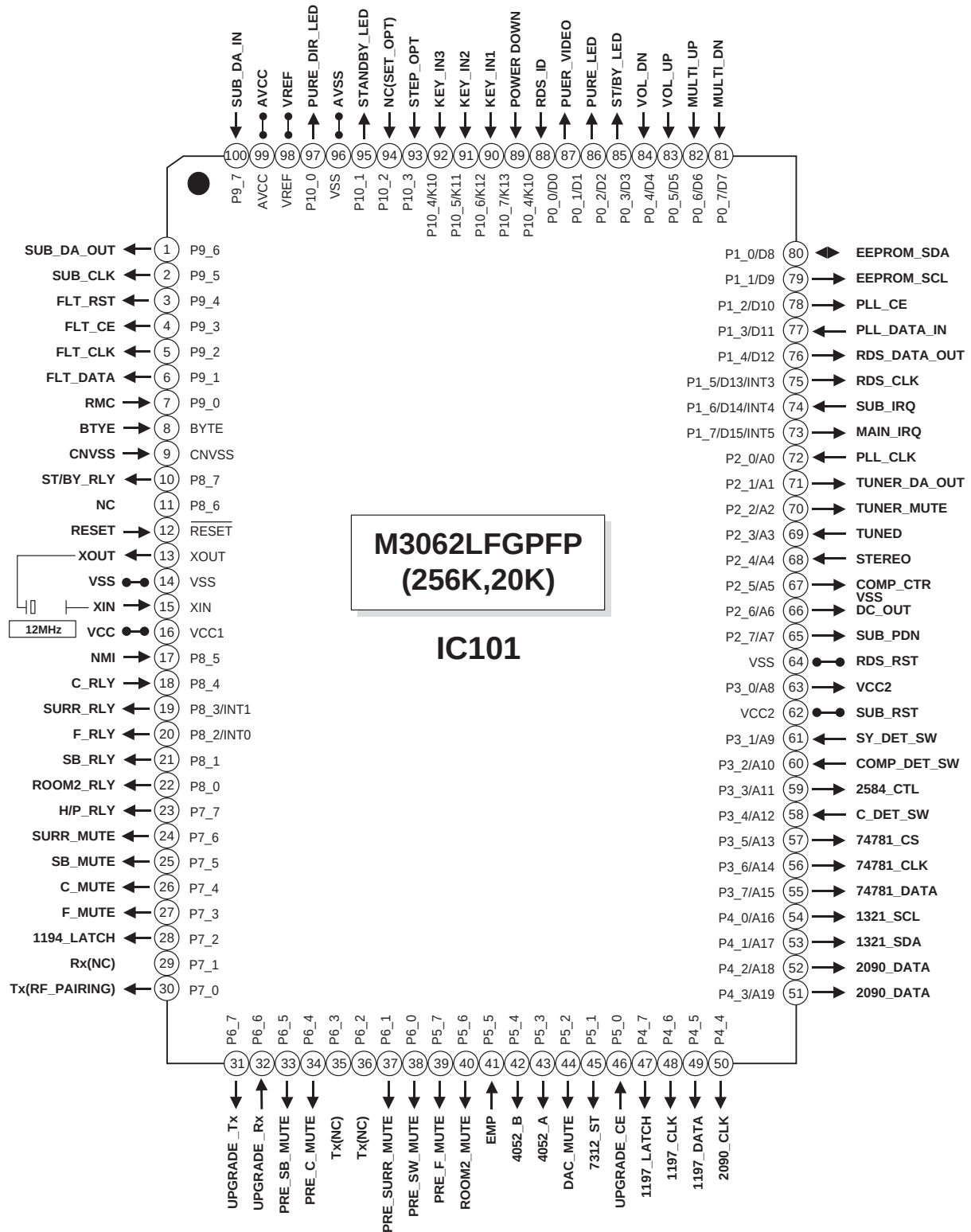
Model No.: R-872



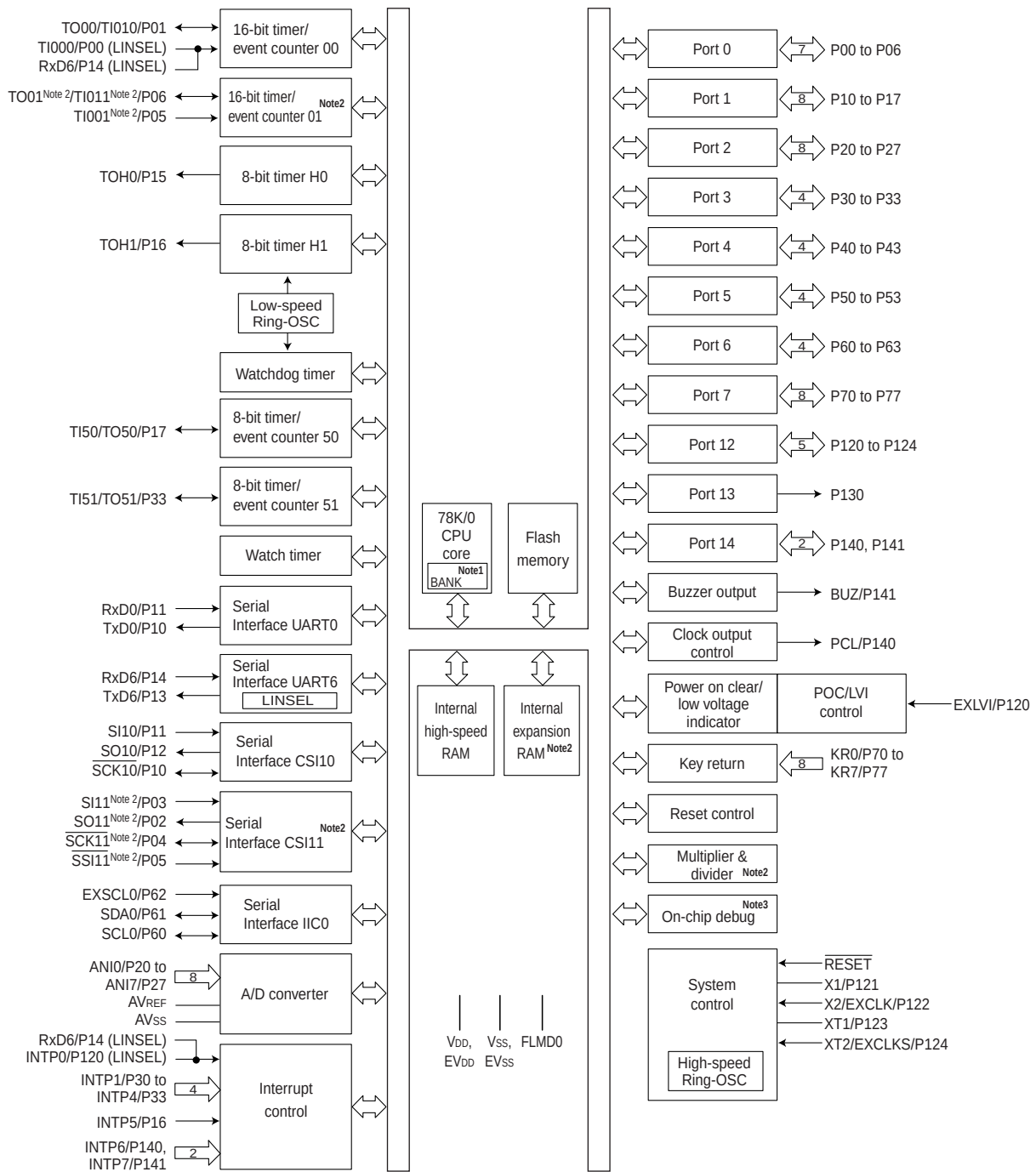
CIRCUIT DESCRIPTION

M3062LFGPFP : IC101(MAIN)

1. Pin Description



2. Block Diagram



Notes 1. Available only in the μ PD78F0536, 78F0537, and 78F0537D.

2. Available only in the μ PD78F0534, 78F0535, 78F0536, 78F0537, and 78F0537D.

3. Available only in the μ PD78F0537D.

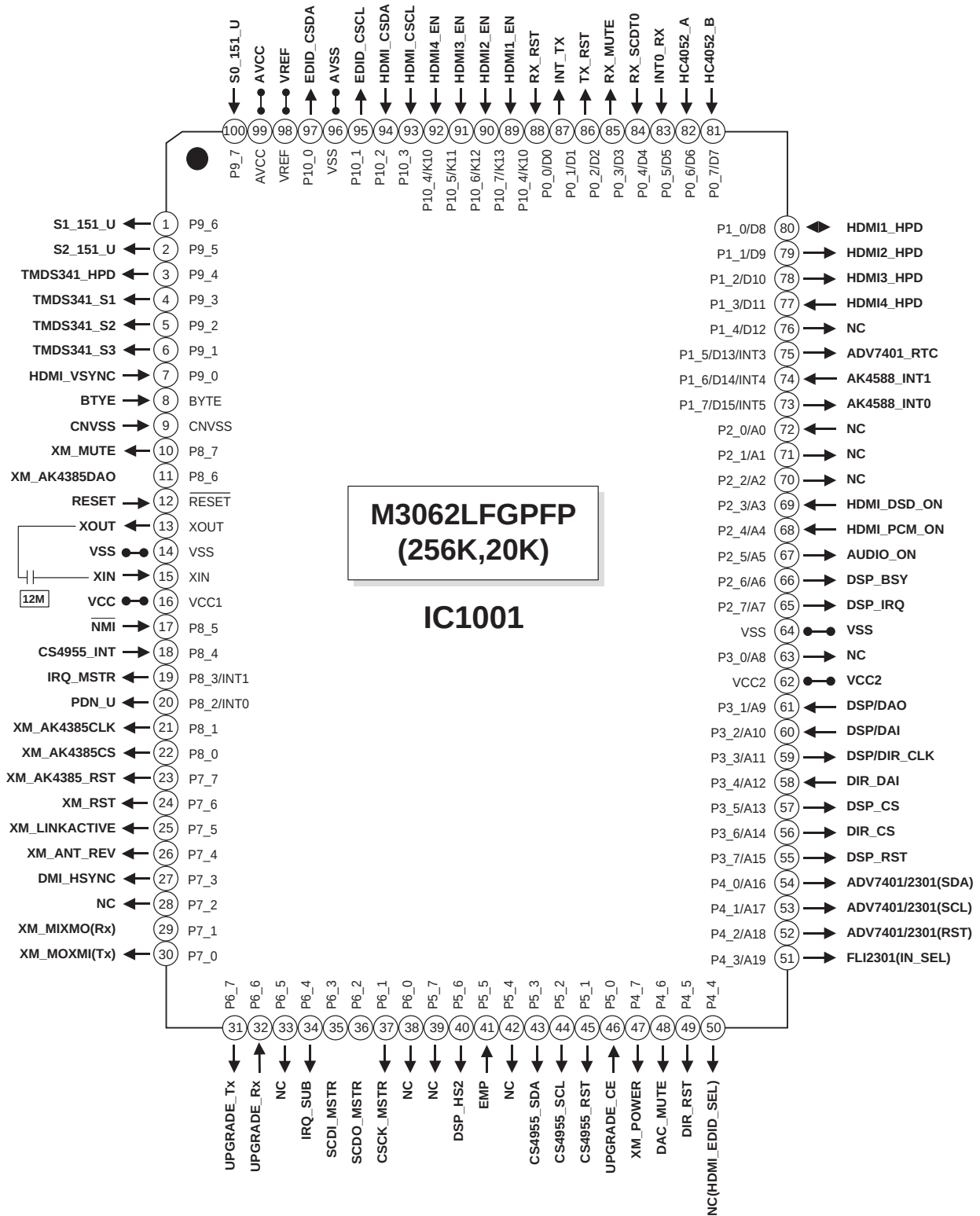
3. Pin Functions

Pin No.	NAME	I/O	Port description
1	SUB_DA_OUT	O	Data signal output for sub-micom
2	SUB_CLK	O	Clock signal output for sub-micom
3	FLT_RST	O	Reset output for FLT
4	FLT_CE	O	Chip enable output for FLT
5	FLT_CLK	O	Clock signal output for FLT
6	FLT_DATA	O	Data signal output for FLT
7	RMC	I	Input for Remocon and RF-Remocon data
8	BTYE	I	Ground
9	CNVSS	I	Flash memory programming mode setting
10	ST/BY_RLY	O	Output for Relay control data
11	NC		Not used!
12	RESET	I	Input for resetting the CPU
13	XOUT	O	Output for 12MHz crystal oscillator
14	VSS		Ground
15	XIN	I	input for 12MHz crystal oscillator
16	VCC		+3.3V power supply
17	NMI	I	CPU internal operating for Port
18	C_RLY	O	Output for Relay control data
19	SURR_RLY	O	Output for Relay control data
20	F_RLY	O	Output for Relay control data
21	SB_RLY	O	Output for Relay control data
22	ROOM2_RLY	O	Output for Relay control data
23	H/P_RLY	O	Output for Relay control data
24	SURR_MUTE	O	Output for Mute control data
25	SB_MUTE	O	Output for Mute control data
26	C_MUTE	O	Output for Mute control data
27	F_MUTE	O	Output for Mute control data
28	1194_LATCH	O	Output for Chip enable NJW1194 control
29	Rx(NC)		Not used!
30	Tx(RF_PAIRING)	O	Output for RF_module pairing mode control
31	UPGRADE_Tx	O	U-com upgrade & Crestron data output
32	UPGRADE_Rx	I	U-com upgrade & Crestron data input
33	PRE_SB_MUTE	O	Output for Mute control data
34	PRE_C_MUTE	O	Output for Mute control data
35	Tx(NC)		Not used!
36	Tx(NC)		Not used!
37	PRE_SURR_MUTE	O	Output for Mute control data
38	PRE_SW_MUTE	O	Output for Mute control data
39	PRE_F_MUTE	O	Output for Mute control data
40	ROOM2_MUTE	O	Output for Mute control data
41	EMP	I	Flash memory programming mode setting
42	4052_B	O	Output for BU4052 control data
43	4052_A	O	Output for BU4052 control data
44	DAC_MUTE	O	Output for Mute control data
45	7312_ST	O	Chip enable output for NJW7312
46	UPGRADE_CE	I	Chip select for CPU upgrade
47	1197_LATCH	O	Chip select data for NJW1197
48	1197_CLK	O	Clock signal for NJW1197
49	1197_DATA	O	Communication data for NJW1197
50	2090_CLK	O	Clock signal for BU2090

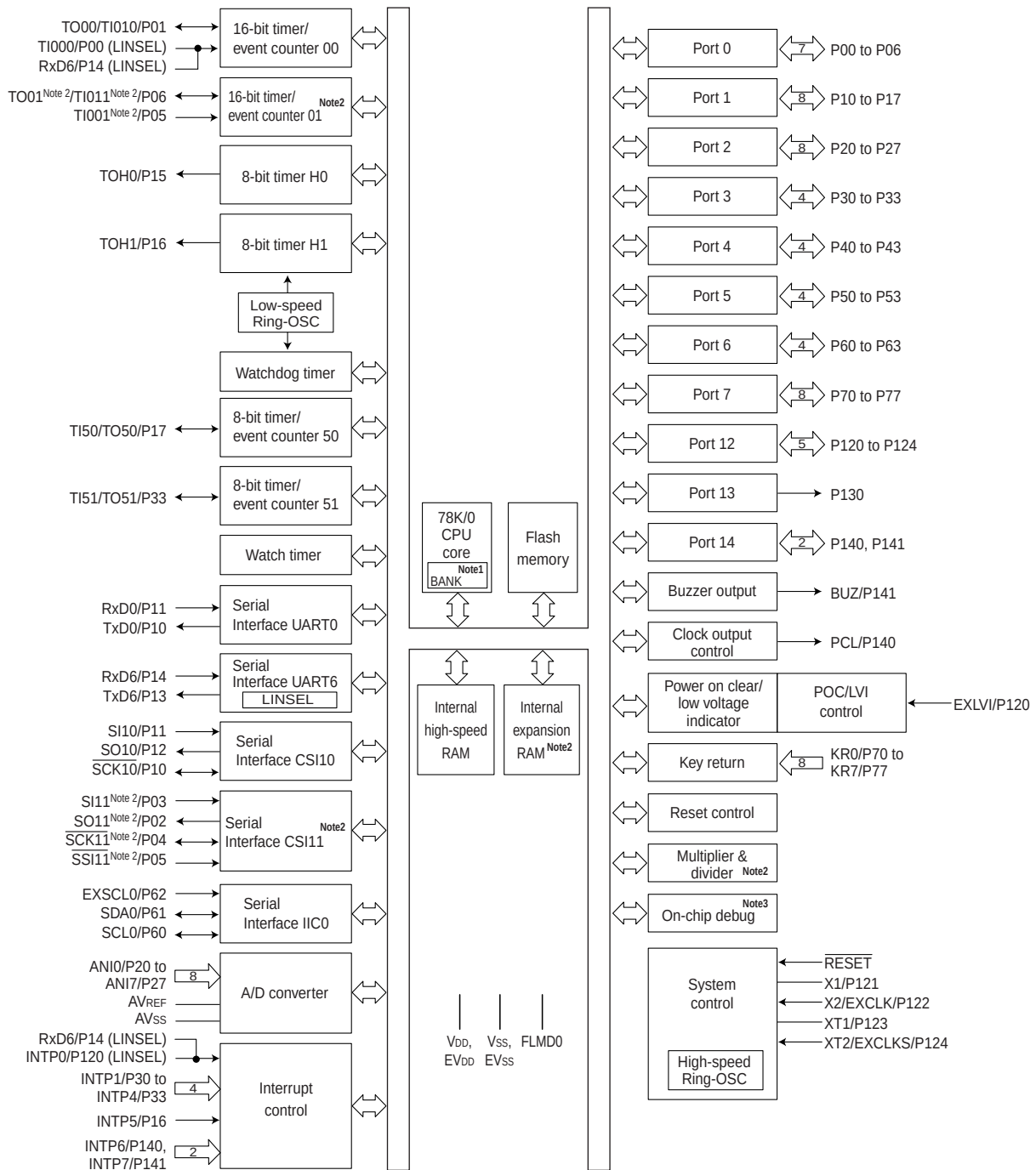
Pin No.	NAME	I/O	Port description
51	2090_DATA	O	Commnuication data for BU2090
52	1321_SDA	I/O	Commnuication data for NJW1321
53	1321_SCL	O	Clock signal for NJW1321
54	74781_DATA	O	Commnuication data for LC74781M
55	74781_CLK	O	Clock signal for LC74781M
56	74781_CS	O	Chip select data for LC74781M
57	C_DET_SW	O	Input for CVBS signal input detection
58	2584_CTL	O	Output for NJM2584 control data
59	COMP_DET_SW	O	Input for Component signal input detection
60	SY_DET_SW	O	Input for S-video signal input detection
61	SUB_RST	O	Output for resetting the Sub-CPU
62	VCC2		+3.3V Power supply
63	RDS_RST	O	Output for resetting the LC72725
64	VSS		Ground
65	SUB_PDN	O	Output for Power-down the Sub-CPU
66	DC_OUT	O	Output for DC-OUT(+12V-OUT) control data
67	COMP_CTR	O	Output for LT6559 control data
68	STEREO	I	Input for detecting "TUNED" condition.
69	TUNED	I	Input for detecting "STEREO" condition.
70	TUNER_MUTE	O	Output for Mute control data
71	TUNER_DA_OUT	O	Data signal output for tuner
72	PLL_CLK	O	Clock signal output for tuner
73	MAIN_IRQ	O	Output for Main micom condition
74	SUB_IRQ	I	Input forSub micom condition
75	RDS_CLK	O	Clock signal output for LC72725
76	RDS_DATA_OUT	O	Data signal output for LC72725
77	PLL_DATA_IN	I	Data signal input for LC72725
78	PLL_CE	O	Chip enable signal output for tuner
79	EEPROM_SCL	O	Clock signal output for E2PROM
80	EEPROM_SDA	I/O	Data signal output for E2PROM
81	MULTI_DN	I	Input for main multi control dn.
82	MULTI_UP	I	Input for main multi control up.
83	VOL_UP	I	Input for main volume up.
84	VOL_DN	I	Input for main volume dn.
85	ST/BY_LED	O	Output signal for LED
86	PURE_LED	O	Output signal for LED
87	PUER_VIDEO	O	Data output for video control
88	RDS_ID	I	RDS-ID/READY input for LC72725
89	POWER DOWN	I	Input for power down
90	KEY_IN1	I	Data input for key scan
91	KEY_IN2	I	Data input for key scan
92	KEY_IN3	I	Data input for key scan
93	STEP_OPT	I	Input for tuner ares option
94	NC(SET_OPT)		Not used!
95	STANDBY_LED	O	Output signal for LED
96	AVSS		GROUND
97	PURE_DIR_LED	O	Output signal for LED
98	VREF		+3.3V power supply
99	AVCC		+3.3V power supply
100	SUB_DA_IN	I	Data signal input for sub-micom

M3062LFGPFP : IC1001(HDMI)

1. Pin Description



2. Block Diagram



Notes 1. Available only in the μPD78F0536, 78F0537, and 78F0537D.

2. Available only in the μPD78F0534, 78F0535, 78F0536, 78F0537, and 78F0537D.

3. Available only in the μPD78F0537D.

3. Pin Functions

Pin No.	Name	I/O	Port description
1	S1_151_U	O	Output for HC151 control data
2	S2_151_U	O	Output for HC151 control data
3	TMDS341_HPD	O	Output for TMDS341 HPD control data
4	TMDS341_S1	O	Output for TMDS341 control data
5	TMDS341_S2	O	Output for TMDS341 control data
6	TMDS341_S3	O	Output for TMDS341 control data
7	HDMI_VSYNC	I	Input for SIL9135 VSYNC data
8	BTYE	I	Ground
9	CNVSS	I	Flash memory programing mode setting
10	XM_MUTE	O	Output for Relay control data
11	XM_AK4385DAO	O	Data signal output for ak4385
12	RESET	I	Input for resetting the CPU
13	XOUT	O	Output for 20MHz crystal oscillator
14	VSS		Ground
15	XIN	I	input for 12MHz crystal oscillator
16	VCC		+3.3V power supply
17	NMI	I	CPU internal operating for Port
18	CS4955_INT	I	Input for CS4955 INT
19	IRQ_MSTR	I	Input for MAIN-CPU INT
20	PDN_U	I	Input for POWER OFF the CPU
21	XM_AK4385CLK	O	Clcok signal output for ak4385
22	XM_AK4385CS	O	Chip enable signal output for ak4385
23	XM_AK4385_RST	O	Reset signal output for ak4385
24	XM_RST	O	Reset signal output for F2621E-01-PR
25	XM_LINKACTIVE	I	Linkactive signal input for F2621E-01-PR
26	XM_ANT_REV	I	Ant_rev signal input for F2621E-01-PR
27	HDMI_HSYNC	I	Input for SIL9135 HSYNC data
28	NC		Not used!
29	XM_MIXMO(Rx)	O	Commnuication data input for F2621E-01-PR
30	XM_MOXMI(Tx)	I	Commnuication data output for F2621E-01-PR
31	UPGRADE_Tx	O	U-com upgrade & Crestron data output
32	UPGRADE_Rx	I	U-com upgrade & Crestron data input
33	NC		Not used!
34	IRQ_SUB	O	Output for SUB-CPU INT
35	SCDI_MSTR	O	Commnuication data output for MAIN-CPU
36	SCDO_MSTR	I	Commnuication data input for MAIN-CPU
37	CSCK_MSTR	I	Commnuication clock output for MAIN-CPU
38	NC		Not used!
39	NC		Not used!
40	DSP_HS2	O	Flash(SST25VF080B) memory programing mode setting
41	EMP	I	Flash memory programing mode setting
42	NC		Not used!
43	CS4955_SDA	I/O	Commnuication data in/output for CS4955
44	CS4955_SCL	O	Commnuication clock output for CS4955
45	CS4955_RST	O	Reset signal output for CS4955
46	UPGRADE_CE	I	Chip select for CPU upgrade
47	XM_POWER	O	Output for XM POWER control data
48	DAC_MUTE	O	Output for Mute control data
49	DIR_RST	O	Reset signal output for AK4588
50	NC(HDMI_EDID_SEL)		Not used!

Pin No.	Name	I/O	Port description
51	FLI2301(IN_SEL)	O	Output for FLI2301 INPUT SELECT control data
52	ADV7401/2301(RST)	O	Reset signal output for ADV7401/FLI2301
53	ADV7401/2301(SCL)	O	Commnuication clock output for ADV7401/FLI2301
54	ADV7401/2301(SDA)	I/O	Commnuication data in/output for ADV7401/FLI2301
55	DSP_RST	O	Reset signal output for CS497004
56	DIR_CS	O	Chip select data for AK4588
57	DSP_CS	O	Chip select data for CS497004
58	DIR_DAI	I	Commnuication data intput for AK4588
59	DSP/DIR_CLK	O	Commnuication clock output for AK4588/CS497004
60	DSP_DAI	I	Commnuication data input for CS497004
61	DSP/DAO	O	Commnuication data output for AK4588/CS497004
62	VCC2		+3.3V Power supply
63	NC		Not used!
64	VSS		Ground
65	DSP_IRQ	I	Input for CS497004 INT
66	DSP_BSY	I	Input for CS497004 BSY
67	AUDIO_ON	O	Output for AK4588 PCM OUTPUT control data
68	HDMI_PCM_ON	O	Output for SIL9135 PCM OUTPUT control data
69	HDMI_DSD_ON	O	Output for SIL9135 SACD OUTPUT control data
70	NC		Not used!
71	NC		Not used!
72	NC		Not used!
73	AK4588_INT0	I	Input for AK4588 INT0
74	AK4588_INT1	I	Input for AK4588 INT1
75	ADV7401_RTC	I	Input for ADV7401 SFL/SYNC_OUT
76	NC		Not used!
77	HDMI4_HPD	O	Output for HDMI HPD4 control data
78	HDMI3_HPD	O	Output for HDMI HPD3 control data
79	HDMI2_HPD	O	Output for HDMI HPD2 control data
80	HDMI1_HPD	O	Output for HDMI HPD1 control data
81	HC4052_B	O	Output for HC4052_B control data
82	HC4052_A	O	Output for HC4052_A control data
83	INT0_RX	I	Input for SIL9135 INT0
84	RX_SCDT0	I	Input for SIL9135 SCDT0
85	RX_MUTE	I	Input for SIL9135 MUTE
86	TX_RST	O	Output for resetting the SIL9134
87	INT_TX	I	Input for SIL9134 INT0
88	RX_RST	O	Output for resetting the SIL9135
89	HDMI1_EN	O	Output for HDMI1 EEPROM control data
90	HDMI2_EN	O	Output for HDMI2 EEPROM control data
91	HDMI3_EN	O	Output for HDMI3 EEPROM control data
92	HDMI4_EN	O	Output for HDMI4 EEPROM control data
93	HDMI_CSCL	O	Commnuication clock output for SIL9134/SIL9135
94	HDMI_CSDA	I/O	Commnuication data in/output for SIL9134/SIL9135
95	EDID_CSCL	O	Commnuication clock output for HDMI1/2/3/4/ EEPROM
96	AVSS		GROUND
97	EDID_CSDA	I/O	Commnuication data in/output for HDMI1/2/3/4/ EEPROM
98	VREF		+3.3V power supply
99	AVCC		+3.3V power supply
100	S0_151_U	O	Output for HC151 control data

4. Key Matrix Table

IN OUT	KEY1	KEY2	KEY3
0V(± 0.15)	MEMO/ENTER SW315	SPEAKER(ON/OFF) SW310	ON/STANDBY SW301
0.4V(± 0.15)	ROOM2 SW316	SETUP SW311	PURE AUDIO SW302
0.7V(± 0.15)	TUNE - SW317	CH.LEVEL SW312	SURROUND SW303
1V(± 0.15)	TUNE + SW318	CONTROL ▼ SW313	STEREO SW304
1.3V(± 0.15)	PRESET - SW319	CONTROL ▲ SW314	AUDIO ASSIGN SW305
1.6V(± 0.15)	PRESET + SW320		VIDEO SW306
1.9V(± 0.15)			AUDIO SW307
2.3V(± 0.15)			EXT.IN SW308
2.6V(± 0.15)			TUNER SW309

ALIGNMENT PROCEDURES

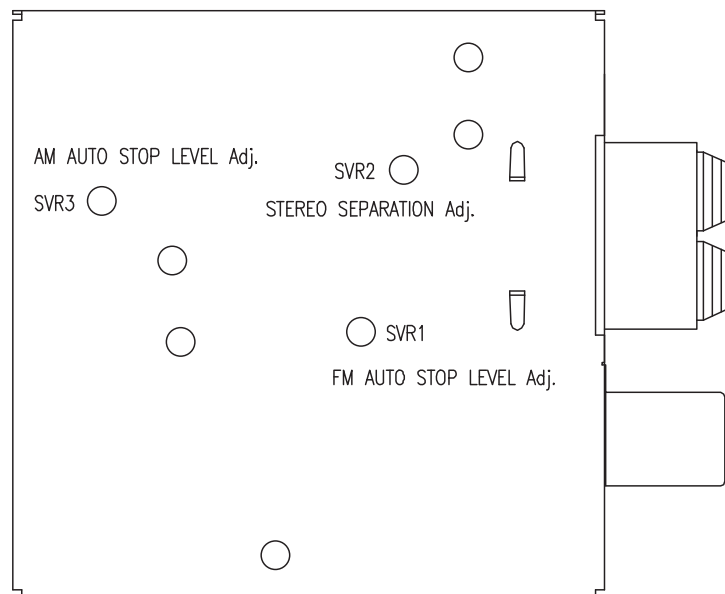
1. Electrical specification.

NO.	ITEMS	SPECIFICATION	
		MW	FM
1-1	Local OSC	Above the receiving Frequency	
1-2	Frequency cover range(A/K)	520 ~ 1710kHz	87.5 ~ 108.0MHz
	Frequency cover range(RDS)	522 ~ 1620kHz	
1-3	Standard supply voltage	12(+/- 0.5V)	
1-4	FM Antenna input Impedance	75 ohm	
1-5	AM Loop Antenna	20uH(1kHz)	

2. Electrical Characteristics.

NO	TEST ITEMS	TEST CONDITION	T.P.	T.L.	MOD.	Specification	UNIT	Adjustment
				dBu	kHz,%			
FM	AF Output Level	47kΩ Load	98.1	60	75	600±100	mV	Non Adjust
	Auto Stop Sens.		98.1	--	75	20 ± 5	dBu	SVR1
	Stereo Separation	1kHz	98.1	60	75	35 min	dB	SVR2
AM	AF Output Level(A/K)	47kΩ Load	1000	74	30	200 ± 50	mV	Non Adjust
	Auto Stop Level		1000	--	30	55 ±15	dBu	SVR3
	AF Output Level(RDS)		999	74	30	200 ± 50	mV	Non Adjust
	Auto Stop Level		999	--	30	55 ±15	dBu	SVR3

3. Adjust Point.



TROUBLESHOOTING

Symptom	Cause and Remedy	Ref No.
Power On Failure 1. FLT does not light up 2. ST-BY LED does not light up	A) AC-Cord check B) Power Trans (Main/ST-BY) check C) Fuse's disconnection check D) Connector's disconnection or disjunction Change or close insertion of the connector E) Inferior Stany-By switch F) μ -COM I.C & Resonator check 1. μ -COM IC B+(3.3)V check 2. μ -COM clock pulse check 3. FLT Drive Vcc(+3.3, +36)V check 3. FLT Drive clock pulse check	FUSE(F001,002) CN001,CP(001,002,003,155) CN001,CP(001,002,003,155) SW(321) IC101PinNo.(90,91,92) XTAL(102) FLT301PinNo.(55,56) IC101PinNo.(3,4,5,6)
Fuse Disconnection (Power On)	A) Inferior transformer B) AMP Drive Transistor out (POWER TR) C) AMP Drive I.C out (POWER TR) D)Voltage check 1.B+(+44.7)V, B-(-44.7)V	Q(205FL~SBR,206FL~SBR) Q(204FL~SBR)
Key Disorder	A) KEY's being pushed check B) KEY Signal input components inferior C) KEY data check D) μ -COM I.C or Resonator inferior 1. μ -COM IC B+(3.3)V check 2. μ -COM clock pulse check	SW(301~320) R(128~130) IC101PinNo.(16,62,99) ICNo.(101) IC101PinNo.(90,91,92) XTAL(102)
Power Off in 2~3 sec. after Power On	A) Drive I.C out (POWER TR) B) Drive Transistor out (POWER TR) C) Protection circuit check 1. Output DC check 2. μ -COM I.C protection terminal check D) SLEEP MODE cancellation	Q(205FL~SBR,206FL~SBR) Q(204FL~SBR) Q160,Q161,Q162BASE IC101PinNo.(95)
Bump Sound (During Input-Select Switch's change)	A) MUTE B+ (3.3)V check B) FRONT Mute transistor's out and inferior.(speaker/preout) μ -Com Main Mute Control PORT check(speaker/preout) C) CENTER Mute transistor's out and inferior.(speaker/preout) μ -Com Main Mute Control PORT check(speaker/preout) D) SURROUND Mute transistor's out and inferior.(speaker/preout) μ -Com Main Mute Control PORT check(speaker/preout) E) SURROUND BACK Mute transistor's out and inferior.(speaker/preout) μ -Com Main Mute Control PORT check(speaker/preout) F) SUB WOOFER Mute transistor's out and inferior.(preout) μ -Com Main Mute Control PORT check(preout) G) ROOM2 Mute transistor's out and inferior.(speaker/preout) μ -Com Main Mute Control PORT check(speaker/preout)	D167 Q(415F,406FF2) IC101PinNo.(27,39) Q(406C,406C2) IC101PinNo.(26,34) Q(412S,406SS2) IC101PinNo.(24,37) Q(409SB,406SB2) IC101PinNo.(25,33) Q(406SW2) IC101PinNo.(38) Q(418) IC101PinNo.(40)
Headphone output failure	A) HEADPHONE JACK connection inferior B) Connect wire check	JACK(306) CN(705),CP(204)

Symptom	Cause and Remedy	Ref No.
	Component dead check	Q(208),RLY(201)
Bass/Treble Control Failure	A) Volume NIW1197 VDD (± 7.5)V check	IC405PinNo.(16,18)
	B) Resister/Capacitor correction figure check	IC405PinNo.(9,10,11,12,13,14,15)
	A) Volume NIW1194 VDD (± 7.5)V check	IC420PinNo.(21,22)
	B) Resister/Capacitor correction figure check	IC420PinNo.(14,15,16,17,18,19)
AMP Sound dead	A) Connector disconnection & disjunction. Change or close insertion of the connection	CP(202,203,205,401,402)
1."FRONT"Channel dead	B) Speaker wire's disjunction. Close insertion of the speaker wire	
2."CENTER"Channel dead	C) Signal Mute TR's inferior	Q(Q415F,406FF2,406C,406C2,414S)
3."SURROUND"Channel dead		Q(406S2,409SB,406SB2,406SW2,418)
4."SURROUND BACK"Channel dead	D) Relay TR's inferior	Q(401~405)
5."ROOM2"Channel dead	E) Signal switching IC check 1.Switching & Volume IC voltage check(± 12 , ± 7.5)V 2.Switching & Volume IC control data check	IC(411,405,420) IC411PinNo.(14,16,17) IC405PinNo.(68,69,70) IC420PinNo.(10,11,12)
AC-3/DTS/HDMI failure	A) IC Regulator check Main board : DSP(5)V, HDMI(+5)V Hdmi board : IN(+3.3)V, OUT(+1.8)V IN(+5)V, OUT(+3.3)V IN(+5)V, OUT(+3.3, +1.8)V	IC(165,166) IC(3005) IC(1002,3006) IC(2009,3002,3003,5011,5012)
DSP Sound Mode	B) DIR check 1.osc check 2.RMCK, RBCK, RLCK, RDATA check 3.Micom interface port check	IC2002 ICPinNo.(7) ICPinNo.(10,15,16,17) ICPinNo.(20,21,22,23)
	C) DSP check 1.osc check 2.INTEREQ check 3.DIGITAL : LRCK, SCLK, DA 4.ANALOG : LRCK, SCLK, DA0-DA4 5.74ALVC244 switching check 6.Micom interface port check 7.EEPROM interface port check	IC2004 ICPinNo.(123,124) ICPinNo.(100) ICPinNo.(140,141,142) ICPinNo.(138,137,135,134,132,131) IC(2001,2005,2006) ICPinNo.(93,95,96,99) ICPinNo.103,105,106)
	D) D/A check 1.MCLK, BCLK, LRCK, SDATA check 2.Signal output check	IC2002 ICPinNo.(77,18,19,25,26,27,28) ICPinNo.(35,37,39,41,43,45,47,49)
	E) HDMI check 1.HDMI INPUT(DDC) interface port check 2.HDMI OUTPUT(DDC) interface port check 3.Micom interface port check	IC5001PinNo.(28,29,33,34) IC5020PinNo.(46,47) IC(5001,5003,5020,3008) IC5001PinNo.(26,27,100,102) IC5003PinNo.(21,22,23) IC5020PinNo.(24,25,48,49) IC3008PinNo.(45,46,47)

Symptom	Cause and Remedy	Ref No.
	4.Hot Plug detect check 5.HDMI/ANALOG input video sync check(CLK, ID, VSYNC, HSYNC) 6.HDMI output video sync check	JACK(5001,5002,5003,5004,5005) JACKPinNo.(9) IC3008PinNo.(1,2,3,4) IC5020PinNo.(1,2,3,88)
XM failure	A) IC Regulator check 1.Main board : XM(5.3)V XM(5)V 2.Hdmi board : IN(5)V, OUT(+3.3)V 3.IC Voltage check(+3.3V) 4.IC Voltage check(+5V) B) XM Regulator control check 1.Micom interface port check C) XM IC control check D) Micom interface port check E) Audio data check.(MCLK/BICK/SDTI.LRCK) F) Audio output check.(L/R) G) XM mute control check	IC(112) IC(167) IC(4006) IC4001PinNo.(4,817,20,27,33,40,46) IC4004PinNo.(14) IC1001PinNo.(47) IC4001PinNo.(18,19,22,24) IC4001PinNo.(3,5,9,11,14) IC4004PinNo.(5,6,7,8) IC4004PinNo.(1,2,3,4) IC4004PinNo.(9,10,11,12) IC4004PinNo.(16) IC1001PinNo.(10)
Video output dead	A) CVBS Input check 1.IC Voltage check(+5V) 2.IC Control PORT check 3.Micom interface port check 4.Micom interfaceCVBS input detect port check 5.Signal data input check B) S-VIDEO Input check 1.IC Voltage check(+5V) 2.IC Control PORT check 3.Micom interface port check 4.Micom interfaceS-VIDEO input detect port check 5.Signal data input check C) COMPONENT input check 1.IC Voltage check(+5V) 2.IC Voltage check(+9V) 3.Micom interface port check 4.Micom interface Component input detect port check	IC811PinNo.(13) IC810,814PinNo.(16) IC816PinNo.(16) IC811PinNo.(6,8,9,11,15) IC810,814PinNo.(9,10,11) IC816PinNo.(2,3) IC101PinNo.(57) IC3007PinNo.(73) IC808,809PinNo.(13) IC810,814PinNo.(16) IC816PinNo.(16) IC808,809PinNo.(6,8,9,11,15) IC810,814PinNo.(9,10,11) IC816PinNo.(2,3) IC101PinNo.(60) IC3007PinNo.(71,75) IC821PinNo.(13) IC815PinNo.(16) IC817PinNo.(1,7,9,20,37,41,45) IC821PinNo.(12) IC815PinNo.(9,10) IC817PinNo.(15,16) IC101PinNo.(59)

Symptom	Cause and Remedy	Ref No.
	5.Signal data input check D) CVBS, S-VIDEO, COMPONENT(480I) output check 1.IC Voltage check(+1.8)V 2.IC Voltage check(+3.3)V 3.Micom interface port check 4.Signal data output check 1.CVBS 2.S-VIDEO 3.COMPONENT E) COMPONENT(480P/576P~1080P) Up-scale output check 1.IC Voltage check(+1.8)V 2.IC Voltage check(+3.3)V 2.IC Voltage check(±5)V 3.IC Voltage check(+9V) 4.Micom interface port check 5.Signal data output check	IC3007PinNo.(72,74,75,76) IC3007PinNo.(12,39,47,48,90) IC3007PinNo.(6,18,63) IC3011PinNo.(17,36,41,46) IC3007PinNo.(16,19,78,81,82) IC3011PinNo.(132,33,34) IC3011PinNo.(44) IC3011PinNo.(47,48) IC3011PinNo.(39,40,43) IC3007PinNo.(12,39,47,48,90) IC3008PinNo.(16,36,68,80,96,123,138,168) IC3007PinNo.(6,18,63) IC3008PinNo.(8,30,48,62,88,112,128) '(146,193,160,161,164,,165,171) '(174,177,183,186,187,193,197) IC3001PinNo.(9,12) IC817PinNo.(1,7,9,20,37,41,45) IC3007PinNo.(16,19,78,81,82) IC3008PinNo.(45,46,47) IC3001PinNo.(7,11,14) IC817PinNo.(15,16) IC3008PinNo.(170,173,176) IC3001PinNo.(8,10,13) IC817PinNo.(30,32,34)
OSD Failure	A) OSD IC check 1.OSD IC Voltage check(+5V) 2. OSD IC OSC check(G.C :17.734MHz, A/DOM:14.318MHz) 3. OSD IC TEXT OSC check 4. OSD SYNC IN check 5.Micom interface port check	IC812PinNo.(12,24) IC812PinNo.(2,3) IC812PinNo.(6,7) IC812PinNo.(17) IC812PinNo.(9,10,11)
Remote Controller Failure	A) Battery check B) μ-Com port & Resonator inferior 1.μ-Com port clock pulse check 2.RMC/u-COM Voltage check(+3.3V) 3.RMC clock pulse check	IC101PinNo.(7) REC(301)PinNo.(3)
RF-Remote Controller Failure	A) Battery check(RF CONDITION) B) RF REMOCON PAIRING MODE SETTING 1.μ-Com port clock pulse check C) μ-Com port & Resonator inferior 1.μ-Com port clock pulse check 2.Wire connection pin check	IC101PinNo.(30) IC101PinNo.(7) CN(157)
IR IN/OUT Controller Failure	A) IR IN/OUT line disconnection check	

Symptom	Cause and Remedy	Ref No.
	1.IR IN/OUT circuit check B) Micom interface Port check 1.u-COM Voltage check(+3.3V) 2.μ-Com port clock pulse check C) RF-Remote Controller IR OUT check 1."RF REMOCON PAIRING MODE SETTING" μ-Com port check 2.Wire connection pin check 3.RF-Remote IR OUT circuit check	IC101PinNo.(7) IC101PinNo.(30) CN(157)
FM Failure	A) FM MUTE adjustment inferior B) FRONT-END inferior C) FM DET COIL inferior D) FCC Cable connect check E) PLL IC check 1.PLL IC B+ check 2.PLL control data check F) Level shift IC voltage chck Voltage check(+3.3V) Voltage check(+5V) G) Communication port check 1) MUTE, PLL DATA IN/OUT, CLK, CE PORT CHECK 2) VCC Check (12V) H) RDS Failure 1.RDS IC Voltage check(+3.3V) 2. IC OSC check(4.332MHz) 3. RDS DATA input check 4. Communication port check	CP(121) IC109(20) IC110(20) IC101PinNo.(70,71,72,77,78) IC121PinNo.(8) IC103PinNo.(5) IC103PinNo.(13,14) IC103PinNo.(4) IC103PinNo.(1,2,15,16)
AM Failure	A) AM V.T voltage inferior B) FCC Cable connect check C) PLL IC check 1.PLL IC B+ check 2.PLL control data check F) Level shift IC voltage check Voltage check(+3.3V) Voltage check(+5V) G) Communication port check 1) MUTE, PLL DATA IN/OUT, CLK, CE PORT CHECK 2) VCC Check (12V)	CP(121) IC109(20) IC110(20) IC101PinNo.(70,71,72,77,78) IC121PinNo.(8)
Stereo Effect Failure Stereo does not light up	A) FM DET COIL Inferior B) MPX IC inferior 1.MPX IC B+ check	

Symptom	Cause and Remedy	Ref No.
	2.MPX control data check C) STEREO sdjustment inferior. D) FM MUTE adjustment inferior E) MICOM IC & Resonator inferior. 1.u-COM Voltage check(+3.3V) 2. μ-Com port clock pulse check(TUNED/STEREO)	IC101PinNo.(68,69)
Tuner Sound Dead 1.L / R Channel dead 2.LEFT Channel dead 3.RIGHT Channel dead	A) MUTE TR inferior B) Connector's disconnection or disjunction. Change or CLOSE INSERTION OF THE CONNECTOR. C) AM/FM IF IC check 1.Signal IN,OUT terminal 2.IC driving voltage check. D) FM DET COIL inferior. E) AM IFT COIL inferior. F) MPX IC check 1.Signal IN/OUT terminal. 2.IC driving voltage check.	

