

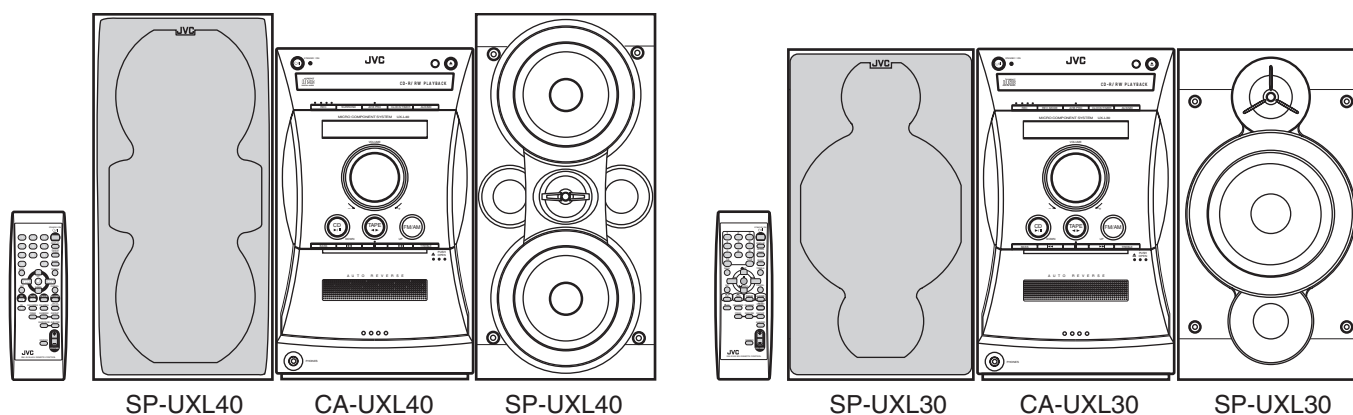
JVC

SCHEMATIC DIAGRAMS

MICRO COMPONENT SYSTEM

UX-L40/UX-L30

CD-ROM No.SML200207



UX-L40	
Area Suffix	
US	----- Singapore
UP	----- Korea
UW	----- Brazil,Mexico,Peru



UX-L30	
Area Suffix	
US	----- Singapore
UP	----- Korea
UW	----- Brazil,Mexico,Peru
UJ	----- U.S.Military

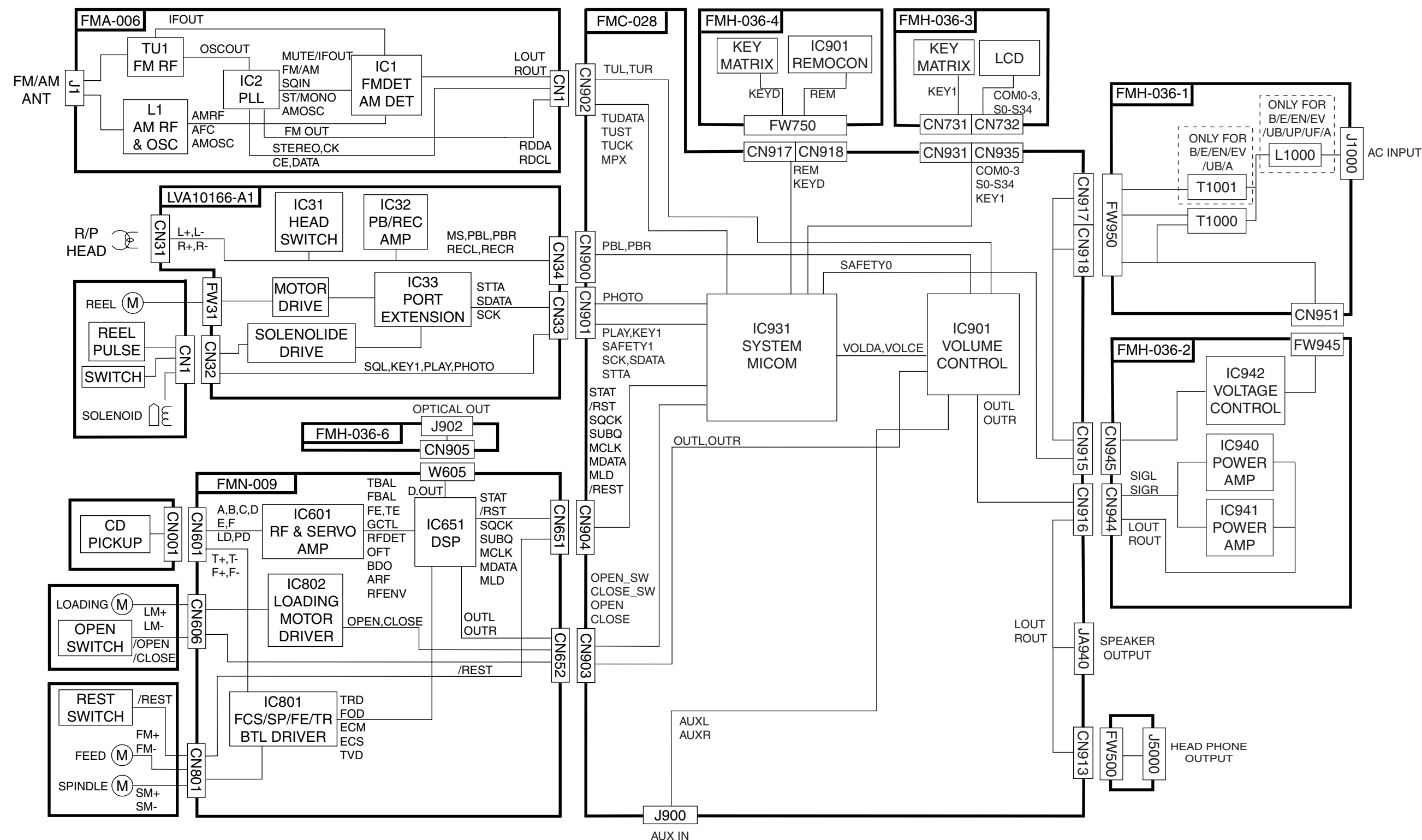
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In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (■), diode (⬤) and ICP (●) or identified by the "△" mark nearby are critical for safety.

