

Standard Schematic Diagrams

■ Display Circuit for UX-V3/V5/V5R/FS-V5

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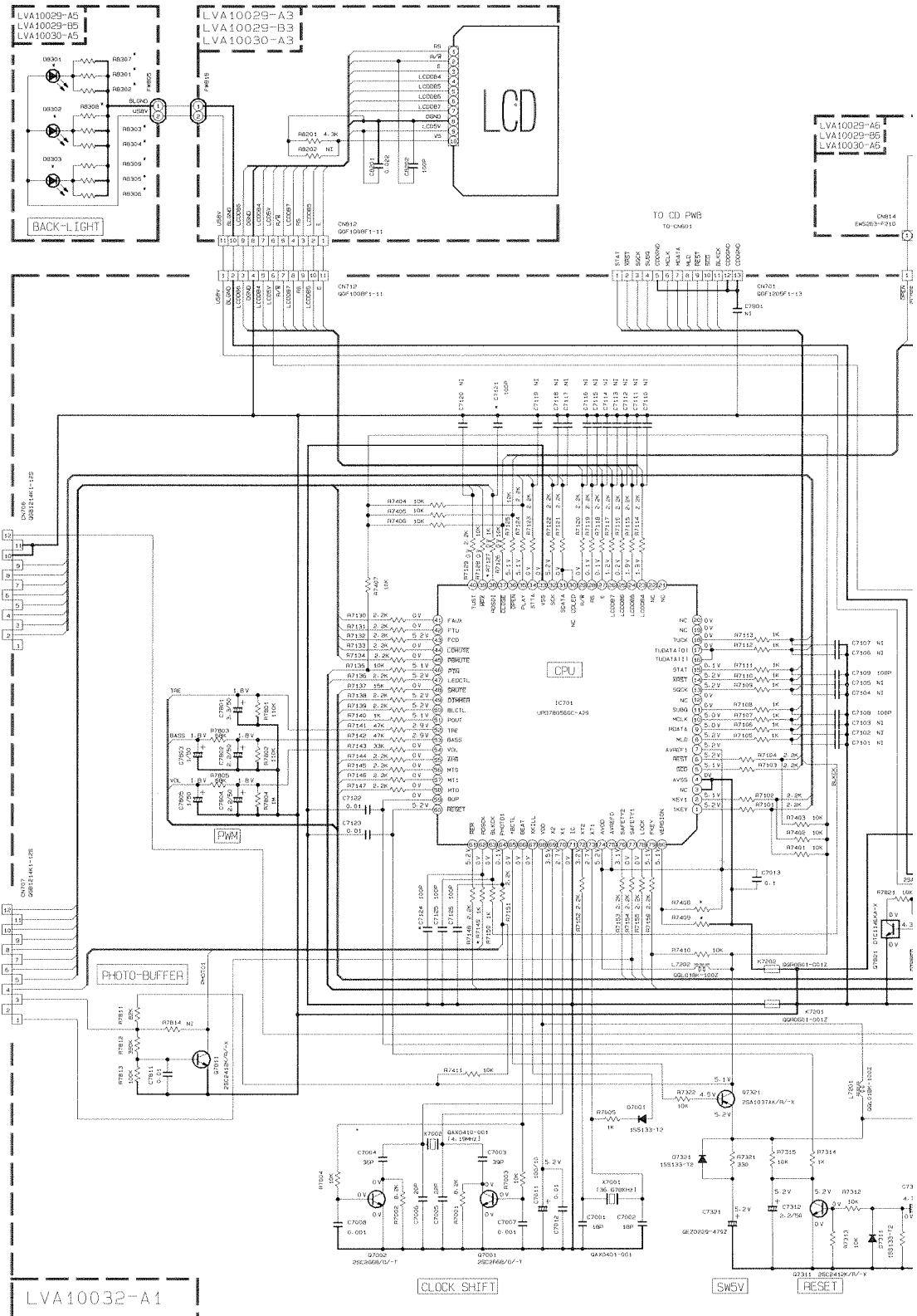
A

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E

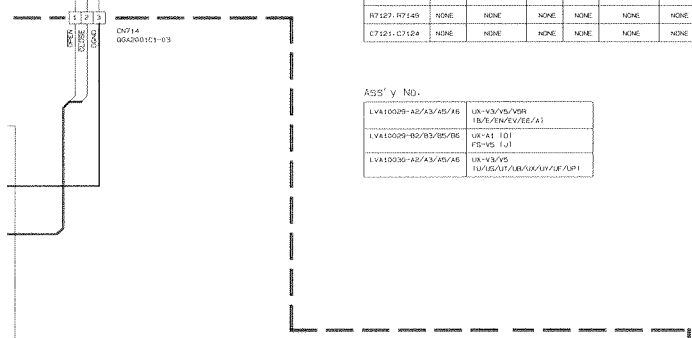
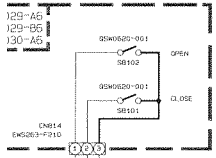


- NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION --- CD STOP MODE
 2. UNLESS OTHERWISE SPECIFIED
ALL RESISTORS ARE 1/10W ±5% METAL GLAZE RESISTOR.
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM(Ω).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

* MATC

	UX-V1	UX-V3	UX-V5	UX-V5R	UX-V5A	UX-V5B
1 0 1	1 0 1	1 0 1	1 0 1	1 0 1	1 0 1	1 0 1
U/A/S/U/V/U/B U/A/S/P	U/A/S/U/V/U/B U/A/S/P	E/E/N/B/EV & I	E/E/N/B/EV & I	E/E/N/B/EV & I	E/E/N/B/EV & I	E/E/N/B/EV & I
R7853	1K	1K	1K	1.2K	1.2K	1.2K
R7854	NONE	NONE	NONE	1.2K	1.2K	1.2K
R8301-R8302 R8303	BLUE	BLUE	BLUE	UMBER	UMBER	UMBER
R8301-R8303 R8305	470	470	470	820	820	820
R8302-R8304 R8306	470	470	470	820	820	820
R8307-R8308 R8309	NONE	NONE	NONE	1K	1K	1K
R7408	NONE	27K	82K	27K	15K	27K
R7409	0	1.5K	27K	2.7K	33K	27K
R7121-R7149	NONE	NONE	NONE	NONE	NONE	NONE
C7121-C7124	NONE	NONE	NONE	NONE	NONE	NONE

BLUE: SEL1E550R
UMBER: TLV155P



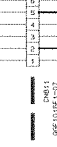
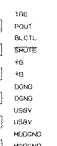
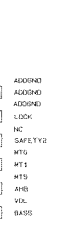
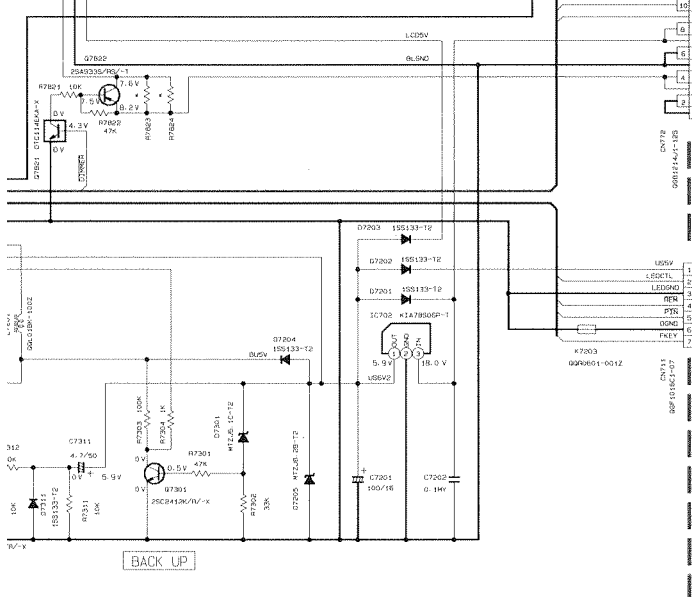
- C7307 N1
- C7308 N1
- C7309 100P
- C7305 N1
- C7304 N1
- C7309 100P
- C7303 N1
- C7302 N1
- C7301 N1

Ass'y No.

LVA10029-AB/A3/AB/AB	UX-V3/V5/V5R 10/E/E/N/B/EV/A1
LVA10029-AB/A3/AB/AB	UX-V1 101 FS-V5 1/1
LVA10035-AB/A3/AB/AB	UX-V3/V5 10/15/15/15/AB/UX/V1/UF/AF/1

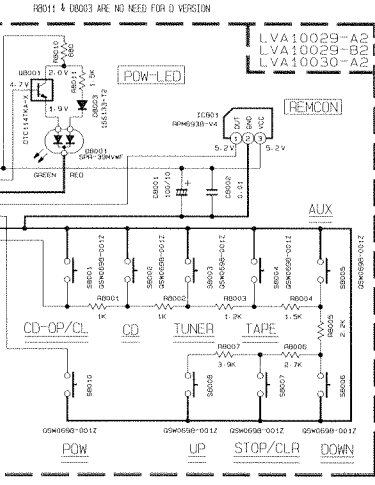
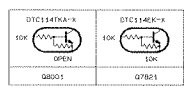
VERSION CODES