MECHANICAL PARTS LIST

Model No.: R-872

♣ Parts without Parts No. are not supplied.
Parts without version mentioned are common ones.

⦿ A → USA(120V/60Hz), G → RDS(230V/50Hz), K → KOREA(220V/60Hz)

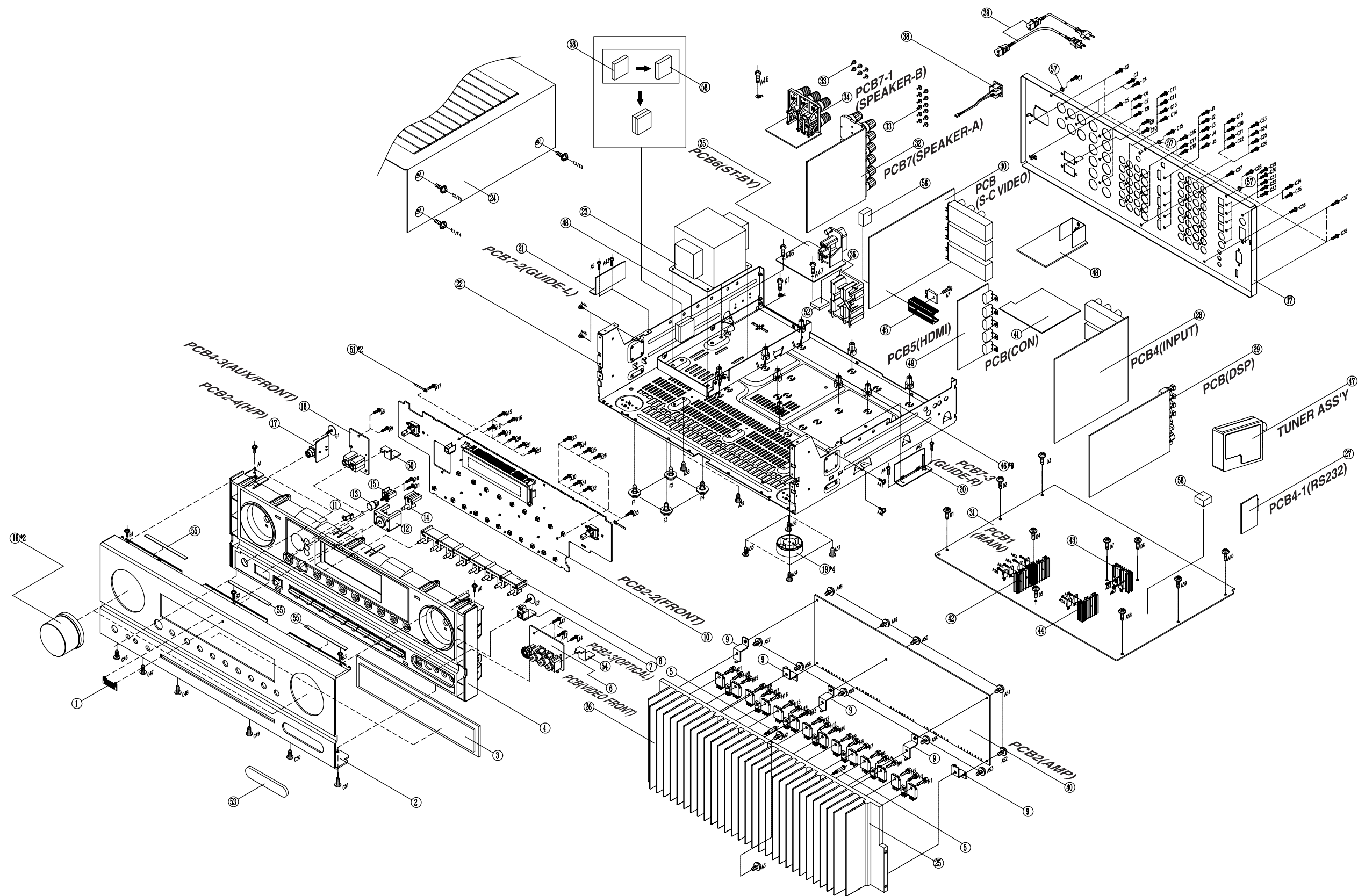
No.	DESCRIPTION	Q'TY	PARTS No.	VER.
	PACKAGE			
	SHEET, (XM Radio)	1	5227000000200S	A
	SHEET, Quick Start Guide	1	5227000000410S	A/G
	INSTRUCTION MANUAL	1	5707000000780S	G
	INSTRUCTION MANUAL	1	5707000000790S	A
	INSTRUCTION MANUAL	1	5707000001020S	K
	WARRANTY CARD	1	5727000000210S	A
	BOX,INNER CARTON	1	6017210020090S	
	CUSHION,SNOW(EPS WHITE)	1	6230210134000S	
	PE,SHEET(750*1460/SET)	1	6327040059000S	
	POLY BAG, 260*390*0.03T SILK	1	6337000240010S	
	REMOCON, RC-120	1	8300245700010S	
	REMOCON, LRC122	1	8300651500050S	K
	REMOCON, LRC122RF	1	8300651500080S	A
	REMOCON, LRC122E	1	8300651500090S	G
	ANTENNA, ROD(FS-2400N)	1	E600240010010S	A
	ANTENNA,WIRE(FM)	1	E605010070001S	
	ANTENNA,WIRE LOOP(AM)	1	E605010110010S	
	BATTERY, AAA	4	G670001R50220S	A/G
	BATTERY, AAA	4	G670001R50250S	K
	MIC CONDENSER, AUTO SETUP	1	M040000300090S	
CABINET & CHASSIS				
1	BADGE, Sherwood NEWCASTLE	1	5637210058000S	A/G
	BADGE, Sherwood GOLD	1	5637210058030S	K
2	PANEL, FRONT	1	3067210220050S	K
	PANEL, FRONT	1	3067210220060S	A
	PANEL, FRONT	1	3067210220070S	G
3	WINDOW, DISPLAY	1	5077211033031S	G
	WINDOW, DISPLAY	1	5077211033041S	A
	WINDOW, DISPLAY	1	5077211033051S	K
4	BODY, FRONT	1	3417210141200S	K
	BODY, FRONT	1	3417210141300S	A/G
5	SCREW, GUIDE	2	1507041456010S	
6	PCB ASS'Y, VIDEO FRONT	1		
7	PCB ASS'Y, OPTICAL	1		
8	BUTTON, 8 KEY	1	5097212141000SZ	A/G
	BUTTON, 8 KEY	1	5097212141010SZ	K
9	BRACKET, H SINK	5	4010056906010S	
10	PCB ASS'Y, FRONT	1		
11	INDICATOR, STAND-BY	1	5160040643010S	
12	LENS, STANDBY	1	3710210413000S	
13	KNOB ASS'Y, POWER	1	5088210818020SZ	K
	KNOB ASS'Y, POWER	1	5088210818030SZ	A/G
14	BUTTON, STANDBY	1	5097212111200SZ	A/G
	BUTTON, STANDBY	1	5097212111210SZ	K

No.	DESCRIPTION	Q'TY	PARTS No.	VER.
15	PCB ASS'Y, POWER	1		
16	KNOB ASS'Y, VOLUME	2	5088210828020SZ	K
	KNOB ASS'Y, VOLUME	2	5088210828030SZ	A/G
17	PCB ASS'Y, PHONE JACK	1		
18	PCB ASS'Y, AUX FRONT	1		
19	FOOT ASS'Y, Gold Stamp	4	4008210221010SZ	
20	PCB ASS'Y, GUIDE(R)	1		
21	PCB ASS'Y, GUIDE(L)	1		
22	CHASSIS ASS'Y,	1	3208210276400S	A/G
	CHASSIS ASS'Y,	1	3208210276600S	K
23	POWER TRANS, 230V/50Hz	1	8200960750100S	G
	POWER TRANS, 120V/60Hz	1	8200960750110S	A
	POWER TRANS, 220V/50,60Hz	1	8200960750120S	K
24	CABINET, TOP	1	3000210076500S	K
	CABINET, TOP	1	3000210076800S	A/G
25	HEAT SINK, MAIN - L	1	2120211128000S	
26	HEAT SINK, MAIN - R	1	2120211118000S	
27	PCB ASS'Y, RS232	1		
28	PCB ASS'Y, INPUT	1		
29	PCB ASS'Y, DSP	1		
30	PCB ASS'Y, S-C VIDEO B'D	1		
31	PCB ASS'Y, MAIN	1		
32	PCB ASS'Y, SPK(A)	1		
33	BUSHING, TERMINAL	18	2410040353010S	G/K
34	PCB ASS'Y, SPK(B)	1		
35	PCB ASS'Y, STAND-BY	1		
36	POWER, AC OUTLET	1	G435040070000S	A
	POWER, AC OUTLET	1	G435040110000S	G
37	CHASSIS, BACK	1	3207212126000S	G
	CHASSIS, BACK	1	3207212126100S	A
	CHASSIS, BACK	1	3207212126200S	K
38	SOCKET,POWER AC INLET	1	G430040550010S	A/G
	SOCKET,POWER AC INLET	1	G430040550021S	K
39	CORD ASS'Y, 13A/125V	1	L068125130010S	A
	CORD ASS'Y, 16A/250V	1	L068250160020S	G
	CORD ASS'Y, 16A/250V	1	L068250160030S	K
40	PCB ASS'Y, AMP	1		
41	PCB ASS'Y, CON	1		
42	HEAT SINK, AL6063(Ext)	1	2120210868000S	
43	HEAT SINK, AL 46*12*70	1	2120211188000S	A
	HEAT SINK, AL 46*12*50	1	2120211198000S	G/K
44	HEAT SINK, AL 71X19.5X100	1	2120210958020S	
45	HEAT SINK, AL6063 40MM/SUB	1	2120000818020S	
46	SPACER, KNOB	9	4300040561010S	
47	TUNER,FM/AM	1	E903014000020S	A/K
	TUNER,FM/AM	1	E903014100030S	G
48	MODULE, RF RECEIVER 2.4GHz	1	E100060000012S	A
49	PCB ASS'Y, HDMI	1		

No.	DESCRIPTION	Q'TY	PARTS No.	VER.
50	PLATE, PTE t0.3 A4/EARTH AUX	1	4470211346000S	
51	CLAMP	2	4330000310000S	
52	CUSHION, PCB	1	4050210415000S	K
53	COVER, RCA	1	4317212931100S	K
	COVER, RCA	1	4317212931300S	A/G
54	PLATE, SPTE t0.3 A4/EARTH VIDEO	1	4470211336000S	
55	FELT, STRIP	3	2690040057010S	
56	CUSHION, TRANS	2	4050211345000S	
57	WASHER, t1.0/PC	3	1530210102000S	
58	CUSHION, 8t 49x45 BK/SIDE	2	4050211505000S	
SCREWS				
A	SCREW, +2S 3*8 B-TYPE ZNW/BH	62	B020030081B10S	
B	SCREW, +2S 3*8 B-TYPE BK/FH	3	B020030083F10S	
C	SCREW, +2S 3*10 B-TYPE(DOT) BK/BH	47	B020030103B11S	A
	SCREW, +2S 3*10 B-TYPE(DOT) BK/BH	46	B020030103B11S	G
	SCREW, +2S 3*10 B-TYPE(DOT) BK/BH	44	B020030103B11S	K
D	SCREW, 3X18 B-TYPE ZNW/BH	7	B020030181B10S	
E	SCREW, +2S 4*8 B-TYPE BK/BH	6	B020040083B10S	
F	SCREW, +3S 4*10 P+S-WASHER ZNW/BH	4	B028940101B10S	
G	SCREW, +2S 3*8 ZnY WASHER PI12	2	1500001456010S	
H	SCREW, +2S 3*16+S-WASHER ZNW/HH	21	1507041146010S	
J	SCREW, +3S 3*8 BK/BH	5	B020930083B10S	
K	SCREW, +M M4.0*0.75P*8L NI/BH	1	B000040084B10S	K
MISCELLANEOUS				
Q206C	2SB1647Y, PNP	1	J5011647Y0170S	
Q206FL	2SB1647Y, PNP	1	J5011647Y0170S	
Q206FR	2SB1647Y, PNP	1	J5011647Y0170S	
Q206SBL	2SB1647Y, PNP	1	J5011647Y0170S	
Q206SBR	2SB1647Y, PNP	1	J5011647Y0170S	
Q206SL	2SB1647Y, PNP	1	J5011647Y0170S	
Q206SR	2SB1647Y, PNP	1	J5011647Y0170S	
Q204C	2SC3964, NPN	1	J502396400000S	
Q204FL	2SC3964, NPN	1	J502396400000S	
Q204FR	2SC3964, NPN	1	J502396400000S	
Q204SBL	2SC3964, NPN	1	J502396400000S	
Q204SBR	2SC3964, NPN	1	J502396400000S	
Q204SL	2SC3964, NPN	1	J502396400000S	
Q204SR	2SC3964, NPN	1	J502396400000S	
Q205C	2SD2560Y, NPN	1	J5032560Y0170S	
Q205FL	2SD2560Y, NPN	1	J5032560Y0170S	
Q205FR	2SD2560Y, NPN	1	J5032560Y0170S	
Q205SBL	2SD2560Y, NPN	1	J5032560Y0170S	
Q205SBR	2SD2560Y, NPN	1	J5032560Y0170S	
Q205SL	2SD2560Y, NPN	1	J5032560Y0170S	
Q205SR	2SD2560Y, NPN	1	J5032560Y0170S	

EXPLODED VIEW

Model No.: R-872



ELECTRICAL PARTS LIST

Model No.: R-872

♣ Parts without Parts No. are not supplied.
Parts without version mentioned are common ones.

⊙ A → USA(120V/60Hz), G → RDS(230V/50Hz), K → KOREA(220V/60Hz)

REF No.	DESCRIPTION					Q'TY	PARTS No.	VER.
PCB1	ASSEMBLY P.C.BOARD MAIN						7025HK0702010	G
PCB1	ASSEMBLY P.C.BOARD MAIN						7025HK0702020	A
PCB1	ASSEMBLY P.C.BOARD MAIN						7025HK0702030	K
	CAPACITORS							
C103	CERAMIC CHIP HIK	0.047 uF	16V	K	1		D011473773160S	
C104/C105	CERAMIC CHIP T.C	0.01 uF	50V	K	2		D010103777160S	
C106/C107	CERAMIC CHIP T.C	15 pF	50V	J	2		D010150167160S	G
C108	CERAMIC CHIP T.C	330 pF	50V	J	1		D010331167160S	G
C109	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C110	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	G
C111-C116	CERAMIC CHIP T.C	100 pF	50V	J	6		D010101167160S	
C117	CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	
C118	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	G
C119	CERAMIC CHIP T.C	560 pF	50V	J	1		D010561167160S	G
C120/C121	CERAMIC CHIP T.C	0.01 uF	50V	K	2		D010103777160S	
C122	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C123	ELECT GE 85C	100 uF	10V	M	1		D040101082070S	
C124	ELECT GE 85C	4.7 uF	50V	M	1		D0404R7087250S	
C125	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	G
C126	ELECT GE 85C	47 uF	16V	M	1		D040470083080S	G
C127	ELECT GE 85C	0.1 uF	50V	M	1		D040R10087080S	
C128/C129	ELECT GE 85C	1 uF	50V	M	2		D040010087150S	
C130/C131	ELECT GE 85C	100 uF	10V	M	2		D040101082070S	
C155	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C156	ELECT GE 85C	1 uF	50V	M	1		D040010087150S	
C157	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C158	ELECT GE 85C	1 uF	50V	M	1		D040010087150S	
C159	ELECT GE 85C	2.2 uF	50V	M	1		D0402R2087160S	
C160	CERAMIC HIK DISC	0.01 uF	50V	K	1		D004103277050S	
C161	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C162	CERAMIC HIK DISC	0.01 uF	50V	K	1		D004103277050S	
C163	ELECT GE 85C	22 uF	50V	M	1		D040220087060S	
C164	FILM POLYESTER	0.1 uF	250V	K	1		D02010407H080S	
C165	ELECT GE 85C	12000 uF	63V	M	1		D040123088370S	
C166-C168	CERAMIC SEMI DISC	0.1 uF	50V	Z	3		D006104597050S	
C169/C170	FILM POLYESTER	0.1 uF	250V	K	2		D02010407H080S	
C171	ELECT GE 85C	330 uF	63V	M	1		D040331088230S	
C172/C173	ELECT GE 85C	1 uF	50V	M	2		D040010087150S	
C174	ELECT GE 85C	12000 uF	63V	M	1		D040123088370S	
C175	FILM POLYESTER	0.1 uF	250V	K	1		D02010407H080S	
C176	ELECT GE 85C	100 uF	10V	M	1		D040101082070S	
C178/C179	ELECT GE 85C	470 uF	10V	M	2		D040471082060S	
C180	FILM POLYESTER	0.1 uF	250V	K	1		D02010407H080S	
C181	ELECT GE 85C	47 uF	50V	M	1		D040470087070S	
C182	ELECT GE 85C	1 uF	50V	M	1		D040010087150S	
C183	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C184	ELECT GE 85C	1 uF	50V	M	1		D040010087150S	
C185	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C187	ELECT GE 85C	1 uF	50V	M	1		D040010087150S	
C188/C189	FILM POLYESTER	0.047 uF	100V	J	2		D02047306C060S	
C190	ELECT GE 85C	4700 uF	25V	M	1		D040472084020S	
C191	ELECT GE 85C	1 uF	50V	M	1		D040010087150S	
C192	FILM POLYESTER	0.047 uF	100V	J	1		D02047306C060S	
C193	ELECT GE 85C	2200 uF	25V	M	1		D040222084030S	
C194	ELECT GE 85C	1 uF	50V	M	1		D040010087150S	
C195/C196	FILM POLYESTER	0.047 uF	100V	J	2		D02047306C060S	
C197	ELECT GE 85C	4700 uF	16V	M	1		D040472083200S	
C198	ELECT GE 85C	1 uF	50V	M	1		D040010087150S	
C199	FILM POLYESTER	0.047 uF	100V	J	1		D02047306C060S	
C200	ELECT GE 85C	1 uF	50V	M	1		D040010087150S	
C201	ELECT GE 85C	1000 uF	16V	M	1		D040102083030S	
C202	ELECT GE 85C	1 uF	50V	M	1		D040010087150S	
C203	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	

REF No.	DESCRIPTION					Q'TY	PARTS No.	VER.
C204	ELECT GE 85C	470 uF	10V	M	1		D040471082060S	
C205/C206	FILM POLYESTER	0.047 uF	100V	J	2		D02047306C060S	
C207	ELECT GE 85C	6800 uF	16V	M	1		D040682083000S	
C208	FILM POLYESTER	0.047 uF	100V	J	1		D02047306C060S	
C211	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C212	ELECT GE 85C	1000 uF	6.3V	M	1		D040102081060S	
C213	ELECT GE 85C	6800 uF	16V	M	1		D040682083000S	
C214	ELECT GE 85C	1 uF	50V	M	1		D040010087150S	
C217	FILM POLYESTER	0.047 uF	100V	J	1		D02047306C060S	A
C218	ELECT GE 85C	18000 uF	16V	M	1		D040183083001S	A
C219	ELECT GE 85C	1 uF	50V	M	1		D040010087150S	A
C220/C221	ELECT GE 85C	4.7 uF	50V	M	2		D0404R7087250S	
C222	ELECT GE 85C	1000 uF	16V	M	1		D040102083030S	A
C223	CERAMIC CHIP HIK	1000 pF	50V	K	1		D011102777160S	A
C224	ELECT GE 85C	1 uF	50V	M	1		D040010087150S	A
C225/C226	CERAMIC CHIP HIK	0.1 uF	50V	K	2		D011104577160S	
	CONNECTORS							
CN157	CN.WIRE 160MM (5P)				1		L000161050060S	A
CP102/CP103	CN.WAFER 2.0MM (20P)				2		L101100042010S	
CP104	CN.WAFER 2.0MM (4P)				1		L101100040410S	
CP105	CN.WAFER 2.0MM (8P)				1		L101100040810S	
CP106	CN.WAFER 2.0MM (6P)				1		L101100040610S	
CP107/CP108	CN.WAFER 2.0MM (10P)				2		L101100041010S	
CP109	CN.WAFER 2.0MM (16P)				1		L101100041610S	
CP110	CN.WAFER 2.0MM (18P)				1		L101100041810S	
CP111	CN.WAFER 2.0MM (4P)				1		L101100040410S	
CP112	CN.WAFER 2.0MM (5P)				1		L101100040510S	
CP115	CN.WAFER 2.0MM (20P)				1		L101100042010S	
CP116	CN.WAFER 2.0MM (4P)				1		L101100040410S	
CP117	CN.WAFER 2.0MM (10P)				1		L101100041010S	
CP118	CN.WAFER 2.0MM (6P)				1		L101100040610S	
CP119	CN.WAFER 2.0MM (14P)				1		L101100041410S	
CP120	CN.WAFER 2.0MM (8P)				1		L101100040810S	
CP121	CN.FPC 1.25MM (15P)				1		L131111500010S	
CP122	CN.FPC 1.25MM (21P)				1		L131112100010S	
CP154	CN.WAFER 2.5MM (10P)				1		L102526701000S	
CP155	CN.WAFER 2.0MM (5P)				1		L101220050000S	
CP157	CN.WAFER 2.5MM (6P)				1		L102526700600S	
CP158	CN.WAFER 3.96MM				1		L104353130360S	
CP159	CN.WAFER 2.5MM (3P)				1		L102526700300S	A
CP501	CN.WAFER 7.92MM				1		L108353280360S	
	DIODES							
D101/D102	KDS4148U, SWITCHING CHIP				2		K005041480030S	
D103	KDS4148U, SWITCHING CHIP				1		K005041480030S	G
D104-D106	KDS4148U, SWITCHING CHIP				3		K005041480030S	
D157	1SS133T, SWITCHING				1		K000013300520S	
D161-D165	1SS133T, SWITCHING				5		K000013300520S	
D166	1N4007, SWITCHING				1		K000400700010S	
D167	1SS133T, SWITCHING				1		K000013300520S	
D168/D169	RECTIFIER BRIDGE				2		K047604000020S	
D170/D171	1N4007, SWITCHING				2		K000400700010S	
D173-D178	1N4007, SWITCHING				6		K000400700010S	
D179	1SS133T, SWITCHING				1		K000013300520S	
D180	RECTIFIER BRIDGE				1		K047604000020S	
D181	1SS133T, SWITCHING				1		K000013300520S	
D182	1SS133T, SWITCHING				1		K000013300520S	A
D183	RECTIFIER BRIDGE				1		K047604000020S	
D184/D185	1N4007, SWITCHING				2		K000400700010S	A
D187	1N4007, SWITCHING				1		K000400700010S	A
	INTEGRATED CIRCUITS							
IC101	M3062LFGPPF, CPU				1		J020306200020S	
IC102	24LC16B, MEMORY-EEPROM				1		J000241600050S	
IC103	LC72725KV, LINEAR RF				1		J124727250010S	G
IC109	74LCX244MTCX, LOGIC				1		J040742440180S	
IC110	MM74HCT244, LOGIC				1		J040742440190S	
IC112	PQ20RX11J00H, LINEAR-REGULATOR				1		J126201100020S	A
IC157	IL1117_5.0, LINEAR-REGULATOR				1		J126111750010S	
IC158	IL1117-3.3, LINEAR-REGULATOR				1		J126111700041S	

REF No.	DESCRIPTION					Q'TY	PARTS No.	VER.
IC160/IC161	KIA7812API, LINEAR-REGULATOR					2	J126781200040S	
IC162	KIA7912PI, LINEAR-REGULATOR					1	J126791200060S	
IC163	KIA7805API, LINEAR-REGULATOR					1	J126780500110S	
IC164	KIA7905PI, LINEAR-REGULATOR					1	J126790500070S	
IC165/IC166	KIA78R05PI, LINEAR-REGULATOR					2	J126780500370S	
IC167	KIA7805API, LINEAR-REGULATOR					1	J126780500110S	A
	TRANSISTORS							
Q101	KTC3875Y(ALY), NPN					1	J5223875Y0210S	
Q102	KTA1281Y, PNP					1	J5001281Y0010S	
Q103/Q104	KTC2875B(MB), NPN					2	J5222875B0010S	
Q105	KRA102S(PB), PNP					1	J520010200210S	
Q106/Q107	KRC105S(NE), NPN					2	J522010500210S	
Q108	KTA1281Y, PNP					1	J5001281Y0010S	
Q109	KRC105S(NE), NPN					1	J522010500210S	
Q110/Q111	KTC2875B(MB), NPN					2	J5222875B0010S	
Q155	KTC2875B(MB), NPN					1	J5222875B0010S	
Q156	KTC3200BL, NPN					1	J5023200B0050S	
Q157-Q159	KTA1268BL, PNP					3	J5001268B0050S	
Q160-Q162	KTC3200BL, NPN					3	J5023200B0050S	
Q163	KTC1027Y, NPN					1	J5021027Y0020S	
Q164-Q167	KTA1268BL, PNP					4	J5001268B0050S	
Q168-Q171	KTC3200BL, NPN					4	J5023200B0050S	
Q173/Q174	KTB778, PNP					2	J501778000010S	
Q175	KRC102M, PNP					1	J6020102M0010S	A
	RESISTORS							
R101/R102	CHIP THICK	0 ohm	1/16W	J	2	C20000006M160S		
R103/R104	CHIP THICK	22 kohm	1/16W	J	2	C20002236M160S		
R105	CHIP THICK	47 kohm	1/16W	J	1	C20004736M160S		
R106/R107	CHIP THICK	4.7 kohm	1/16W	J	2	C20004726M160S		
R108/R109	CHIP THICK	1 kohm	1/16W	J	2	C20001026M160S		
R110	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R111	CARBON FILM	1 kohm	1/5W	J	1	C00001026P520S		
R112	CHIP THICK	2.2 Mohm	1/16W	J	1	C20002256M160S	G	
R113	CHIP THICK	3.3 kohm	1/16W	J	1	C20003326M160S		
R114	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R115-R117	CHIP THICK	100 ohm	1/16W	J	3	C20001016M160S	G	
R118	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R119	CHIP THICK	100 ohm	1/16W	J	1	C20001016M160S	G	
R120	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R121	CHIP THICK	2 kohm	1/16W	J	1	C20002026M160S	G	
R122/R123	CHIP THICK	10 kohm	1/16W	J	2	C20001036M160S		
R124	CARBON FILM	18 kohm	1/5W	J	1	C00001836P520S	K	
R124	CARBON FILM	10 kohm	1/5W	J	1	C00001036P520S	A/G	
R127	CHIP THICK	18 kohm	1/16W	J	1	C20001836M160S	G	
R128-R131	CARBON FILM	10 kohm	1/5W	J	4	C00001036P520S		
R132	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S	G/K	
R133-R137	CHIP THICK	100 ohm	1/16W	J	5	C20001016M160S		
R138/R139	CHIP THICK	470 ohm	1/16W	J	2	C20004716M160S		
R140-R144	CHIP THICK	10 kohm	1/16W	J	5	C20001036M160S		
R145	METAL FILM 100PPM	1 kohm	1/4W	J	1	C060010263050S		
R146	CHIP THICK	470 kohm	1/16W	J	1	C20004746M160S		
R147	CHIP THICK	100 ohm	1/16W	J	1	C20001016M160S		
R148	CARBON FILM	10 kohm	1/5W	J	1	C00001036P520S		
R149/R150	CARBON FILM	47 kohm	1/5W	J	2	C00004736P520S		
R151	CHIP THICK	3.3 kohm	1/16W	J	1	C20003326M160S		
R152	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R153	CHIP THICK	47 kohm	1/16W	J	1	C20004736M160S		
R154	CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S		
R157	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R158	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R159	CHIP THICK	5.1 kohm	1/16W	J	1	C20005126M160S		
R160	CARBON FILM	560 kohm	1/5W	J	1	C00005646P520S		
R162	CARBON FILM	2.2 kohm	1/5W	J	1	C00002226P520S		
R163	CARBON FILM	22 kohm	1/5W	J	1	C00002236P520S		
R164	CARBON FILM	220 ohm	1/5W	J	1	C00002216P520S		
R165-R167	METAL FILM 100PPM	2.2 kohm	1W	J	3	C060022265050S		
R168	CEMENT RADIAL FO	0.1 ohm	5W	J	1	C141R10069000S		
R169	CARBON FILM	3.6 kohm	1/5W	J	1	C00003626P520S		

REF No.	DESCRIPTION					Q'TY	PARTS No.	VER.
R170	CEMENT RADIAL FO	0.1 ohm	5W	J	1		C141R10069000S	
R171	CARBON FILM	1.2 kohm	1/5W	J	1		C00001226P520S	
R172	CARBON FILM	330 ohm	1/5W	J	1		C00003316P520S	
R173	CARBON FILM	4.7 kohm	1/5W	J	1		C00004726P520S	
R174	CARBON FILM	15 kohm	1/5W	J	1		C00001536P520S	
R175	CARBON FILM	33 kohm	1/5W	J	1		C00003336P520S	
R176	CARBON FILM	560 kohm	1/5W	J	1		C00005646P520S	
R177	METAL FILM 100PPM	4.7 ohm	1W	J	1		C0604R7065050S	
R178	METAL FILM 100PPM	47 kohm	1/4W	J	1		C060047363050S	
R179	METAL FILM 100PPM	2.2 kohm	1W	J	1		C060022265050S	
R180-R182	CARBON FILM	100 kohm	1/5W	J	3		C00001046P520S	
R183	CARBON FILM	51 kohm	1/5W	J	1		C00005136P520S	
R184	METAL FILM 100PPM	47 kohm	1/4W	J	1		C060047363050S	
R185	CARBON FILM	51 kohm	1/5W	J	1		C00005136P520S	
R186	CARBON FILM	2.2 kohm	1/5W	J	1		C00002226P520S	
R187	CARBON FILM	47 kohm	1/5W	J	1		C00004736P520S	
R188	CARBON FILM	51 kohm	1/5W	J	1		C00005136P520S	
R189	CARBON FILM	27 kohm	1/5W	J	1		C00002736P520S	
R190	CARBON FILM	10 kohm	1/5W	J	1		C00001036P520S	
R191	CARBON FILM	22 kohm	1/5W	J	1		C00002236P520S	
R192	CARBON FILM	27 kohm	1/5W	J	1		C00002736P520S	
R193	CARBON FILM	4.3 kohm	1/5W	J	1		C00004326P520S	
R194/R195	CARBON FILM	27 kohm	1/5W	J	2		C00002736P520S	
R196/R197	METAL FILM 100PPM	0.22 ohm	1W	J	2		C060R22065050S	
R198	CARBON FILM	27 kohm	1/5W	J	1		C00002736P520S	
R199	CHIP THICK	47 kohm	1/16W	J	1		C20004736M160S	
R200	CARBON FILM	27 kohm	1/5W	J	1		C00002736P520S	
R201	METAL FILM 100PPM	0.22 ohm	1W	J	1		C060R22065050S	
R202	CARBON FILM	27 kohm	1/5W	J	1		C00002736P520S	
R203	CHIP THICK	47 kohm	1/16W	J	1		C20004736M160S	
R204/R205	METAL FILM 100PPM	0.22 ohm	1W	J	2		C060R22065050S	
R206	METAL FILM 100PPM	10 ohm	1W	J	1		C060010065050S	
R207/R208	METAL FILM 100PPM	0.22 ohm	1W	J	2		C060R22065050S	
R209	METAL FILM 100PPM	10 ohm	1W	J	1		C060010065050S	
R210	METAL FILM 100PPM	0.22 ohm	1W	J	1		C060R22065050S	
R212	METAL FILM 100PPM	0.22 ohm	1W	J	1		C060R22065050S	A
R213	CARBON FILM	10 kohm	1/5W	J	1		C00001036P520S	A
R214	CHIP THICK	4.3 kohm	1/16W	J	1		C20004326M160S	A
R215	CHIP THICK	3.9 kohm	1/16W	J	1		C20003926M160S	A
R216	METAL FILM 100PPM	0.22 ohm	1W	J	1		C060R22065050S	A
R217	CHIP THICK	2 kohm	1/16W	J	1		C20002026M160S	A
R219	CARBON FILM	51 kohm	1/5W	J	1		C00005136P520S	
R220/R221	CHIP THICK	470 ohm	1/16W	J	2		C20004716M160S	
R222/R223	CHIP THICK	22 kohm	1/16W	J	2		C20002236M160S	
R224	CARBON FILM	51 kohm	1/5W	J	1		C00005136P520S	
R225	CHIP THICK	0 ohm	1/16W	J	1		C20000006M160S	
R226	CHIP THICK	0 ohm	1/16W	J	1		C20000006M160S	A
	MISCELLANEOUS							
CLAMP101	CLAMP				1		4330000120000S	A
CLAMP102	CLAMP				1		4330000120000S	A
GND101	TERMINAL				1		3790040886000S	
GND102	TERMINAL				1		3790040886000S	
GND103	TERMINAL				1		3790040886000S	
GND104	TERMINAL				1		3790040886000S	
J102-J114	CN,WIRE 1P				13		L045084006040S	
J115	CN,WIRE 1P				1		L045084006040S	G/K
J116-J168	CN,WIRE 1P				53		L045084006040S	
J170-J217	CN,WIRE 1P				48		L045084006040S	
J219-J252	CN,WIRE 1P				34		L045084006040S	
J254-J278	CN,WIRE 1P				25		L045084006040S	
J281-J290	CN,WIRE 1P				10		L045084006040S	
J291-J294	CN,WIRE 1P				4		L045084006040S	A
J295	CN,WIRE 1P				1		L045084006040S	
J297-J299	CN,WIRE 1P				3		L045084006040S	A
JP101-JP113	CHIP THICK	0 ohm	1/8W	J	13		C200000061300S	
JP115-JP117	CHIP THICK	0 ohm	1/8W	J	3		C200000061300S	
JP119	CHIP THICK	0 ohm	1/8W	J	1		C200000061300S	
JP121-JP124	CHIP THICK	0 ohm	1/8W	J	4		C200000061300S	

REF No.	DESCRIPTION					Q'TY	PARTS No.	VER.
JP126/JP127	CHIP THICK	0 ohm	1/8W	J	2		C200000061300S	
XTAL101	CRYSTAL, 4.332MHz				1		E800433200090S	G
XTAL102	RESONATOR, ZTT12.00MT				1		E830120000060S	
ZD101	MTZJ2.7B-0.5W, ZENER				1		K06002R744520S	
ZD150	MTZJ5.1B-0.5W, ZENER				1		K06005R144520S	
ZD155	MTZJ4.3B-0.5W, ZENER				1		K06004R344520S	
ZD156/ZD157	MTZJ18B-0.5W, ZENER				2		K06018R044520S	
	HEAT SINK, AL6063(Ext)A3/Reg TR				1		2120210868000S	
	HEAT SINK, AL 71X19.5X100 A3/REG TR				1		2120210958020S	
	HEAT SINK, AL 46*12*70 A4 /REG TR				1		2120211188000S	A
	HEAT SINK, AL 46*12*50 A4 /REG TR				1		2120211198000S	G/K
	SCREW, +2S 3*8 B-TYPE ZNW/BH				8		B020030081B10S	
PCB2	ASSEMBLY P.C.BOARD AMP						7025HK0702012	A
PCB2	ASSEMBLY P.C.BOARD AMP						7025HK0702012	G
PCB2	ASSEMBLY P.C.BOARD AMP						7025HK0702012	K
	CAPACITORS							
C201C	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C201FL	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C201FR	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C201SBL	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C201SBR	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C201SL	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C201SR	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C202C	CERAMIC HIK DISC	220 pF	50V	J	1		D004221067060S	
C202FL	CERAMIC HIK DISC	220 pF	50V	J	1		D004221067060S	
C202FR	CERAMIC HIK DISC	220 pF	50V	J	1		D004221067060S	
C202SBL	CERAMIC HIK DISC	220 pF	50V	J	1		D004221067060S	
C202SBR	CERAMIC HIK DISC	220 pF	50V	J	1		D004221067060S	
C202SL	CERAMIC HIK DISC	220 pF	50V	J	1		D004221067060S	
C202SR	CERAMIC HIK DISC	220 pF	50V	J	1		D004221067060S	
C203C	CERAMIC HIK DISC	220 pF	50V	J	1		D004221067060S	
C203FL	CERAMIC HIK DISC	220 pF	50V	J	1		D004221067060S	
C203FR	CERAMIC HIK DISC	220 pF	50V	J	1		D004221067060S	
C203SBL	CERAMIC HIK DISC	220 pF	50V	J	1		D004221067060S	
C203SBR	CERAMIC HIK DISC	220 pF	50V	J	1		D004221067060S	
C203SL	CERAMIC HIK DISC	220 pF	50V	J	1		D004221067060S	
C203SR	CERAMIC HIK DISC	220 pF	50V	J	1		D004221067060S	
C204C	CERAMIC T.C DISC	33 pF	50V	J	1		D000330067050S	
C204FL	CERAMIC T.C DISC	33 pF	50V	J	1		D000330067050S	
C204FR	CERAMIC T.C DISC	33 pF	50V	J	1		D000330067050S	
C204SBL	CERAMIC T.C DISC	33 pF	50V	J	1		D000330067050S	
C204SBR	CERAMIC T.C DISC	33 pF	50V	J	1		D000330067050S	
C204SL	CERAMIC T.C DISC	33 pF	50V	J	1		D000330067050S	
C204SR	CERAMIC T.C DISC	33 pF	50V	J	1		D000330067050S	
C205C	ELECT GE 85C	100 uF	10V	M	1		D040101082070S	
C205FL	ELECT GE 85C	100 uF	10V	M	1		D040101082070S	
C205FR	ELECT GE 85C	100 uF	10V	M	1		D040101082070S	
C205SBL	ELECT GE 85C	100 uF	10V	M	1		D040101082070S	
C205SBR	ELECT GE 85C	100 uF	10V	M	1		D040101082070S	
C205SL	ELECT GE 85C	100 uF	10V	M	1		D040101082070S	
C205SR	ELECT GE 85C	100 uF	10V	M	1		D040101082070S	
C206C	CERAMIC HIK DISC	0.002 uF	50V	K	1		D004222277050S	
C206FL	CERAMIC HIK DISC	0.002 uF	50V	K	1		D004222277050S	
C206FR	CERAMIC HIK DISC	0.002 uF	50V	K	1		D004222277050S	
C206SBL	CERAMIC HIK DISC	0.002 uF	50V	K	1		D004222277050S	
C206SBR	CERAMIC HIK DISC	0.002 uF	50V	K	1		D004222277050S	
C206SL	CERAMIC HIK DISC	0.002 uF	50V	K	1		D004222277050S	
C206SR	CERAMIC HIK DISC	0.002 uF	50V	K	1		D004222277050S	
C207C	ELECT GE 85C	47 uF	50V	M	1		D040470087070S	
C207FL	ELECT GE 85C	47 uF	50V	M	1		D040470087070S	
C207FR	ELECT GE 85C	47 uF	50V	M	1		D040470087070S	
C207SBL	ELECT GE 85C	47 uF	50V	M	1		D040470087070S	
C207SBR	ELECT GE 85C	47 uF	50V	M	1		D040470087070S	
C207SL	ELECT GE 85C	47 uF	50V	M	1		D040470087070S	
C207SR	ELECT GE 85C	47 uF	50V	M	1		D040470087070S	
C208C	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C208FL	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	