(This regulation does not correspond to J and C version.)

Block diagram

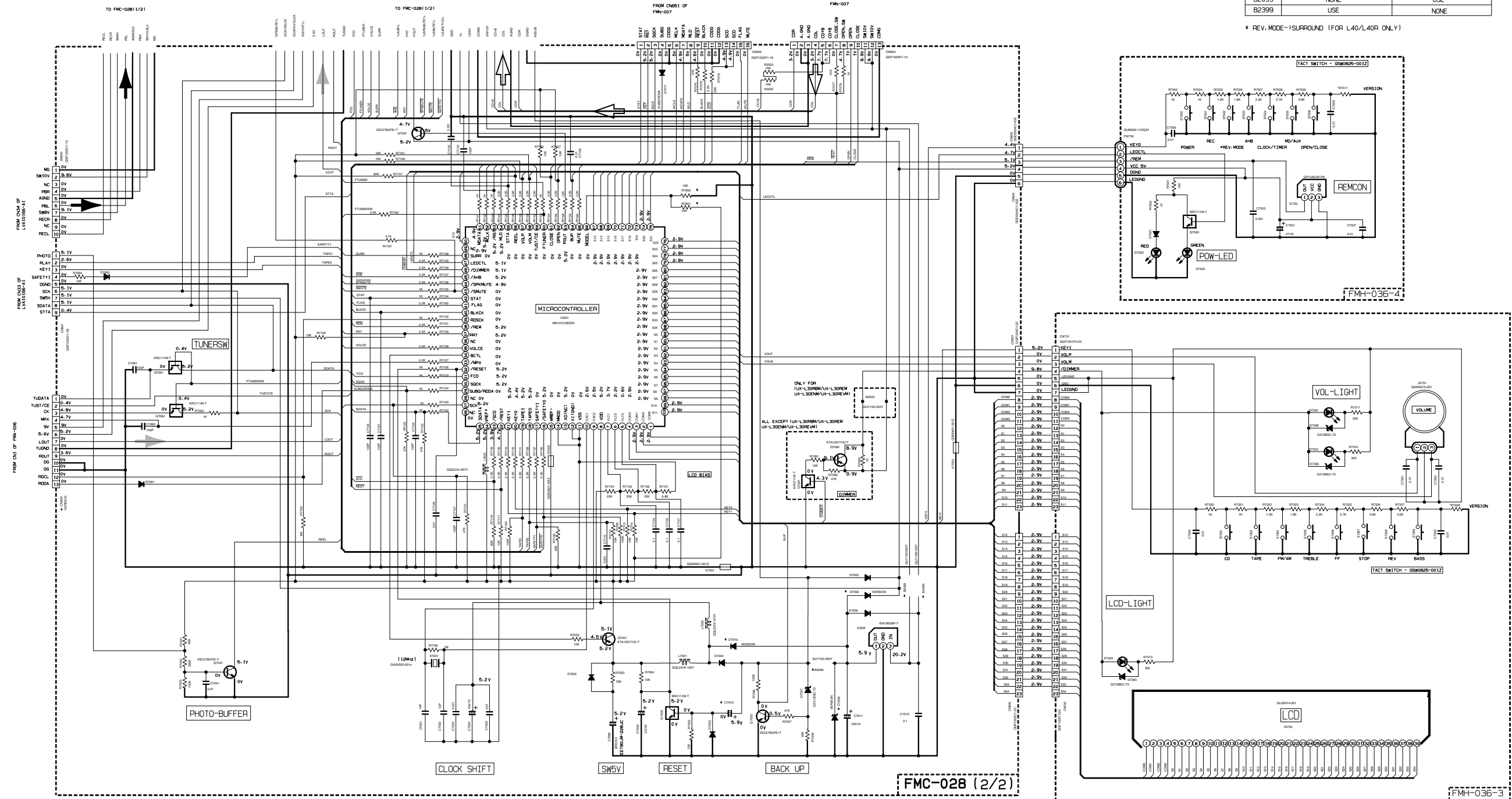


Standard schematic diagrams

■ Front circuit

* MARK			* MARK					
MODEL	FS-L30	UX-L40R	VERSION	(J/C)	(UF/UJ/UP/ US/UT/UW)	(UY)	(UB/A)	(B/E/EN/EV)
ITEMS	UX-L30	UX-L40	ITEMS					
R7800	USE	NONE	CN902	QGF1205F1-09			QGF1205F1-13	
R7801	NONE	USE	D7071/BW	B2097			D7071	
R7328 (VERSION)			B2K	27K	—	—	—	
R7511 (VERSION)			—	—	6.2K	82K	36K	
C7010			4.7/50			10/50		
D7008			DZ8-285B			DZ6-285C		
D7009			NONE			1SS119-041-T2		
D7010			NONE			1SS119-041-T2		
B2098			USE			NONE		
B2099			NONE			USE		
B2399			USE			NONE		

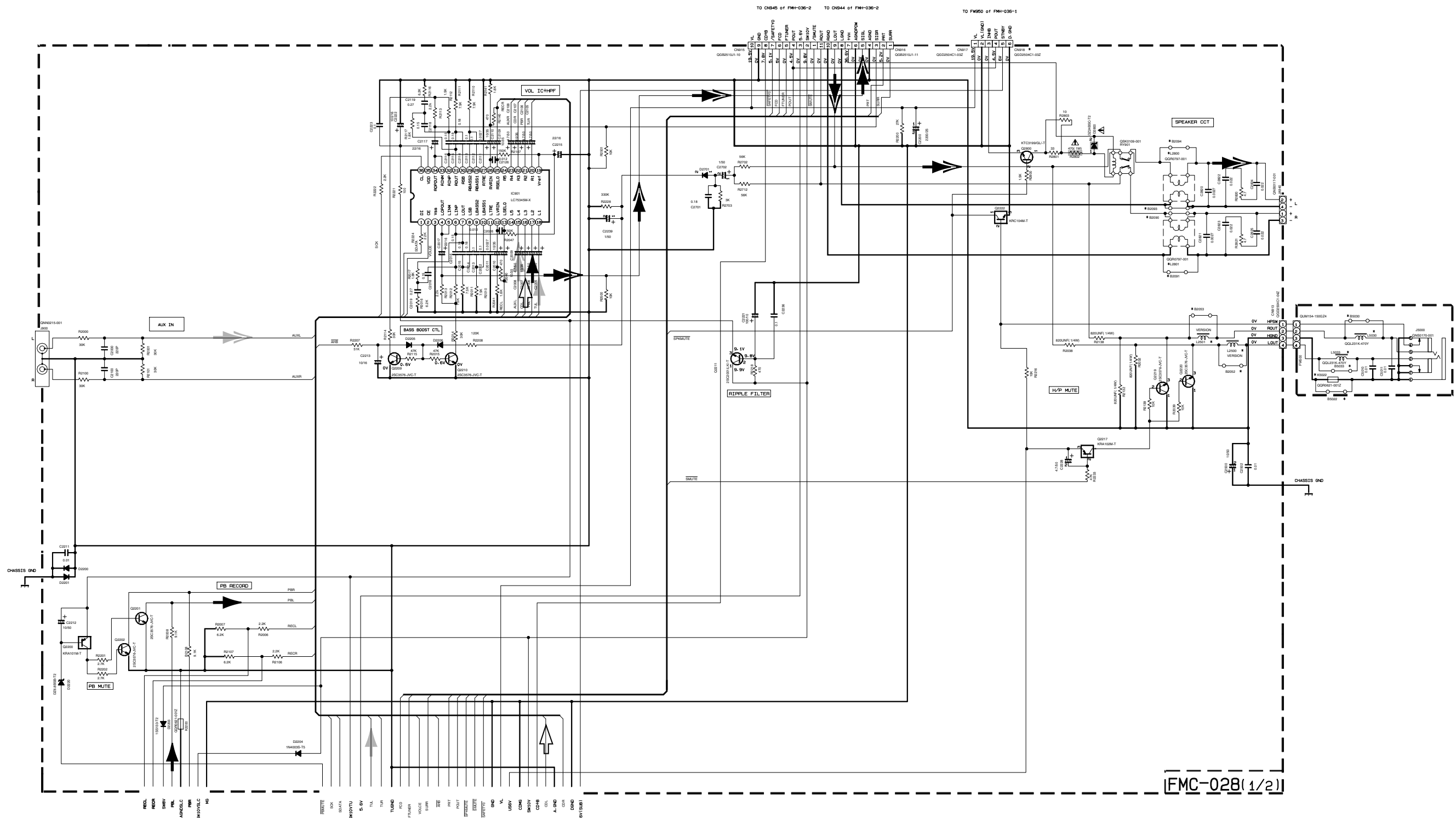
* REV. MODE → SURROUND (FOR L40/L40R ONLY)



- NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. CONDITION --- CD STOP MODE
 2. UNLESS OTHERWISE SPECIFIED:
ALL RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR.
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM (Ω).
ALL CAPACITANCE VALUES ARE IN pF (pF).
ALL INDUCTANCE VALUES ARE IN mH (mH).
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF) / RATED VOLTAGE (V).
ALL DIODES ARE 1SS119-041-12 UNLESS SPECIFIED

➡ TAPE P.B. SIGNAL
➡ CD SIGNAL
➡ TUNER SIGNAL

■ Main circuit



TO MICON BLOCK (PAGE 3/9)
1. ALL VALUES ARE MEASURED IN VOLTS ---- CD STOP MODE.