REF No.	DESCRIPTION					Q'TY	PARTS No.	VER.
C208FR	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C208SBL	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C208SBR	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C208SL	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C208SR	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C209C	CERAMIC HIK DISC	100 pF	500V	K	1		D00410106D050S	
C209FL	CERAMIC HIK DISC	100 pF	500V	K	1		D00410106D050S	
C209FR	CERAMIC HIK DISC	100 pF	500V	K	1		D00410106D050S	
C209SBL	CERAMIC HIK DISC	100 pF	500V	K	1		D00410106D050S	
C209SBR	CERAMIC HIK DISC	100 pF	500V	K	1		D00410106D050S	
C209SL	CERAMIC HIK DISC	100 pF	500V	K	1		D00410106D050S	
C209SR	CERAMIC HIK DISC	100 pF	500V	K	1		D00410106D050S	
C210C	CERAMIC HIK DISC	100 pF	500V	K	1		D00410106D050S	
C210FL	CERAMIC HIK DISC	100 pF	500V	K	1		D00410106D050S	
C210FR	CERAMIC HIK DISC	100 pF	500V	K	1		D00410106D050S	
C210SBL	CERAMIC HIK DISC	100 pF	500V	K	1		D00410106D050S	
C210SBR	CERAMIC HIK DISC	100 pF	500V	K	1		D00410106D050S	
C210SL	CERAMIC HIK DISC	100 pF	500V	K	1		D00410106D050S	
C210SR	CERAMIC HIK DISC	100 pF	500V	K	1		D00410106D050S	
C211C	CERAMIC HIK DISC	0.022 uF	50V	Z	1		D004223597050S	
C211FL	CERAMIC HIK DISC	0.022 uF	50V	Z	1		D004223597050S	
C211FR	CERAMIC HIK DISC	0.022 uF	50V	Z	1		D004223597050S	
C211SBL	CERAMIC HIK DISC	0.022 uF	50V	Z	1		D004223597050S	
C211SBR	CERAMIC HIK DISC	0.022 uF	50V	Z	1		D004223597050S	
C211SL	CERAMIC HIK DISC	0.022 uF	50V	Z	1		D004223597050S	
C211SR	CERAMIC HIK DISC	0.022 uF	50V	Z	1		D004223597050S	
C212	ELECT GE 85C	10 uF	100V	M	1		D04010008C050S	
	CONNECTORS							
CN202	CN.WIRE 160MM (7P)				1		L000161070050S	
CN203	CN.WIRE 180MM (10P)				1		L000181100020S	
CP204	CN.WAFER 2.0MM (3P)				1		L101220030000S	
CP205	CN.WAFER 2.0MM (14P)				1		L101220140000S	
TP201C	CN.WAFER 2.0MM (3P)				1		L101530150310S	
TP201FL	CN.WAFER 2.0MM (3P)				1		L101530150310S	
TP201FR	CN.WAFER 2.0MM (3P)				1		L101530150310S	
TP201SBL	CN.WAFER 2.0MM (3P)				1		L101530150310S	
TP201SBR	CN.WAFER 2.0MM (3P)				1		L101530150310S	
TP201SL	CN.WAFER 2.0MM (3P)				1		L101530150310S	
TP201SR	CN.WAFER 2.0MM (3P)				1		L101530150310S	
	DIODES							
D201C	1SS133T, SWITCHING				1		K000013300520S	
D201FL	1SS133T, SWITCHING				1		K000013300520S	
D201FR	1SS133T, SWITCHING				1		K000013300520S	
D201SBL	1SS133T, SWITCHING				1		K000013300520S	
D201SBR	1SS133T, SWITCHING				1		K000013300520S	
D201SL	1SS133T, SWITCHING				1		K000013300520S	
D201SR	1SS133T, SWITCHING				1		K000013300520S	
D203	1SS133T, SWITCHING				1		K000013300520S	
	COILS							
L201C	INDUCTOR COIL, 0.5UH				1		D330R50000000S	
L201FL	INDUCTOR COIL, 0.5UH				1		D330R50000000S	
L201FR	INDUCTOR COIL, 0.5UH				1		D330R50000000S	
L201SBL	INDUCTOR COIL, 0.5UH				1		D330R50000000S	
L201SBR	INDUCTOR COIL, 0.5UH				1		D330R50000000S	
L201SL	INDUCTOR COIL, 0.5UH				1		D330R50000000S	
L201SR	INDUCTOR COIL, 0.5UH				1		D330R50000000S	
	TRANSISTORS							
Q201C	KSA992F,0.5W, PNP				1		J5000992F0050S	
Q201FL	KSA992F,0.5W, PNP				1		J5000992F0050S	
Q201FR	KSA992F,0.5W, PNP				1		J5000992F0050S	
Q201SBL	KSA992F,0.5W, PNP				1		J5000992F0050S	
Q201SBR	KSA992F,0.5W, PNP				1		J5000992F0050S	
Q201SL	KSA992F,0.5W, PNP				1		J5000992F0050S	
Q201SR	KSA992F,0.5W, PNP				1		J5000992F0050S	
Q202C	KSA992F,0.5W, PNP				1		J5000992F0050S	
Q202FL	KSA992F,0.5W, PNP				1		J5000992F0050S	
Q202FR	KSA992F,0.5W, PNP				1		J5000992F0050S	
Q202SBL	KSA992F,0.5W, PNP				1		J5000992F0050S	

REF No.	DESCRIPTION	Q'TY	PARTS No.	VER.
	VRS			
VR201C	VR,SEMI 1KB RH063LC13R	1	C544102015140S	
VR201FL	VR,SEMI 1KB RH063LC13R	1	C544102015140S	
VR201FR	VR,SEMI 1KB RH063LC13R	1	C544102015140S	
VR201SBL	VR,SEMI 1KB RH063LC13R	1	C544102015140S	
VR201SBR	VR,SEMI 1KB RH063LC13R	1	C544102015140S	
VR201SL	VR,SEMI 1KB RH063LC13R	1	C544102015140S	
VR201SR	VR,SEMI 1KB RH063LC13R	1	C544102015140S	
	MISCELLANEOUS			
J201	CN,WIRE 1P	1	L045084006040S	
J203/J204	CN,WIRE 1P	2	L045084006040S	
J209-J213	CN,WIRE 1P	5	L045084006040S	
J216/J217	CN,WIRE 1P	2	L045084006040S	
J221-J225	CN,WIRE 1P	5	L045084006040S	
J228-J231	CN,WIRE 1P	4	L045084006040S	
J235-J241	CN,WIRE 1P	7	L045084006040S	
J243-J245	CN,WIRE 1P	3	L045084006040S	
J247-J256	CN,WIRE 1P	10	L045084006040S	
J258-J261	CN,WIRE 1P	4	L045084006040S	
J263-J268	CN,WIRE 1P	6	L045084006040S	
J271-J274	CN,WIRE 1P	4	L045084006040S	
J276-J278	CN,WIRE 1P	3	L045084006040S	
J280-J292	CN,WIRE 1P	13	L045084006040S	
J294-J300	CN,WIRE 1P	7	L045084006040S	
J334-J338	CN,WIRE 1P	5	L045084006040S	
J340	CN,WIRE 1P	1	L045084006040S	
J342-J346	CN,WIRE 1P	5	L045084006040S	
J348-J357	CN,WIRE 1P	10	L045084006040S	
J359-J362	CN,WIRE 1P	4	L045084006040S	
J364-J367	CN,WIRE 1P	4	L045084006040S	
J369-J374	CN,WIRE 1P	6	L045084006040S	
J376-J382	CN,WIRE 1P	7	L045084006040S	
J384/J385	CN,WIRE 1P	2	L045084006040S	
J387	CN,WIRE 1P	1	L045084006040S	
J389-J391	CN,WIRE 1P	3	L045084006040S	
J394	CN,WIRE 1P	1	L045084006040S	
J396-J398	CN,WIRE 1P	3	L045084006040S	
J400-J403	CN,WIRE 1P	4	L045084006040S	
J405-J412	CN,WIRE 1P	8	L045084006040S	
J424/J425	CN,WIRE 1P	2	L045084006040S	
J435	CN,WIRE 1P	1	L045084006040S	
RLY201	RELAY, 24V 2A	1	G680240202030S	
PCB2-1	ASSEMBLY P.C.BOARD POWER SW			
CN307	CN,WIRE 450MM (3P)	1	L000451030080S	
SW321	SW,PUSH	1	G000122006060S	
PCB2-2	ASSEMBLY P.C.BOARD FRONT			
	COILS			
BD308-BD320	BEAD,COIL(HB-IT2012-121JT)	13	7611010000020S	
	CAPACITORS			
C303	ELECT GE 85C 1 uF 50V M	1	D040010087090S	
C304	CERAMIC CHIP HIK 0.047 uF 16V K	1	D011473773160S	
C305	FILM POLYESTER 0.047 uF 100V J	1	D02047306C060S	
C306	ELECT GE 85C 47 uF 16V M	1	D040470083060S	
C307	ELECT GE 85C 220 uF 10V M	1	D040221082080S	
C308/C309	CERAMIC CHIP HIK 0.047 uF 16V K	2	D011473773160S	
C310-C312	CERAMIC CHIP T.C 100 pF 50V J	3	D010101167160S	
C313	CERAMIC CHIP HIK 0.1 uF 50V K	1	D011104577160S	
C314	ELECT GE 85C 47 uF 16V M	1	D040470083060S	
C316	CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	
C319	CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	
C320	ELECT GE 85C 1 uF 50V M	1	D040010087090S	
C321	FILM POLYESTER 0.047 uF 100V J	1	D02047306C060S	
C324	CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	
C326	ELECT GE 85C 10 uF 50V M	1	D040100087060S	
C327	ELECT GE 85C 1 uF 50V M	1	D040010087090S	
C328/C329	ELECT GE 85C 10 uF 50V M	2	D040100087060S	
C330/C331	ELECT GE 85C 1 uF 50V M	2	D040010087090S	

REF No.	DESCRIPTION	Q'TY	PARTS No.	VER.
C332	ELECT GE 85C 10 uF 50V M	1	D040100087060S	
C333	CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	
C334	CERAMIC CHIP T.C 150 pF 50V J	1	D010151167160S	
C337/C338	CERAMIC CHIP HIK 0.022 uF 50V K	2	D011223777160S	
C339	CERAMIC CHIP T.C 100 pF 50V J	1	D010101167160S	
C340	ELECT GE 85C 1 uF 50V M	1	D040010087090S	
C341/C342	CERAMIC CHIP HIK 1000 pF 50V K	2	D011102777160S	
C343	CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	
C344/C345	CERAMIC CHIP T.C 220 pF 50V J	2	D010221167160S	
C346	CERAMIC CHIP T.C 150 pF 50V J	1	D010151167160S	
C351/C352	CERAMIC CHIP T.C 220 pF 50V J	2	D010221167160S	
C353	CERAMIC CHIP HIK 0.1 uF 50V K	1	D011104577160S	
C354	CERAMIC CHIP T.C 100 pF 50V J	1	D010101167160S	
C355	CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	
C357	CERAMIC CHIP HIK 0.01 uF 50V K	1	D011103777160S	
C361	ELECT GE 85C 220 uF 50V M	1	D040221087140S	
C362	CERAMIC CHIP HIK 0.1 uF 50V K	1	D011104577160S	
C369-C373	CERAMIC CHIP HIK 0.1 uF 50V K	5	D011104577160S	
C377	CERAMIC CHIP HIK 0.1 uF 50V K	1	D011104577160S	
C389	ELECT GE 85C 10 uF 50V M	1	D040100087060S	
C395/C396	ELECT GE 85C 10 uF 50V M	2	D040100087060S	
C398/C399	ELECT GE 85C 10 uF 50V M	2	D040100087060S	
	CONNECTORS			
CN305	CN,WIRE 450MM (5P)	1	L000451050030S	
CN402	CN,WIRE 250MM (10P)	1	L000251100040S	
CP301	CN.WAFER 2.5MM (3P)	1	L102526803010S	
CP302	CN.FPC 1.25MM (21P)	1	L131102100010S	
CP306	CN.WAFER 2.0MM (7P)	1	L101220070010S	
	DIODES			
D302/D303	KDS4148U, SWITCHING CHIP	2	K005041480030S	
D307/D308	KDS4148U, SWITCHING CHIP	2	K005041480030S	
D310-D314	KDS4148U, SWITCHING CHIP	5	K005041480030S	
FLT301	DISPLAY, FLT	1	K530151130010S	
	INTEGRATED CIRCUITS			
IC301/IC303	NJM2068M, LINEAR OP	2	J121206800020S	
	TRANSISTORS			
Q301	KRC107S(NH), NPN	1	J522107S00210S	
Q302/Q303	KRA107S(PH), PNP	2	J5200107S0050S	
Q304	KRC107S(NH), NPN	1	J522107S00210S	
Q305/Q306	KTC3875S, NPN	2	J522038750210S	
Q307	KRC107S(NH), NPN	1	J522107S00210S	
Q308	KTC2875B(MB), NPN	1	J5222875B0010S	
Q310	KRC107S(NH), NPN	1	J522107S00210S	
	RESISTORS			
R301	CHIP THICK 510 ohm 1/16W J	1	C20005116M160S	
R302	CHIP THICK 10 ohm 1/16W J	1	C20001006M160S	
R304	CHIP THICK 4.7 kohm 1/16W J	1	C20004726M160S	
R306-R308	CHIP THICK 470 ohm 1/16W J	3	C20004716M160S	
R309	CARBON FILM 100 ohm 1/5W J	1	C00001016P520S	
R310	CHIP THICK 10 ohm 1/16W J	1	C20001006M160S	
R311/R312	CARBON FILM 10 ohm 1/5W J	2	C00001006P520S	
R313	CHIP THICK 470 kohm 1/16W J	1	C20004746M160S	
R314	CHIP THICK 47 kohm 1/16W J	1	C20004736M160S	
R315	CHIP THICK 100 ohm 1/16W J	1	C20001016M160S	
R316	CHIP THICK 0 ohm 1/16W J	1	C20000006M160S	
R317/R318	CHIP THICK 10 kohm 1/16W J	2	C20001036M160S	
R319	CHIP THICK 0 ohm 1/16W J	1	C20000006M160S	
R320/R321	CHIP THICK 10 kohm 1/16W J	2	C20001036M160S	
R322-R324	CHIP THICK 470 ohm 1/16W J	3	C20004716M160S	
R325	CHIP THICK 1 kohm 1/16W J	1	C20001026M160S	
R326	CHIP THICK 1.2 kohm 1/16W J	1	C20001226M160S	
R327	CHIP THICK 470 ohm 1/16W J	1	C20004716M160S	
R328	CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	
R329	CHIP THICK 2.2 kohm 1/16W J	1	C20002226M160S	
R333	CHIP THICK 1.2 kohm 1/16W J	1	C20001226M160S	
R334/R335	CHIP THICK 1.5 kohm 1/16W J	2	C20001526M160S	
R336/R337	CHIP THICK 2.7 kohm 1/16W J	2	C20002726M160S	
R338	CHIP THICK 2.2 kohm 1/16W J	1	C20002226M160S	

REF No.	DESCRIPTION	Q'TY	PARTS No.	VER.
R340	CARBON FILM 100 ohm 1/5W J	1	C00001016P520S	
R343	CHIP THICK 1.2 kohm 1/16W J	1	C20001226M160S	
R344/R345	CHIP THICK 1.5 kohm 1/16W J	2	C20001526M160S	
R346	CHIP THICK 2.7 kohm 1/16W J	1	C20002726M160S	
R347	CHIP THICK 100 kohm 1/16W J	1	C20001046M160S	
R348	CHIP THICK 1.2 kohm 1/16W J	1	C20001226M160S	
R349/R350	CHIP THICK 1.5 kohm 1/16W J	2	C20001526M160S	
R351/R352	CHIP THICK 2.7 kohm 1/16W J	2	C20002726M160S	
R353	CHIP THICK 4.7 kohm 1/16W J	1	C20004726M160S	
R354	CHIP THICK 8.2 kohm 1/16W J	1	C20008226M160S	
R355	CHIP THICK 15 kohm 1/16W J	1	C20001536M160S	
R356	CHIP THICK 75 ohm 1/16W J	1	C20007506M160S	
R357	CHIP THICK 47 kohm 1/16W J	1	C20004736M160S	
R359	CHIP THICK 100 ohm 1/16W J	1	C20001016M160S	
R360/R361	CHIP THICK 100 kohm 1/16W J	2	C20001046M160S	
R362/R363	CHIP THICK 75 ohm 1/16W J	2	C20007506M160S	
R365	CHIP THICK 100 ohm 1/16W J	1	C20001016M160S	
R366	CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	
R367	CHIP THICK 100 ohm 1/16W J	1	C20001016M160S	
R369	CHIP THICK 100 ohm 1/16W J	1	C20001016M160S	
R370/R371	CHIP THICK 470 ohm 1/16W J	2	C20004716M160S	
R372	CHIP THICK 1.5 kohm 1/16W J	1	C20001526M160S	
R374	CHIP THICK 100 kohm 1/16W J	1	C20001046M160S	
R375-R377	CHIP THICK 100 ohm 1/16W J	3	C20001016M160S	
R378/R379	CHIP THICK 100 kohm 1/16W J	2	C20001046M160S	
R380/R381	CHIP THICK 100 ohm 1/16W J	2	C20001016M160S	
R383	CHIP THICK 100 kohm 1/16W J	1	C20001046M160S	
R384	CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	
R390	CHIP THICK 100 ohm 1/16W J	1	C20001016M160S	
R391	CHIP THICK 1.5 kohm 1/16W J	1	C20001526M160S	
R395	CHIP THICK 100 kohm 1/16W J	1	C20001046M160S	
R397-R400	CHIP THICK 10 kohm 1/16W J	4	C20001036M160S	
	MISCELLANEOUS			
BKT302	PLATE, SPTE t0.3 A4/EARTH VIDEO	1	4470211336000S	
J301-J304	CN,WIRE 1P	4	L045084006040S	
J307-J310	CN,WIRE 1P	4	L045084006040S	
J312-J434	CN,WIRE 1P	23	L045084006040S	
J436-J441	CN,WIRE 1P	6	L045084006040S	
JACK301	TER,RCA 1PIN-S-VIDEO	1	G600410HG000YS	
JACK304	TER,RCA 3PIN-FRONT-YWR	1	G606040320000S	
JP301-JP314	CHIP THICK 0 ohm 1/8W J	14	C200000061300S	
JP316	CHIP THICK 0 ohm 1/8W J	1	C200000061300S	
JP358	CHIP THICK 0 ohm 1/8W J	1	C200000061300S	
L301-L303	INDUCTOR COIL, 2.2UH	3	D3302R2001020S	
L304	INDUCTOR COIL, 100UH	1	D330101001020S	
LED301	LED, 5PI BLUE/ORINGE	1	K500056000040S	
LED302	LED, 5PI BLUE/ORINGE	1	K500056000040S	
LED303	LED, 3PI RED	1	K500032000160S	
LUG301	RING,TER WIRE 60MM (1P)	1	8410600010050S	
RMC301	MODULE, NJL34H380A 38KHz	1	E940343800010S	
SW301-SW320	SW,TACT(SKHV10920A)	20	G180000270010S	
VEC301	SW,ENCODER	1	G121161200030S	
VEC302	SW,ENCODER	1	G121162400020S	
ZD301-ZD305	MTZJ5.6B-0.5W, ZENER	5	K06005R644520S	
	HOLDER, PC BK/FLT	1	4320210091030S	
	WIRE,LEAD 1007 80C	1	L200101260030S	
PCB2-3	ASSEMBLY P.C.BOARD OPTICAL			
C315	CERAMIC CHIP T.C 22 pF 50V J	1	D010220167160S	
C317	ELECT GE 85C 47 uF 16V M	1	D040470083080S	
C318	CERAMIC CHIP HIK 0.022 uF 25V K	1	D011223777160S	
CN301	CN,WIRE 400MM (3P)	1	L000401030080S	
JACK302	MODULE, JSR1165-C /OPTICAL	1	E100116500040S	
R339	CHIP THICK 4.7 kohm 1/16W J	1	C20004726M160S	
PCB2-4	ASSEMBLY P.C.BOARD HEAD PHONE			
C349/C350	FILM POLYESTER 0.001 uF 100V J	2	D02010206C060S	
C356	CERAMIC CHIP HIK 0.1 uF 50V K	1	D011104577160S	
CN705	CN,WIRE 200MM (3P)	1	L000201030090S	
D305/D306	KDS4148U, SWITCHING CHIP	2	K005041480030S	

REF No.	DESCRIPTION	Q'TY	PARTS No.	VER.
JACK306	JACK,D6.5	1	G402040161331S	
LUG302	RING,TER WIRE 160MM (1P)	1	8410161010030S	
PCB3	ASSEMBLY P.C.BOARD VIDEO		7025HK0702014	G
PCB3	ASSEMBLY P.C.BOARD VIDEO		7025HK0702024	A
PCB3	ASSEMBLY P.C.BOARD VIDEO		7025HK0702024	K
	COILS			
BD803/BD804	BEAD COIL, SMD1608 TYPE	2	D340160811210S	
L802	INDUCTOR COIL, 33UH	1	D330330700520S	
L808	INDUCTOR COIL, 47UH	1	D330470104010S	
	CAPACITORS			
C703	ELECT GE 85C 47 uF 16V M	1	D040470083080S	
C704	ELECT GE 85C 1 uF 50V M	1	D040010087150S	
C705	CERAMIC CHIP T.C 24 pF 50V J	1	D010240167160S	
C706/C707	CERAMIC CHIP T.C 18 pF 50V J	2	D010180167160S	
C708	CERAMIC CHIP T.C 100 pF 50V J	1	D010101167160S	
C709	ELECT GE 85C 10 uF 50V M	1	D040100087070S	
C722/C723	ELECT GE 85C 1 uF 50V M	2	D040010087150S	
C725	ELECT GE 85C 1 uF 50V M	1	D040010087150S	
C727	ELECT GE 85C 1 uF 50V M	1	D040010087150S	
C728	CERAMIC CHIP T.C 47 pF 50V J	1	D010470167160S	
C729	ELECT GE 85C 1 uF 50V M	1	D040010087150S	
C730	CERAMIC CHIP T.C 47 pF 50V J	1	D010470167160S	
C731	ELECT GE 85C 1 uF 50V M	1	D040010087150S	
C733	ELECT GE 85C 10 uF 50V M	1	D040100087070S	
C734	CERAMIC CHIP HIK 0.1 uF 50V K	1	D011104577160S	
C735	ELECT GE 85C 10 uF 50V M	1	D040100087070S	
C736	CERAMIC CHIP HIK 0.1 uF 50V K	1	D011104577160S	
C737	ELECT GE 85C 10 uF 50V M	1	D040100087070S	
C738	CERAMIC CHIP HIK 0.1 uF 50V K	1	D011104577160S	
C739	CHIP THICK 0 ohm 1/16W J	1	C20000006M160S	
C740	ELECT GE 85C 22 uF 50V M	1	D040220087060S	
C741	CHIP THICK 0 ohm 1/16W J	1	C20000006M160S	
C742	ELECT GE 85C 100 uF 16V M	1	D040101083090S	
C743-C747	CERAMIC CHIP HIK 0.1 uF 50V K	5	D011104577160S	
C748	ELECT GE 85C 1 uF 50V M	1	D040010087150S	
C749	CERAMIC CHIP HIK 0.1 uF 50V K	1	D011104577160S	
C750	ELECT GE 85C 470 uF 10V M	1	D040471082060S	
C751	ELECT GE 85C 0.47 uF 50V M	1	D040R47087050S	
C752	ELECT GE 85C 470 uF 10V M	1	D040471082060S	
C753	ELECT GE 85C 0.47 uF 50V M	1	D040R47087050S	
C754/C755	ELECT GE 85C 10 uF 50V M	2	D040100087070S	
C754C	ELECT GE 85C 470 uF 10V M	1	D040471082060S	
C754R	ELECT GE 85C 470 uF 10V M	1	D040471082060S	
C755C	ELECT GE 85C 100 uF 10V M	1	D040101082090S	
C755R	ELECT GE 85C 100 uF 10V M	1	D040101082090S	
C756	CERAMIC CHIP HIK 0.022 uF 25V K	1	D011223777160S	
C757/C758	CERAMIC CHIP HIK 0.047 uF 16V K	2	D011473773160S	
C759	CERAMIC CHIP HIK 0.1 uF 50V K	1	D011104577160S	
C760/C761	ELECT GE 85C 22 uF 50V M	2	D040220087060S	
C762	CERAMIC CHIP HIK 0.1 uF 50V K	1	D011104577160S	
C763-C766	ELECT GE 85C 22 uF 50V M	4	D040220087060S	
C767	ELECT GE 85C 470 uF 10V M	1	D040471082060S	
C768	ELECT GE 85C 0.47 uF 50V M	1	D040R47087050S	
C769/C770	ELECT GE 85C 22 uF 50V M	2	D040220087060S	
C771	CHIP THICK 0 ohm 1/16W J	1	C20000006M160S	
C772	ELECT GE 85C 470 uF 10V M	1	D040471082060S	
C781/C782	ELECT GE 85C 470 uF 10V M	2	D040471082060S	
C785	ELECT GE 85C 470 uF 10V M	1	D040471082060S	
C787	ELECT GE 85C 10 uF 50V M	1	D040100087070S	
C789	ELECT GE 85C 10 uF 50V M	1	D040100087070S	
C791	ELECT GE 85C 10 uF 50V M	1	D040100087070S	
C797	CERAMIC CHIP HIK 0.1 uF 50V K	1	D011104577160S	
C798/C800	ELECT GE 85C 10 uF 50V M	2	D040100087070S	
C799	CERAMIC CHIP HIK 0.1 uF 50V K	1	D011104577160S	
C801	CERAMIC CHIP HIK 0.1 uF 50V K	1	D011104577160S	
C802	ELECT GE 85C 10 uF 50V M	1	D040100087070S	
C803	CERAMIC CHIP HIK 0.1 uF 50V K	1	D011104577160S	

REF No.	DESCRIPTION	Q'TY	PARTS No.	VER.
C804	ELECT GE 85C 10 uF 50V M	1	D040100087070S	
C805-C809	CERAMIC CHIP HIK 0.1 uF 50V K	5	D011104577160S	
C813-C815	CERAMIC CHIP HIK 0.1 uF 50V K	3	D011104577160S	
C816-C818	CERAMIC CHIP T.C 330 pF 50V J	3	D010331167160S	
C821C	CERAMIC CHIP HIK 0.1 uF 50V K	1	D011104577160S	
C821SC	CERAMIC CHIP HIK 0.1 uF 50V K	1	D011104577160S	
C821SY	CERAMIC CHIP HIK 0.1 uF 50V K	1	D011104577160S	
C822C	ELECT GE 85C 1 uF 50V M	1	D040010087150S	
C822SC	ELECT GE 85C 1 uF 50V M	1	D040010087150S	
C822SY	ELECT GE 85C 1 uF 50V M	1	D040010087150S	
C823C	CERAMIC CHIP HIK 0.047 uF 16V K	1	D011473773160S	
C823SC	CERAMIC CHIP HIK 0.047 uF 16V K	1	D011473773160S	
C823SY	CERAMIC CHIP HIK 0.047 uF 16V K	1	D011473773160S	
C844C	FILM POLYESTER 0.1 uF 100V J	1	D02010406C060S	
C844SC	FILM POLYESTER 0.1 uF 100V J	1	D02010406C060S	
C844SY	FILM POLYESTER 0.1 uF 100V J	1	D02010406C060S	
C845-C848	CERAMIC CHIP T.C 100 pF 50V J	4	D010101167160S	
C876	CERAMIC CHIP HIK 0.022 uF 25V K	1	D011223777160S	
C878	ELECT GE 85C 470 uF 10V M	1	D040471082060S	
C879	CERAMIC CHIP HIK 0.022 uF 25V K	1	D011223777160S	
C880	CERAMIC CHIP HIK 0.1 uF 50V K	1	D011104577160S	
C882	CERAMIC CHIP HIK 0.047 uF 16V K	1	D011473773160S	
C883	ELECT GE 85C 47 uF 16V M	1	D040470083080S	
C884	ELECT GE 85C 1 uF 50V M	1	D040010087150S	
C886	ELECT GE 85C 47 uF 16V M	1	D040470083080S	
C887/C888	CERAMIC CHIP HIK 0.022 uF 25V K	2	D011223777160S	
C889	ELECT GE 85C 47 uF 16V M	1	D040470083080S	
C890	CERAMIC CHIP HIK 0.022 uF 25V K	1	D011223777160S	
C891	CERAMIC CHIP T.C 24 pF 50V J	1	D010240167160S	
C892/C893	CERAMIC CHIP T.C 100 pF 50V J	2	D010101167160S	
C894	CERAMIC CHIP HIK 0.1 uF 50V K	1	D011104577160S	
C895	CERAMIC CHIP T.C 27 pF 50V K	1	D010270177160S	
	CONNECTORS			
CP309	CN.WAFER 2.0MM (5P)	1	L101220050000S	
CP806	CN.WAFER 2.0MM (18P)	1	L101100031810S	
CP807	CN.WAFER 2.0MM (20P)	1	L101100032010S	
	DIODES			
D825/D826	KDS4148U, SWITCHING CHIP	2	K005041480030S	
D834-D842	KDS4148U, SWITCHING CHIP	9	K005041480030S	
D849-D857	KDS4148U, SWITCHING CHIP	9	K005041480030S	
	INTEGRATED CIRCUITS			
IC808/IC809	BA7626F, MONITOR SW	2	J171762600010S	
IC810	BU4053BCF, LOGIC	1	J040405300110S	
IC811	BA7626F, MONITOR SW	1	J171762600010S	
IC812	LC74781M, MONITOR	1	J170747810020S	
IC814	BU4053BCF, LOGIC	1	J040405300110S	
IC815	BU4052BCF-E2, LOGIC	1	J040405200060S	
IC816	BU2090F-E2, LOGIC-DECODER	1	J044209000010S	
IC817	NJW1321FP, MONITOR SW	1	J171132100010S	
IC821	NJM2584AM, MONITOR SW	1	J171258400010S	
IC823	KIA7809API, LINEAR-REGULATOR	1	J126780900020S	
	JACKS			
JACK810	TER,RCA (8P)	1	G608602BGG04YS	
JACK811	TER,RCA (8P)	1	G608602BGG03YS	
JACK812	TER,RCA (8P)	1	G608602BGG02YS	
	TRANSISTORS			
Q821	KTC3198Y,0.6W, NPN	1	J5023198Y0000S	
Q841	KTC3875Y(ALY), NPN	1	J5223875Y0210S	
Q842	KTC3198Y,0.6W, NPN	1	J5023198Y0000S	
Q843	2SA933S,0.3W, PNP	1	J5000933S0050S	
Q845/Q846	KTA1504Y(ASY), PNP	2	J5201504Y0210S	
Q847/Q848	2SA933S,0.3W, PNP	2	J5000933S0050S	
Q849	KRC106S(NF), NPN	1	J522010600210S	
Q850/Q851	KRC102S(NB), NPN	2	J522010200210S	
Q852	KRC106S(NF), NPN	1	J522010600210S	
Q853	2SA933S,0.3W, PNP	1	J5000933S0050S	
Q854	KRC102S(NB), NPN	1	J522010200210S	

REF No.	DESCRIPTION	Q'TY	PARTS No.	VER.
Q855	KRC106S(NF), NPN	1	J522010600210S	
Q856	KTA1266Y,0.6W, PNP	1	J5001266Y0050S	
Q857	KRC105S(NE), NPN	1	J522010500210S	
Q858	KTA1504Y(ASY), PNP	1	J5201504Y0210S	
Q860/Q861	KTA1504Y(ASY), PNP	2	J5201504Y0210S	
Q862/Q863	KTC3875Y(ALY), NPN	2	J5223875Y0210S	
Q864	KTA1504Y(ASY), PNP	1	J5201504Y0210S	
Q865	KRC105S(NE), NPN	1	J522010500210S	
Q866/Q867	KTC3875Y(ALY), NPN	2	J5223875Y0210S	
Q868/Q869	KRC105S(NE), NPN	2	J522010500210S	
Q870/Q871	KTC3875Y(ALY), NPN	2	J5223875Y0210S	
Q872	KRC105S(NE), NPN	1	J522010500210S	
Q873/Q874	KTC3875Y(ALY), NPN	2	J5223875Y0210S	
Q875	KRC105S(NE), NPN	1	J522010500210S	
	RESISTORS			
R701C	CHIP THICK 75 ohm 1/16W J	1	C20007506M160S	
R701R	CHIP THICK 75 ohm 1/16W J	1	C20007506M160S	
R702	CHIP THICK 470 ohm 1/16W J	1	C20004716M160S	
R702C	CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	
R702R	CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	
R703	CHIP THICK 9.1 kohm 1/16W J	1	C20009126M160S	
R703C	METAL FILM 100PPM 100 ohm 1W J	1	C060010165060S	
R703R	METAL FILM 100PPM 100 ohm 1W J	1	C060010165060S	
R704C	CHIP THICK 220 kohm 1/16W J	1	C20002246M160S	
R704R	CHIP THICK 220 kohm 1/16W J	1	C20002246M160S	
R705C	CHIP THICK 4.7 kohm 1/16W J	1	C20004726M160S	
R705C1	CHIP THICK 4.7 kohm 1/16W J	1	C20004726M160S	
R705R	CHIP THICK 4.7 kohm 1/16W J	1	C20004726M160S	
R706	CHIP THICK 4.7 kohm 1/16W J	1	C20004726M160S	
R706C	CHIP THICK 4.7 kohm 1/16W J	1	C20004726M160S	
R706C1	CHIP THICK 4.7 kohm 1/16W J	1	C20004726M160S	
R706R	CHIP THICK 4.7 kohm 1/16W J	1	C20004726M160S	
R707	METAL FILM 100PPM 220 ohm 1/4W J	1	C060022163050S	
R708	CHIP THICK 0 ohm 1/16W J	1	C20000006M160S	
R709	CHIP THICK 220 ohm 1/16W J	1	C20002216M160S	
R710	CHIP THICK 2.2 Mohm 1/16W J	1	C20002256M160S	
R711-R713	CHIP THICK 470 ohm 1/16W J	3	C20004716M160S	
R714/R715	METAL FILM 100PPM 100 ohm 1W J	2	C060010165060S	
R739-R756	CHIP THICK 150 ohm 1/16W J	18	C20001516M160S	
R748SC	CHIP THICK 8.2 kohm 1/16W J	1	C20008226M160S	
R757	CHIP THICK 0 ohm 1/16W J	1	C20000006M160S	
R759/R760	CHIP THICK 100 ohm 1/10W J	2	C20001016M160S	
R762-R764	CHIP THICK 10 kohm 1/16W J	3	C20001036M160S	
R765	CHIP THICK 1 kohm 1/16W J	1	C20001026M160S	
R766/R767	CHIP THICK 150 ohm 1/16W J	2	C20001516M160S	
R768	CHIP THICK 220 kohm 1/16W J	1	C20002246M160S	
R769	METAL FILM 100PPM 100 ohm 1W J	1	C060010165060S	
R770/R771	CHIP THICK 10 kohm 1/16W J	2	C20001036M160S	
R772/R773	CHIP THICK 75 ohm 1/16W J	2	C20007506M160S	
R774	CHIP THICK 4.7 kohm 1/16W J	1	C20004726M160S	
R775/R776	CHIP THICK 4.7 kohm 1/16W J	2	C20004726M160S	
R777	CHIP THICK 8.2 kohm 1/16W J	1	C20008226M160S	
R778/R779	CHIP THICK 75 ohm 1/16W J	2	C20007506M160S	
R780	CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	
R781	CHIP THICK 220 kohm 1/16W J	1	C20002246M160S	
R782	METAL FILM 100PPM 100 ohm 1W J	1	C060010165060S	
R783-R785	CHIP THICK 4.7 kohm 1/16W J	3	C20004726M160S	
R786	CHIP THICK 150 ohm 1/16W J	1	C20001516M160S	
R787/R788	CHIP THICK 10 kohm 1/16W J	2	C20001036M160S	
R789/R790	CHIP THICK 150 ohm 1/16W J	2	C20001516M160S	
R791	CHIP THICK 470 ohm 1/16W J	1	C20004716M160S	
R792-R796	CHIP THICK 10 kohm 1/16W J	5	C20001036M160S	
R797	CHIP THICK 220 kohm 1/16W J	1	C20002246M160S	
R799	CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	
R800	CHIP THICK 8.2 kohm 1/16W J	1	C20008226M160S	
R801	CHIP THICK 150 ohm 1/16W J	1	C20001516M160S	
R802	CHIP THICK 220 kohm 1/16W J	1	C20002246M160S	
R803	CHIP THICK 10 kohm 1/16W J	1	C20001036M160S	

REF No.	DESCRIPTION					Q'TY	PARTS No.	VER.
R805	CHIP THICK	51 ohm	1/16W	J	1		C20005106M160S	
R807	CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	
R810	CHIP THICK	56 ohm	1/16W	J	1		C20005606M160S	
R813	CHIP THICK	75 ohm	1/16W	J	1		C20007506M160S	
R816	CHIP THICK	75 ohm	1/16W	J	1		C20007506M160S	
R818	CHIP THICK	75 ohm	1/16W	J	1		C20007506M160S	
R822	CHIP THICK	51 ohm	1/16W	J	1		C20005106M160S	
R824	CHIP COIL, 1UH				1		D311160801020S	
R830/R831	CHIP THICK	10 kohm	1/16W	J	2		C20001036M160S	
R832	CHIP THICK	8.2 kohm	1/16W	J	1		C20008226M160S	
R833-R836	CHIP THICK	470 ohm	1/16W	J	4		C20004716M160S	
R837/R838	CHIP THICK	10 kohm	1/16W	J	2		C20001036M160S	
R839-R841	CHIP THICK	4.7 kohm	1/16W	J	3		C20004726M160S	
R842/R843	CHIP THICK	150 ohm	1/16W	J	2		C20001516M160S	
R842C	CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	
R842SC	CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	
R842SY	CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	
R843C	CHIP THICK	4.7 kohm	1/16W	J	1		C20004726M160S	
R843SC	CHIP THICK	4.7 kohm	1/16W	J	1		C20004726M160S	
R843SY	CHIP THICK	4.7 kohm	1/16W	J	1		C20004726M160S	
R844C	CHIP THICK	220 ohm	1/16W	J	1		C20002216M160S	
R844SC	CHIP THICK	220 ohm	1/16W	J	1		C20002216M160S	
R844SY	CHIP THICK	220 ohm	1/16W	J	1		C20002216M160S	
R845C	CHIP THICK	1.2 kohm	1/16W	J	1		C20001226M160S	
R845SC	CHIP THICK	1.2 kohm	1/16W	J	1		C20001226M160S	
R845SY	CHIP THICK	1.2 kohm	1/16W	J	1		C20001226M160S	
R846C	CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	
R846SC	CHIP THICK	2.2 kohm	1/16W	J	1		C20002226M160S	
R846SY	CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	
R847	CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	
R847C	CHIP THICK	47 kohm	1/16W	J	1		C20004736M160S	
R847SC	CHIP THICK	47 kohm	1/16W	J	1		C20004736M160S	
R847SY	CHIP THICK	47 kohm	1/16W	J	1		C20004736M160S	
R848	METAL FILM 100PPM	100 ohm	1W	J	1		C060010165060S	
R848C	CHIP THICK	8.2 kohm	1/16W	J	1		C20008226M160S	
R848SY	CHIP THICK	8.2 kohm	1/16W	J	1		C20008226M160S	
R849	CHIP THICK	150 ohm	1/16W	J	1		C20001516M160S	
R849C	CHIP THICK	4.7 kohm	1/16W	J	1		C20004726M160S	
R849SC	CHIP THICK	4.7 kohm	1/16W	J	1		C20004726M160S	
R849SY	CHIP THICK	4.7 kohm	1/16W	J	1		C20004726M160S	
R850	CHIP THICK	8.2 kohm	1/16W	J	1		C20008226M160S	
R850C	CHIP THICK	1 kohm	1/16W	J	1		C20001026M160S	
R850SC	CHIP THICK	1 kohm	1/16W	J	1		C20001026M160S	
R850SY	CHIP THICK	1 kohm	1/16W	J	1		C20001026M160S	
R851C	CHIP THICK	1.2 kohm	1/16W	J	1		C20001226M160S	
R851-R853	CHIP THICK	150 ohm	1/16W	J	3		C20001516M160S	
R851SC	CHIP THICK	1.2 kohm	1/16W	J	1		C20001226M160S	
R851SY	CHIP THICK	1.2 kohm	1/16W	J	1		C20001226M160S	
R852C	CHIP THICK	39 kohm	1/16W	J	1		C20003936M160S	
R852SC	CHIP THICK	39 kohm	1/16W	J	1		C20003936M160S	
R852SY	CHIP THICK	39 kohm	1/16W	J	1		C20003936M160S	
R854	CHIP THICK	8.2 kohm	1/16W	J	1		C20008226M160S	
R855	CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	
R857	CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	
R860	CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	
R861	CHIP THICK	150 ohm	1/16W	J	1		C20001516M160S	
R863	CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	
R865	CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	
R867	CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	
R870	CHIP THICK	430 ohm	1/16W	J	1		C20004316M160S	
R872	CHIP THICK	430 ohm	1/16W	J	1		C20004316M160S	
R874	CHIP COIL, 1UH				1		D311160801020S	
R875	CHIP THICK	430 ohm	1/16W	J	1		C20004316M160S	
R876	CHIP THICK	150 ohm	1/16W	J	1		C20001516M160S	
R879	CHIP COIL, 1UH				1		D311160801020S	
R884-R886	CHIP THICK	150 ohm	1/16W	J	3		C20001516M160S	
R899	CHIP THICK	150 ohm	1/16W	J	1		C20001516M160S	
R914	CHIP THICK	1 Mohm	1/16W	J	1		C20001056M160S	

REF No.	DESCRIPTION					Q'TY	PARTS No.	VER.
R941	CHIP THICK	8.2 kohm	1/16W	J	1		C20008226M160S	
	MISCELLANEOUS							
XTL802	CRYSTAL, 14.3181MHz				1		E80514R318110S	A/K
XTL802	CRYSTAL, 17.734475MHz				1		E80517R734410S	G
	HEAT SINK, AL6063 40MM/SUB				1		2120000818020S	
	SCREW, +2S 3*8 B-TYPE ZNW/BH				1		B020030081B10S	
PCB3-1 ASSEMBLY P.C.BOARD EXT(INPUT&HDMI)								
	CAPACITORS							
C652C	CERAMIC CHIP T.C	680 pF	50V	J	1		D010681167160S	
C652FL	CERAMIC CHIP T.C	680 pF	50V	J	1		D010681167160S	
C652FR	CERAMIC CHIP T.C	680 pF	50V	J	1		D010681167160S	
C652SBL	CERAMIC CHIP T.C	680 pF	50V	J	1		D010681167160S	
C652SBR	CERAMIC CHIP T.C	680 pF	50V	J	1		D010681167160S	
C652SL	CERAMIC CHIP T.C	680 pF	50V	J	1		D010681167160S	
C652SR	CERAMIC CHIP T.C	680 pF	50V	J	1		D010681167160S	
C652SW	CERAMIC CHIP T.C	680 pF	50V	J	1		D010681167160S	
C653C	CERAMIC CHIP T.C	560 pF	50V	J	1		D010561167160S	
C653FL	CERAMIC CHIP T.C	560 pF	50V	J	1		D010561167160S	
C653FR	CERAMIC CHIP T.C	560 pF	50V	J	1		D010561167160S	
C653SBL	CERAMIC CHIP T.C	560 pF	50V	J	1		D010561167160S	
C653SBR	CERAMIC CHIP T.C	560 pF	50V	J	1		D010561167160S	
C653SL	CERAMIC CHIP T.C	560 pF	50V	J	1		D010561167160S	
C653SR	CERAMIC CHIP T.C	560 pF	50V	J	1		D010561167160S	
C653SW	CERAMIC CHIP T.C	560 pF	50V	J	1		D010561167160S	
C654C	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C654FL	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C654FR	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C654SBL	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C654SBR	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C654SL	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C654SR	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C654SW	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C655C	CERAMIC CHIP HIK	3300 pF	50V	K	1		D011332777160S	
C655FL	CERAMIC CHIP HIK	3300 pF	50V	K	1		D011332777160S	
C655FR	CERAMIC CHIP HIK	3300 pF	50V	K	1		D011332777160S	
C655SBL	CERAMIC CHIP HIK	3300 pF	50V	K	1		D011332777160S	
C655SBR	CERAMIC CHIP HIK	3300 pF	50V	K	1		D011332777160S	
C655SL	CERAMIC CHIP HIK	3300 pF	50V	K	1		D011332777160S	
C655SR	CERAMIC CHIP HIK	3300 pF	50V	K	1		D011332777160S	
C655SW	CERAMIC CHIP HIK	3300 pF	50V	K	1		D011332777160S	
C656	ELECT GE 85C	0.1 uF	50V	M	1		D040R10087080S	
C657-C664	CERAMIC CHIP HIK	0.1 uF	50V	K	8		D011104577160S	
	CONNECTORS							
CP651	CN.WAFER 2.0MM (16P)				1		L101100041610S	
CP652/CP653	CN.WAFER 2.0MM (12P)				2		L101100041210S	
CP654	CN.WAFER 2.0MM (18P)				1		L101100041810S	
	INTEGRATED CIRCUITS							
IC651-IC654	NJM2068M, LINEAR OP				4		J121206800020S	
	TRANSISTORS							
Q651	KRC102S(NB), NPN				1		J522010200210S	
Q652	KRA102S(PB), PNP				1		J520010200210S	
Q654C	KTC2875B(MB), NPN				1		J5222875B0010S	
Q654FL	KTC2875B(MB), NPN				1		J5222875B0010S	
Q654FR	KTC2875B(MB), NPN				1		J5222875B0010S	
Q654SBL	KTC2875B(MB), NPN				1		J5222875B0010S	
Q654SBR	KTC2875B(MB), NPN				1		J5222875B0010S	
Q654SL	KTC2875B(MB), NPN				1		J5222875B0010S	
Q654SR	KTC2875B(MB), NPN				1		J5222875B0010S	
Q654SW	KTC2875B(MB), NPN				1		J5222875B0010S	
	RESISTORS							
R651	CHIP THICK	2.2 kohm	1/16W	J	1		C20002226M160S	
R652	CHIP THICK	470 kohm	1/16W	J	1		C20004746M160S	
R653	CHIP THICK	2.2 kohm	1/16W	J	1		C20002226M160S	
R653C	CHIP THICK	100 kohm	1/16W	J	1		C20001046M160S	
R653FL	CHIP THICK	100 kohm	1/16W	J	1		C20001046M160S	
R653FR	CHIP THICK	100 kohm	1/16W	J	1		C20001046M160S	
R653SBL	CHIP THICK	100 kohm	1/16W	J	1		C20001046M160S	