IC	PIN NO.																																					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	
IC901		5.2	0.4	0	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	7.4	0

2. UNLESS OTHERWISE SPECIFIED.
ALL RESISTORS ARE 1/10W 45% METAL GLAZE RESISTOR.
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITANCE VALUES ARE IN pF(pF).
ALL INDUCTANCE VALUES ARE IN μH(μH).
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
ALL DIODES ARE 1SS119-041-72 UNLESS SPECIFIED

TO MICON BLOCK (PAGE 3/9)

■ PART LIST

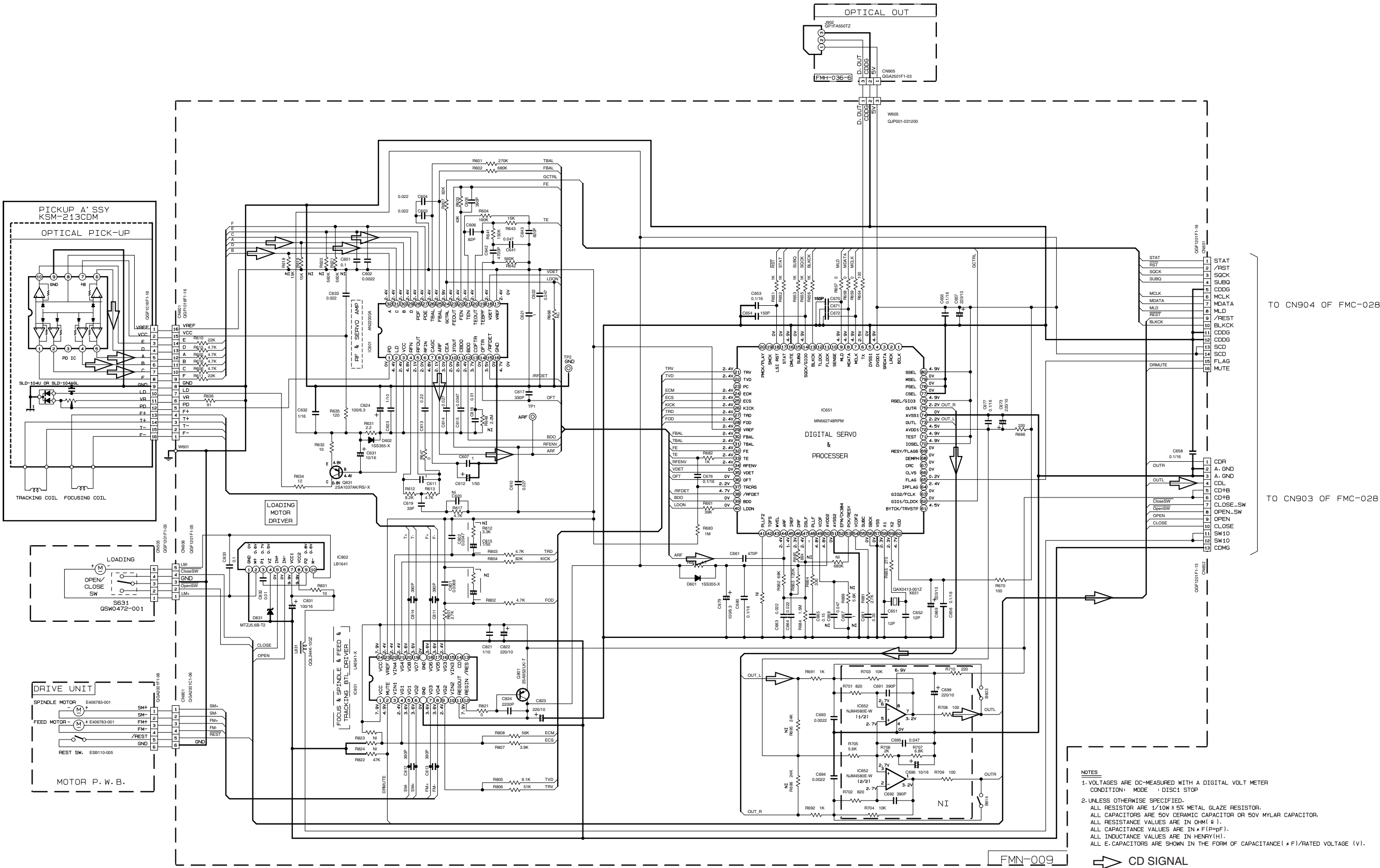
VERSION	PART	L2500/L2501	R2050/R2053	CH918	L2800/L2801	R2091/R2090 R2093/R2094	K5020/L5030 L5033	R5022/R5030 R5033
B/E/EN/VE/A/UB	QOL231K-560Y	NONE	USE	QGR0797-001	NONE	USE	NONE	NONE
U/AA/UA/UT/AM/UY/US	QOL231K-560Y	NONE	NONE	QGR0797-001	NONE	USE	NONE	NONE
J/C	NONE	QJY150-050Y	NONE	NONE	QJY150-050Y	NONE	QJY150-050Y	NONE

▲ Parts are safety assurance parts.
When replacing those parts make
sure to use the specified one.

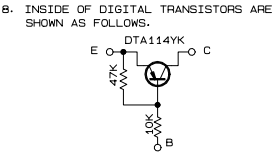
- ▶ TAPE P.B. SIGNAL
- ▶ CD SIGNAL
- ▶ TUNER SIGNAL
- ▶ AUX IN SIGNAL
- ▶ MAIN SIGNAL

1. VOLTAGES ARE DC-MEASURED USING A DIGITAL VOLTMETER OR AN OSCILLOSCOPE WITHOUT INPUT SIGNAL CONDITION
2. UNLESS OTHERWISE SPECIFIED
- ALL RESISTORS ARE 1/6W $\pm 5\%$ CARBON RESISTOR.
- ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
- ALL RESISTANCE VALUES ARE IN OHM(Ω).
- ALL CAPACITANCE VALUES ARE IN μF (μF).
- ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
- ALL DIODES ARE 1SS119-041-T2 TYPE UNLESS SPECIFIED
- ☒ POLYPROPYLENE CAPACITOR
- ☒ 50V $\pm 5\%$ MYLAR CAPACITOR OR 50V $\pm 5\%$ THIN FILM CAPACITOR
3. THOSE PART WITH BRACKET IS NOT USED.
- FOR RESISTOR, IT WOULD BE A SHORT.
- FOR CAPACITOR, IT WOULD BE AN OPEN.

CD servo circuit



➡ TAPE P.B. SIGNAL





- NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
 2. ALL RESISTORS ARE 1/8W \pm 5% METAL GLAZE RESISTOR.
 3. ALL RESISTANCE VALUES ARE IN OHM(Ω).
 4. ALL CAPACITANCE VALUES ARE IN μ F(PppF).
 5. ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μ F)/RATED VOLTAGE (V).
 6. SI DIODES (∇) ARE ALL 1SS133-T THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS M165 OR HSS104J.
 7. PARTS NO. OF TRANSISTORS ARE AS FOLLOWS.
Q1 2SC2814/4-5/-X Q2,Q3 2SC2412K/R/-X
Q4,Q5 DTA114YKA-X

	VERSION	
	J/C	UF/UP/UJ/ US/UT/UW/UY
C42	0.0022	0.0015
C43	0.0022	0.0015
R1	560	560
R4	331	331
R5	560	560
R6	240	240
R8	D2	D2

	CONDITION	PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
IC1	FM NO SIGNAL		3.6	8.9	3.6	3.6	0	5.0	5.0	8.9	8.9	1.3	0.1	0	0.9	7.8	7.8	4.3	4.3	4.3	4.3	3.4	3.4	2.8	3.4	0	0	3.5	3.5	3.6	3.6	2.7
	FM 60dB STEREO		3.6	8.9	3.6	3.6	0	0	5.0	8.9	8.9	1.3	4.3	0	0.9	7.8	7.8	4.3	4.3	4.3	4.3	3.4	3.4	2.8	3.4	0	0	3.6	3.6	3.6	3.6	2.7
	AM NO SIGNAL		3.5	9.0	3.5	3.5	0	5.0	5.1	9.0	2.6	1.3	0	0	0.9	4.7	5.5	4.3	4.3	4.3	4.3	3.3	3.3	3.2	2.8	ust	0.7	0.7	3.6	3.6	3.6	3.6
IC2	FM NO SIGNAL		2.5	0	0	5.0	4.9	5.0	7.9	7.8	3.6	6.1	5.1	0	0	0	0	2.5	5.1	0.9	0.9	3.8	0	2.3								

Tx NO.		Q1			Q5					
PIN NO.		E	C	B	E	C	B			
FM 87.5MHz NO SIGNAL		0	7.1	0.85	8.9	8.8	0			
AM 520kHz NO SIGNAL		0	0	0	9.0	0	8.9			
Tx NO.		Q2			Q3			Q4		
PIN NO.		E	C	B	E	C	B	E	C	B
AM 520kHz NO SIGNAL		0	0	0.7	0	0	0.7	0	3.6	0.7
AM 144kHz NO SIGNAL		0	0	0.3	0	0.3	0.3	3.6	3.6	3.6

 AM SIGNAL
 FM/TUNER SIGNAL

 Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

Power supply circuit

EXPLANATION OF OVERALL OF SCHEMATIC

MODEL : FS-L30/UX-L30R/UX-L30/UX-L40R/UX-L40

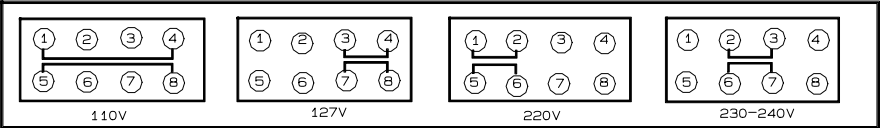
SHEET NUMBER	MODEL NUMBERS TO BE APPLIED	CIRCUITS DESCRIPTION
1/8	FS-L30/UX-L30R/UX-L30/UX-L40R/UX-L40	. PRIMARY WITH MAINS TRANSFORMER
2/8	FS-L30/UX-L30R/UX-L30/UX-L40R/UX-L40	. AUDIO OUTPUT . EXTERNAL INPUT
3/8	FS-L30/UX-L30R/UX-L30/UX-L40R/UX-L40	. LCD DISPLAY/SYSTEM CONTROL/USERS KEY CONTROL . SOURCE SELECTOR SWITCH
4/8	FS-L30/UX-L30R/UX-L30/UX-L40R/UX-L40	. CD SERVO AND CD SYSTEM CONTROL
5/8	FS-L30/UX-L30R/UX-L30/UX-L40R/UX-L40	. TAPE DECK MECHANISM CONTROL . TAPE CIRCUITS SUCH AS PRE-AMP AND BIAS
6/8	FS-L30/UX-L30/UX-L40	. TUNER RF/IF/FM MULTIPLEX (ONLY FOR J/C/UF/UJ/UP/US/UT/UW/UY)
7/8	UX-L30R/UX-L30/UX-L40R/UX-L40	. TUNER RF/IF/FM MULTIPLEX (ONLY FOR UB/A/B/E/EN/EV)
8/8	FS-L30/UX-L30R/UX-L30/UX-L40R/UX-L40	. POWER BOARD . MULTIREGULATOR

*NOTE : MARK () IS TO SHOW DEVIATION IN VERSIONS. DETAILS ARE EXPLAINED NEAR MARK.