REF No.	DESCRIPTION					Q'TY	PARTS No.	VER.
R653SBR	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R653SL	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R653SR	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R653SW	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R654C	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R654FL	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R654FR	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R654SBL	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R654SBR	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R654SL	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R654SR	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R654SW	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R655C	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R655FL	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R655FR	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R655SBL	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R655SBR	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R655SL	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R655SR	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R656C	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R656FL	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R656FR	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R656SBL	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R656SBR	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R656SL	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R656SR	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R656SW	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R657C	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R657FL	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R657FR	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R657SBL	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R657SBR	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R657SL	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R657SR	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R657SW	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R658C	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R658FL	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R658FR	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R658SBL	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R658SBR	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R658SL	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R658SR	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R658SW	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R659C	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R659FL	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R659FR	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R659SBL	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R659SBR	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R659SBR1	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R659SL	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R659SR	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R659SW	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R660C	CHIP THICK	2.2 kohm	1/16W	J	1	C20002226M160S		
R660FL	CHIP THICK	2.2 kohm	1/16W	J	1	C20002226M160S		
R660FR	CHIP THICK	2.2 kohm	1/16W	J	1	C20002226M160S		
R660SBL	CHIP THICK	2.2 kohm	1/16W	J	1	C20002226M160S		
R660SBR	CHIP THICK	2.2 kohm	1/16W	J	1	C20002226M160S		
R660SL	CHIP THICK	2.2 kohm	1/16W	J	1	C20002226M160S		
R660SR	CHIP THICK	2.2 kohm	1/16W	J	1	C20002226M160S		
R660SW	CHIP THICK	2.2 kohm	1/16W	J	1	C20002226M160S		
R661C	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R661FL	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R661FR	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R661SBL	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R661SL	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R661SR	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R661SW	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R655SW	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		

REF No.	DESCRIPTION					Q'TY	PARTS No.	VER.
PCB4	ASSEMBLY P.C.BOARD INPUT						7025HK0702016	G
PCB4	ASSEMBLY P.C.BOARD INPUT						7025HK0702016	K
PCB4	ASSEMBLY P.C.BOARD INPUT						7025HK0702026	A
	CAPACITORS							
C401L/R	CERAMIC CHIP T.C	220 pF	50V	J	2		D010221167160S	
C402L/R	ELECT GE 85C	10 uF	50V	M	2		D040100087070S	
C403L/R	CERAMIC CHIP T.C	220 pF	50V	J	2		D010221167160S	
C404L/R	ELECT GE 85C	10 uF	50V	M	2		D040100087070S	
C405C	CERAMIC CHIP T.C	100 pF	50V	J	1		D010101167160S	
C405L/R	CERAMIC CHIP T.C	220 pF	50V	J	2		D010221167160S	
C406L/R	ELECT GE 85C	10 uF	50V	M	2		D040100087070S	
C407L/R	CERAMIC CHIP T.C	220 pF	50V	J	2		D010221167160S	
C408L/R	ELECT GE 85C	10 uF	50V	M	2		D040100087070S	
C409L/R	CERAMIC CHIP T.C	220 pF	50V	J	2		D010221167160S	
C410L/R	ELECT GE 85C	10 uF	50V	M	2		D040100087070S	
C413FL/R	CERAMIC CHIP T.C	100 pF	50V	J	2		D010101167160S	
C415FL/R	ELECT GE 85C	10 uF	50V	M	2		D040100087070S	
C419SL/R	CERAMIC CHIP T.C	100 pF	50V	J	2		D010101167160S	
C421SL/R	ELECT GE 85C	10 uF	50V	M	2		D040100087070S	
C424SBL/R	CERAMIC CHIP T.C	100 pF	50V	J	2		D010101167160S	
C426SBL/R	ELECT GE 85C	10 uF	50V	M	2		D040100087070S	
C429C	CERAMIC CHIP T.C	100 pF	50V	J	1		D010101167160S	
C431C	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C432SW	CERAMIC CHIP T.C	100 pF	50V	J	1		D010101167160S	
C434SW	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C435FL1	CERAMIC CHIP HIK	0.01 uF	50V	K	1		D011103777160S	
C435FR1	CERAMIC CHIP HIK	0.01 uF	50V	K	1		D011103777160S	
C435SL	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C436FL1	CERAMIC CHIP HIK	0.01 uF	50V	K	1		D011103777160S	
C436FR1	CERAMIC CHIP HIK	0.01 uF	50V	K	1		D011103777160S	
C437/C438	ELECT GE 85C	10 uF	50V	M	2		D040100087070S	
C437FL1	CERAMIC CHIP T.C	100 pF	50V	J	1		D010101167160S	
C437FR1	CERAMIC CHIP T.C	47 pF	50V	J	1		D010470167160S	
C438FL1	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C438FR1	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C439-C441	CERAMIC CHIP T.C	100 pF	50V	J	3		D010101167160S	
C439SW1	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C440SW1	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C441SW1	CERAMIC CHIP T.C	100 pF	50V	J	1		D010101167160S	
C442	ELECT GE 85C	1 uF	50V	M	1		D040010087150S	
C443-C450	ELECT GE 85C	47 uF	16V	M	8		D040470083080S	
C443SW1	CERAMIC CHIP T.C	47 pF	50V	J	1		D010470167160S	
C444SW1	CERAMIC CHIP HIK	0.01 uF	50V	K	1		D011103777160S	
C445SW1	CERAMIC CHIP HIK	0.01 uF	50V	K	1		D011103777160S	
C446SW1	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C447SW1	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C448FL1	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C449FR1	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C450FL/R	CERAMIC CHIP T.C	100 pF	50V	J	2		D010101167160S	
C450SBL/R	CERAMIC CHIP T.C	100 pF	50V	J	2		D010101167160S	
C450SL/R	CERAMIC CHIP T.C	100 pF	50V	J	2		D010101167160S	
C451	FILM POLYESTER	0.003 uF	100V	J	1		D02033206C060S	
C452	FILM POLYESTER	0.1 uF	100V	J	1		D02010406C060S	
C453	ELECT GE 85C	4.7 uF	50V	M	1		D0404R7087250S	
C453SR	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C454	ELECT GE 85C	1 uF	50V	M	1		D040010087150S	
C455	FILM POLYESTER	0.003 uF	100V	J	1		D02033206C060S	
C456	FILM POLYESTER	0.1 uF	100V	J	1		D02010406C060S	
C457	ELECT GE 85C	4.7 uF	50V	M	1		D0404R7087250S	
C458	ELECT GE 85C	100 uF	16V	M	1		D040101083090S	
C459/C460	CERAMIC CHIP HIK	0.1 uF	50V	K	2		D011104577160S	
C461	ELECT GE 85C	100 uF	16V	M	1		D040101083090S	
C462-C466	ELECT GE 85C	10 uF	50V	M	5		D040100087070S	
C462SW	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C463FL1	CERAMIC CHIP T.C	47 pF	50V	J	1		D010470167160S	
C463FR1	CERAMIC CHIP T.C	47 pF	50V	J	1		D010470167160S	
C463SW	CERAMIC CHIP T.C	47 pF	50V	J	1		D010470167160S	

REF No.	DESCRIPTION					Q'TY	PARTS No.	VER.
C463SW1	CERAMIC CHIP T.C	100 pF	50V	J	1		D010101167160S	
C464SW	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C466C	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C466FL1	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C466FR1	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C467/C468	ELECT GE 85C	10 uF	50V	M	2		D040100087070S	
C467C	CERAMIC CHIP T.C	47 pF	50V	J	1		D010470167160S	
C468C	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C469/C470	ELECT GE 85C	10 uF	50V	M	2		D040100087070S	
C469C	ELECT GE 85C	0.1 uF	50V	M	1		D040R10087080S	
C469C2	ELECT GE 85C	0.1 uF	50V	M	1		D040R10087080S	
C469FF2	ELECT GE 85C	0.1 uF	50V	M	1		D040R10087080S	
C469SB2	ELECT GE 85C	0.1 uF	50V	M	1		D040R10087080S	
C469SS2	ELECT GE 85C	0.1 uF	50V	M	1		D040R10087080S	
C469SW2	ELECT GE 85C	0.1 uF	50V	M	1		D040R10087080S	
C470SBL	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C470SBR	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C471	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C471SBL/R	CERAMIC CHIP T.C	47 pF	50V	J	2		D010470167160S	
C472SBL	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C472SBR	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C473SB	ELECT GE 85C	0.1 uF	50V	M	1		D040R10087080S	
C474SL/R	ELECT GE 85C	10 uF	50V	M	2		D040100087070S	
C475SL/R	CERAMIC CHIP T.C	47 pF	50V	J	2		D010470167160S	
C476SL/R	ELECT GE 85C	10 uF	50V	M	2		D040100087070S	
C477S	ELECT GE 85C	0.1 uF	50V	M	1		D040R10087080S	
C478FL/R	ELECT GE 85C	10 uF	50V	M	2		D040100087070S	
C479FL/R	CERAMIC CHIP T.C	47 pF	50V	J	2		D010470167160S	
C480FL/R	ELECT GE 85C	10 uF	50V	M	2		D040100087070S	
C481FR	ELECT GE 85C	0.1 uF	50V	M	1		D040R10087080S	
C483FL1	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C483FR1	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C485SL1	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C485SR1	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C486FL2	CERAMIC CHIP T.C	100 pF	50V	J	1		D010101167160S	
C486FR2	CERAMIC CHIP T.C	100 pF	50V	J	1		D010101167160S	
C486SBL2	CERAMIC CHIP T.C	100 pF	50V	J	1		D010101167160S	
C486SBR2	CERAMIC CHIP T.C	100 pF	50V	J	1		D010101167160S	
C486SL2	CERAMIC CHIP T.C	100 pF	50V	J	1		D010101167160S	
C486SR2	CERAMIC CHIP T.C	100 pF	50V	J	1		D010101167160S	
C487SBL1	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C487SBR1	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C488C2	CERAMIC CHIP T.C	100 pF	50V	J	1		D010101167160S	
C489C1	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C490SW2	CERAMIC CHIP T.C	100 pF	50V	J	1		D010101167160S	
C492L/R	CERAMIC CHIP T.C	100 pF	50V	J	2		D010101167160S	
C493L/R	ELECT GE 85C	10 uF	50V	M	2		D040100087070S	
C494L/R	CERAMIC CHIP HIK	1000 pF	50V	K	2		D011102777160S	
C499FL/R	CHIP THICK	100 ohm	1/16W	J	2		C20001016M160S	
C510-C512	CERAMIC CHIP T.C	100 pF	50V	J	3		D010101167160S	
C523	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C524	ELECT GE 85C	100 uF	16V	M	1		D040101083090S	
C525	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C526	FILM POLYESTER	0.003 uF	100V	J	1		D02033206C060S	
C527	FILM POLYESTER	0.1 uF	100V	J	1		D02010406C060S	
C528/C529	ELECT GE 85C	4.7 uF	50V	M	2		D0404R7087250S	
C530	FILM POLYESTER	0.1 uF	100V	J	1		D02010406C060S	
C531	FILM POLYESTER	0.003 uF	100V	J	1		D02033206C060S	
C532	ELECT GE 85C	100 uF	16V	M	1		D040101083090S	
C533	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C534	ELECT GE 85C	100 uF	16V	M	1		D040101083090S	
C535/C536	CERAMIC CHIP HIK	0.1 uF	50V	K	2		D011104577160S	
C537	ELECT GE 85C	100 uF	16V	M	1		D040101083090S	
C541L/R	ELECT GE 85C	10 uF	50V	M	2		D040100087070S	
C542L/R	CERAMIC CHIP T.C	47 pF	50V	J	2		D010470167160S	
C543L/R	ELECT GE 85C	10 uF	50V	M	2		D040100087070S	
C544	ELECT GE 85C	0.1 uF	50V	M	1		D040R10087080S	
C567-C569	CERAMIC CHIP T.C	100 pF	50V	J	3		D010101167160S	

REF No.	DESCRIPTION					Q'TY	PARTS No.	VER.
C573L/R	CERAMIC CHIP T.C	100 pF	50V	J	2		D010101167160S	
C574L/R	ELECT GE 85C	10 uF	50V	M	2		D040100087070S	
	CONNECTORS							
CN704	CN.WIRE 230MM (14P)				1		L000231140020S	
CP1003	CN.WAFER 2.0MM (18P)				1		L101100031810S	
CP1004	CN.WAFER 2.0MM (12P)				1		L101100031210S	
CP402	CN.WAFER 2.0MM (10P)				1		L101220100010S	
CP411	CN.WAFER 2.0MM (10P)				1		L101100031010S	
CP412	CN.WAFER 2.0MM (16P)				1		L101100031610S	
CP416	CN.WAFER 2.0MM (6P)				1		L101100030610S	
CP417	CN.WAFER 2.0MM (4P)				1		L101100030410S	
	DIODES							
D405SW	KDS4148U, SWITCHING CHIP				1		K005041480030S	
D406SW	KDS4148U, SWITCHING CHIP				1		K005041480030S	
D407C	KDS4148U, SWITCHING CHIP				1		K005041480030S	
D408C	KDS4148U, SWITCHING CHIP				1		K005041480030S	
D409SBR	KDS4148U, SWITCHING CHIP				1		K005041480030S	

REF No.	DESCRIPTION					Q'TY	PARTS No.	VER.
Q537FR2	KTC2875B(MB), NPN					1	J5222875B0010S	
Q537SBL2	KTC2875B(MB), NPN					1	J5222875B0010S	
Q537SL2	KTC2875B(MB), NPN					1	J5222875B0010S	
Q537SR2	KTC2875B(MB), NPN					1	J5222875B0010S	
	RESISTORS							
R401L/R	CHIP THICK	470 ohm	1/16W	J	2	C20004716M160S		
R402L/R	CHIP THICK	91 kohm	1/16W	J	2	C20009136M160S		
R403L/R	CHIP THICK	470 ohm	1/16W	J	2	C20004716M160S		
R404L/R	CHIP THICK	91 kohm	1/16W	J	2	C20009136M160S		
R405L/R	CHIP THICK	470 ohm	1/16W	J	2	C20004716M160S		
R406L/R	CHIP THICK	91 kohm	1/16W	J	2	C20009136M160S		
R407L/R	CHIP THICK	470 ohm	1/16W	J	2	C20004716M160S		
R408L/R	CHIP THICK	91 kohm	1/16W	J	2	C20009136M160S		
R409L/R	CHIP THICK	470 ohm	1/16W	J	2	C20004716M160S		
R410L/R	CHIP THICK	91 kohm	1/16W	J	2	C20009136M160S		
R413FL/R	CHIP THICK	470 ohm	1/16W	J	2	C20004716M160S		
R415FL/R	CHIP THICK	2.2 Mohm	1/16W	J	2	C20002256M160S		
R417FL/R	CHIP THICK	100 ohm	1/16W	J	2	C20001016M160S		
R418SL/R	CHIP THICK	470 ohm	1/16W	J	2	C20004716M160S		
R420SL/R	CHIP THICK	2.2 Mohm	1/16W	J	2	C20002256M160S		
R422SL/R	CHIP THICK	100 ohm	1/16W	J	2	C20001016M160S		
R423SBL/R	CHIP THICK	470 ohm	1/16W	J	2	C20004716M160S		
R425SBL/R	CHIP THICK	2.2 Mohm	1/16W	J	2	C20002256M160S		
R427SBL/R	CHIP THICK	100 ohm	1/16W	J	2	C20001016M160S		
R428C	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R429SW	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R431C	CHIP THICK	2.2 Mohm	1/16W	J	1	C20002256M160S		
R433C	CHIP THICK	100 ohm	1/16W	J	1	C20001016M160S		
R435SW	CHIP THICK	2.2 Mohm	1/16W	J	1	C20002256M160S		
R437SW	CHIP THICK	100 ohm	1/16W	J	1	C20001016M160S		
R438FL1	CHIP THICK	7.5 kohm	1/16W	J	1	C20007526M160S		
R438FR1	CHIP THICK	7.5 kohm	1/16W	J	1	C20007526M160S		
R438-R440	CHIP THICK	47 ohm	1/16W	J	3	C20004706M160S		
R438SW1	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R439FL1	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R439FR1	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R439SW1	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R440FL1	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R440FR1	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R440SW1	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R441	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R441FL1	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R441FR1	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R441SW1	CHIP THICK	0 ohm	1/16W	J	1	C20000006M160S		
R442FL1	CHIP THICK	100 ohm	1/16W	J	1	C20001016M160S		
R442FR1	CHIP THICK	100 ohm	1/16W	J	1	C20001016M160S		
R442SW1	CHIP THICK	5.6 kohm	1/16W	J	1	C20005626M160S		
R443FL1	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R443FR1	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R444SW1	CHIP THICK	3 kohm	1/16W	J	1	C20003026M160S		
R445SW1	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R446/R447	CHIP THICK	4.7 kohm	1/16W	J	2	C20004726M160S		
R446SW	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R447SW1	CHIP THICK	100 ohm	1/16W	J	1	C20001016M160S		
R448/R449	METAL FILM 100PPM	100 ohm	1W	J	2	C060010165060S		
R448SW1	CHIP THICK	150 ohm	1/16W	J	1	C20001516M160S		
R449FL1	CHIP THICK	0 ohm	1/16W	J	1	C20000006M160S		
R450SW	CHIP THICK	100 ohm	1/16W	J	1	C20001016M160S		
R451SW	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R452SW	CHIP THICK	1.8 kohm	1/16W	J	1	C20001826M160S		
R453SW	CHIP THICK	18 kohm	1/16W	J	1	C20001836M160S		
R463C	CHIP THICK	100 ohm	1/16W	J	1	C20001016M160S		
R463FL1	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R463FR1	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R463SW1	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R464C	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R465C	CHIP THICK	1.2 kohm	1/16W	J	1	C20001226M160S		
R466C	CHIP THICK	5.1 kohm	1/16W	J	1	C20005126M160S		

REF No.	DESCRIPTION					Q'TY	PARTS No.	VER.
R467C	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R468C	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R468SW	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R469C	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R471C	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R471FF2	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R471FL2	CHIP THICK	22 kohm	1/16W	J	1	C20002236M160S		
R471FR2	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R471SB2	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R471SBR2	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R471SL2	CHIP THICK	22 kohm	1/16W	J	1	C20002236M160S		
R471SR2	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R471SS2	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R471SW2	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R472C	CHIP THICK	22 kohm	1/16W	J	1	C20002236M160S		
R472FR2	CHIP THICK	22 kohm	1/16W	J	1	C20002236M160S		
R472SBR2	CHIP THICK	22 kohm	1/16W	J	1	C20002236M160S		
R472SR2	CHIP THICK	22 kohm	1/16W	J	1	C20002236M160S		
R472SW2	CHIP THICK	22 kohm	1/16W	J	1	C20002236M160S		
R473C	CHIP THICK	470 kohm	1/16W	J	1	C20004746M160S		
R473FF2	CHIP THICK	470 kohm	1/16W	J	1	C20004746M160S		
R473SB2	CHIP THICK	470 kohm	1/16W	J	1	C20004746M160S		
R473SS2	CHIP THICK	470 kohm	1/16W	J	1	C20004746M160S		
R473SW2	CHIP THICK	470 kohm	1/16W	J	1	C20004746M160S		
R474C	CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S		
R474FF2	CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S		
R474SB2	CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S		
R474SS2	CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S		
R474SW2	CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S		
R475SBL/R	CHIP THICK	100 ohm	1/16W	J	2	C20001016M160S		
R476SBL/R	CHIP THICK	100 kohm	1/16W	J	2	C20001046M160S		
R477SBL/R	CHIP THICK	1.2 kohm	1/16W	J	2	C20001226M160S		
R478SBL/R	CHIP THICK	5.1 kohm	1/16W	J	2	C20005126M160S		
R479SBL/R	CHIP THICK	100 kohm	1/16W	J	2	C20001046M160S		
R480SBL/R	CHIP THICK	470 ohm	1/16W	J	2	C20004716M160S		
R481SBL/R	CHIP THICK	470 ohm	1/16W	J	2	C20004716M160S		
R483SBL/R	CHIP THICK	10 kohm	1/16W	J	2	C20001036M160S		
R484SBL/R	CHIP THICK	22 kohm	1/16W	J	2	C20002236M160S		
R485SB	CHIP THICK	470 kohm	1/16W	J	1	C20004746M160S		
R486SB	CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S		
R487SL/R	CHIP THICK	100 ohm	1/16W	J	2	C20001016M160S		
R488SL/R	CHIP THICK	100 kohm	1/16W	J	2	C20001046M160S		
R489SL/R	CHIP THICK	1.2 kohm	1/16W	J	2	C20001226M160S		
R490SL/R	CHIP THICK	5.1 kohm	1/16W	J	2	C20005126M160S		
R491SL/R	CHIP THICK	100 kohm	1/16W	J	2	C20001046M160S		
R492SL/R	CHIP THICK	470 ohm	1/16W	J	2	C20004716M160S		
R493SL/R	CHIP THICK	470 ohm	1/16W	J	2	C20004716M160S		
R495SL/R	CHIP THICK	10 kohm	1/16W	J	2	C20001036M160S		
R496SL/R	CHIP THICK	22 kohm	1/16W	J	2	C20002236M160S		
R497S	CHIP THICK	470 kohm	1/16W	J	1	C20004746M160S		
R498S	CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S		
R500FL/R	CHIP THICK	100 kohm	1/16W	J	2	C20001046M160S		
R501FL/R	CHIP THICK	1.2 kohm	1/16W	J	2	C20001226M160S		
R502FL/R	CHIP THICK	5.1 kohm	1/16W	J	2	C20005126M160S		
R503FL/R	CHIP THICK	100 kohm	1/16W	J	2	C20001046M160S		
R504FL/R	CHIP THICK	470 ohm	1/16W	J	2	C20004716M160S		
R505FL/R	CHIP THICK	470 ohm	1/16W	J	2	C20004716M160S		
R507FL/R	CHIP THICK	10 kohm	1/16W	J	2	C20001036M160S		
R508FL/R	CHIP THICK	22 kohm	1/16W	J	2	C20002236M160S		
R509F	CHIP THICK	470 kohm	1/16W	J	1	C20004746M160S		
R510F	CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S		
R515FL2	CHIP THICK	100 ohm	1/16W	J	1	C20001016M160S		
R515FR2	CHIP THICK	100 ohm	1/16W	J	1	C20001016M160S		
R515SBL2	CHIP THICK	100 ohm	1/16W	J	1	C20001016M160S		
R515SBR2	CHIP THICK	100 ohm	1/16W	J	1	C20001016M160S		
R515SL2	CHIP THICK	100 ohm	1/16W	J	1	C20001016M160S		
R515SR2	CHIP THICK	100 ohm	1/16W	J	1	C20001016M160S		
R516FL2	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		

REF No.	DESCRIPTION					Q'TY	PARTS No.	VER.
R516FR2	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R516SBL2	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R516SBR2	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R516SL2	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R516SR2	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R517C2	CHIP THICK	100 ohm	1/16W	J	1	C20001016M160S		
R518C2	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R519SW2	CHIP THICK	100 ohm	1/16W	J	1	C20001016M160S		
R520SW2	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R521L/R	CHIP THICK	470 ohm	1/16W	J	2	C20004716M160S		
R522C	CHIP THICK	47 ohm	1/16W	J	1	C20004706M160S		
R522D	CHIP THICK	47 ohm	1/16W	J	1	C20004706M160S		
R522L/R	CHIP THICK	100 kohm	1/16W	J	2	C20001046M160S		
R522S	CHIP THICK	47 ohm	1/16W	J	1	C20004706M160S		
R524L/R	CHIP THICK	470 ohm	1/16W	J	2	C20004716M160S		
R526L/R	CHIP THICK	100 kohm	1/16W	J	2	C20001046M160S		
R532	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R532L/R	CHIP THICK	470 ohm	1/16W	J	2	C20004716M160S		
R533L/R	CHIP THICK	100 kohm	1/16W	J	2	C20001046M160S		
R534FL1	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R535FR1	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R536SW2	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R537C2	CHIP THICK	22 kohm	1/16W	J	1	C20002236M160S		
R537SBL2	CHIP THICK	22 kohm	1/16W	J	1	C20002236M160S		
R538C2	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R538FL2	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R538SBL2	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R538SL2	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R539C2	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R540C2	CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S		
R541C2	CHIP THICK	470 kohm	1/16W	J	1	C20004746M160S		
R545C2	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R545FL2	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R545FR2	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R545SBL2	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R545SBR2	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R545SL2	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R545SR2	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R545SW2	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R552/R553	CHIP THICK	4.7 kohm	1/16W	J	2	C20004726M160S		
R554/R555	METAL FILM 100PPM	100 ohm	1W	J	2	C060010165060S		
R563L/R	CHIP THICK	100 ohm	1/16W	J	2	C20001016M160S		
R564L/R	CHIP THICK	100 kohm	1/16W	J	2	C20001046M160S		
R565L/R	CHIP THICK	1.2 kohm	1/16W	J	2	C20001226M160S		
R566L/R	CHIP THICK	5.1 kohm	1/16W	J	2	C20005126M160S		
R567L/R	CHIP THICK	100 kohm	1/16W	J	2	C20001046M160S		
R568L/R	CHIP THICK	470 ohm	1/16W	J	2	C20004716M160S		
R569L/R	CHIP THICK	470 ohm	1/16W	J	2	C20004716M160S		
R571L/R	CHIP THICK	10 kohm	1/16W	J	2	C20001036M160S		
R572L/R	CHIP THICK	22 kohm	1/16W	J	2	C20002236M160S		
R573	CHIP THICK	470 kohm	1/16W	J	1	C20004746M160S		
R574	CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S		
R582C	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R583SB	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R584S	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R585F	CHIP THICK	10 kohm	1/16W	J	1	C20001036M160S		
R592-R594	CHIP THICK	47 ohm	1/16W	J	3	C20004706M160S		
	MISCELLANEOUS							
JACK410	TER,RCA (8P)				1	G608802CGG03YS		
JACK411	TER,RCA (8P)				1	G608802CGG03YS		
JACK412	TER,RCA (8P)				1	G608802CGG02YS		
JACK413	TER,RCA (8P)				1	G608802CGG02YS		
ZD401-ZD404	ZENER, MTZJ7.5B-0.5W				4	K06007R544520S		
PCB4-1 ASSEMBLY P.C.BOARD RS232								
BD961-BD966	BEAD COIL, SMD1608 TYPE				6	D340160811210S		
C961/C962	ELECT GE 85C	0.1 uF	50V	M	2	D040R10087080S		
C963	CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S		
C964	ELECT GE 85C	100 uF	10V	M	1	D040101082090S		

REF No.	DESCRIPTION					Q'TY	PARTS No.	VER.
C966/C967	ELECT GE 85C	0.1 uF	50V	M	2		D040R10087080S	
C968	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C979	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C981	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C982	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	
C983	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C986	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C989	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C994/C995	CERAMIC CHIP T.C	100 pF	50V	J	2		D010101167160S	
CP961	CN.WAFER 2.0MM (8P)				1		L101100030810S	
D961	1SS133T, SWITCHING				1		K000013300520S	
IC962	ILX3232D, LOGIC-INTERFACE				1		J046323200020S	
IC965	PL2303HX, LOGIC				1		J040230300010S	
IC966	74LCX244MTCX, LOGIC				1		J040742440180S	
JACK961	CN.WAFER INTERFACE				1		L103090090030S	
JACK965	CN.PLUG CONTACT (9P)				1		G480040100010S	
Q963	KTA1266Y,0.6W, PNP				1		J5001266Y0050S	
Q964	KRC105S(NE), NPN				1		J522010500210S	
Q967	KRC105S(NE), NPN				1		J522010500210S	
R970	CHIP THICK	1 kohm	1/16W	J	1		C20001026M160S	
R971	CHIP THICK	3.3 kohm	1/16W	J	1		C20003326M160S	
R976	CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	
R978	CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	
R980	CHIP THICK	1.5 kohm	1/16W	J	1		C20001526M160S	
R984/R985	CHIP THICK	33 ohm	1/16W	J	2		C20003306M160S	
R986	CHIP THICK	4.7 kohm	1/16W	J	1		C20004726M160S	
R987/R988	CHIP THICK	47 ohm	1/16W	J	2		C20004706M160S	
PCB4-2 ASSEMBLY P.C.BOARD DIGITAL								
BD602-BD610	BEAD COIL, SMD1608 TYPE				9		D340160811210S	
BD611	BEAD COIL, SMD1608 TYPE				1		D340160811210S	G/K
C601	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C602	ELECT GE 85C	47 uF	16V	M	1		D040470083080S	
C603	CERAMIC CHIP T.C	22 pF	50V	J	1		D010220167160S	
C604	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C605	ELECT GE 85C	47 uF	16V	M	1		D040470083080S	
C606	CERAMIC CHIP T.C	22 pF	50V	J	1		D010220167160S	
C607	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C608	ELECT GE 85C	47 uF	16V	M	1		D040470083080S	
C609	CERAMIC CHIP T.C	22 pF	50V	J	1		D010220167160S	
C610	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C611	ELECT GE 85C	47 uF	16V	M	1		D040470083080S	
C612	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C613	ELECT GE 85C	47 uF	16V	M	1		D040470083080S	
C614	CERAMIC CHIP T.C	22 pF	50V	J	1		D010220167160S	
C616	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C617	ELECT GE 85C	47 uF	16V	M	1		D040470083080S	
C618	ELECT GE 85C	0.1 uF	50V	M	1		D040R10087080S	
C619	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C620	CERAMIC CHIP T.C	22 pF	50V	J	1		D010220167160S	
C621	ELECT GE 85C	0.1 uF	50V	M	1		D040R10087080S	
C622	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C623	CERAMIC CHIP T.C	22 pF	50V	J	1		D010220167160S	
C624	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C625	CERAMIC CHIP HIK	0.01 uF	50V	K	1		D011103777160S	
C626	ELECT GE 85C	4.7 uF	50V	M	1		D0404R7087250S	
C627/C628	CERAMIC CHIP HIK	0.01 uF	50V	K	2		D011103777160S	
C635	ELECT GE 85C	10 uF	50V	M	1		D040100087070S	G/K
C940	CERAMIC CHIP T.C	22 pF	50V	J	1		D010220167160S	
C944	CERAMIC CHIP T.C	22 pF	50V	J	1		D010220167160S	
CP601	CN.WAFER 2.0MM (14P)				1		L101100031410S	
CP602	CN.WAFER 2.0MM (3P)				1		L101220030010S	
D601-D604	KDS4148U, SWITCHING CHIP				4		K005041480030S	
D605/D606	KDS4148U, SWITCHING CHIP				2		K005041480030S	A
IC601	74VHCU04MX, LOGIC				1		J040740400260S	
IC602	MM74HC151MX, LOGIC				1		J040741510040S	
IC604	FOD817, PHOTO COUPLER				1		K614817000020S	
IC605	FOD817, PHOTO COUPLER				1		K614817000020S	A
JACK601	TER,RCA 2PIN				1		G601206AG020YS	

REF No.	DESCRIPTION					Q'TY	PARTS No.	VER.
JACK602	MODULE, JSR1165-C /OPTICAL				1		E100116500040S	
JACK603	MODULE, JSR1165-C /OPTICAL				1		E100116500040S	
JACK604	MODULE, JSR1165-C /OPTICAL				1		E100116500040S	
JACK605	MODULE, JST1165-B /OPTICAL				1		E100116500030S	
JACK606	JACK,D3.5				1		G401035320010S	
JACK607	JACK,D3.5				1		G401035320010S	
JACK608	JACK,D3.5				1		G401035320010S	
L601-L604	INDUCTOR COIL, 4.7UH				4		D3304R7000150S	
L606/L607	INDUCTOR COIL, 4.7UH				2		D3304R7000150S	
L608/L609	INDUCTOR COIL, 2.2UH				2		D3302R2000150S	
L610	INDUCTOR COIL, 4.7UH				1		D3304R7000150S	
Q601	KTA1266Y, PNP				1		J5001266Y0050S	
Q602	KRC105S(NE), NPN				1		J522010500210S	
Q603	KRA105S(PE), PNP				1		J520010500210S	A
Q604	KRC110S(NK), NPN				1		J522011000210S	A
Q605	KRC102S(NB), NPN				1		J522010200210S	
Q606	KRC111S(NM), NPN				1		J522011100210S	G/K
Q607	KTC3200BL, NPN				1		J5023200B0050S	G/K
R601-R604	CHIP THICK	4.7 kohm	1/16W	J	4		C20004726M160S	
R605	CHIP THICK	75 ohm	1/16W	J	1		C20007506M160S	
R606	CHIP THICK	100 ohm	1/16W	J	1		C20001016M160S	
R607	CHIP THICK	100 kohm	1/16W	J	1		C20001046M160S	
R608	CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	
R609	CHIP THICK	2.2 kohm	1/16W	J	1		C20002226M160S	
R610	CHIP THICK	75 ohm	1/16W	J	1		C20007506M160S	
R611	CHIP THICK	100 ohm	1/16W	J	1		C20001016M160S	
R612	CHIP THICK	100 kohm	1/16W	J	1		C20001046M160S	
R613	CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	
R614	CHIP THICK	2.2 kohm	1/16W	J	1		C20002226M160S	
R618	METAL FILM 100PPM	47 ohm	1/4W	J	1		C060047063050S	
R619	CHIP THICK	10 kohm	1/16W	J	1		C20001036M160S	
R620	CHIP THICK	3.3 kohm	1/16W	J	1		C20003326M160S	
R621	CHIP THICK	47 kohm	1/16W	J	1		C20004736M160S	
R624	CHIP THICK	2 kohm	1/16W	J	1		C20002026M160S	
R625	CHIP THICK	100 ohm	1/16W	J	1		C20001016M160S	A
R625	CHIP THICK	3.9 kohm	1/16W	J	1		C20003926M160S	G/K
R638	CHIP THICK	2.4 kohm	1/16W	J	1		C20002426M160S	
R641	CHIP THICK	4.7 kohm	1/16W	J	1		C20004726M160S	G/K
R642	CHIP THICK	1 kohm	1/16W	J	1		C20001026M160S	G/K
R643	CHIP THICK	47 kohm	1/16W	J	1		C20004736M160S	A
R644	CHIP THICK	0 ohm	1/16W	J	1		C20000006M160S	A
R645/R646	CHIP THICK	47 kohm	1/16W	J	2		C20004736M160S	A
ZD601	ZENER, MTZJ15B-0.5W				1		K06015R044520S	
PCB4-3 ASSEMBLY P.C.BOARD AUX(FRONT)								
BKT301	PLATE, PTE I0.3 A4/EARTH AUX				1		4470211346000S	
C347	ELECT GE 85C	10 uF	50V	M	1		D040100087060S	
C358	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C359	ELECT GE 85C	1 uF	50V	M	1		D040010087090S	
C360	CERAMIC CHIP HIK	0.022 uF	25V	K	1		D011223777160S	
C361	CERAMIC CHIP T.C	220 pF	50V	J	1		D010221167160S	
C363	CERAMIC CHIP HIK	1000 pF	50V	K	1		D011102777160S	
C364	CERAMIC CHIP HIK	0.022 uF	25V	K	1		D011223777160S	
C365	CERAMIC CHIP T.C	220 pF	50V	J	1		D010221167160S	
C366	CERAMIC CHIP HIK	1000 pF	50V	K	1		D011102777160S	
C367/C368	CERAMIC CHIP T.C	47 pF	50V	J	2		D010470167160S	
C374/C375	ELECT GE 85C	10 uF	50V	M	2		D040100087060S	
CN307	CN.WIRE 60MM (7P)				1		L000600070030S	
D350/D351	KDS4148U, SWITCHING CHIP				2		K005041480030S	
DZ302	MTZJ3.3B, ZENER				1		K06003R344520S	
IC302	NJM2068M, LINEAR OP				1		J121206800020S	
JACK303	JACK,D3.5				1		G401035180050S	
JACK305	JACK,D3.5				1		G401035180050S	
R303	CHIP THICK	4.7 kohm	1/16W	J	1		C20004726M160S	
R358	CHIP THICK	270 ohm	1/16W	J	1		C20002716M160S	
R364	CHIP THICK	270 ohm	1/16W	J	1		C20002716M160S	
R368	CHIP THICK	270 ohm	1/16W	J	1		C20002716M160S	
R373	CHIP THICK	270 ohm	1/16W	J	1		C20002716M160S	
R382	CHIP THICK	100 ohm	1/16W	J	1		C20001016M160S	

REF No.	DESCRIPTION					Q'TY	PARTS No.	VER.
R385	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R386	CHIP THICK	100 ohm	1/16W	J	1	C20001016M160S		
R387	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R388	CHIP THICK	1.2 kohm	1/16W	J	1	C20001226M160S		
R389	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R392	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
R393	CHIP THICK	470 ohm	1/16W	J	1	C20004716M160S		
R394	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R396	CHIP THICK	4.7 kohm	1/16W	J	1	C20004726M160S		
R397	CHIP THICK	1 kohm	1/16W	J	1	C20001026M160S		
R398A	CHIP THICK	100 kohm	1/16W	J	1	C20001046M160S		
PCB5	ASSEMBLY P.C.BOARD HDMI					7025HK0702013		G
PCB5	ASSEMBLY P.C.BOARD HDMI					7025HK0702013		K
PCB5	ASSEMBLY P.C.BOARD HDMI					7025HK0702023		A
	COILS							
B1003	BEAD COIL, SMD1608 TYPE					1	D340160811210S	
B2001/B2002	BEAD COIL, SMD1608 TYPE					2	D340160811210S	
B2005-B2010	BEAD COIL, SMD1608 TYPE					6	D340160811210S	
B3001-B3003	BEAD COIL, SMD1608 TYPE					3	D340160811210S	
B3005-B3007	BEAD COIL, SMD1608 TYPE					3	D340160811210S	
B3010-B3013	BEAD COIL, SMD1608 TYPE					4	D340160811210S	
B4001	BEAD COIL, SMD1608 TYPE					1	D340160811210S	A
B4003-B4005	BEAD COIL, SMD1608 TYPE					3	D340160811210S	A
B4007	BEAD COIL, SMD1608 TYPE					1	D340160811210S	A
B5002-B5006	BEAD COIL, SMD1608 TYPE					5	D340160811210S	
B5008-B5011	BEAD COIL, SMD1608 TYPE					4	D340160811210S	
B5013-B5019	BEAD COIL, SMD1608 TYPE					7	D340160811210S	
B5022-B5024	BEAD COIL, SMD1608 TYPE					3	D340160811210S	
L2001-L3003	CHIP COIL, 2.2UH					3	D311160802220S	
L3001/L3002	CHIP COIL, 1UH					2	D311160801020S	
L3004-L3007	CHIP COIL, 1UH					4	D311160801020S	
L3008/L3009	CHIP COIL, 2.2UH					2	D311160802220S	
L3011	CHIP COIL, 2.2UH					1	D311160802220S	
L4001	CHIP COIL, 2.2UH					1	D311160802220S	A
	CAPACITORS							
C1003/C1004	CERAMIC CHIP T.C	18 pF	50V	J	2	D010180167160S		
C1005/C1006	CERAMIC CHIP HIK	0.1 uF	50V	K	2	D011104577160S		
C1007	ELECT CHIP(GE)	100 uF	6.3V	MVG	1	D050101081650S		
C1008	ELECT CHIP(GE)	220 uF	6.3V	MVG	1	D050221081200S		
C1009	CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S		
C1010	ELECT CHIP(GE)	220 uF	6.3V	MVG	1	D050221081200S		
C1011-C1013	ELECT CHIP(GE)	22 uF	6.3V	MVG	3	D050220081460S		
C1014	CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S		
C1015	ELECT CHIP(GE)	100 uF	6.3V	MVG	1	D050101081650S		
C2001	ELECT CHIP(GE)	10 uF	16V	MVG	1	D050100083470S		
C2002	CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S		
C2003	ELECT CHIP(GE)	10 uF	16V	MVG	1	D050100083470S		
C2004	CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S		
C2005	ELECT CHIP(GE)	10 uF	16V	MVG	1	D050100083470S		
C2006	CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S		
C2009-C2012	CERAMIC CHIP HIK	0.1 uF	50V	K	4	D011104577160S		
C2013	CERAMIC CHIP T.C	20 pF	50V	J	1	D010200167160S		
C2014-C2021	ELECT CHIP(GE)	10 uF	16V	MVG	8	D050100083470S		
C2022/C2023	CERAMIC CHIP T.C	220 pF	50V	J	2	D010221167160S		
C2024/C2025	ELECT CHIP(GE)	10 uF	16V	MVG	2	D050100083470S		
C2026	CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S		
C2027	ELECT CHIP(GE)	220 uF	6.3V	MVG	1	D050221081200S		
C2028	CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S		
C2029	ELECT CHIP(GE)	10 uF	16V	MVG	1	D050100083470S		
C2030-C2032	CERAMIC CHIP HIK	0.1 uF	50V	K	3	D011104577160S		
C2033	CERAMIC CHIP T.C	0.01 uF	50V	K	1	D010103777160S		
C2034/C2035	CERAMIC CHIP HIK	0.1 uF	50V	K	2	D011104577160S		
C2036	ELECT CHIP(GE)	10 uF	16V	MVG	1	D050100083470S		
C2037-C2043	CERAMIC CHIP HIK	0.1 uF	50V	K	7	D011104577160S		
C2044	CERAMIC CHIP T.C	15 pF	50V	J	1	D010150167160S		
C2045-C2055	CERAMIC CHIP HIK	0.1 uF	50V	K	11	D011104577160S		
C2056	ELECT CHIP(GE)	10 uF	16V	MVG	1	D050100083470S		