VERSION CODES

J : USA
C : CANADA
A : AUSTRALIA
B : U.K
E : CONTINENTAL EUROPE
EN : NORDIC COUNTRIES
EV : EASTERN EUROPE & RUSSIA
UB : HONG KONG
UF : CHINA
UJ : MILITARY
UP : KOREA
UT : TAIWAN
UW : SOUTH AMERICA
UY : ARGENTINA
US : SINGAPORE AND UNIVERSAL EXCEPT ALL OF ABOVE

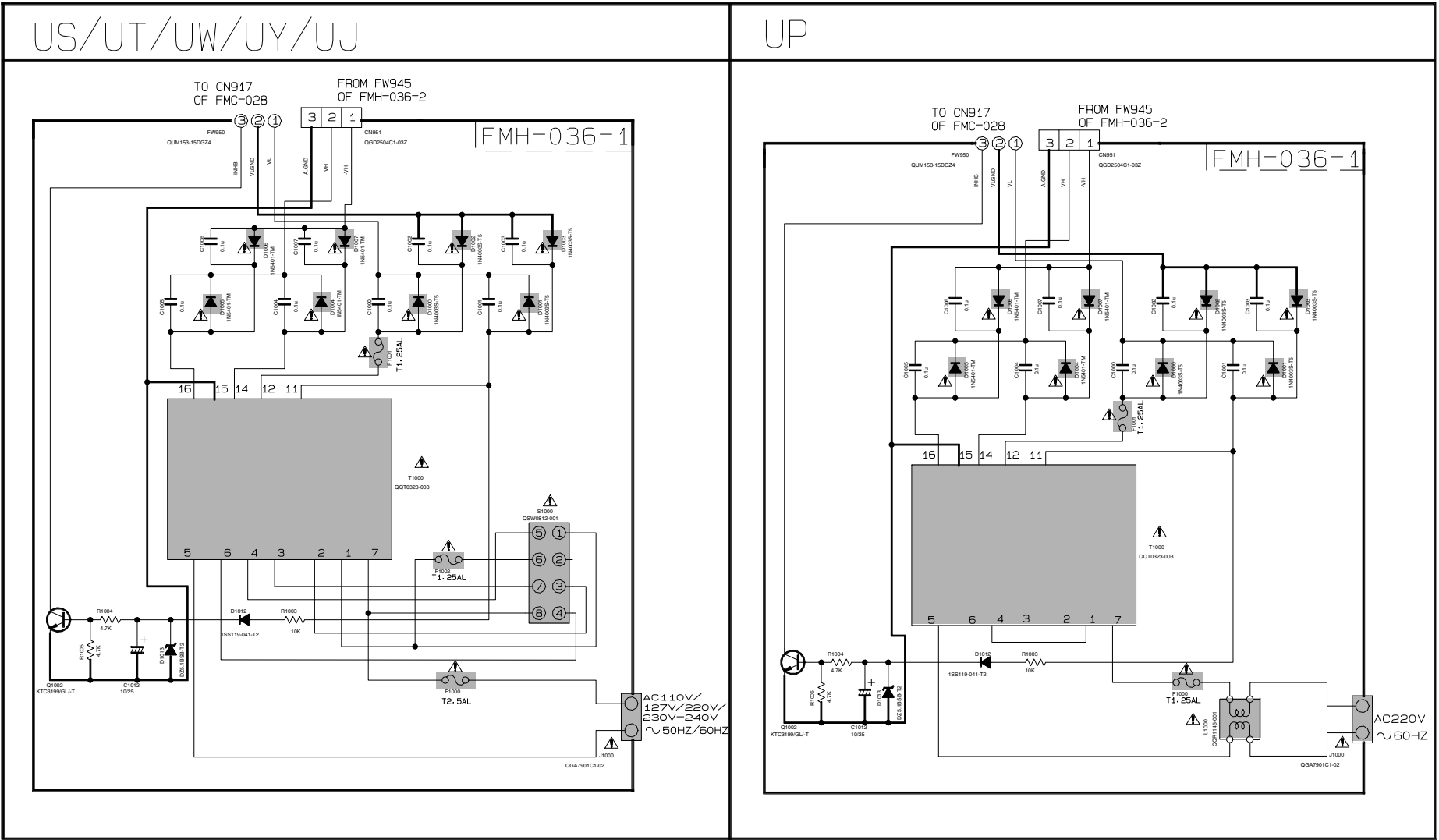
VOLTAGE SELECTOR LOCATION



NOTES

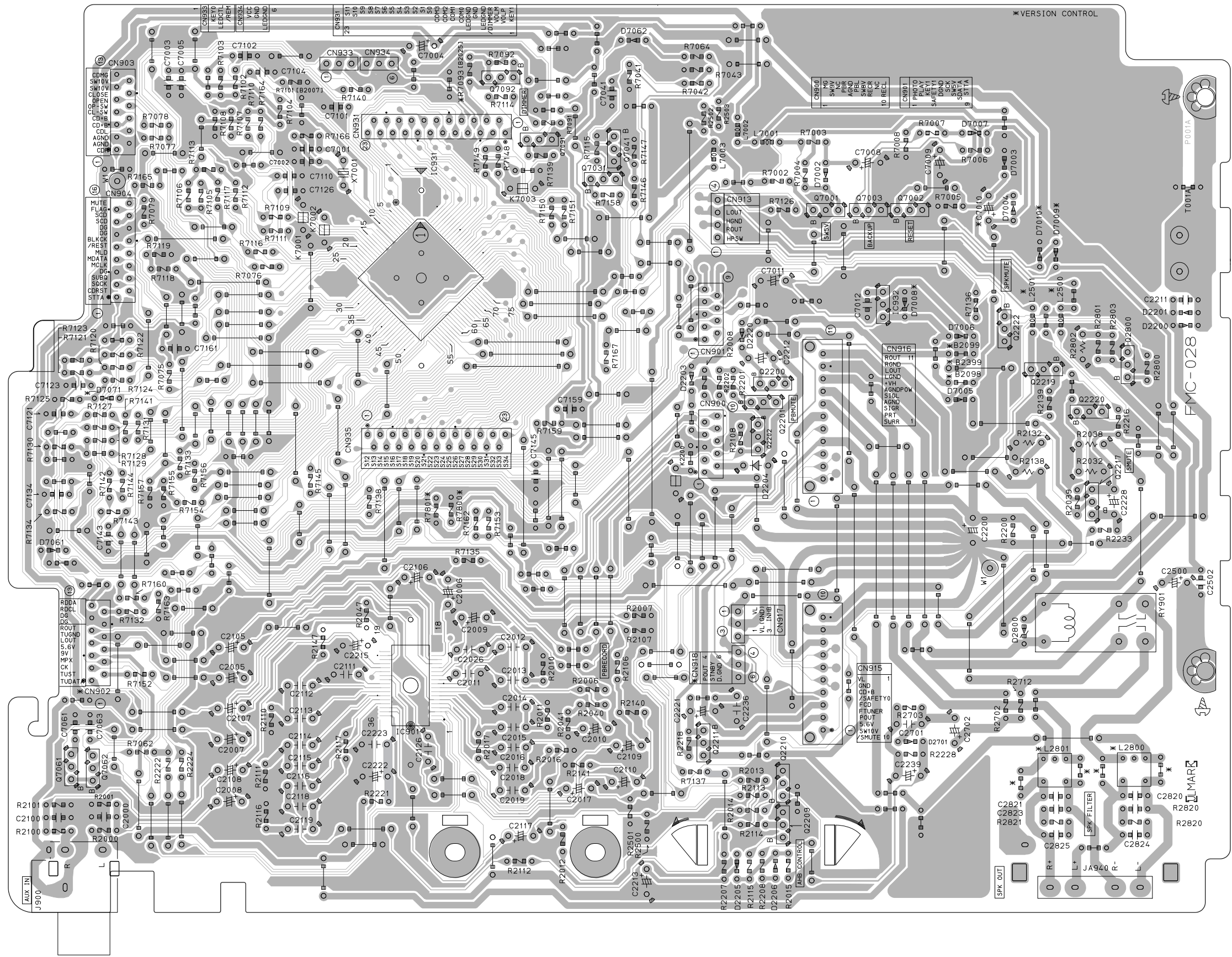
- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
INSIDE BRACKET VALUES ARE OTHER FUNCTIONS
- UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN *F(P=pF).
ALL INDUCTANCE VALUES ARE IN *H(m=mH).
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (*F)/RATED VOLTAGE (V).

Parts are safety assurance parts.
When replacing those parts make sure to use the specified one.