REF No.	DESCRIPTION					Q'TY	PARTS No.	VER.
C2057/C2058	CERAMIC CHIP HIK	0.1 uF	50V	K	2		D011104577160S	
C2059	ELECT CHIP(GE)	10 uF	16V	MVG	1		D050100083470S	
C2060/C2061	CERAMIC CHIP HIK	0.1 uF	50V	K	2		D011104577160S	
C2062	ELECT CHIP(GE)	100 uF	6.3V	MVG	1		D050101081650S	
C2063	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C2064	ELECT CHIP(GE)	100 uF	6.3V	MVG	1		D050101081650S	
C2065	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C2066	ELECT CHIP(GE)	10 uF	16V	MVG	1		D050100083470S	
C2067	CERAMIC CHIP T.C	20 pF	50V	J	1		D010200167160S	
C2068	CERAMIC CHIP T.C	15 pF	50V	J	1		D010150167160S	
C2069	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C2072	ELECT CHIP(GE)	2.2 uF	50V	MVG	1		D0502R2083200S	
C2073-C2079	CERAMIC CHIP T.C	47 pF	50V	J	6		D010470167160S	
C2077	CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	
C2081	CERAMIC CHIP T.C	15 pF	50V	J	1		D010150167160S	
C3003	ELECT CHIP(GE)	100 uF	6.3V	MVG	1		D050101081650S	
C3004	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C3005	ELECT CHIP(GE)	100 uF	6.3V	MVG	1		D050101081650S	
C3006	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C3007	ELECT CHIP(GE)	100 uF	6.3V	MVG	1		D050101081650S	
C3008	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C3009	ELECT CHIP(GE)	10 uF	16V	MVG	1		D050100083470S	
C3010	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C3011	ELECT CHIP(GE)	10 uF	16V	MVG	1		D050100083470S	
C3012	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C3013	CERAMIC CHIP T.C	56 pF	50V	J	1		D010560167160S	
C3014	CERAMIC CHIP T.C	180 pF	50V	J	1		D010181167160S	
C3015/C3016	CERAMIC CHIP T.C	56 pF	50V	J	2		D010560167160S	
C3017	CERAMIC CHIP T.C	180 pF	50V	J	1		D010181167160S	
C3018/C3019	CERAMIC CHIP T.C	56 pF	50V	J	2		D010560167160S	
C3020	CERAMIC CHIP T.C	180 pF	50V	J	1		D010181167160S	
C3021	CERAMIC CHIP T.C	56 pF	50V	J	1		D010560167160S	
C3022	ELECT CHIP(GE)	100 uF	6.3V	MVG	1		D050101081650S	
C3023	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C3024	ELECT CHIP(GE)	100 uF	6.3V	MVG	1		D050101081650S	
C3025	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C3026	ELECT CHIP(GE)	100 uF	6.3V	MVG	1		D050101081650S	
C3027/C3028	CERAMIC CHIP HIK	0.1 uF	50V	K	2		D011104577160S	
C3029	CERAMIC CHIP HIK	1000 pF	50V	K	1		D011102777160S	
C3030	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C3031	CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	
C3032/C3033	CERAMIC CHIP T.C	47 pF	50V	J	2		D010470167160S	
C3034-C3037	CERAMIC CHIP HIK	0.1 uF	50V	K	4		D011104577160S	
C3038	ELECT CHIP(GE)	10 uF	16V	MVG	1		D050100083470S	
C3039	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C3040	CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	
C3041	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C3042	ELECT CHIP(GE)	10 uF	16V	MVG	1		D050100083470S	
C3043	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C3044	ELECT CHIP(GE)	10 uF	16V	MVG	1		D050100083470S	
C3045	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C3046	ELECT CHIP(GE)	10 uF	16V	MVG	1		D050100083470S	
C3047	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C3048	CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	
C3049/C3050	CERAMIC CHIP HIK	0.1 uF	50V	K	2		D011104577160S	
C3051	CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	
C3052	CERAMIC CHIP HIK	0.082 uF	50V		1		D011823787160S	
C3053	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C3054/C3055	CERAMIC CHIP T.C	18 pF	50V	J	2		D010180167160S	
C3056/C3057	CERAMIC CHIP HIK	0.1 uF	50V	K	2		D011104577160S	
C3058	ELECT CHIP(GE)	10 uF	16V	MVG	1		D050100083470S	
C3059-C3066	CERAMIC CHIP HIK	0.1 uF	50V	K	8		D011104577160S	
C3067	CERAMIC CHIP HIK	1 uF	50V		1		D011105597160S	
C3068	ELECT CHIP(GE)	10 uF	16V	MVG	1		D050100083470S	
C3069/C3070	CERAMIC CHIP HIK	0.1 uF	50V	K	2		D011104577160S	
C3071	CERAMIC CHIP HIK	1 uF	50V		1		D011105597160S	
C3072	ELECT CHIP(GE)	10 uF	16V	MVG	1		D050100083470S	
C3073	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	

REF No.	DESCRIPTION					Q'TY	PARTS No.	VER.
C3074	ELECT CHIP(GE)	100 uF	6.3V	MVG	1		D050101081650S	
C3075/C3076	CERAMIC CHIP T.C	18 pF	50V	J	2		D010180167160S	
C3077-C3082	CERAMIC CHIP HIK	0.1 uF	50V	K	6		D011104577160S	
C3083/C3084	CERAMIC CHIP T.C	47 pF	50V	J	2		D010470167160S	
C3085	CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	
C3086-C3092	CERAMIC CHIP HIK	0.1 uF	50V	K	7		D011104577160S	
C3093	CERAMIC CHIP T.C	15 pF	50V	J	1		D010150167160S	
C3094-C3098	CERAMIC CHIP HIK	0.1 uF	50V	K	5		D011104577160S	
C3099	ELECT CHIP(GE)	100 uF	6.3V	MVG	1		D050101081650S	
C3100-C3110	CERAMIC CHIP HIK	0.1 uF	50V	K	11		D011104577160S	
C3111	CERAMIC CHIP T.C	15 pF	50V	J	1		D010150167160S	
C3112-C3115	CERAMIC CHIP HIK	0.1 uF	50V	K	4		D011104577160S	
C3116	CERAMIC CHIP T.C	0.01 uF	50V	K	1		D010103777160S	
C3117	ELECT CHIP(GE)	10 uF	16V	MVG	1		D050100083470S	
C3118/C3119	CERAMIC CHIP T.C	0.01 uF	50V	K	2		D010103777160S	
C3120/C3121	CERAMIC CHIP T.C	47 pF	50V	J	2		D010470167160S	
C3122/C3123	CERAMIC CHIP T.C	0.01 uF	50V	K	2		D010103777160S	
C3124-C3128	ELECT CHIP(GE)	100 uF	6.3V	MVG	5		D050101081650S	
C3129-C3132	CERAMIC CHIP HIK	0.1 uF	50V	K	4		D011104577160S	
C3133	CERAMIC CHIP T.C	15 pF	50V	J	1		D010150167160S	
C3134	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C4001	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A
C4003/C4004	CERAMIC CHIP T.C	20 pF	50V	J	2		D010200167160S	A
C4005	ELECT CHIP(GE)	10 uF	16V	MVG	1		D050100083470S	A
C4006-C4008	CERAMIC CHIP HIK	0.1 uF	50V	K	3		D011104577160S	A
C4009/C4010	CERAMIC CHIP T.C	20 pF	50V	J	2		D010200167160S	A
C4012	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A
C4013	ELECT CHIP(GE)	10 uF	16V	MVG	1		D050100083470S	A
C4018	ELECT CHIP(GE)	10 uF	16V	MVG	1		D050100083470S	A
C4019/C4020	CERAMIC CHIP T.C	0.01 uF	50V	K	2		D010103777160S	A
C4021/C4022	CERAMIC CHIP T.C	47 pF	50V	J	2		D010470167160S	A
C4023	CERAMIC CHIP HIK	3300 pF	50V	K	1		D011332777160S	A
C4024	CERAMIC CHIP T.C	470 pF	50V	J	1		D010471167160S	A
C4026	CERAMIC CHIP T.C	470 pF	50V	J	1		D010471167160S	A
C4027	CERAMIC CHIP HIK	3300 pF	50V	K	1		D011332777160S	A
C4028/C4029	CERAMIC CHIP T.C	470 pF	50V	J	2		D010471167160S	A
C4030/C4031	ELECT CHIP(GE)	10 uF	16V	MVG	2		D050100083470S	A
C4032/C4033	ELECT CHIP(GE)	22 uF	6.3V	MVG	2		D050220081460S	A
C4034	CERAMIC CHIP HIK	3300 pF	50V	K	1		D011332777160S	A
C4035/C4036	CERAMIC CHIP HIK	0.1 uF	50V	K	2		D011104577160S	A
C4039	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	A
C4040/C4041	CERAMIC CHIP T.C	4 pF	50V		2		D010040107160S	A
C5002	ELECT CHIP(GE)	10 uF	16V	MVG	1		D050100083470S	
C5003	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C5004	ELECT CHIP(GE)	10 uF	16V	MVG	1		D050100083470S	
C5005- C5012	CERAMIC CHIP HIK	0.1 uF	50V	K	8		D011104577160S	
C5014/C5015	ELECT CHIP(GE)	10 uF	16V	MVG	2		D050100083470S	
C5017/C5018	CERAMIC CHIP HIK	0.1 uF	50V	K	2		D011104577160S	
C5019-C5030	CERAMIC CHIP T.C	0.01 uF	50V	K	12		D010103777160S	
C5031	ELECT CHIP(GE)	100 uF	6.3V	MVG	1		D050101081650S	
C5032-C5036	CERAMIC CHIP HIK	0.1 uF	50V	K	5		D011104577160S	
C5037/C5038	CERAMIC CHIP T.C	18 pF	50V	J	2		D010180167160S	
C5039-C5052	CERAMIC CHIP HIK	0.1 uF	50V	K	14		D011104577160S	
C5053-C5060	ELECT CHIP(GE)	10 uF	16V	MVG	8		D050100083470S	
C5061-C5073	CERAMIC CHIP HIK	0.1 uF	50V	K	13		D011104577160S	
C5074/C5075	ELECT CHIP(GE)	10 uF	16V	MVG	2		D050100083470S	
C5076	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C5077	ELECT CHIP(GE)	100 uF	6.3V	MVG	1		D050101081650S	
C5078-C5080	CERAMIC CHIP HIK	0.1 uF	50V	K	3		D011104577160S	
C5081	ELECT CHIP(GE)	100 uF	6.3V	MVG	1		D050101081650S	
C5082-C5084	CERAMIC CHIP HIK	0.1 uF	50V	K	3		D011104577160S	
C5085/C5086	ELECT CHIP(GE)	100 uF	6.3V	MVG	2		D050101081650S	
C5087-C5089	CERAMIC CHIP HIK	0.1 uF	50V	K	3		D011104577160S	
C5092	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C5093	ELECT CHIP(GE)	10 uF	16V	MVG	1		D050100083470S	
C5094	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	
C5095	ELECT CHIP(GE)	100 uF	6.3V	MVG	1		D050101081650S	
C5100	CERAMIC CHIP HIK	0.1 uF	50V	K	1		D011104577160S	

REF No.	DESCRIPTION					Q'TY	PARTS No.	VER.
C5105	CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S		
C5106	ELECT CHIP(GE)	10 uF	16V	MVG	1	D050100083470S		
C5109-C5111	CERAMIC CHIP HIK	0.1 uF	50V	K	3	D011104577160S		
C5112-C5115	CERAMIC CHIP HIK	0.1 uF	16V	K	4	D011104177101S		
C5116	CERAMIC CHIP HIK	0.1 uF	50V	K	1	D011104577160S		
	CONNECTORS							
CP1001/CP1002	CN.WAFER 2.0MM (20P)				2	L101100032010S		
CP1003	CN.WAFER 2.0MM (16P)				1	L101100031610S		
CP1004	CN.WAFER 2.0MM (12P)				1	L101100031210S		
CP1005	CN.WAFER 2.0MM (8P)				1	L101100030810S		
CP1006	CN.WAFER 2.0MM (4P)				1	L101100030410S		
CP1007	CN.WAFER 2.0MM (6P)				1	L101100030610S		
	DIODES							
D1001/D1002	KDS4148U, SWITCHING CHIP				2	K005041480030S		
D3002	KDS4148U, SWITCHING CHIP				1	K005041480030S		
D4004/D4005	IMSA-6802-01A, ESD CHIP				2	K067680200010S	A	
D4006/D4007	KDS4148U, SWITCHING CHIP				2	K005041480030S		
D4009	IMSA-6802-01A, ESD CHIP				1	K067680200010S	A	
D5003-D5010	RB521S-30, SCHOTTKY CHIP				8	K125521300010S		
D5016-D5023	IMSA-6802-01A, ESD CHIP				8	K067680200010S		
D5024-D5027	KDS4148U, SWITCHING CHIP				4	K005041480030S		
D5028-D5035	IMSA-6802-01A, ESD CHIP				8	K067680200010S		
D5037-D5055	IMSA-6802-01A, ESD CHIP				19	K067680200010S		
	INTEGRATED CIRCUITS							
IC1001	M3062LFGPFP, CPU				1	J020306200020S		
IC1002	IL1117-3.3, LINEAR-REGULATOR				1	J126111700041S		
IC1005	MM74HCT244, LOGIC				1	J040742440190S		
IC2001	SN74ALVC244PWR, LOGIC				1	J040742440240S		
IC2002	AK4588, ANALOG				1	J080458800010S		
IC2004	CS497004-CQZ, ANALOG				1	J080497004010S		
IC2005/IC2006	SN74ALVC244PWR, LOGIC				2	J040742440240S		
IC2007	AT3664164P, MEMORY-RAM				1	J001366416410S		
IC2009	BA3259HFP-TR, LINEAR-REGULATOR				1	J126325900010S		
IC2010	SST25VF080B, MEMORY FLASH				1	J005250800020S		
IC3001	LT6559CUD, LINEAR-DRIVER				1	J127655900010S		
IC3002/IC3003	BA3259HFP-TR, LINEAR-REGULATOR				2	J126325900010S		
IC3005	IL1117_1.8, LINEAR-REGULATOR				1	J126111710011S		
IC3006	IL1117-3.3, LINEAR-REGULATOR				1	J126111700041S		
IC3007	ADV7401BSTZ, LOGIC-DECODER				1	J044740100020S		
IC3008	FLI2301-LF, LOGIC				1	J040230100010S		
IC3009	IS42S32200C1, MEMORY-RAM				1	J001423220020S		
IC3011	CS4955, LOGIC-ENCODER				1	J045495500010S		
IC4001	F2621E, ANALOG				1	J080260200040S	A	
IC4004	AK4385, LOGIC-D/A CONVER				1	J042438500010S		
IC4005	NJM2068M, LINEAR OP				1	J121206800020S	A	
IC4006	IL1117-3.3, LINEAR-REGULATOR				1	J126111700041S	A	
IC5001	SIL9135CTU, LOGIC				1	J040913500020S		
IC5002	MM74HC4052, LOGIC				1	J040744050020S		
IC5003	PI3HDMI341ART, LOGIC-INTERFACE				1	J046341000040S		
IC5004-IC5007	BR24L02F, MEMORY-EEPROM				4	J000240200150S		
IC5009	IL1117-3.3, LINEAR-REGULATOR				1	J126111700041S		
IC5011/IC5012	BA3259HFP-TR, LINEAR-REGULATOR				2	J126325900010S		
IC5020	SIL9134CTU, LOGIC				1	J040913400020S		
	JACKS							
JACK4001	CN.WAFER 4PIN				1	L109040000020S	A	
JACK5001	CN.WAFER 19P				1	L109100190020S		
JACK5002	CN.WAFER 19P				1	L109100190020S		
JACK5003	CN.WAFER 19P				1	L109100190020S		
JACK5004	CN.WAFER 19P				1	L109100190020S		
JACK5005	CN.WAFER 19P				1	L109100190020S		
	TRANSISTORS							
Q1001-Q1003	KTA1504Y(ASY), PNP				3	J5201504Y0210S		
Q3001	KRC105S(NE), NPN				1	J522010500210S		
Q4006	KRA105S(PE), PNP				1	J520010500210S	A	
Q4007	KRC105S(NE), NPN				1	J522010500210S	A	
Q4008	KTC2875B(MB), NPN				1	J5222875B00010S	A	
Q4010	KTC2875B(MB), NPN				1	J5222875B00010S	A	
Q5003	HN1K02FU, FET CHIP				1	J543102000020S		

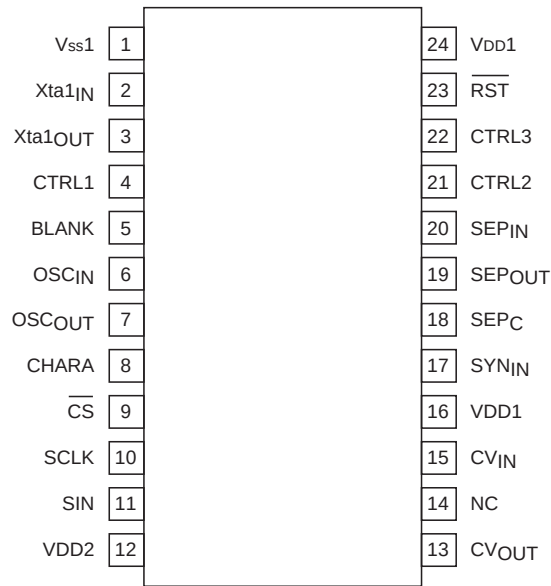
REF No.	DESCRIPTION					Q'TY	PARTS No.	VER.
R5053/R5054	CHIP THICK	0 ohm	1/16W	J	2		C20000006M101S	
R5055-R5057	CHIP THICK	33 ohm	1/16W	J	3		C20003306M101S	
R5059-R5062	CHIP THICK	33 ohm	1/16W	J	4		C20003306M101S	
R5063	CHIP THICK	0 ohm	1/16W	J	1		C20000006M101S	
R5064-R5083	CHIP THICK	33 ohm	1/16W	J	20		C20003306M101S	
R5084	CHIP THICK	10 kohm	1/16W	J	1		C20001036M111S	
R5105/R5106	CHIP THICK	2.2 kohm	1/16W	J	2		C20002226M101S	
R5108/R5109	CHIP THICK	10 kohm	1/16W	J	2		C20001036M111S	
R5116-R5127	CHIP THICK	33 ohm	1/16W	J	12		C20003306M101S	
R5128	CHIP THICK	100 ohm	1/16W	J	1		C20001016M101S	
R5129	CHIP THICK	680 ohm	1/16W	J	1		C20006816M101S	
R5130	CHIP THICK	18 ohm	1/16W	J	1		C20001806M101S	
R5131-R5155	CHIP THICK	33 ohm	1/16W	J	25		C20003306M101S	
R5156/R5157	CHIP THICK	4.7 kohm	1/16W	J	2		C20004726M101S	
R5158/R5159	CHIP THICK	0 ohm	1/16W	J	2		C20000006M101S	
R5160	CHIP THICK	4.7 kohm	1/16W	J	1		C20004726M101S	
R5161/R5162	CHIP THICK	47 kohm	1/16W	J	2		C20004736M101S	
R5163/R5164	CHIP THICK	0 ohm	1/16W	J	2		C20000006M101S	
R5165/2R5166	CHIP THICK	1.8 kohm	1/16W	J	2		C20001826M101S	
R5167-R5170	CHIP THICK	300 ohm	1/16W	J	4		C20003016M101S	
R5171	CHIP THICK	0 ohm	1/16W	J	1		C20000006M101S	
R5172-R5175	CHIP THICK	33 ohm	1/16W	J	4		C20003306M101S	
R5176/R5177	CHIP THICK	5.1 kohm	1/16W	J	2		C20005126M101S	
R5178	CHIP THICK	2 kohm	1/16W	J	1		C20002026M101S	
R5179	CHIP THICK	5.1 kohm	1/16W	J	1		C20005126M101S	
R5180	CHIP THICK	2 kohm	1/16W	J	1		C20002026M101S	
R5181	CHIP THICK	5.1 kohm	1/16W	J	1		C20005126M101S	
R5182/R5183	CHIP THICK	10 kohm	1/16W	J	2		C20001036M111S	
R5191-R5195	CHIP THICK	10 kohm	1/16W	J	5		C20001036M111S	
	MISCELLANEOUS							
RLY5001	RELAY, UB2-5NU-L 5V				1		G680050102010S	
RLY5002	RELAY, UB2-5NU-L 5V				1		G680050102010S	
RLY5003	RELAY, UB2-5NU-L 5V				1		G680050102010S	
RLY5004	RELAY, UB2-5NU-L 5V				1		G680050102010S	
XTAL1001	CRYSTAL, 20.000MHz				1		E80520R000010S	
XTAL2002	CRYSTAL, 24.576MHz				1		E80524R576020S	
XTAL3001	CRYSTAL, 13.5MHz				1		E80513R500010S	
XTAL3002	CRYSTAL, 27.000MHz				1		E80527R000010S	
XTAL4001	CRYSTAL, 45.1584MHz				1		E80545R158410S	A
XTAL5001	CRYSTAL, 28.322MHz				1		E80528R322030S	
PCB6	ASSEMBLY P.C.BOARD ST-BY						7025HK0702011	G
PCB6	ASSEMBLY P.C.BOARD ST-BY						7025HK0702021	A
PCB6	ASSEMBLY P.C.BOARD ST-BY						7025HK0702031	K
C002	ELECT GE 85C	2200 uF	16V	M	1		D040222083080S	
C003	ELECT GE 85C	1 uF	50V	M	1		D040010087150S	
C005	CERAMIC AC(SAFET	0.005 uF	250VAC		1		D00847208H010S	
CN001	CN,WIRE 60MM (5P)				1		L000600050030S	
CP001	CN.WAFER 7.92MM				1		L108353280290S	
CP002	CN.WAFER 7.92MM				1		L108202000220S	
CP003	CN.WAFER 7.92MM				1		L108353280280S	
D002-D004	1SS133T, SWITCHING				3		K000013300520S	
D005-D008	1N4007, SWITCHING				4		K000400700010S	
D009	CN,WIRE 1P				1		L045084006040S	
DZ001	MTZJ13B, ZENER				1		K06013R044520S	A
F001	FUSE, T6.3A/250V				1		N751226301110S	
F001/F002	FUSE, T8A/250V				2		N751228001110S	A/G
GT001	TERMINAL				1		3790040886000S	
J001-J004	CN,WIRE 1P				4		L045084006040S	
JACK001	POWER, AC OUTLET				1		G435040070000S	A
JACK001	POWER, AC OUTLET				1		G435040110000S	G
P001A	HOLDER, PI5.2-REEL				1		G645000050010S	
P001B	HOLDER, PI5.2-REEL				1		G645000050010S	
P002A	HOLDER, PI5.2-REEL				1		G645000050010S	A/G
P002B	HOLDER, PI5.2-REEL				1		G645000050010S	A/G
PT001	POWER TRANS, STAND-BY 120V/60Hz				1		8200280150250S	A
PT001	POWER TRANS, STAND-BY 230V/50Hz				1		8200280150260S	G
PT001	POWER TRANS, STAND-BY 220V/50.60Hz				1		8200280150270S	K
Q002	KRC105M, NPN				1		J502105000010S	A

REF No.	DESCRIPTION					Q'TY	PARTS No.	VER.
Q003	KTC3199Y, NPN				1		J5023199Y0010S	
R004	CARBON FILM	2.2 kohm	1/5W	J	1		C00002226P520S	
R005	METAL FILM 100PPM	10 ohm	1/4W	J	1		C060010063050S	
R006	CARBON FILM	47 kohm	1/5W	J	1		C00004736P520S	
R007	METAL FILM 100PPM	2.2 Mohm	0.5W		1		C060022564520S	A
R008	CARBON FILM	470 kohm	1/5W	J	1		C00004746P520S	
RLY001	RELAY, DC6V 5A				1		G680060502010S	
PCB7	ASSEMBLY P.C.BOARD SPEAKER						7025HK0702017	A
PCB7	ASSEMBLY P.C.BOARD SPEAKER						7025HK0702017	G
PCB7	ASSEMBLY P.C.BOARD SPEAKER						7025HK0702017	K
C403-C409	FILM POLYESTER	0.1 uF	100V	J	7		D02010406C060S	
C410	FILM POLYESTER	0.01 uF	100V	J	1		D02010306C060S	
C411/C412	FILM POLYESTER	0.022 uF	100V	J	2		D02022306C060S	
C413	FILM POLYESTER	0.01 uF	100V	J	1		D02010306C060S	
C414	FILM POLYESTER	0.022 uF	100V	J	1		D02022306C060S	
C415/C416	FILM POLYESTER	0.01 uF	100V	J	2		D02010306C060S	
C417/C418	FILM POLYESTER	0.022 uF	100V	J	2		D02022306C060S	
C419	FILM POLYESTER	0.01 uF	100V	J	1		D02010306C060S	
C421	FILM POLYESTER	0.022 uF	100V	J	1		D02022306C060S	
C422	FILM POLYESTER	0.01 uF	100V	J	1		D02010306C060S	
CN401	CN,WIRE 80MM (6P)				1		L000800060070S	
CP402	CN.WAFER 3.96MM				1		L104202000710S	
CP403/CP404	CN.WAFER 2.0MM 10P				2		L101100031010S	
CP405	CN.WAFER 2.0MM (4P)				1		L101100030410S	
CP406	CN.WAFER 2.0MM (5P)				1		L101100030510S	
D401-D405	KDS4148U, SWITCHING CHIP				5		K005041480030S	
J401-J403	CHIP THICK	0 ohm	1/8W	J	1		C200000061300S	
J404-J407	CN,WIRE 1P				4		L045084006040S	
J409-J443	CN,WIRE 1P				35		L045084006040S	
J449/J450	CN,WIRE 1P				2		L045084006040S	
J452-J455	CN,WIRE 1P				4		L045084006040S	
J457 J458	CN,WIRE 1P				1		L045084006040S	
J460-J465	CN,WIRE 1P				6		L045084006040S	
J467	CN,WIRE 1P				1		L045084006040S	
J469	CN,WIRE 1P				1		L045084006040S	
J471	CN,WIRE 1P				1		L045084006040S	
J472/J473	CHIP THICK	0 ohm	1/8W	J	2		C200000061300S	
JACK401	TER,BOARD SCREW 4P				1		G612405EWG00YS	
JACK402	TER,BOARD SCREW 8P				1		G614801AWG21YS	
Q401-Q405	KRC102S(NB), NPN				5		J522010200210S	
R401-R403	CHIP THICK	22 kohm	1/16W	J	3		C20002236M160S	
R405-R408	CHIP THICK	22 kohm	1/16W	J	4		C20002236M160S	
R409-R415	METAL FILM 100PPM	10 ohm	1W	J	7		C060010065050S	
RLY401	RELAY, 12V 5A				1		G680120502050S	
RLY402	RELAY, 12V 5A				1		G680120502050S	
RLY403	RELAY, 12V 5A				1		G680120502050S	
RLY404	RELAY, 12V 5A				1		G680120502050S	
RLY405	RELAY, 12V 5A				1		G680120502050S	
PCB7-1	ASSEMBLY P.C.BOARD SPEAKER-B							
C425-C427	FILM POLYESTER	0.01 uF	100V	J	3		D02010306C060S	
C428/C429	FILM POLYESTER	0.022 uF	100V	J	2		D02022306C060S	
C477	FILM POLYESTER	0.022 uF	100V	J	1		D02022306C060S	
CP401	CN.WAFER 3.96MM				1		L104353130600S	
J491/J492	CN,WIRE 1P				2		L045084006040S	
JACK403	TER,BOARD SCREW 6P				1		G613602AWG05YS	
PCB7-2	ASSEMBLY P.C.BOARD GUIDE-L							
CLAMP402	CLAMP				1		4330000120000S	
J504-J512	CN,WIRE 1P				9		L045084006040S	
PCB7-3	ASSEMBLY P.C.BOARD GUIDE-R							
CLAMP401	CLAMP				1		4330000120000S	
J495-J503	CN,WIRE 1P				9		L045084006040S	

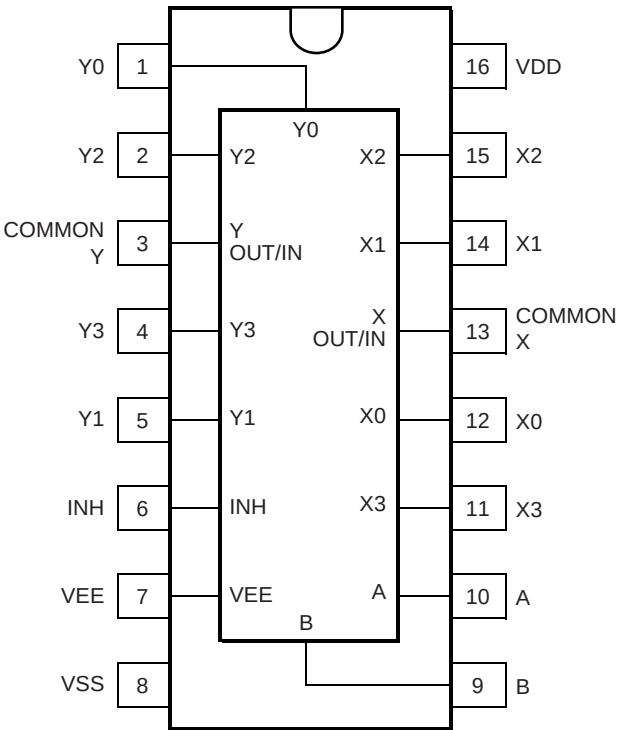
IC'S FUNCTIONAL BLOCK DIAGRAM

Model No.: R-872

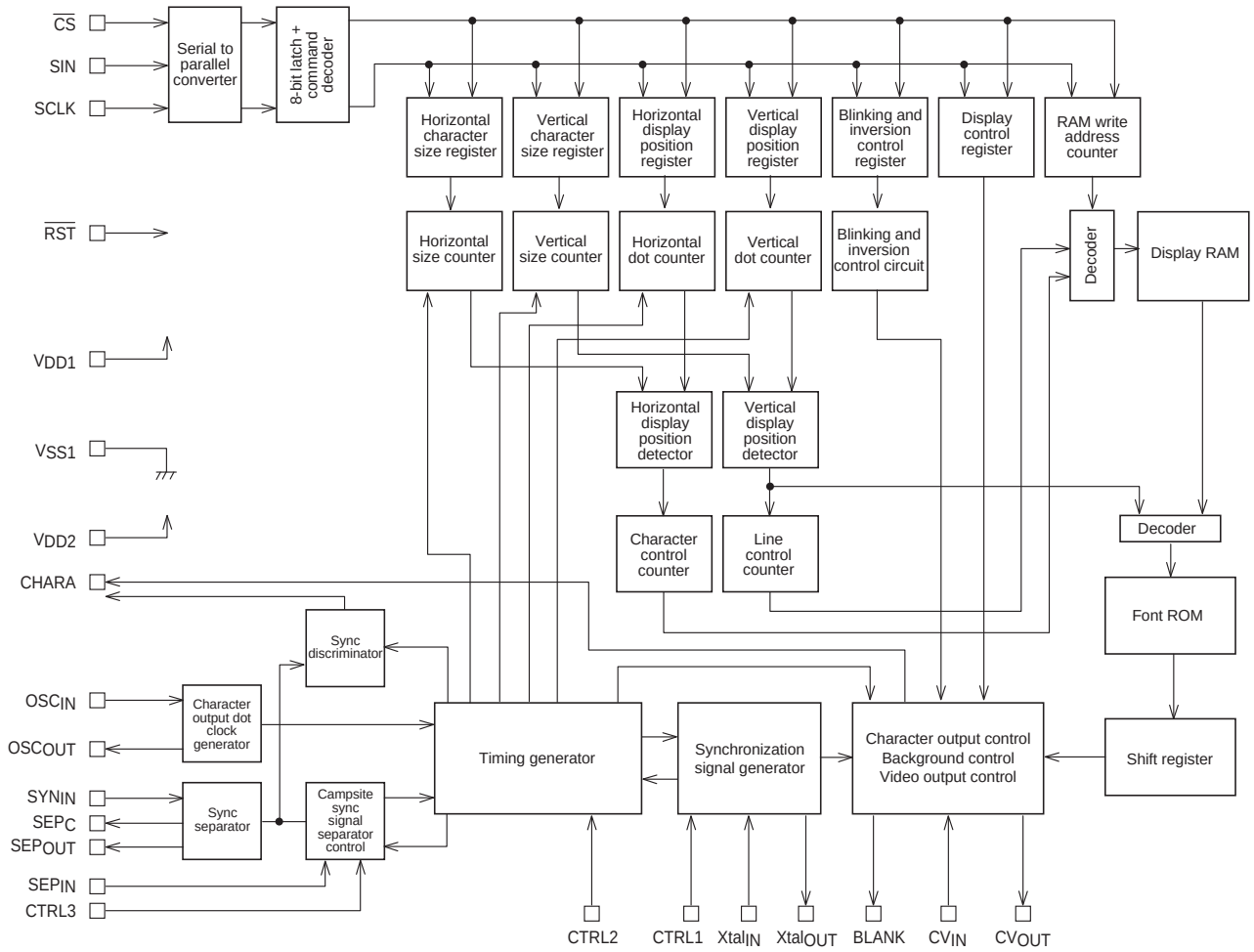
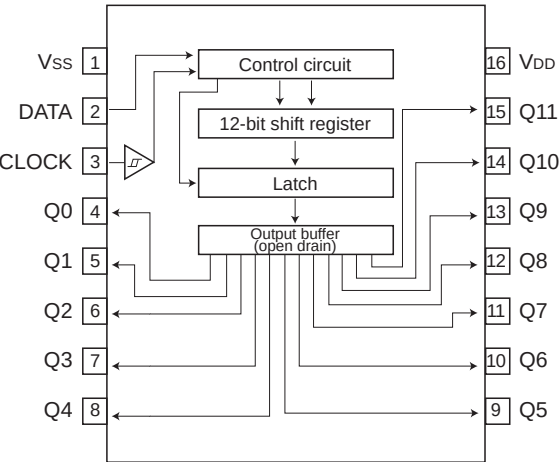
LC74781 : IC812



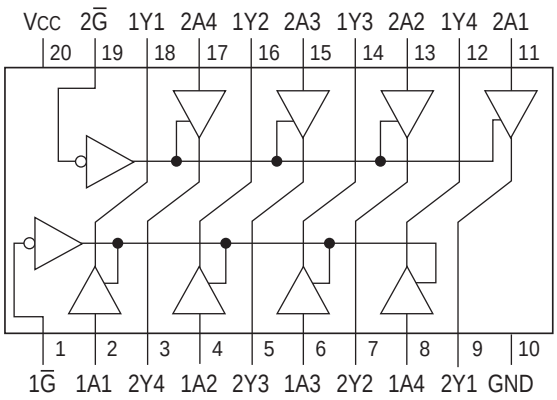
BU4052BCF : IC815



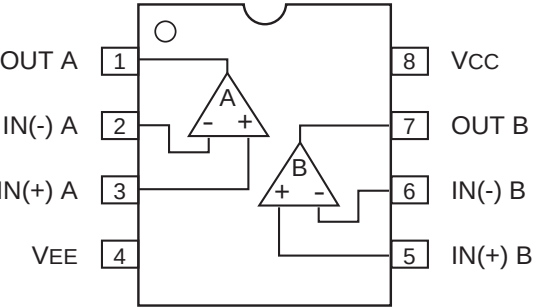
BU2090F : IC816



MM74HCT244 : IC110, IC1005

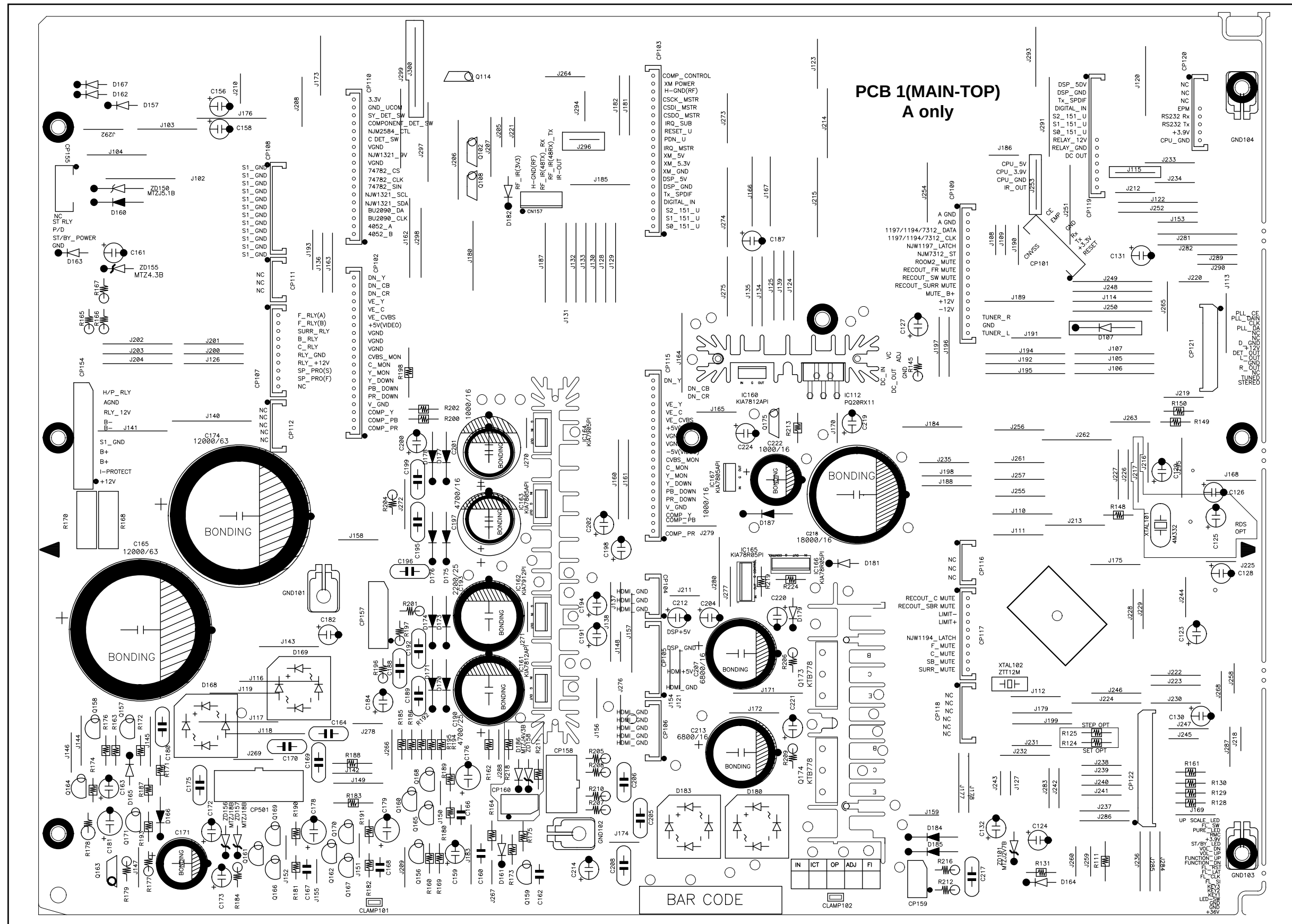


NJM2068M : IC301~303, IC412~415, IC420~421, IC428~430, IC4005



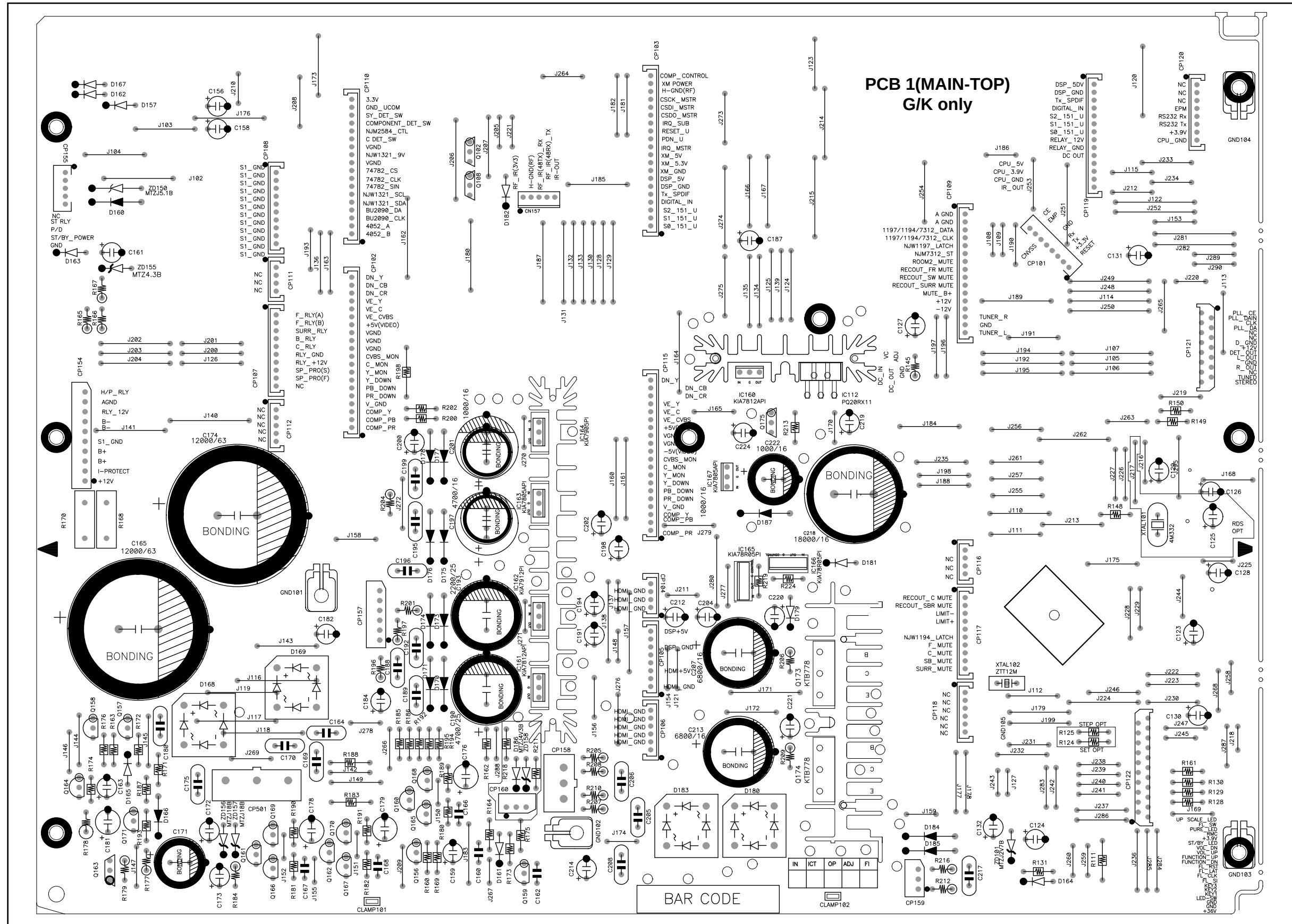
PRINTED CIRCUIT BOARDS (1)

Model No.: R-872



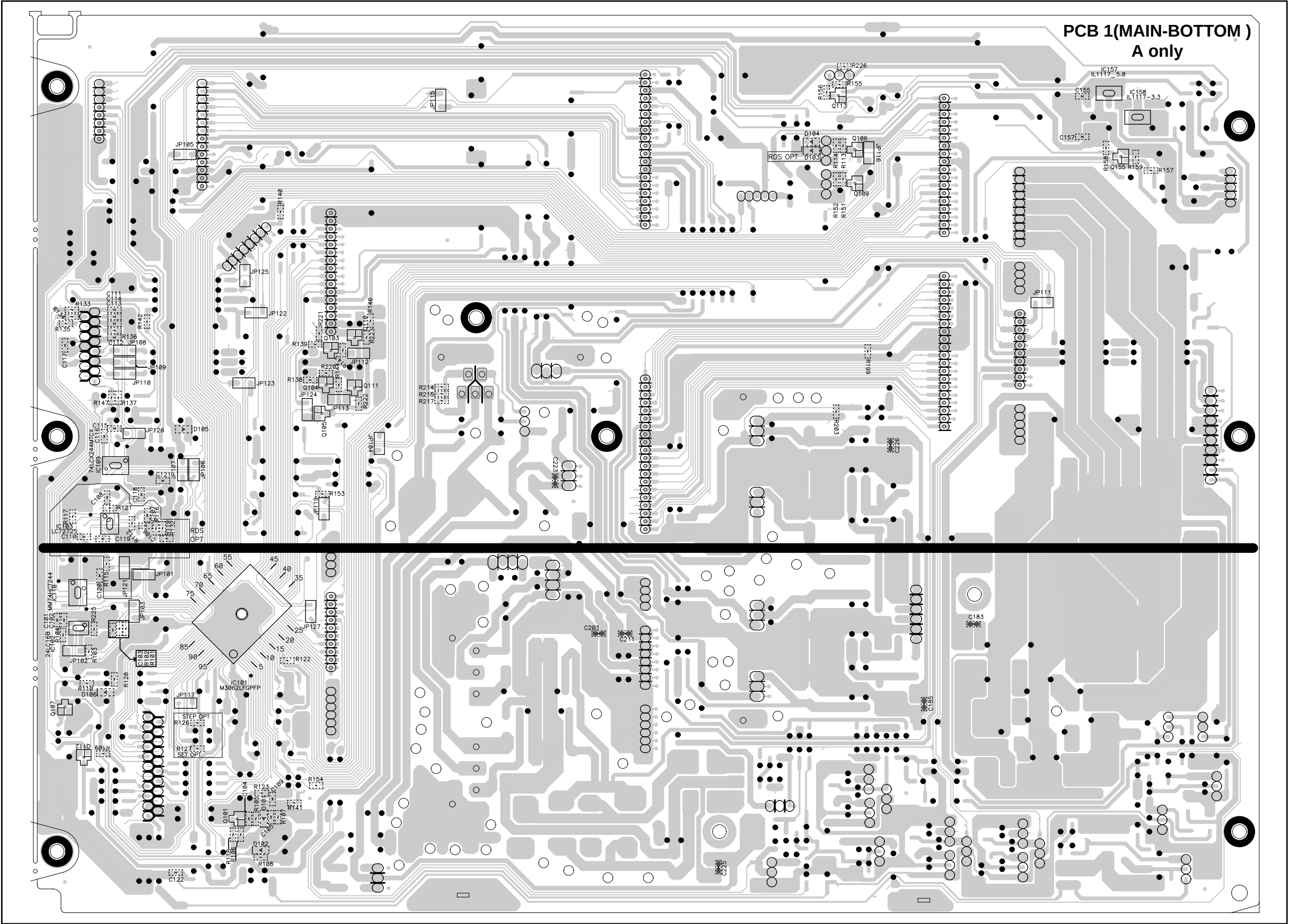
PRINTED CIRCUIT BOARDS (2)

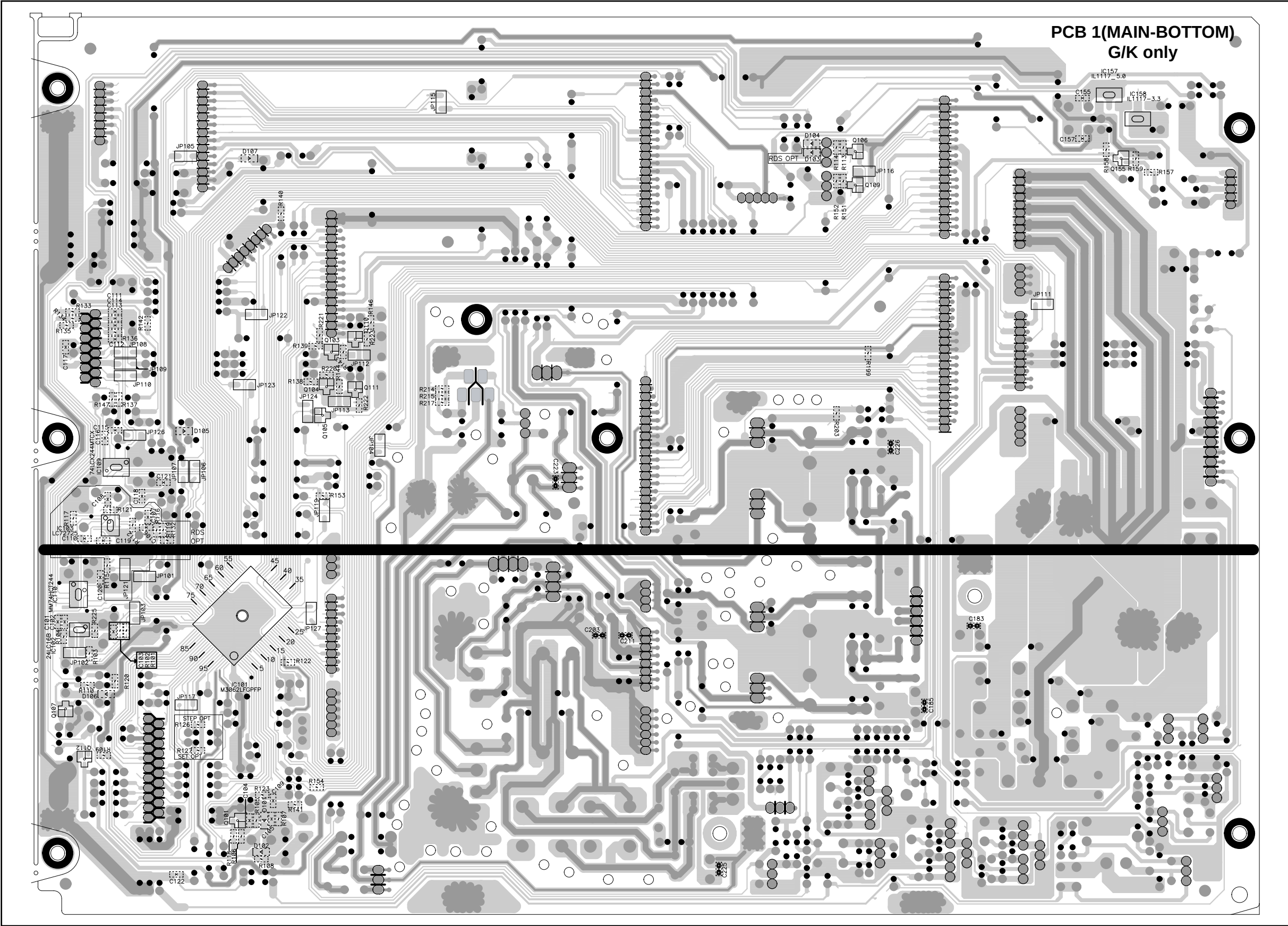
Model No.: R-872

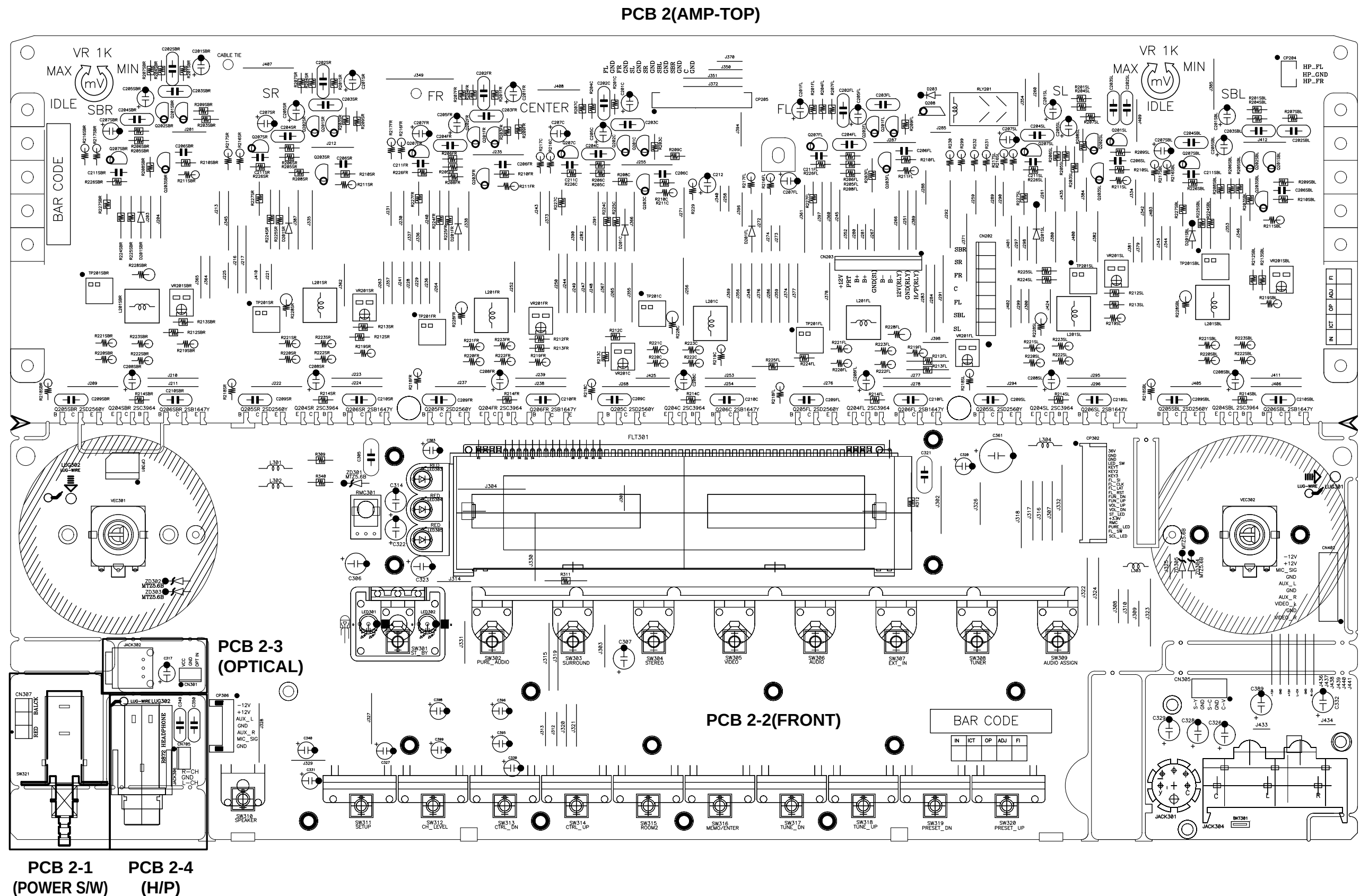


PRINTED CIRCUIT BOARDS (3)

Model No.: R-872







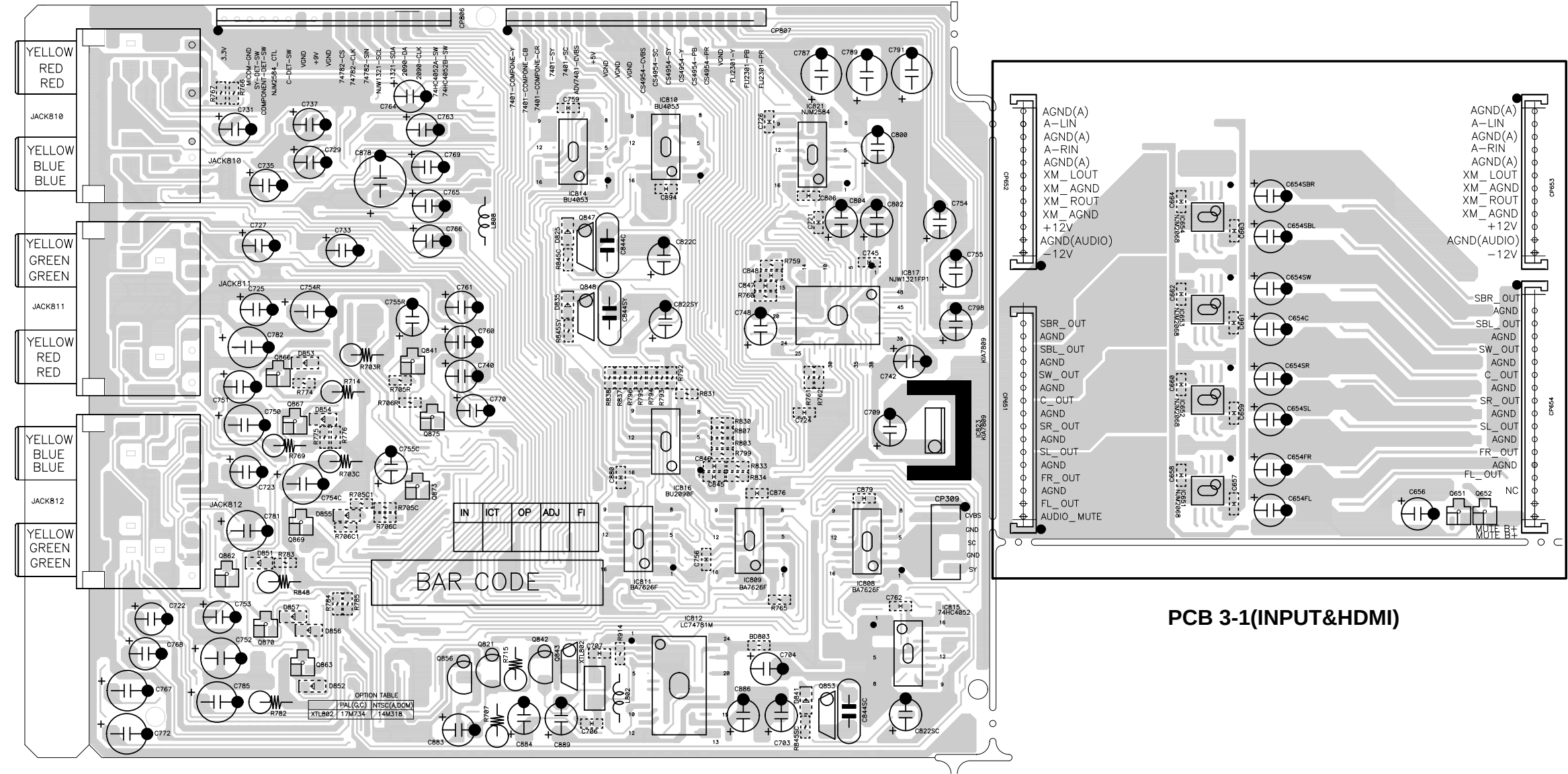
Model No.: R-872



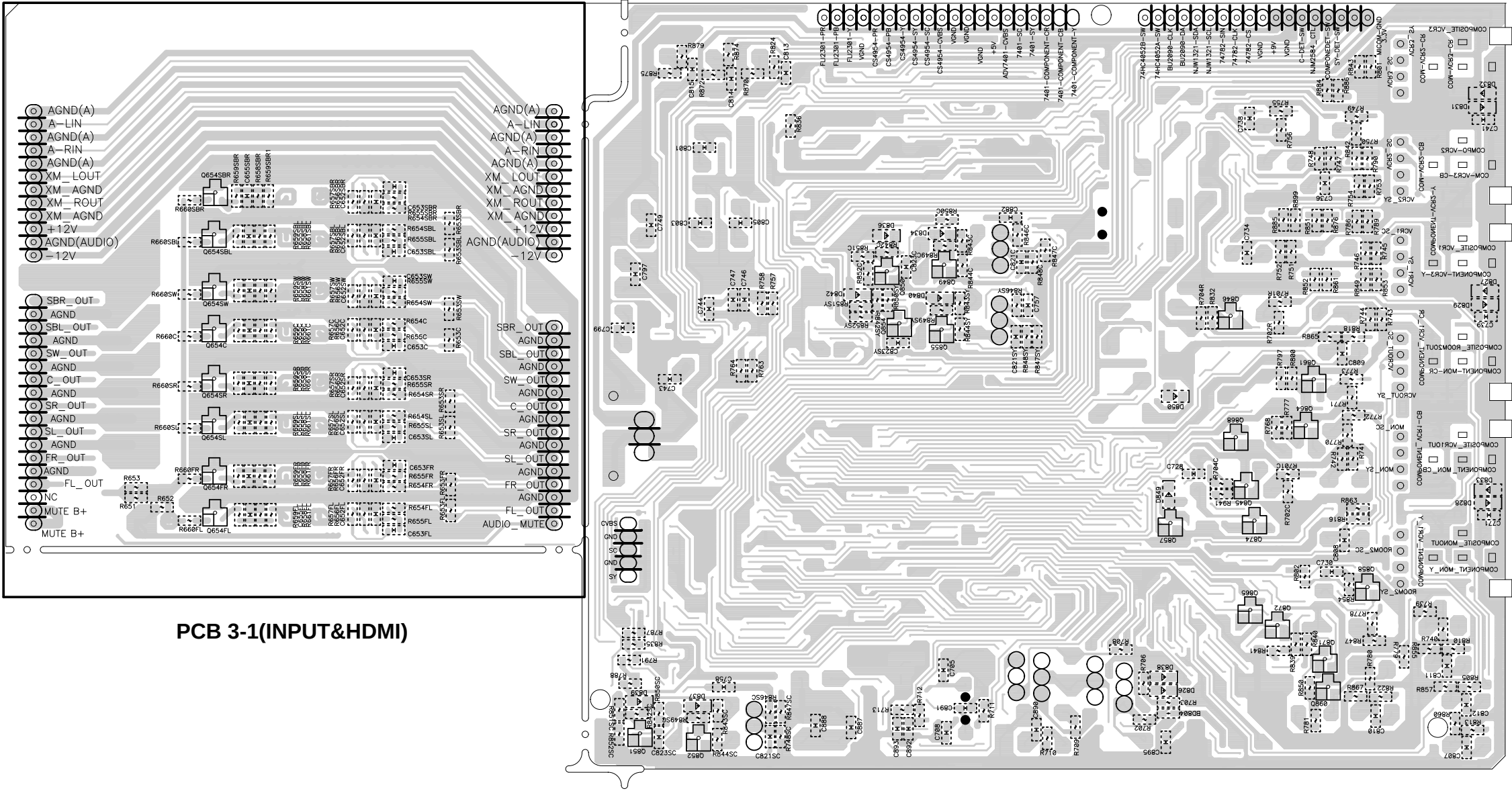
PRINTED CIRCUIT BOARDS (7)

Model No.: R-872

PCB 3(VIDEO-TOP)

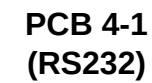
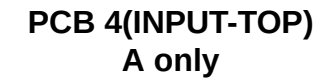


PCB 3(VIDEO-BOTTOM)



PRINTED CIRCUIT BOARDS (9)

Model No.: R-872

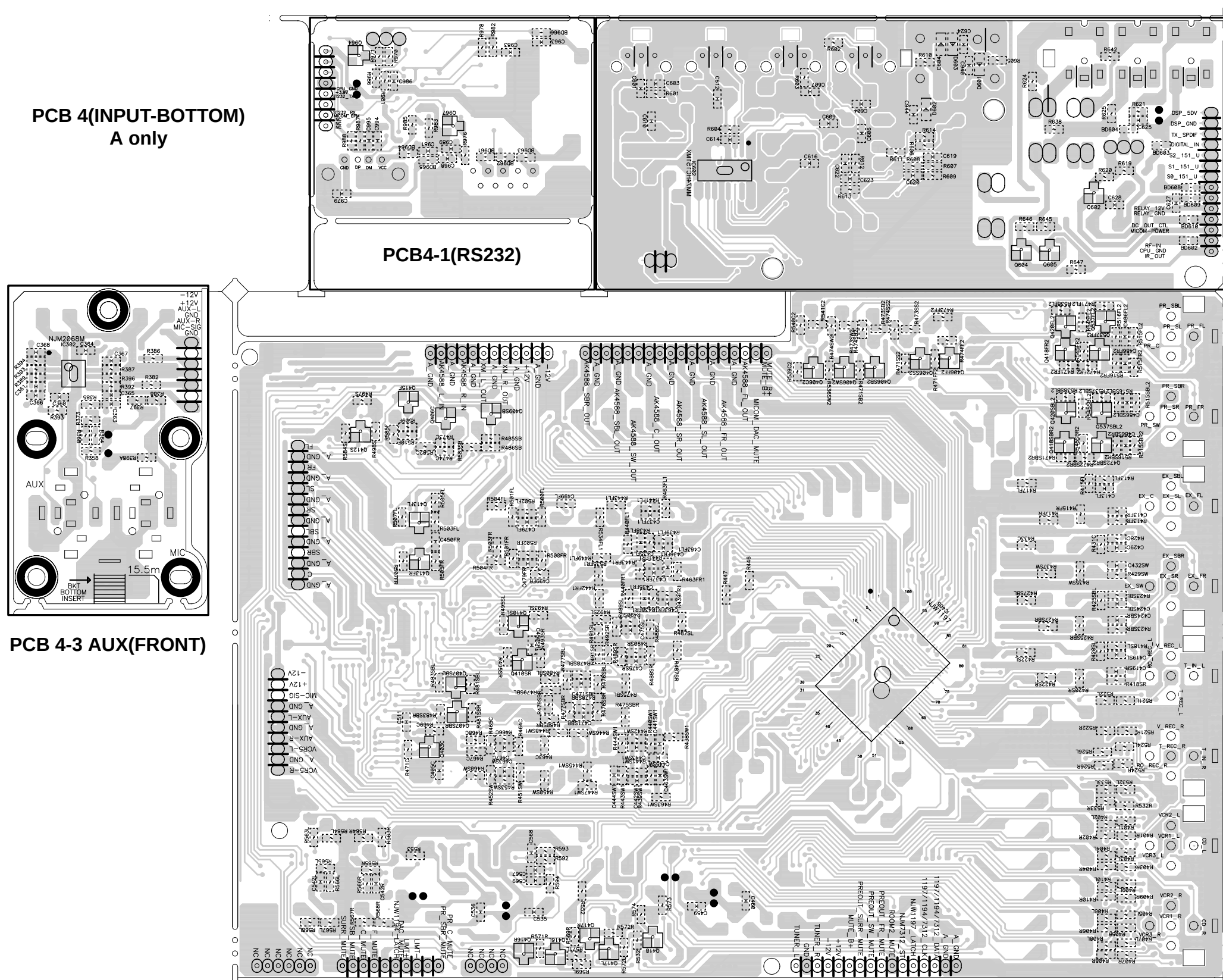


Model No.: R-872



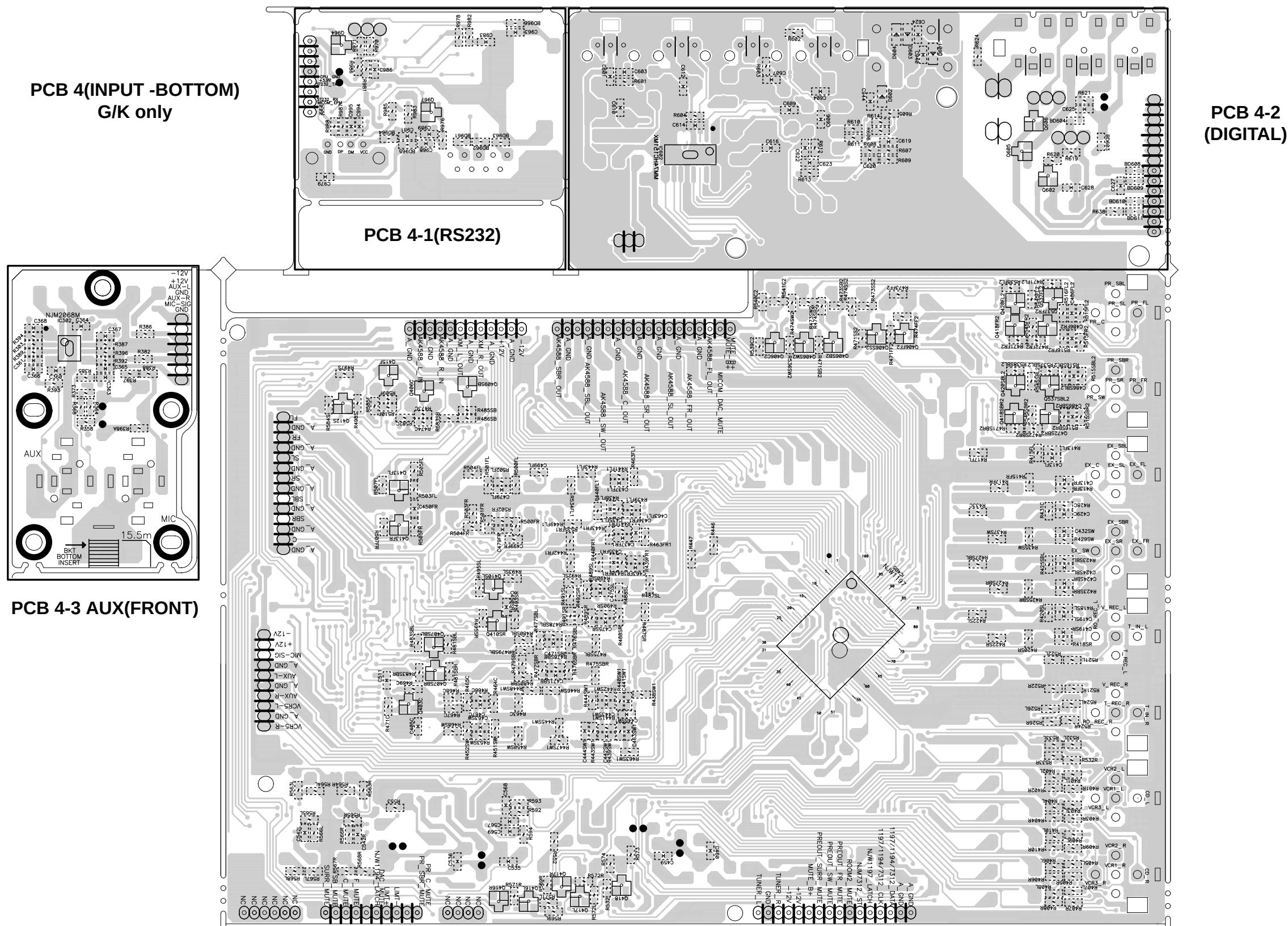
PRINTED CIRCUIT BOARDS (11)

Model No.: R-872



PRINTED CIRCUIT BOARDS (12)

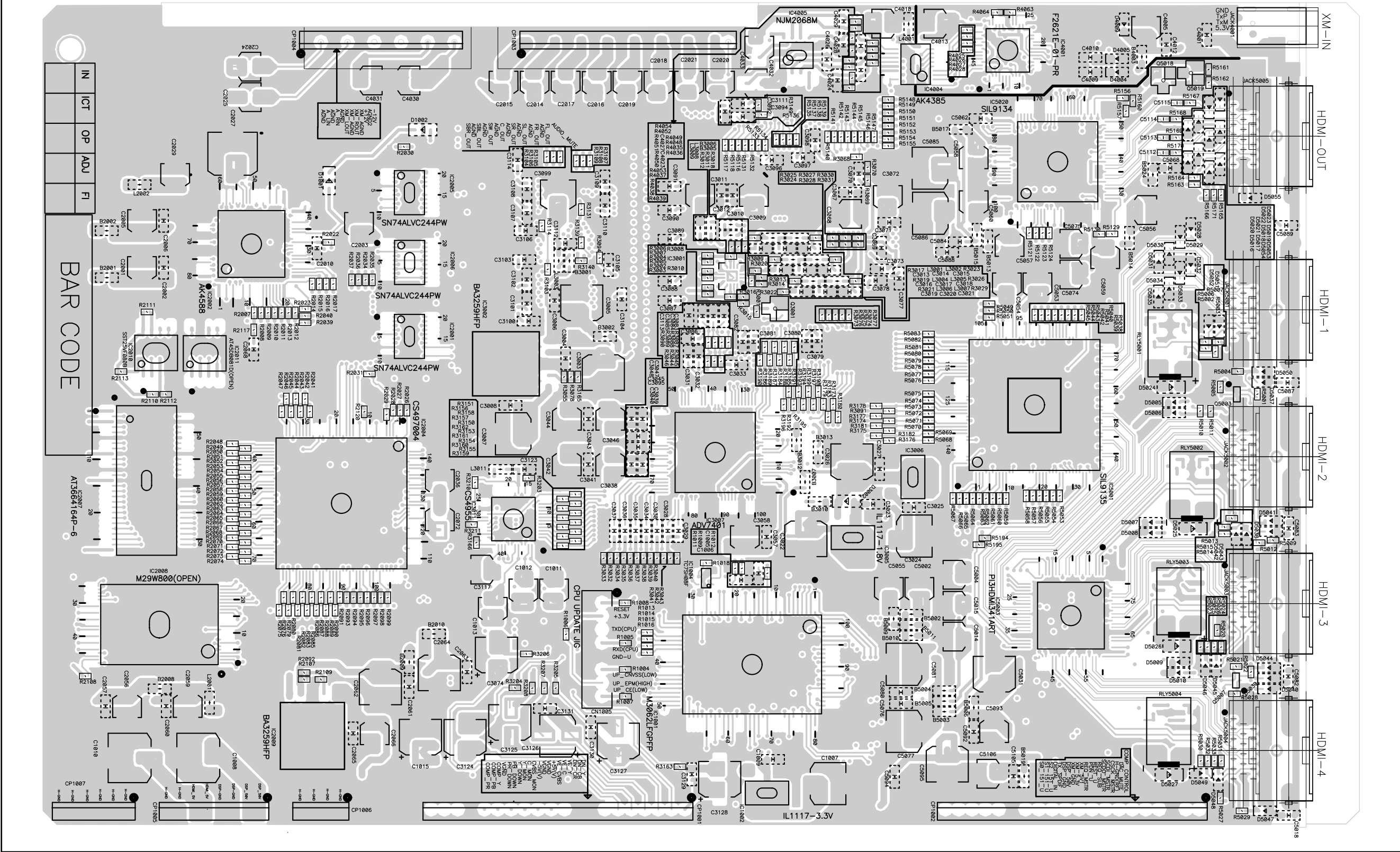
Model No.: R-872



PRINTED CIRCUIT BOARDS (13)

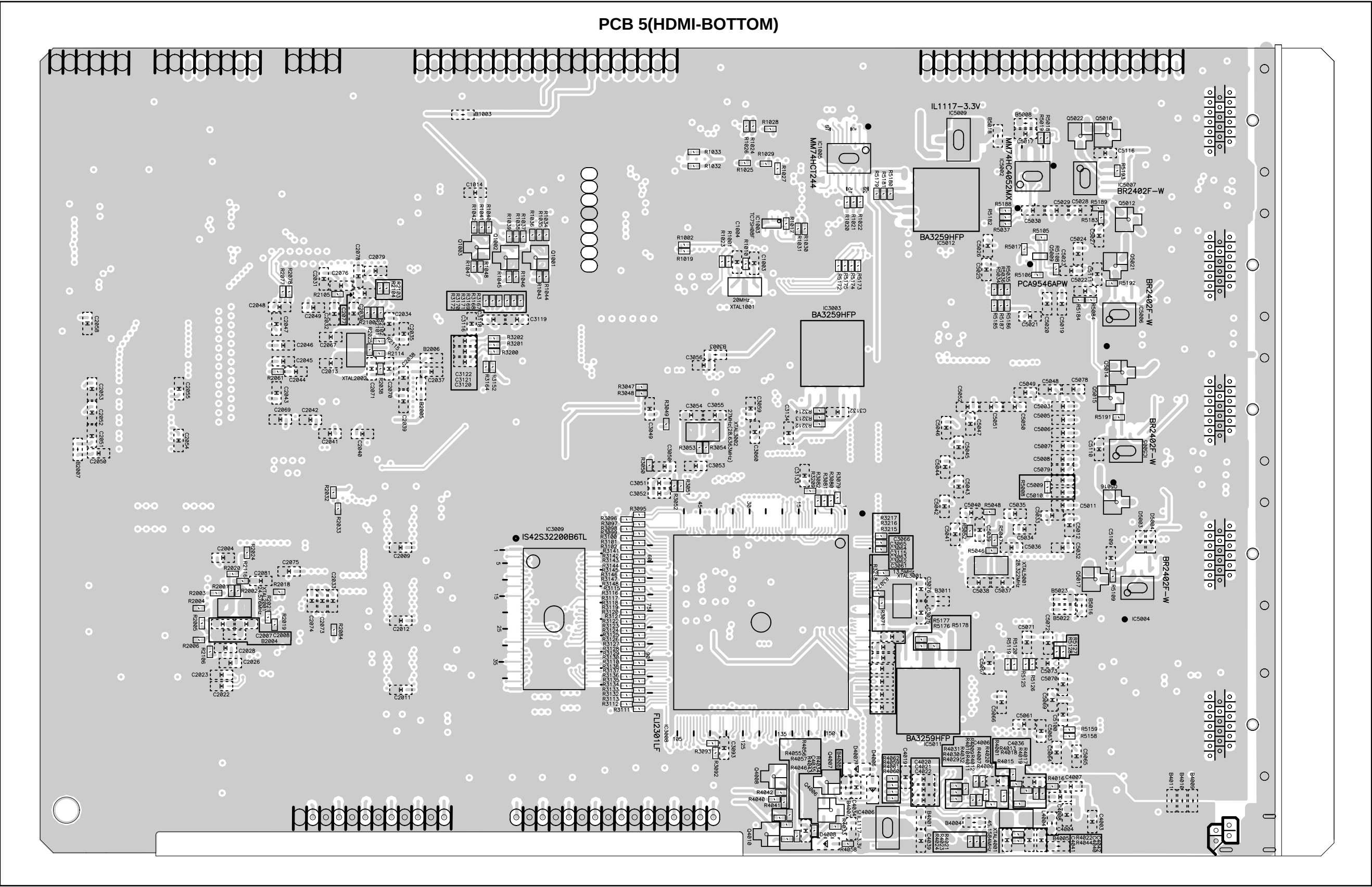
Model No.: R-872

PCB 5(HDMI-TOP)



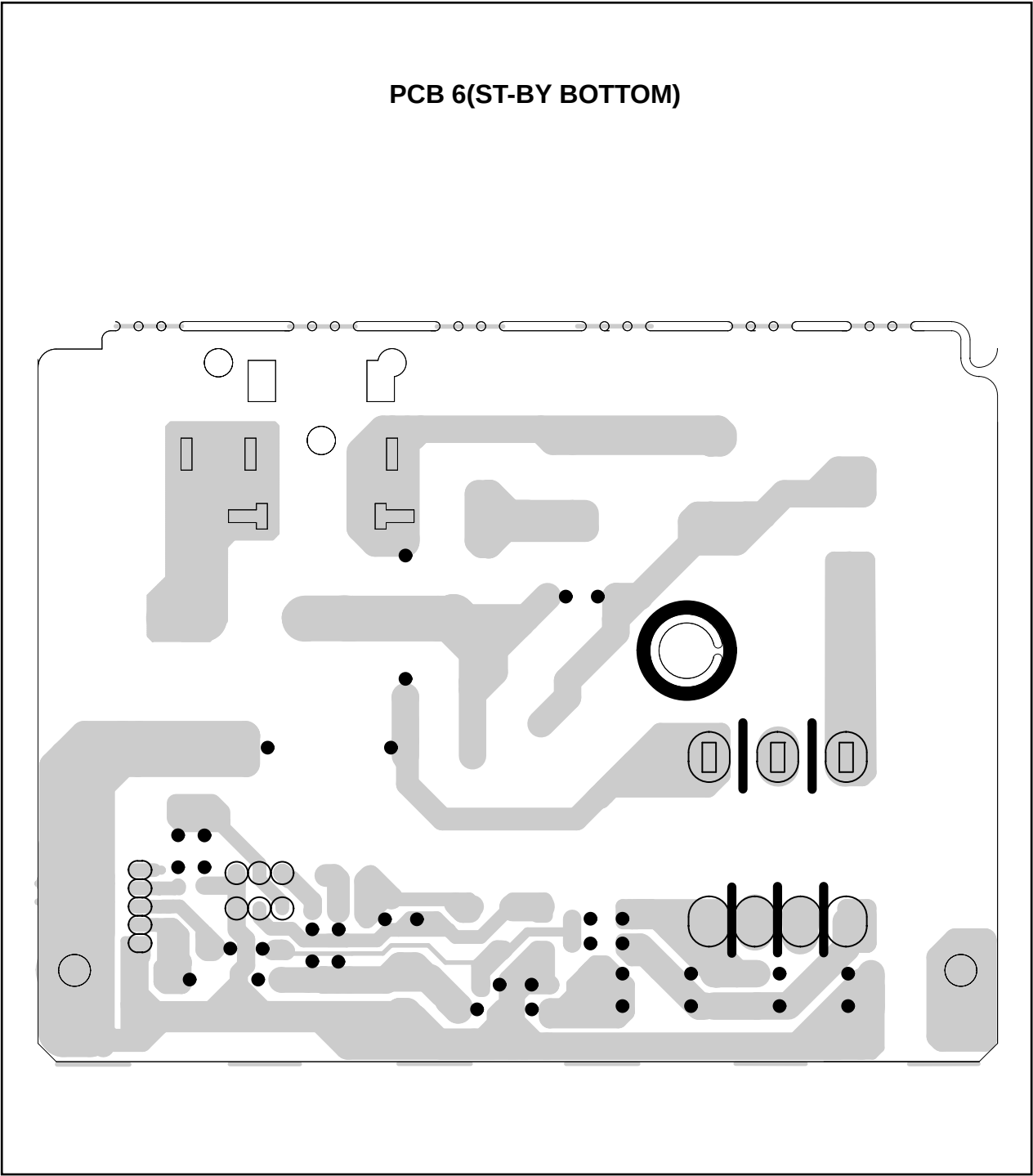
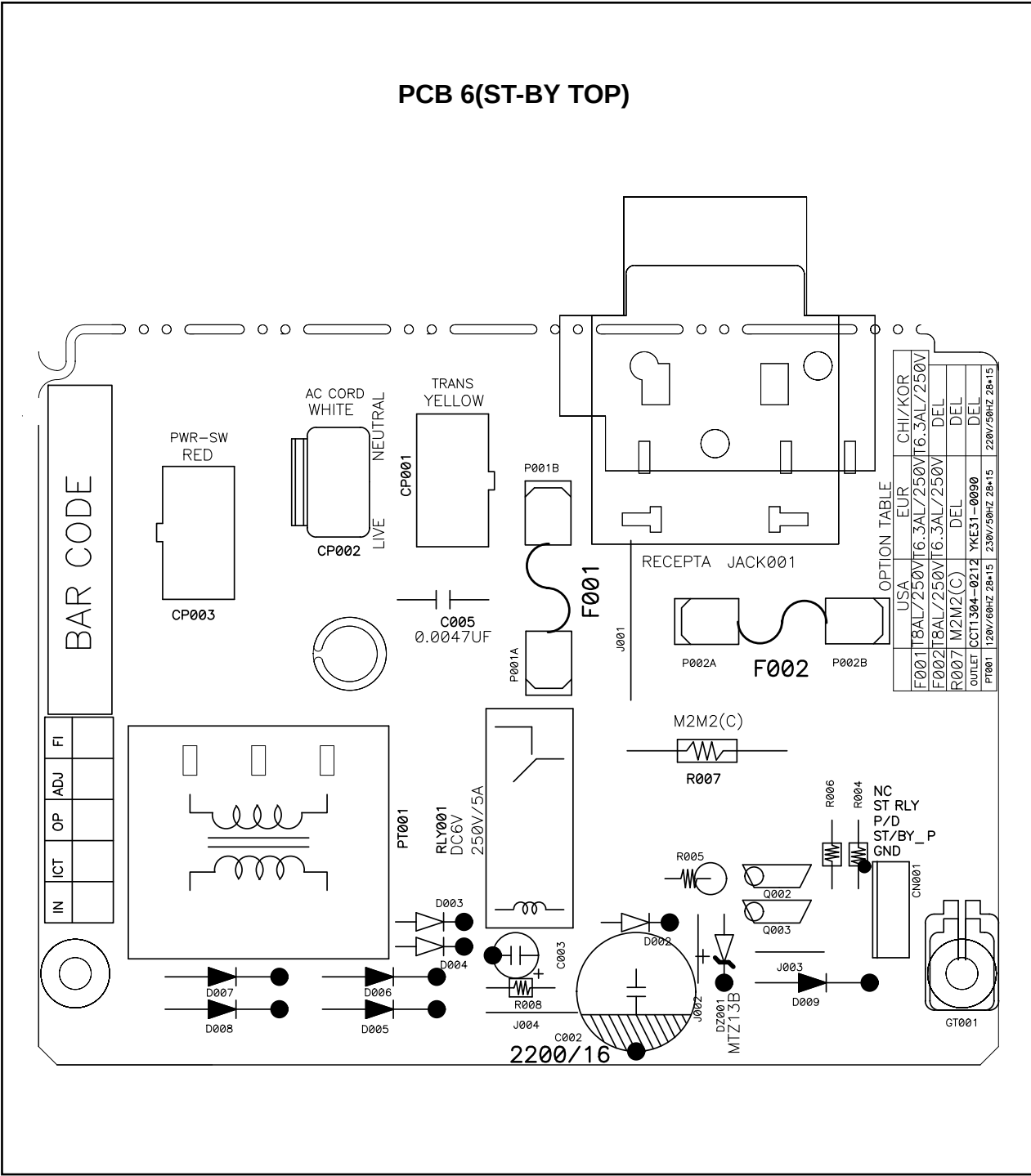
PRINTED CIRCUIT BOARDS (14)