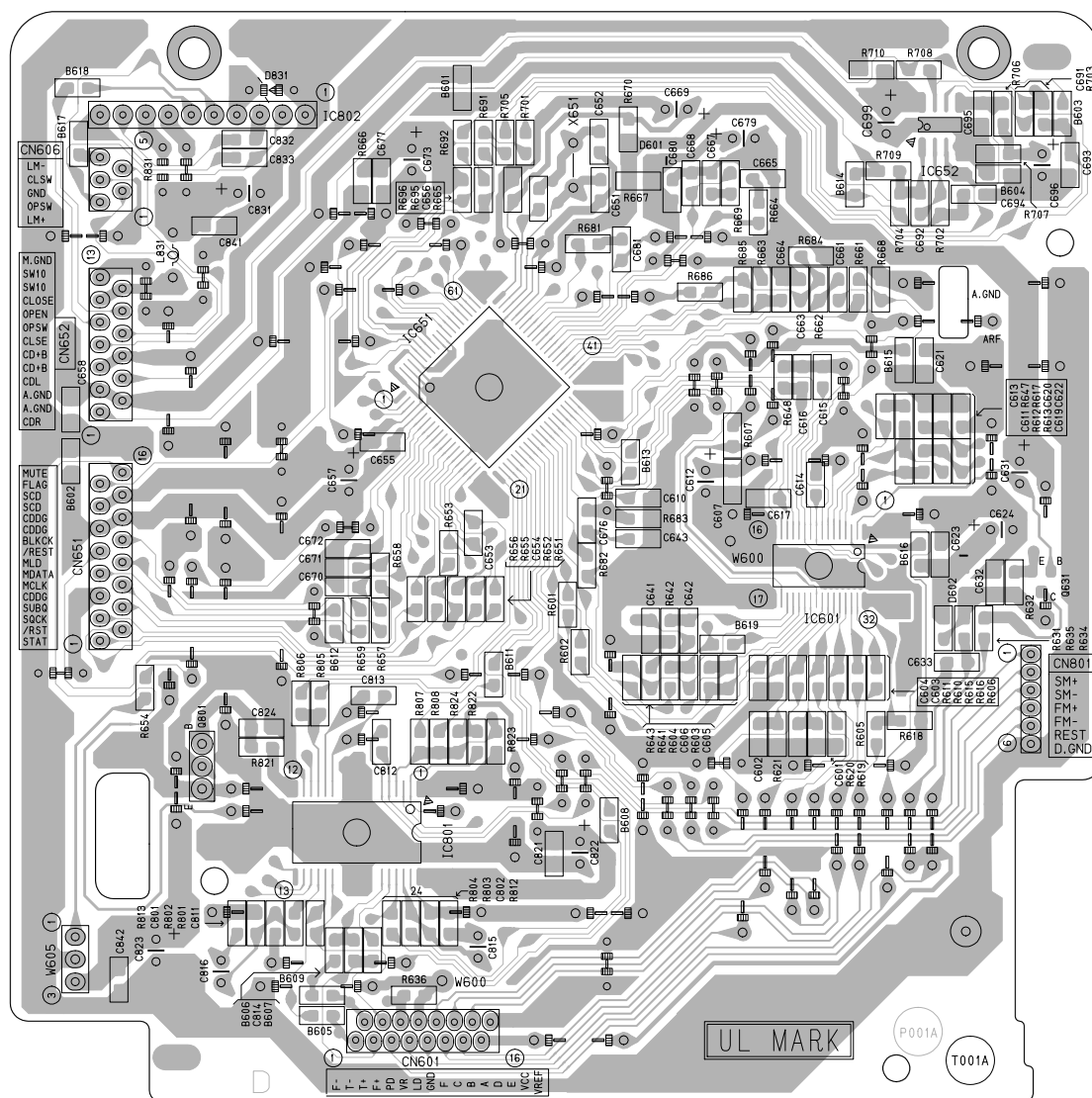
Printed circuit boards

■ Main board

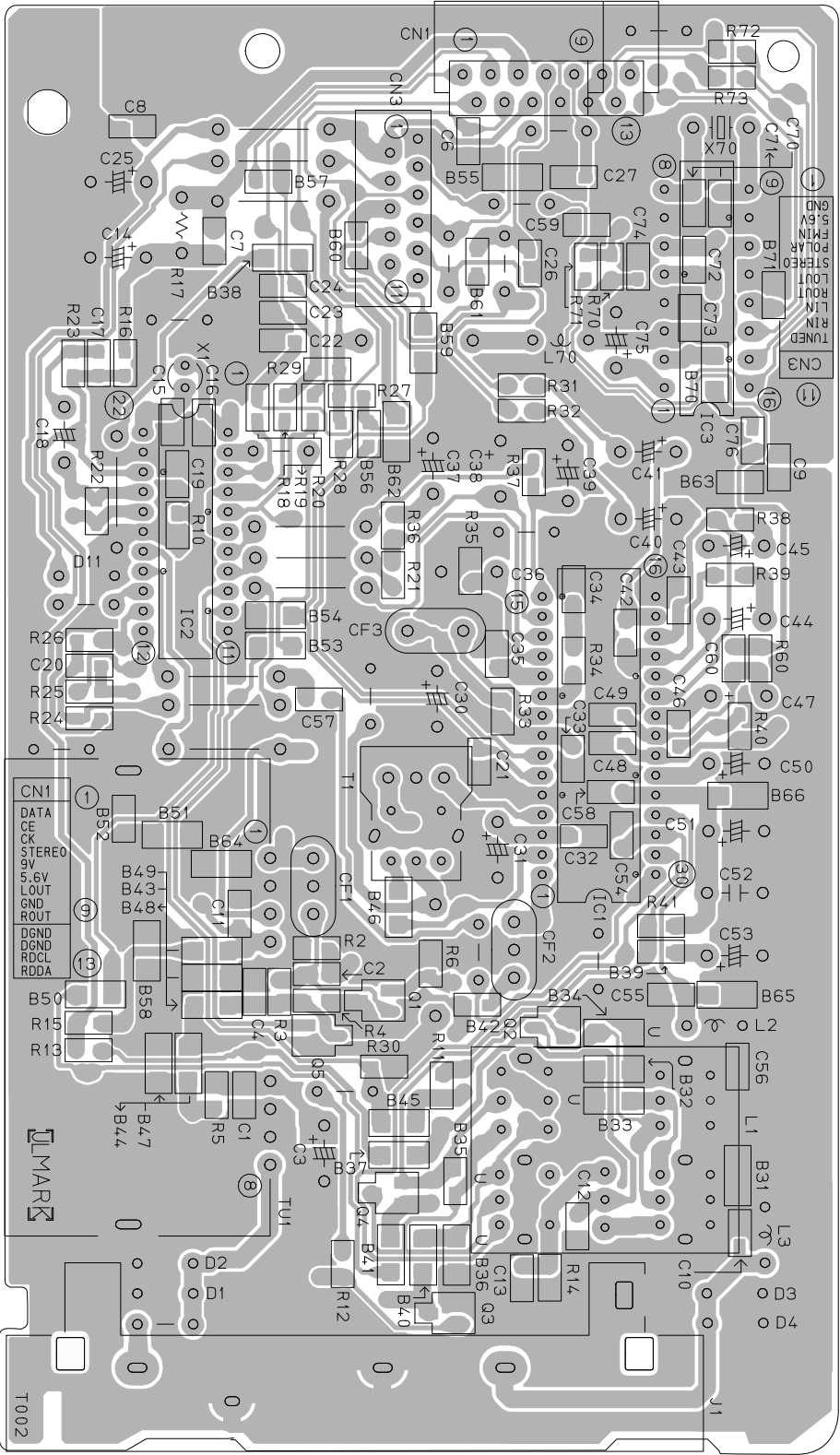


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■ Tuner board





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