Model No.: R-872



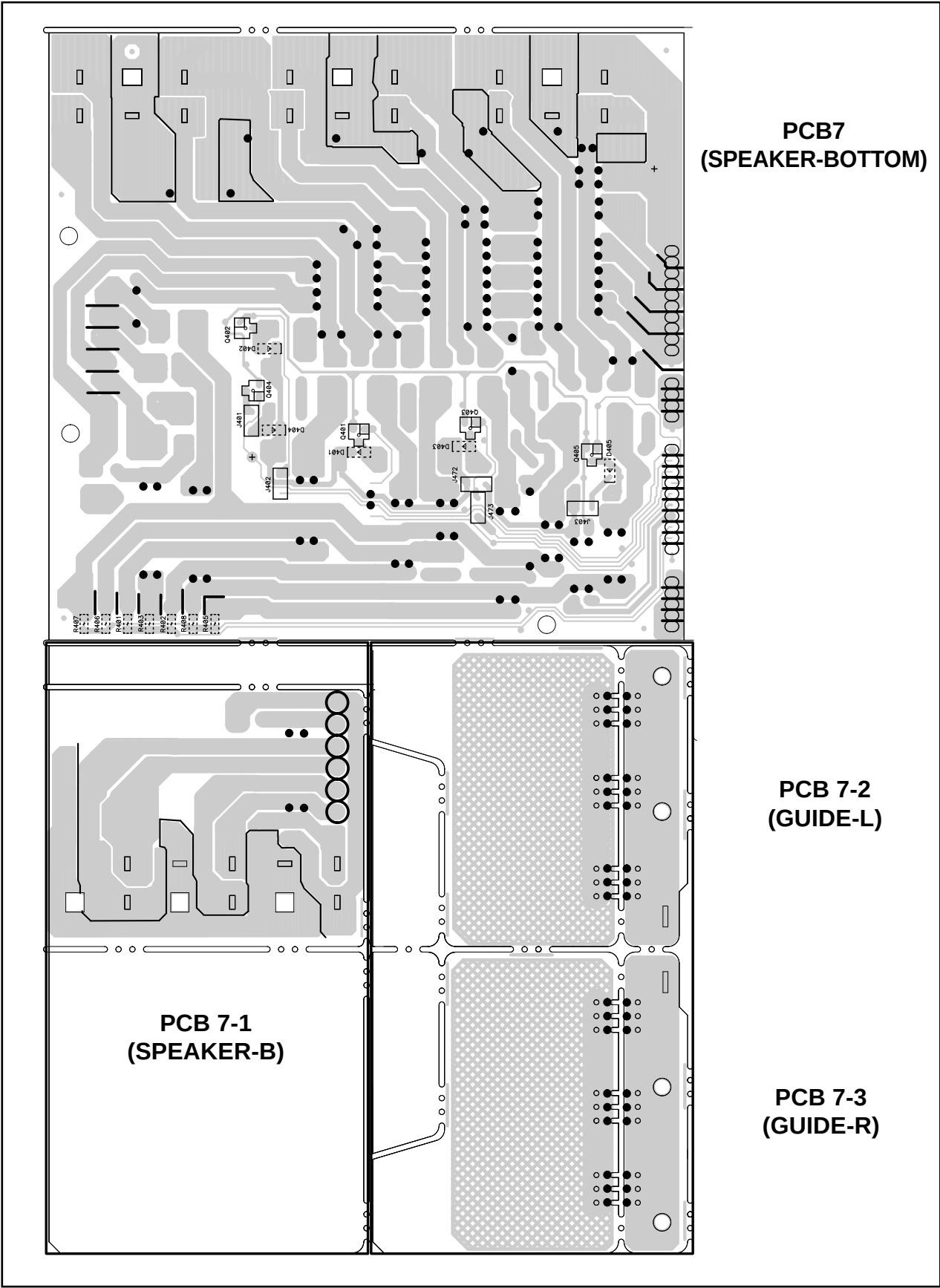
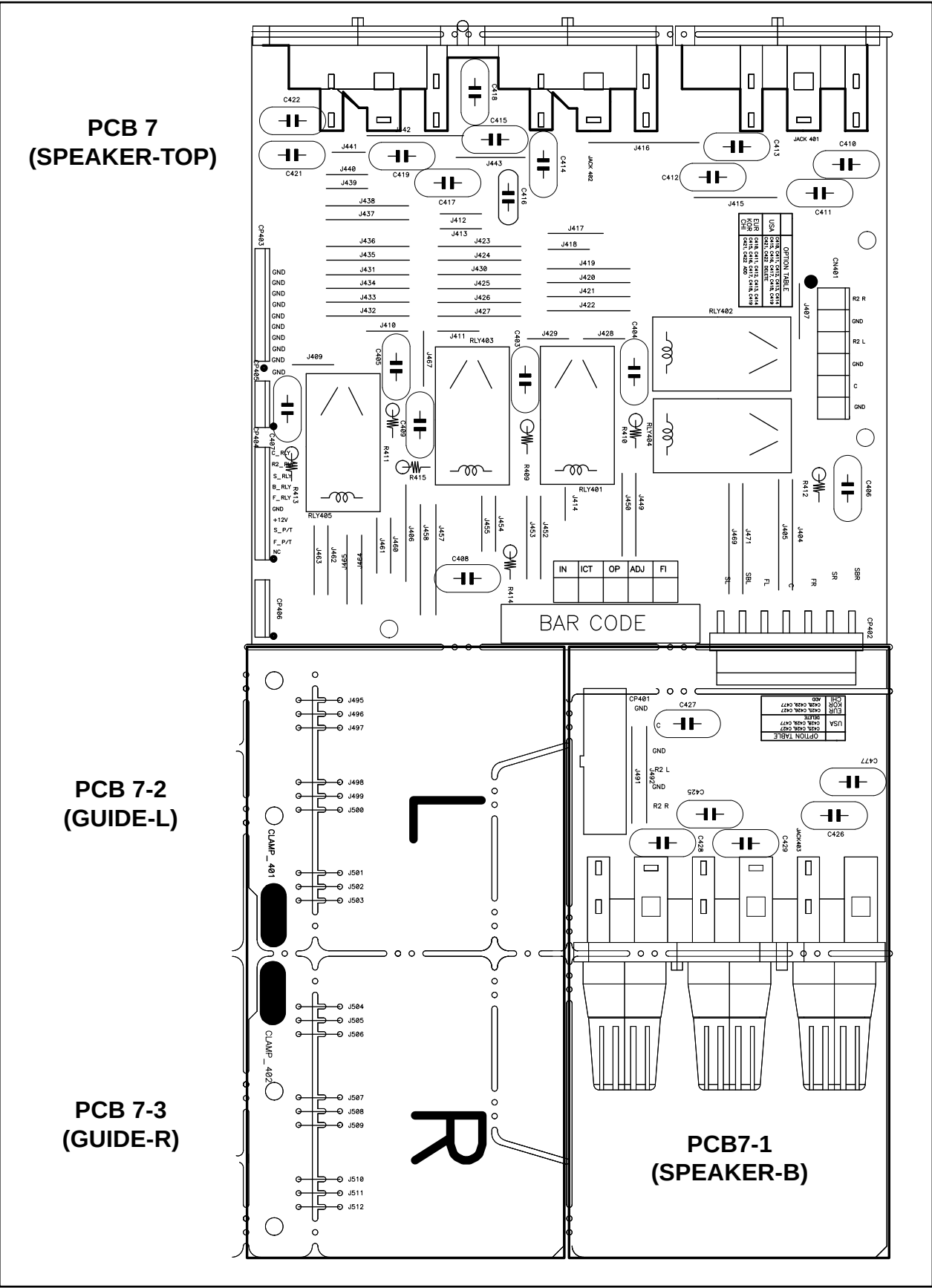
PCB 6(ST-BY TOP)

PCB 6(ST-BY BOTTOM)



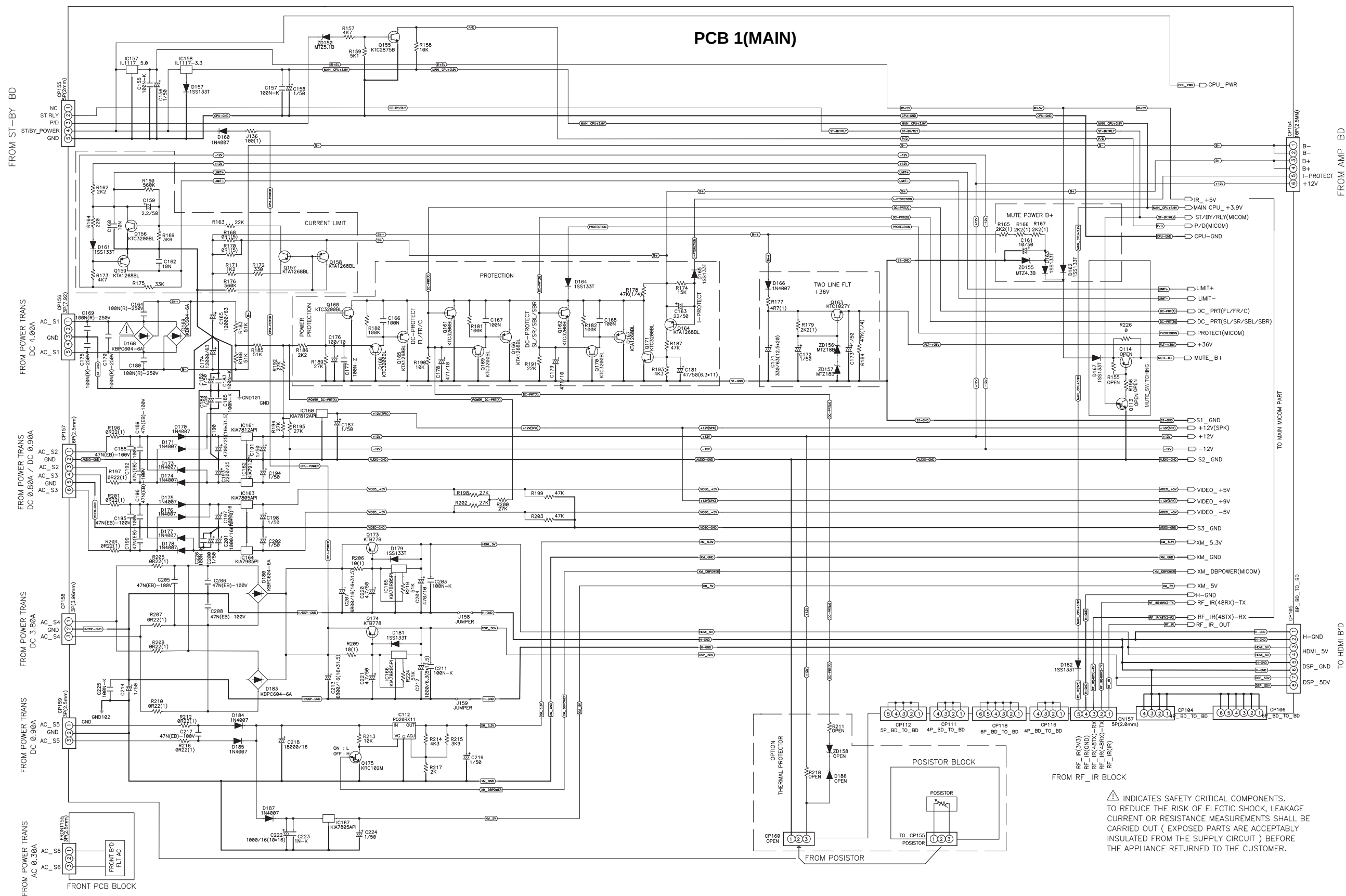
PRINTED CIRCUIT BOARDS (16)

Model No.: R-872



SCHEMATIC DIAGRAMS (1)

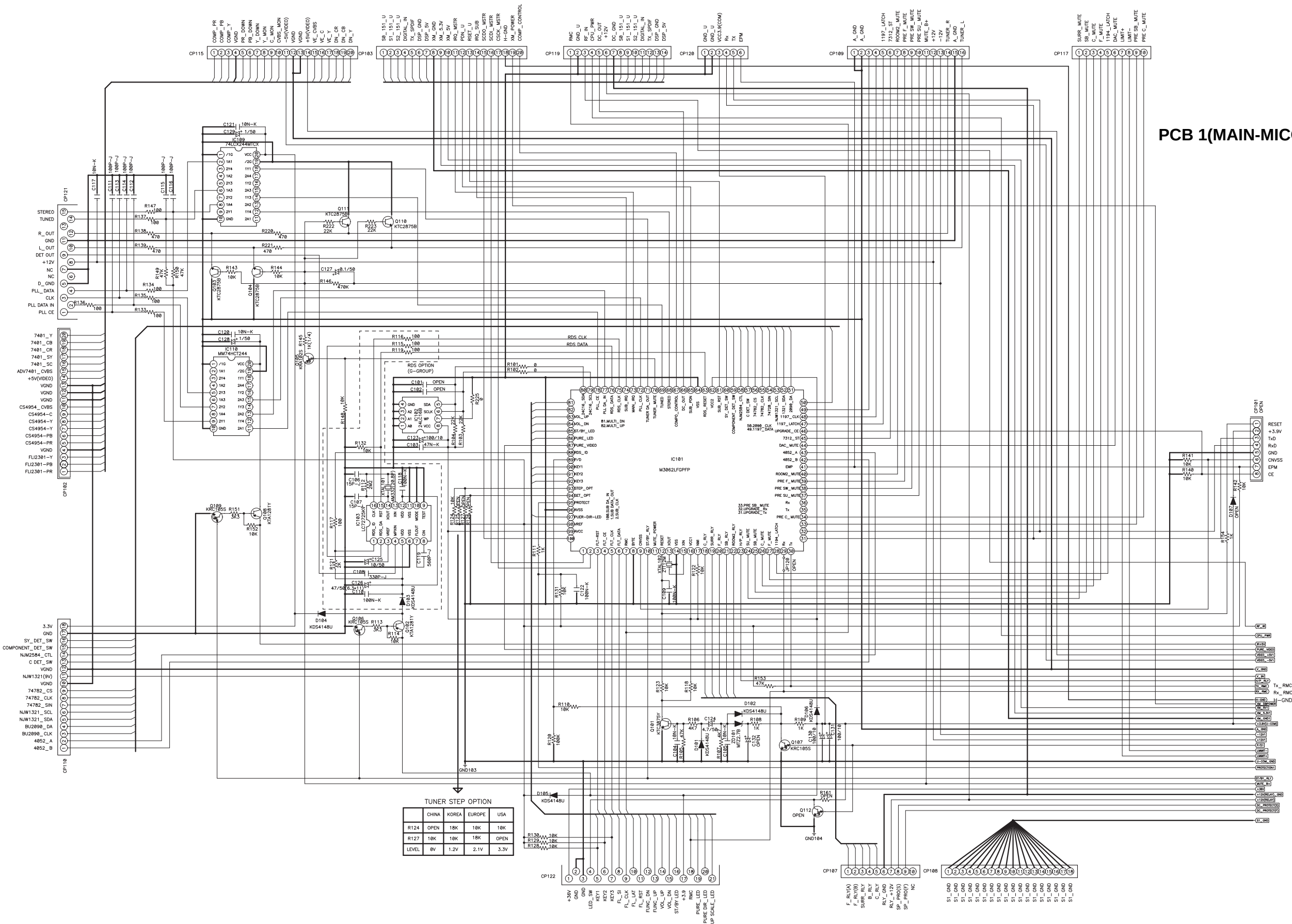
Model No.: R-872



SCHEMATIC DIAGRAMS (2)

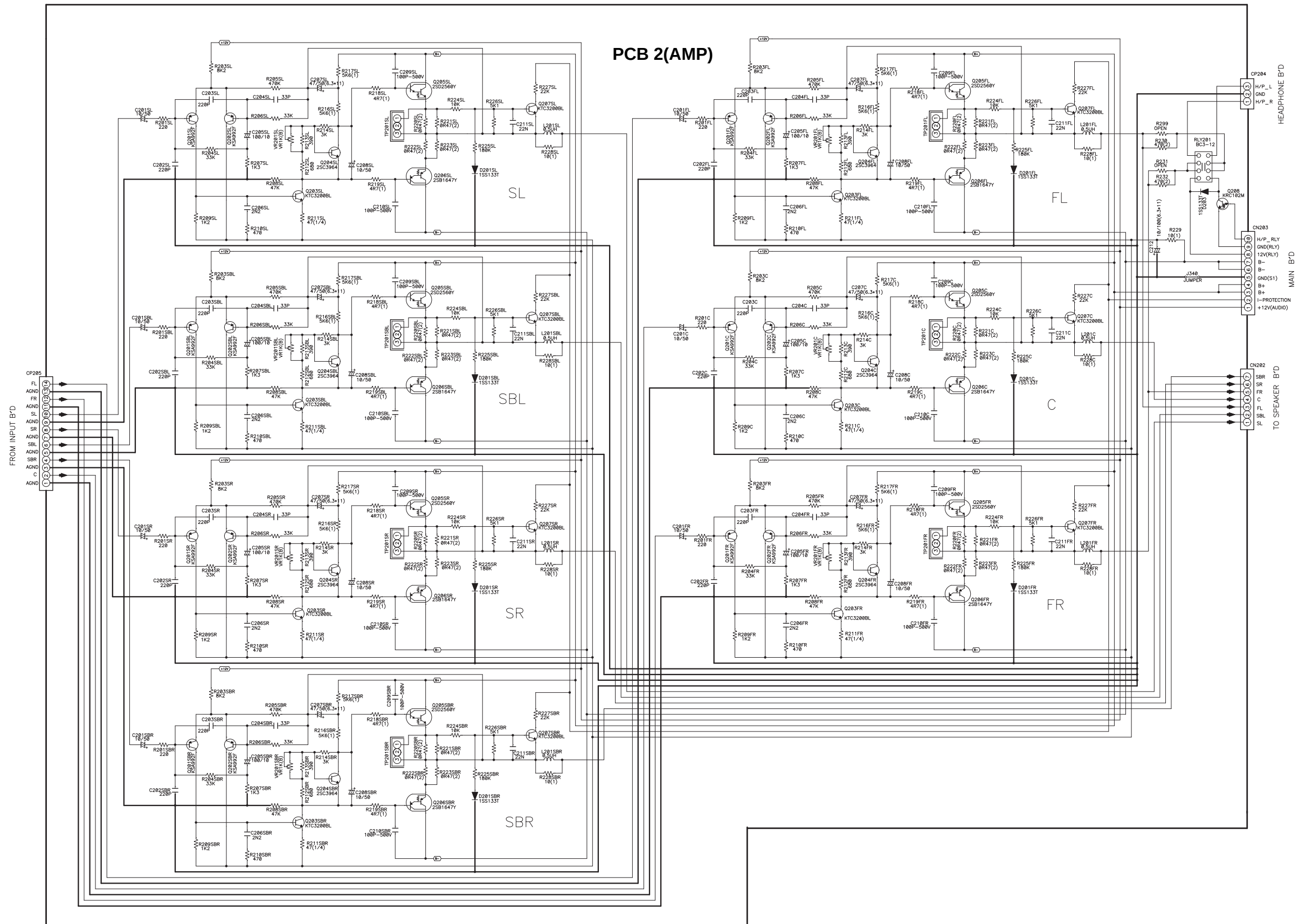
Model No.: R-872

PCB 1(MAIN-MICOM)



SCHEMATIC DIAGRAMS (3)

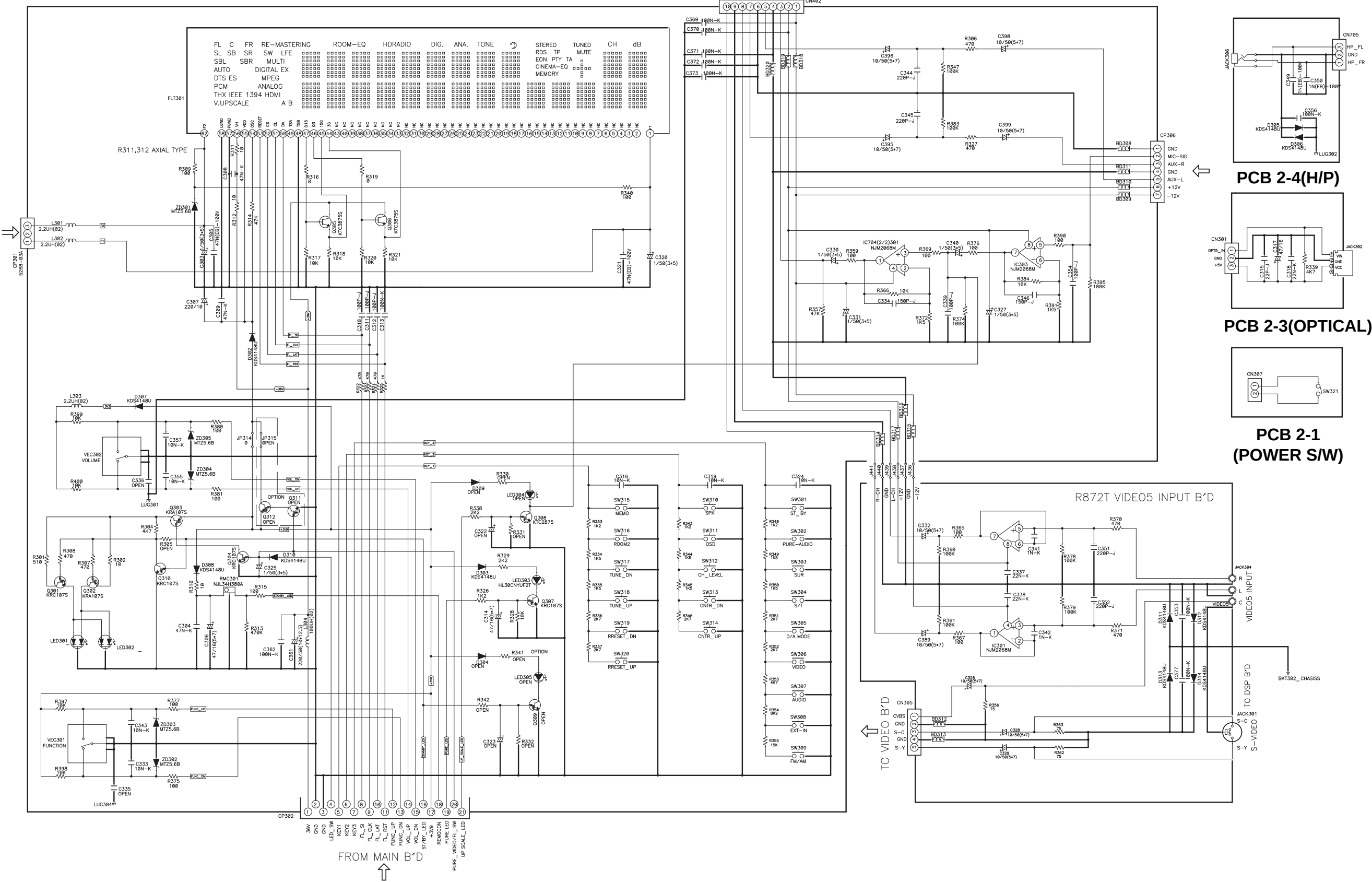
Model No.: R-872



SCHEMATIC DIAGRAMS (4)

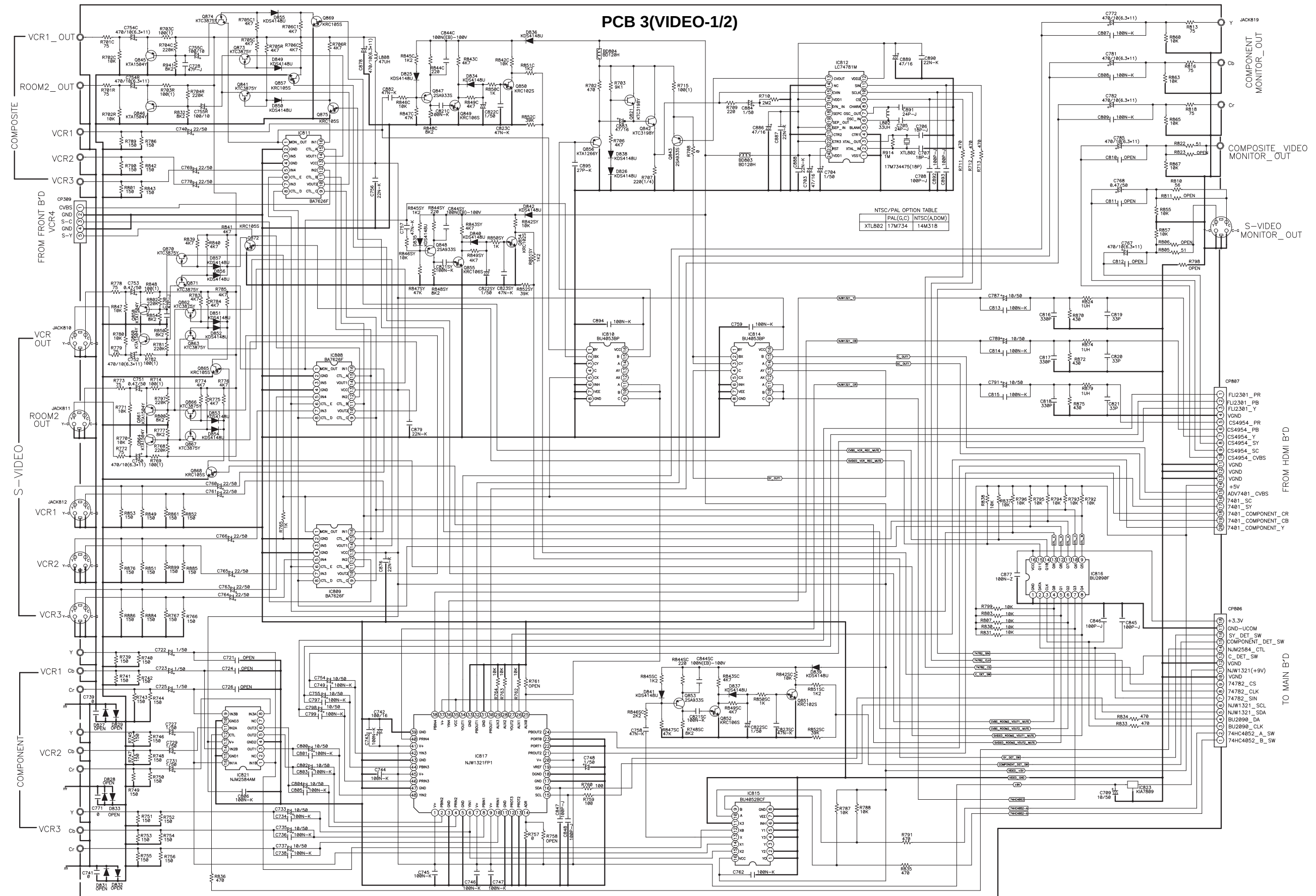
Model No.: R-872

PCB 2-2(FRONT)



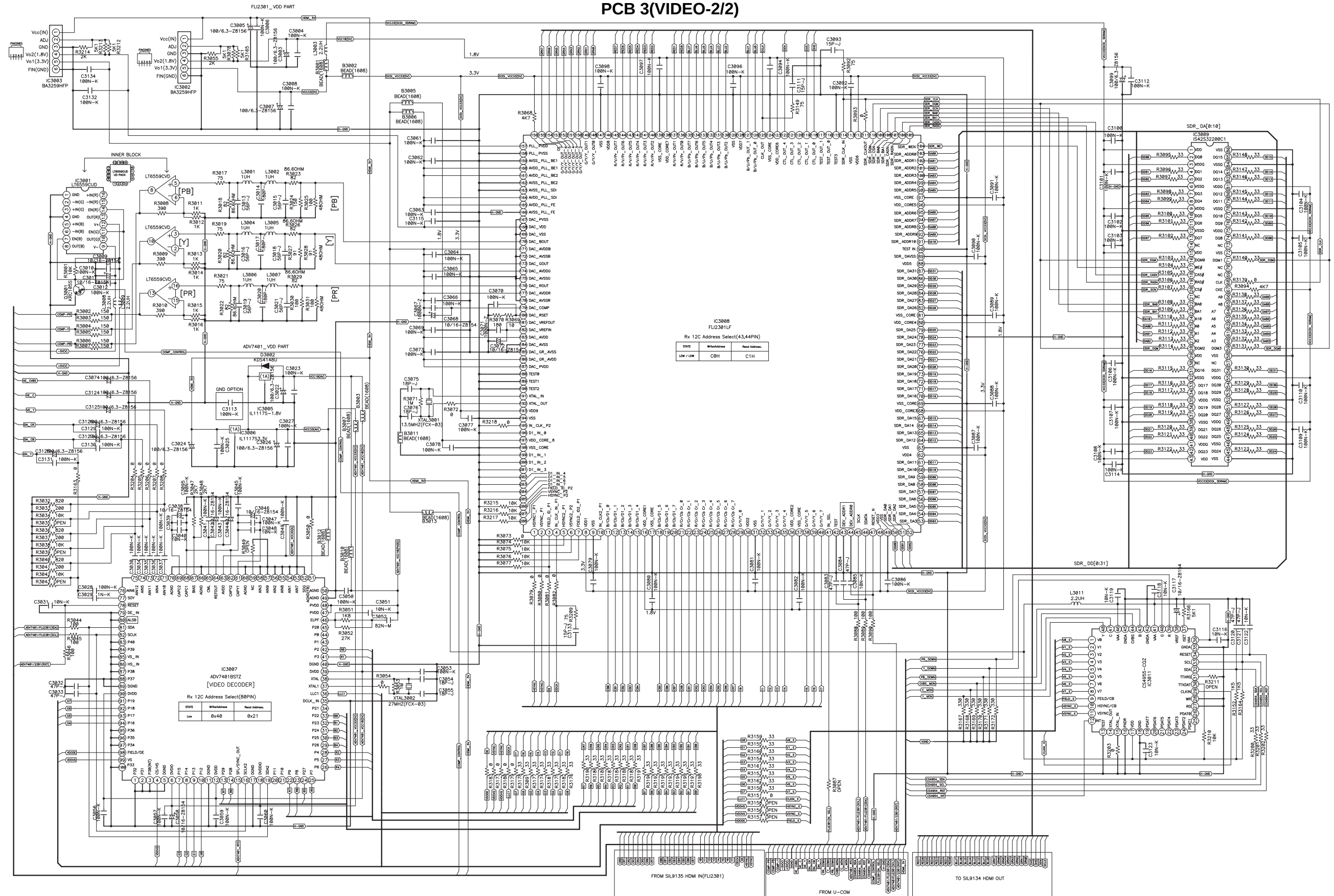
SCHEMATIC DIAGRAMS (5)

Model No.: R-872



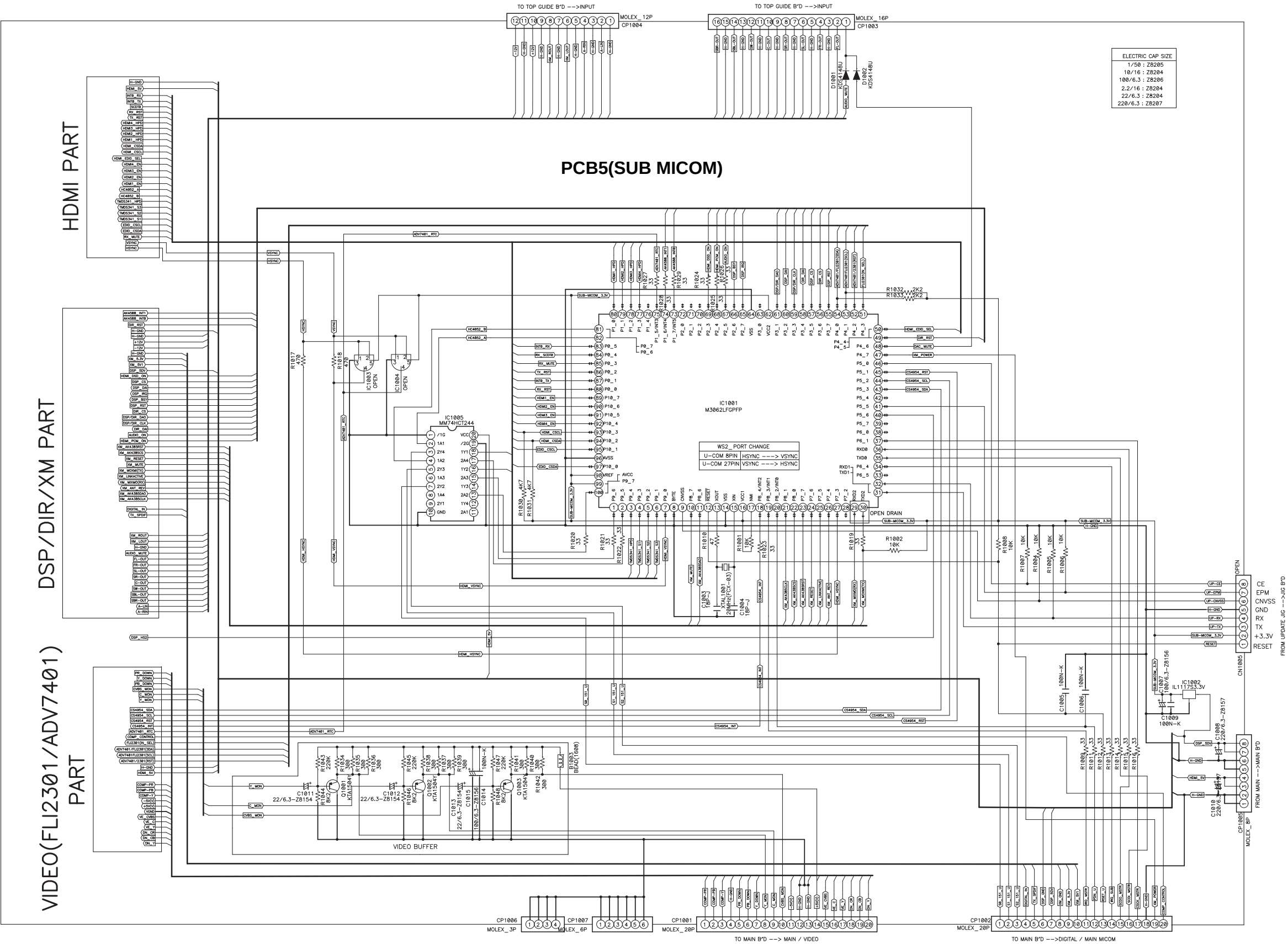
PCB 3(VIDEO-2/2)

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SCHEMATIC DIAGRAMS (7)

Model No.: R-872



PCB 4(INPUT-1/3)

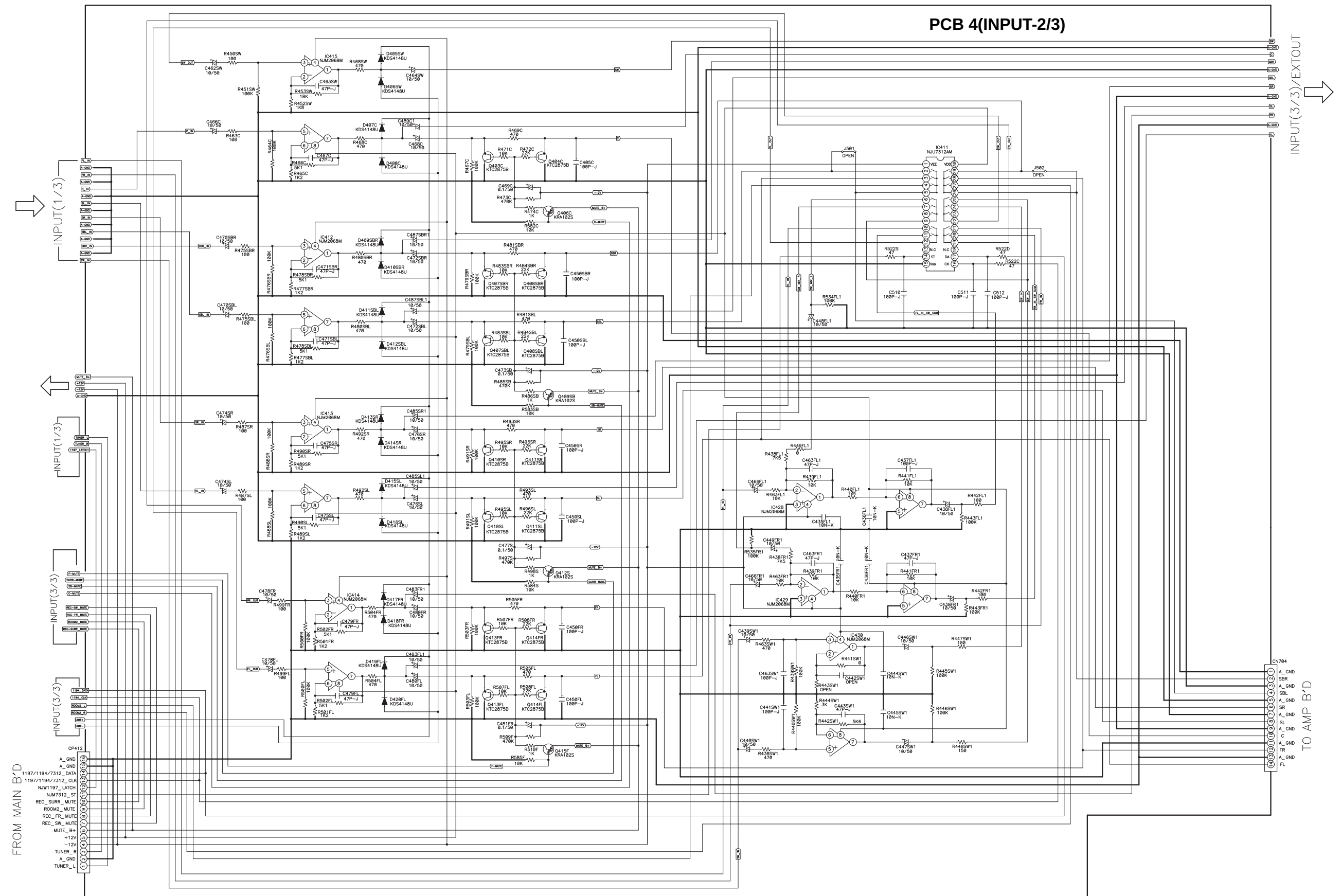
INPUT(2/3)



TO TOP GUIDE B'D ->DSP

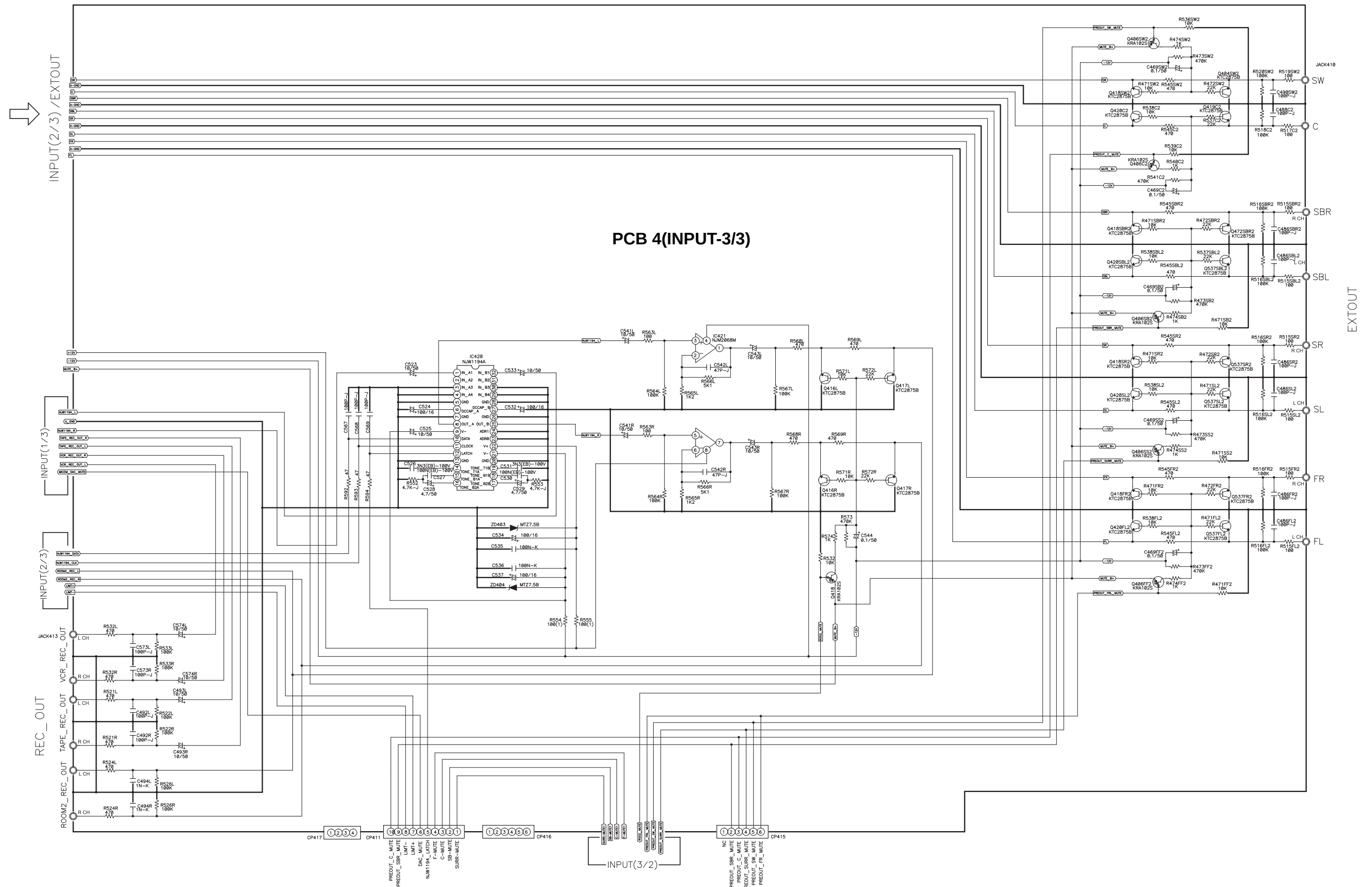
SCHEMATIC DIAGRAMS (9)

Model No.: R-872



SCHEMATIC DIAGRAMS (10)

Model No.: R-872



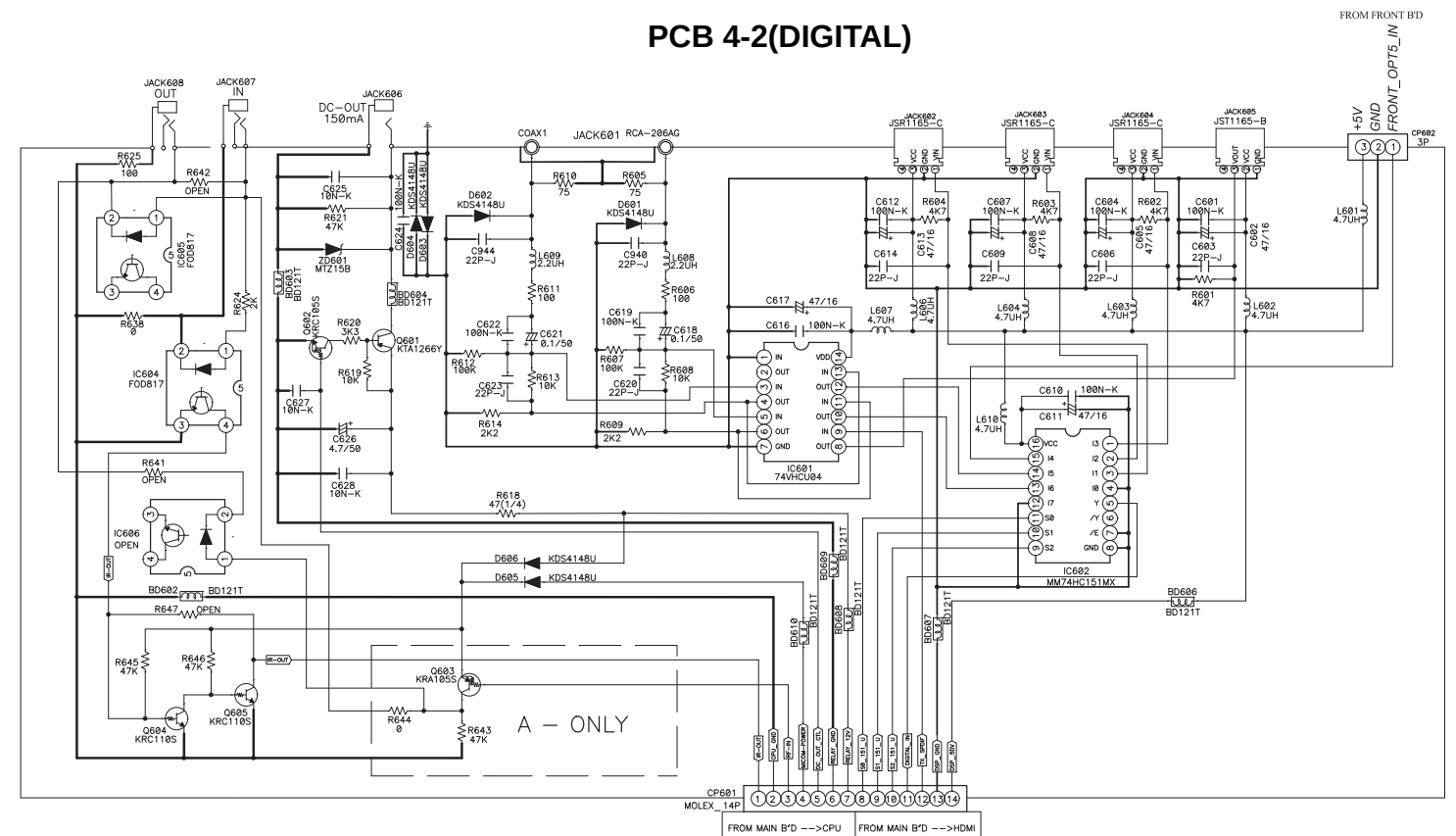
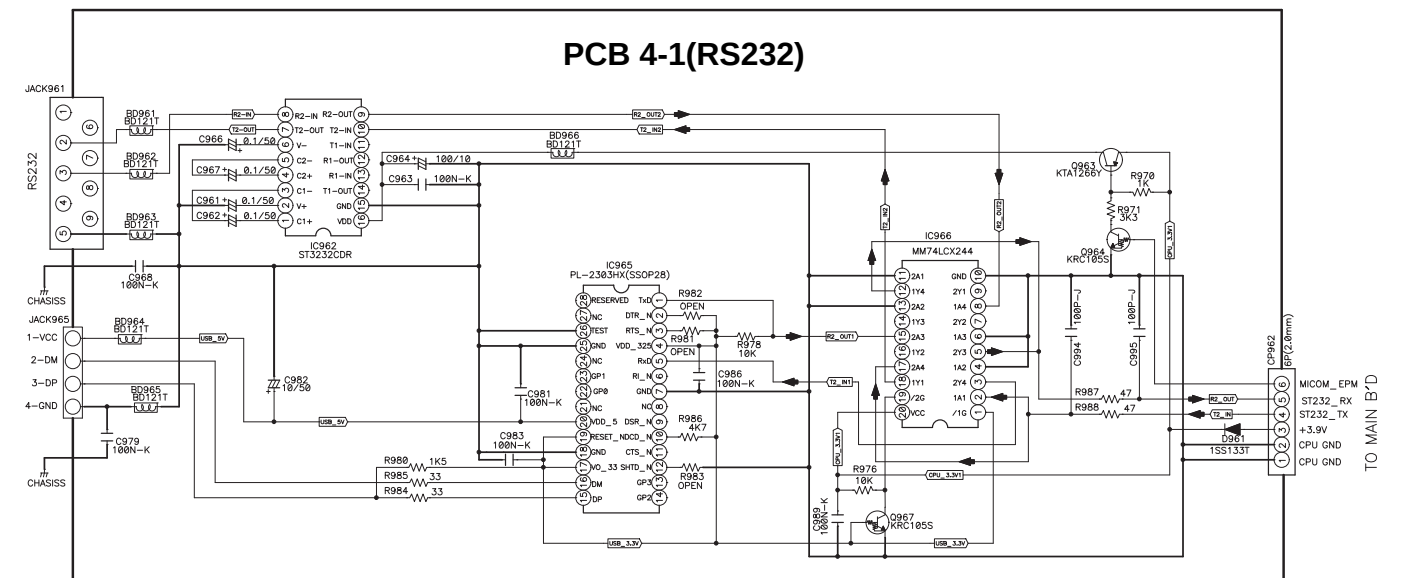
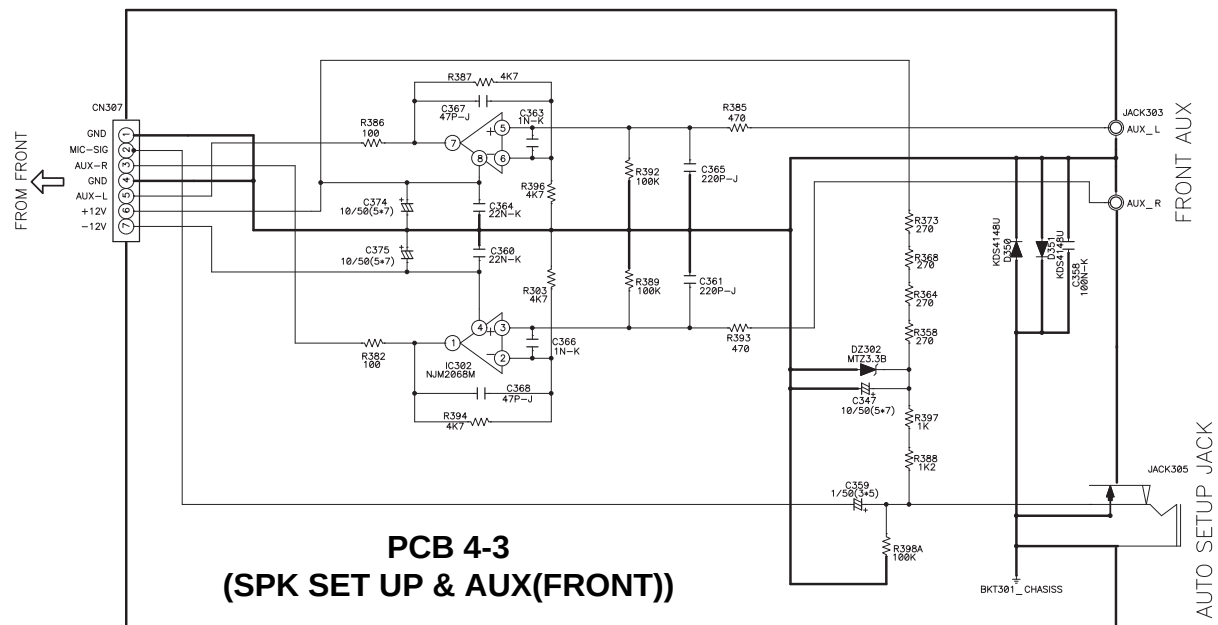
FROM MAIN B'D

TO TOP GUIDE B'D $\rightarrow$ DSP

SCHEMATIC DIAGRAMS (11)

Model No.: R-872

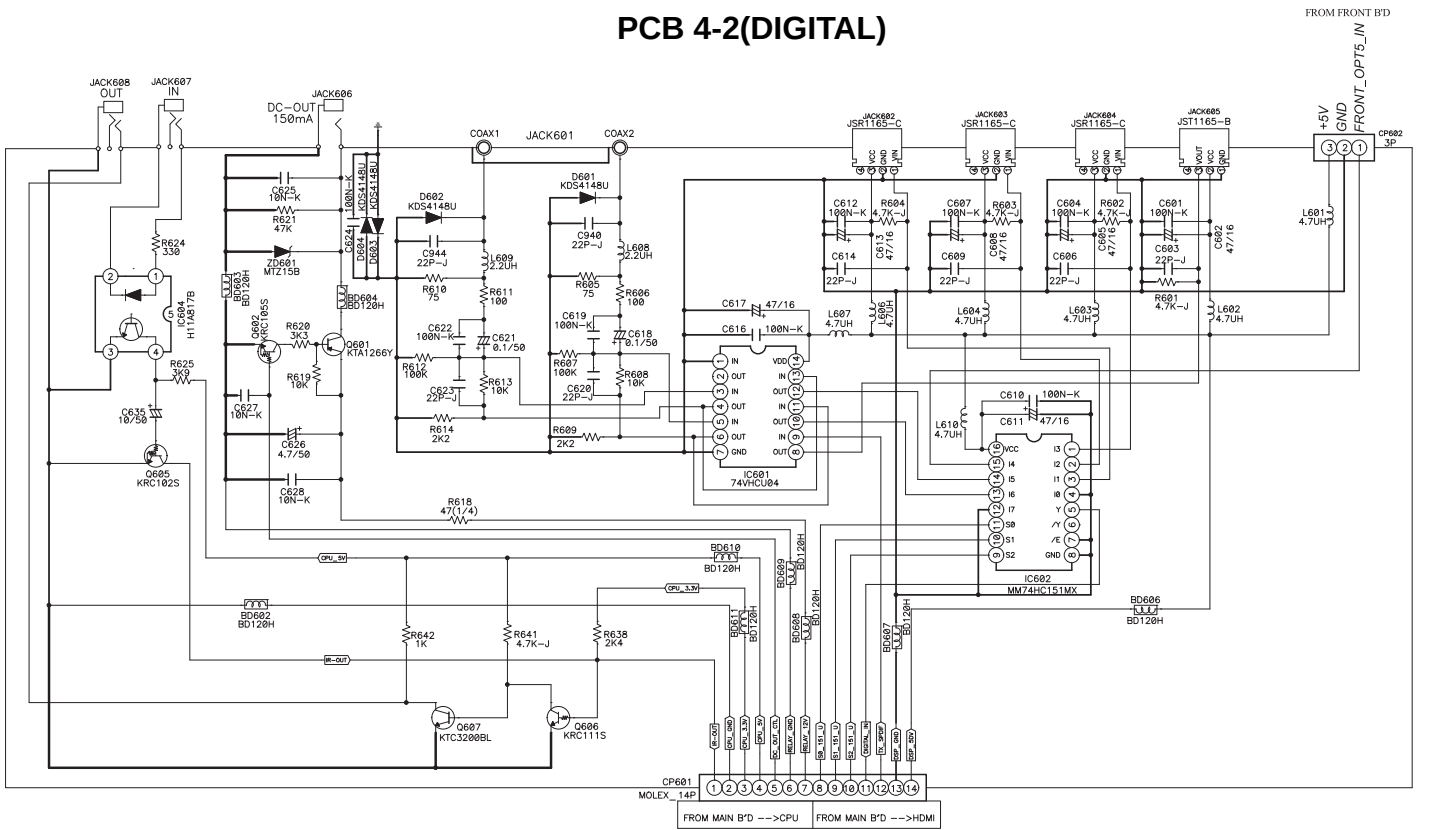
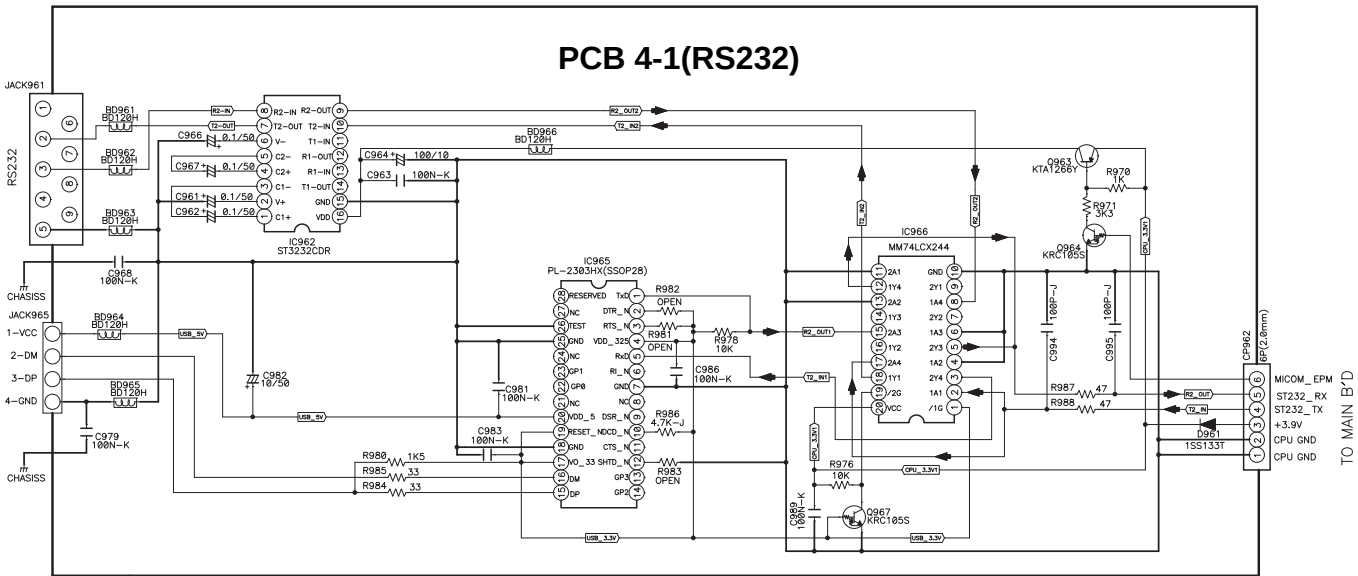
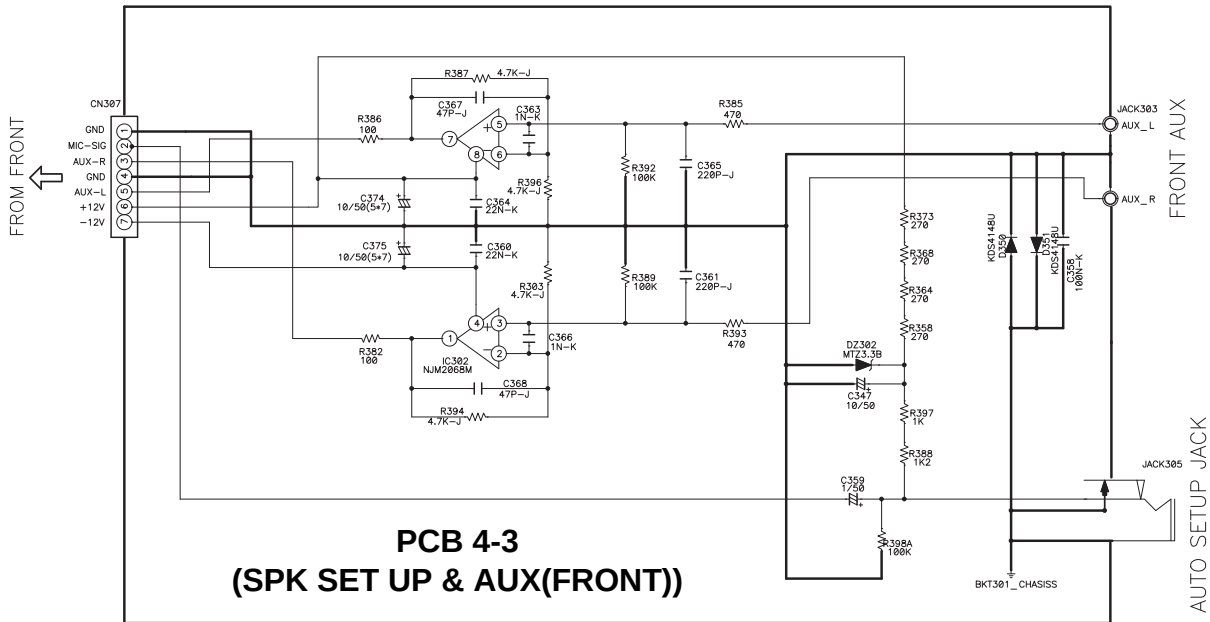
PCB 4(INPUT) A only



SCHEMATIC DIAGRAMS (12)

Model No.: R-872

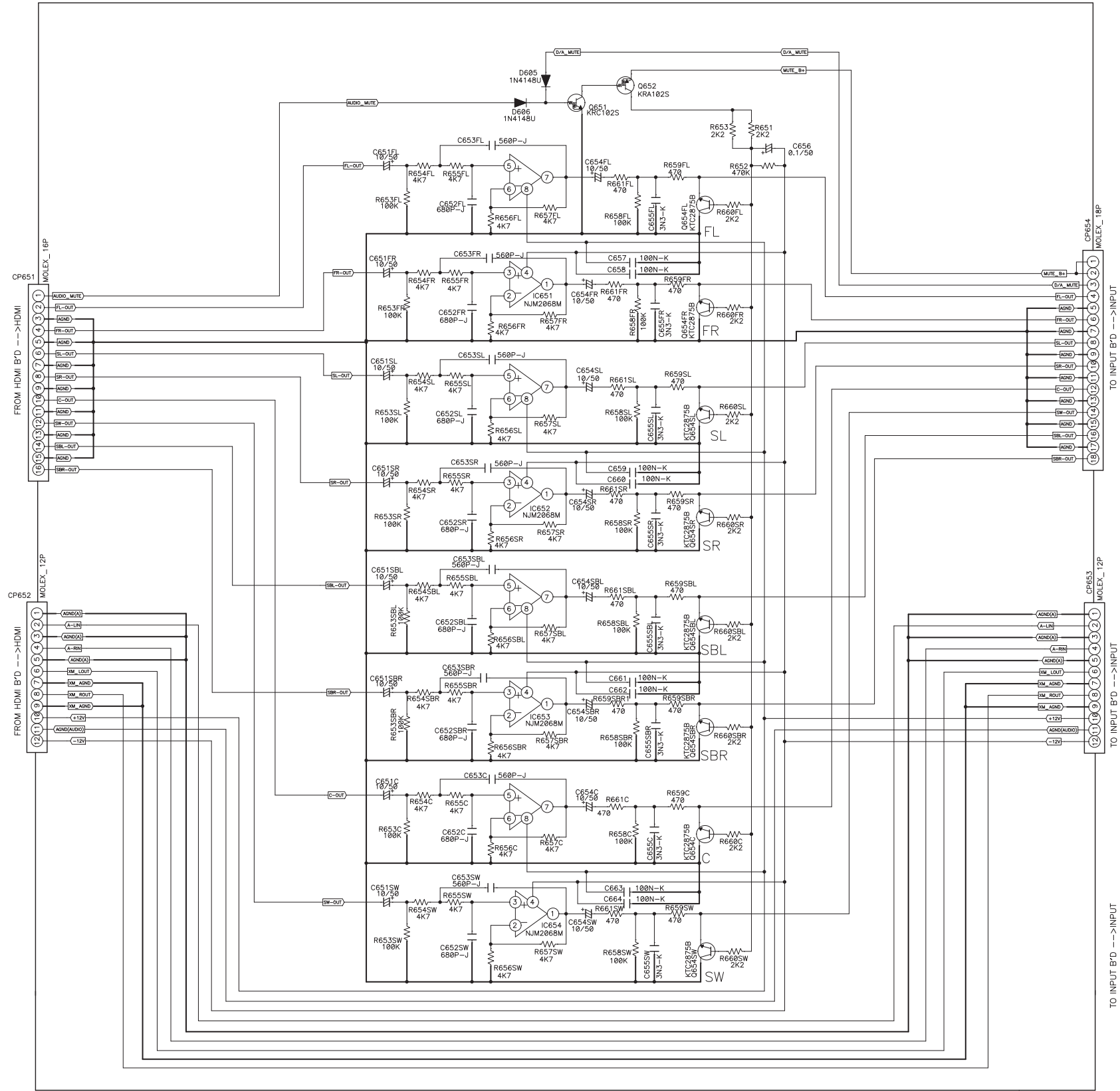
PCB 4(INPUT) G/K only



SCHEMATIC DIAGRAMS (13)

Model No.: R-872

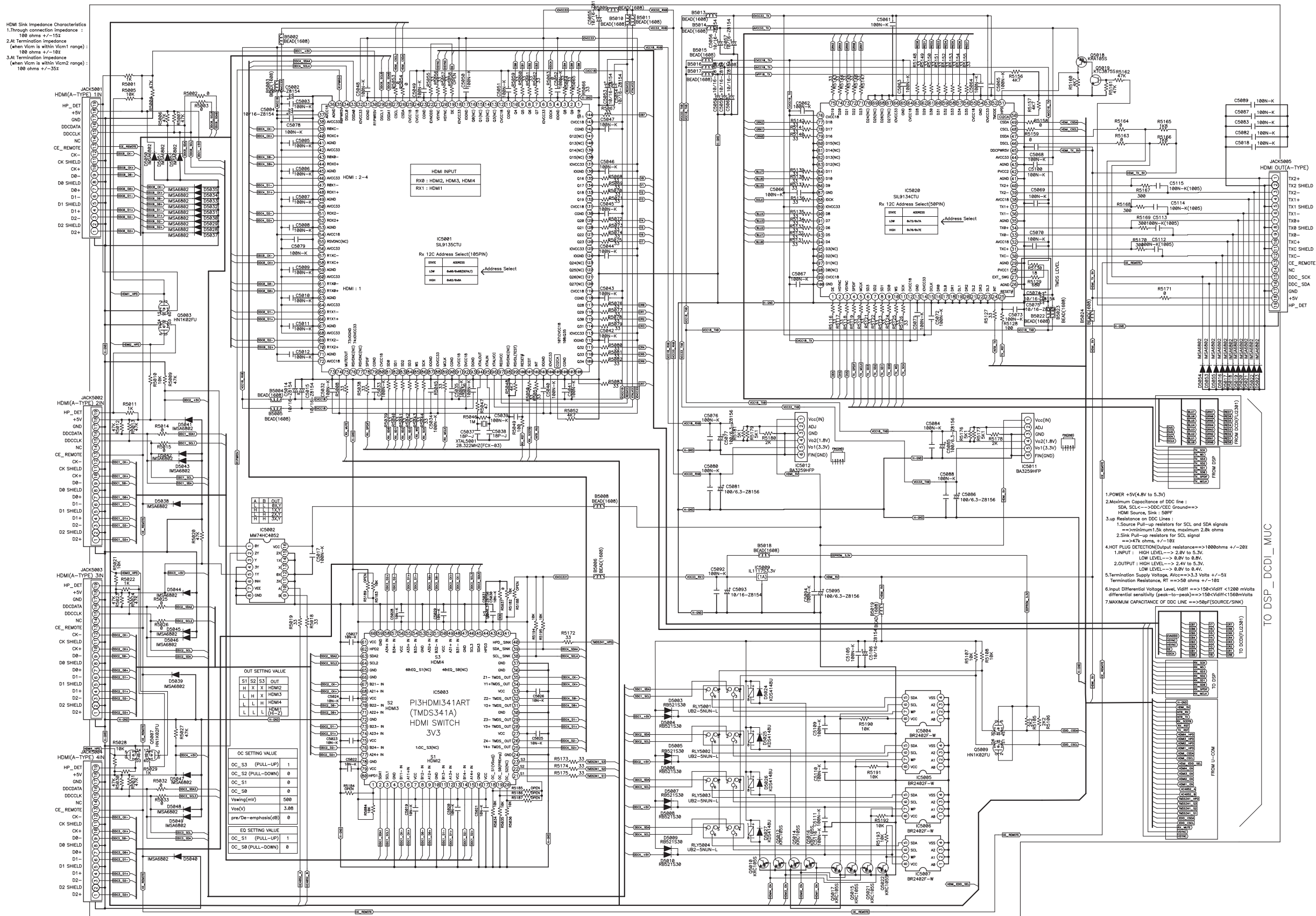
(CONNECTOR)



PCB 5(HDMI)

HDMI Sink Impedance Characteristics

1. Through connection impedance :
100 ohms $\pm$ 15%
2. At Termination impedance
(when Vicm is within Vicm1 range) :
100 ohms $\pm$ 10%
3. At Termination impedance
(when Vicm is within Vicm2 range) :
100 ohms $\pm$ 35%

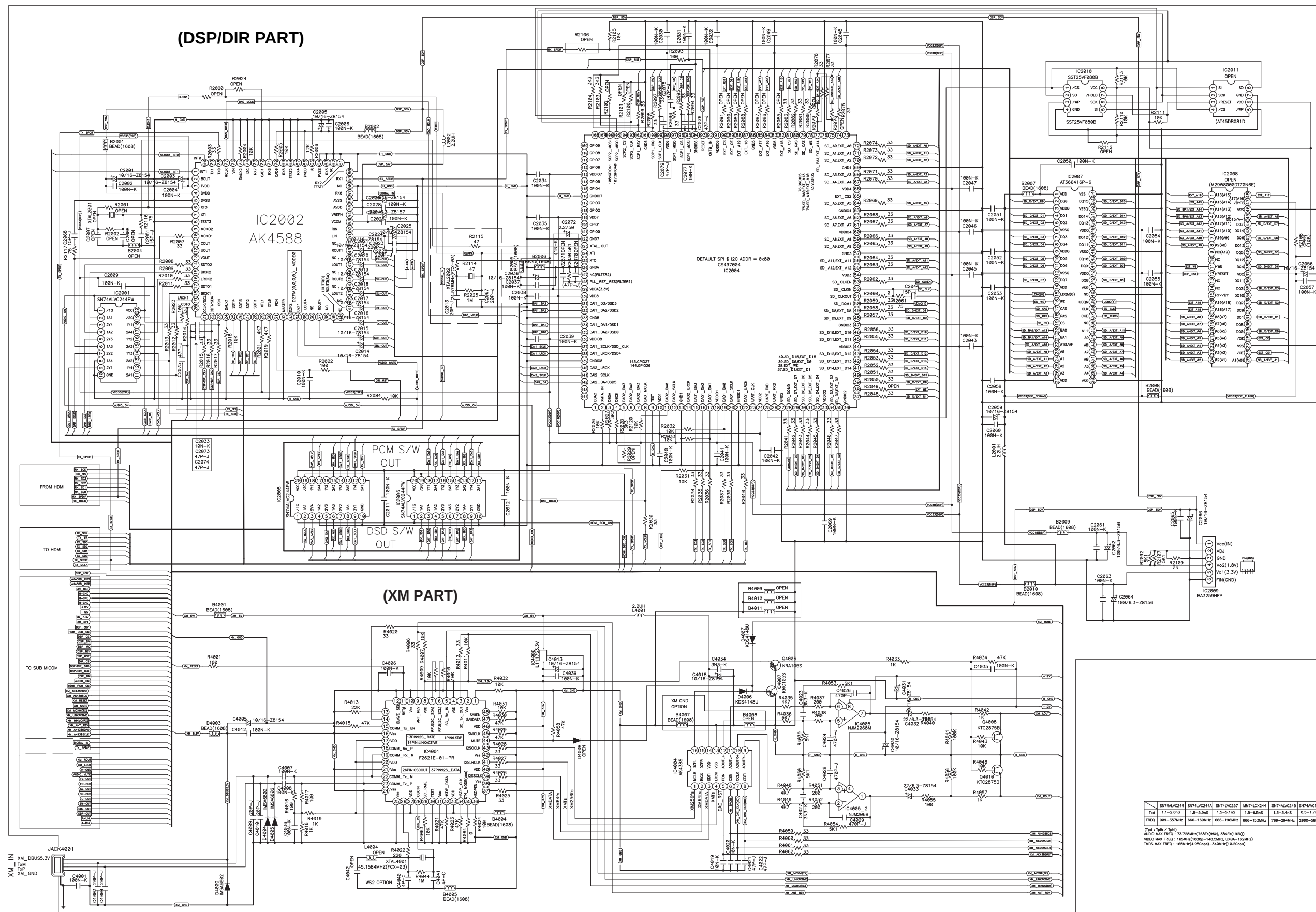


1. POWER +5V(+4 to 5.3V)
2. MAXIMUM CAPACITANCE OF DDC LINE:
SDA_SCLK --> DDC/VEEC Grounds==>
HDMI Source, Sink : 50pF
3. Up Resistance on DDC Lines:
1. Source Pull-up resistors for SDA and SDA signals
==>minimum 1.5k ohms, maximum 2.8k ohms
2. Sink Pull-up resistors for SDA signal
==>47k ohms, +/-10%
4. HIGH LEVEL DETECTION(Output resistance==>100ohms + /-20%)
1. INPUT : LOW LEVEL ==> -2.8V to 0.5V
LOW LEVEL ==> 0.8V to 1.8V
2. OUTPUT : LOW LEVEL ==> 2.4V to 0.5V,
HIGH LEVEL ==> 0.8V to 1.8V
5. Termination Supply Voltage, VDD==>3.3 Volts +/-5%
Termination Resistance, RT==50ohms +/-10%
6. Input Differential Voltage Level, Vdiff ==150<Vdiff<1200 mV
differential sensitivity (peak-to-peak)==>150<Vdiff<1500mV
7. MAXIMUM CAPACITANCE OF DDC LINE ==>50pF(SOURCE/SINK)

TO DSP_DCDI_MUC

SCHEMATIC DIAGRAMS (15)

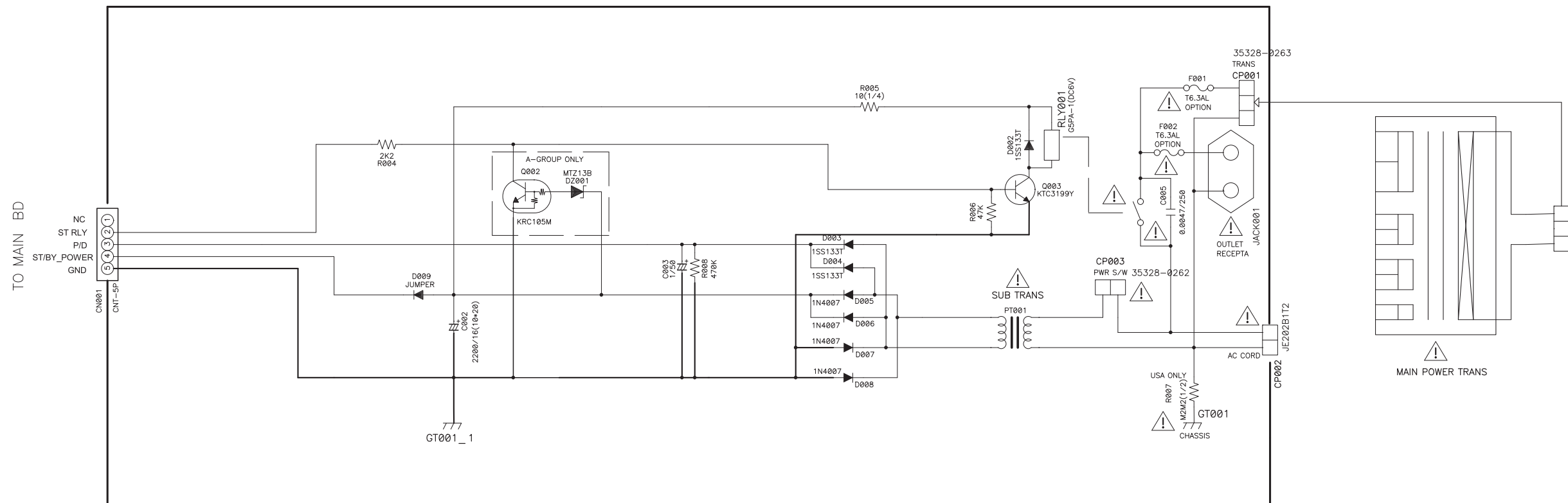
Model No.: R-872



SCHEMATIC DIAGRAMS (16)

Model No.: R-872

PCB 6(ST-BY)



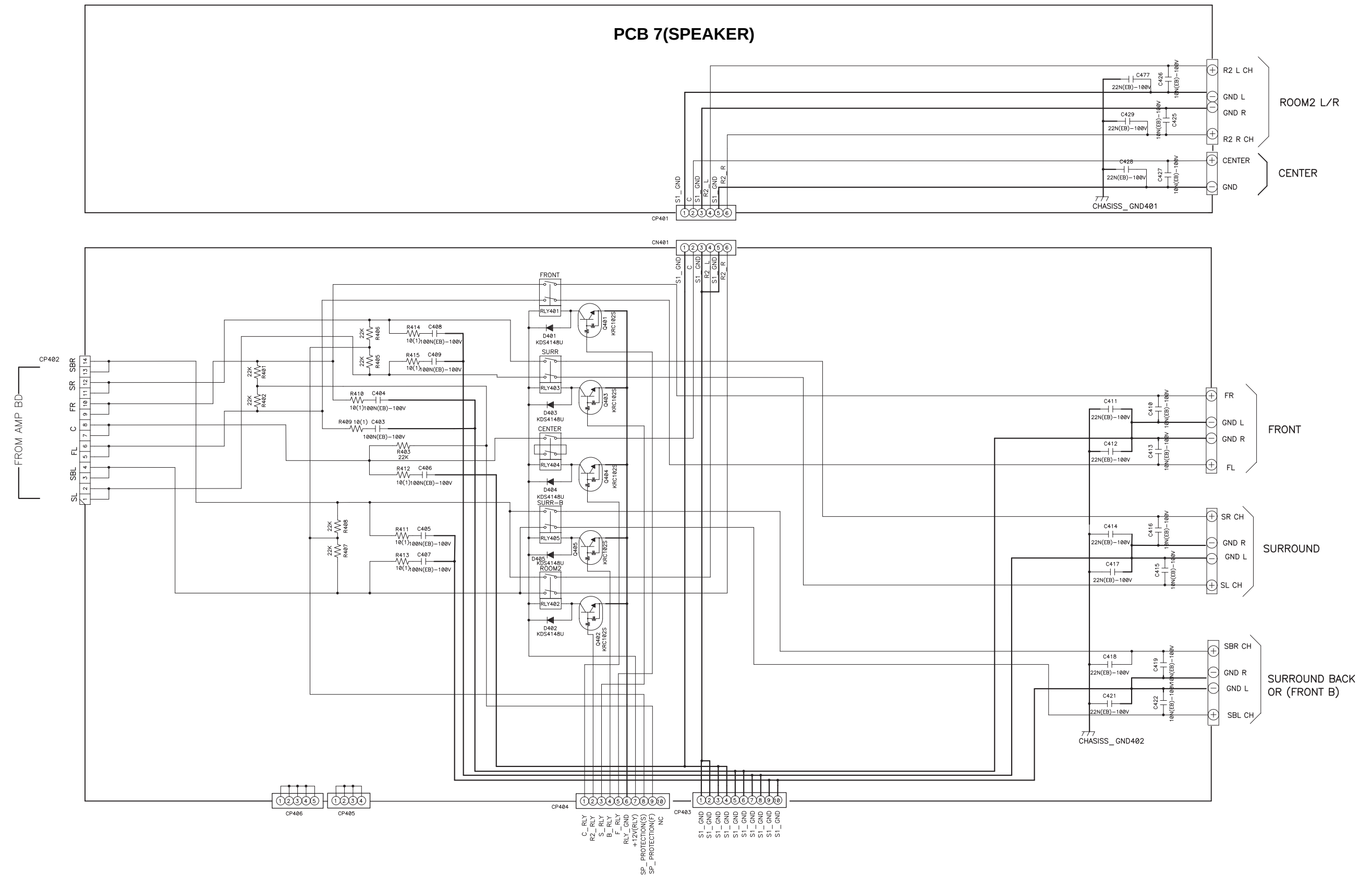
OPTION TABLE(POWER PART)

	USA	EUR/UK	CHI/KOR
F001	T8AL/250V	T6.3AL/250V	T6.3AL/250V
F002	T8AL/250V	T6.3AL/250V	DEL
R007	2M2(C)	DEL	DEL
JACK001 OUTLET	RECEPTA CCT1304-0212	RECEPTA YKE31-0090	DEL
PT001	120V/60HZ	230V/50HZ	220V/50HZ

 INDICATES SAFETY CRITICAL COMPONENTS.
TO REDUCE THE RISK OF ELECTRIC SHOCK, LEAKAGE
CURRENT OR RESISTANCE MEASUREMENTS SHALL BE
CARRIED OUT (EXPOSED PARTS ARE ACCEPTABLY
INSULATED FROM THE SUPPLY CIRCUIT) BEFORE
THE APPLIANCE RETURNED TO THE CUSTOMER.

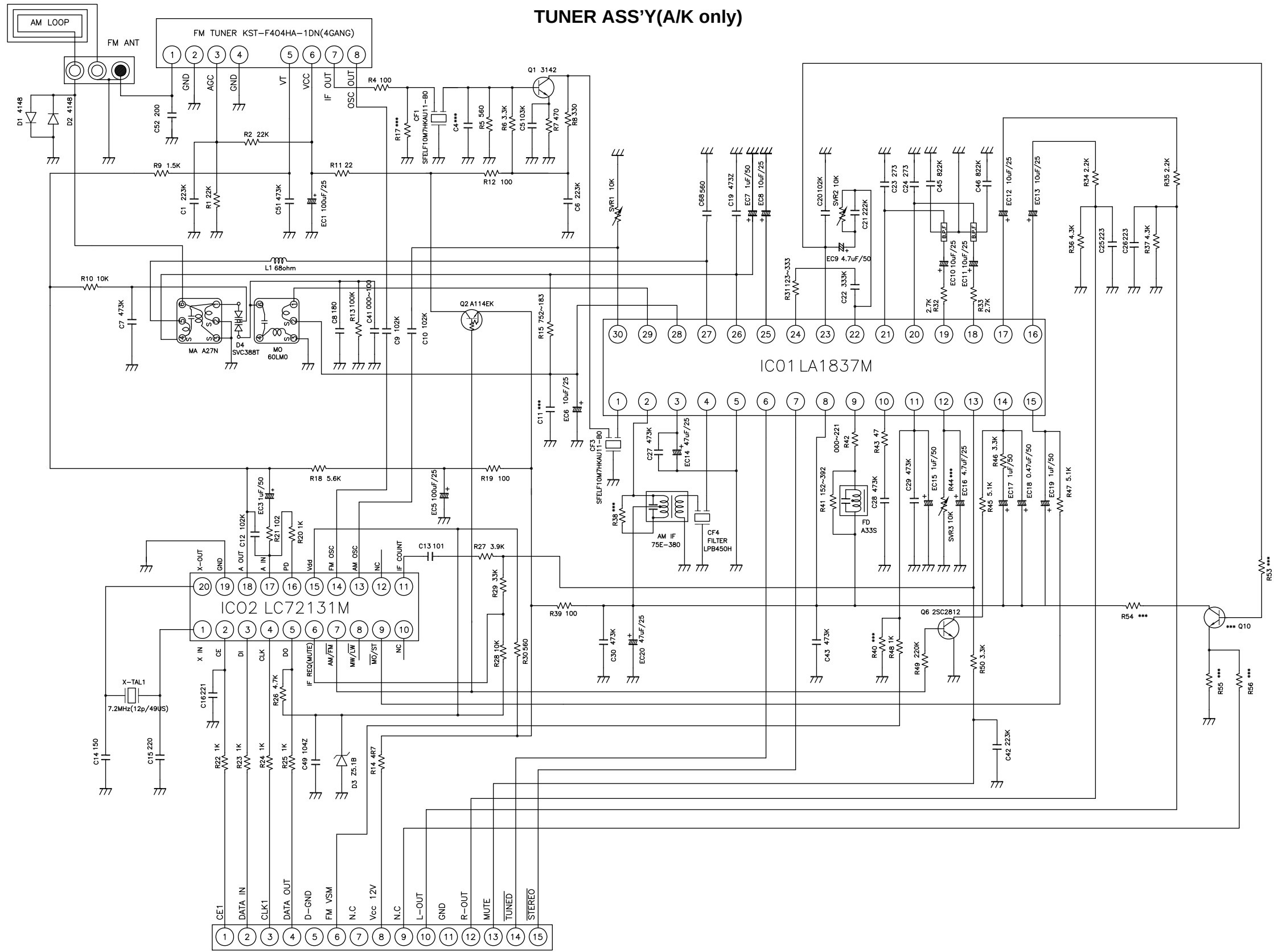
SCHEMATIC DIAGRAMS (17)

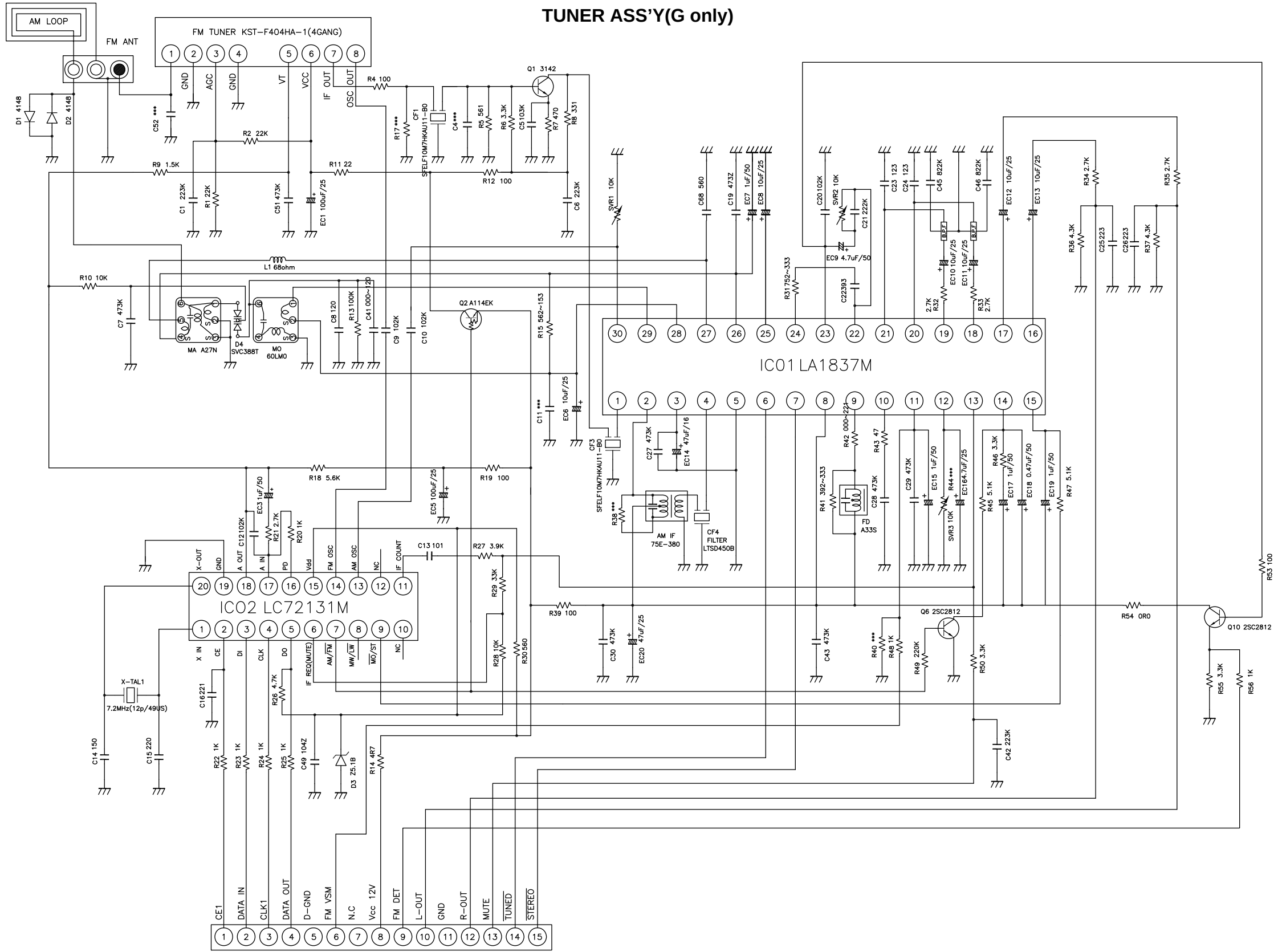
Model No.: R-872



SCHEMATIC DIAGRAMS (18)

Model No.: R-872





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