- J : U. S. A./CANAD
- E : CONTINENTAL EUROPE
- EN : NORDIC COUNTRIES
- B : U. K.
- EE : RUSSIA
- EEV : EAST EUROPEAN COUNTRIES
- A : AUSTRIA
- UX : SAUDI ARABIA
- US : SINGAPORE
- UT : TAIWAN
- UB : HONG KONG
- UY : ARGENTINA
- UF : CHINE
- UP : KOREA
- D : JAPAN
- U : UNIVERSAL EXCEPT ALL OF ABOVE



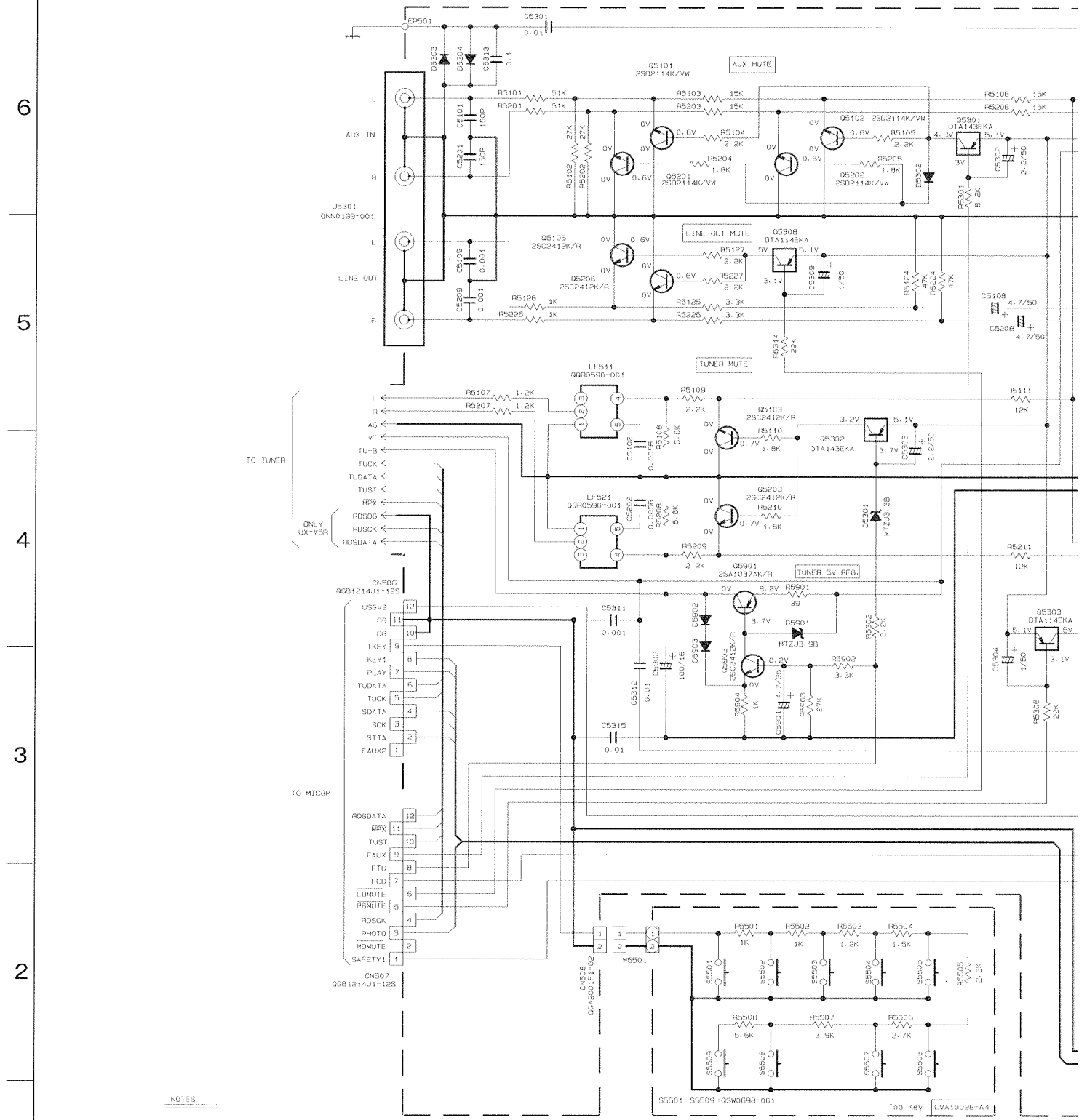
TO MAIN PWB
10-CN714

TO MAIN PWB
10-CN715



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■ Analog input Circuit for UX-V3/V5/V5R/FS-V5



NOTES

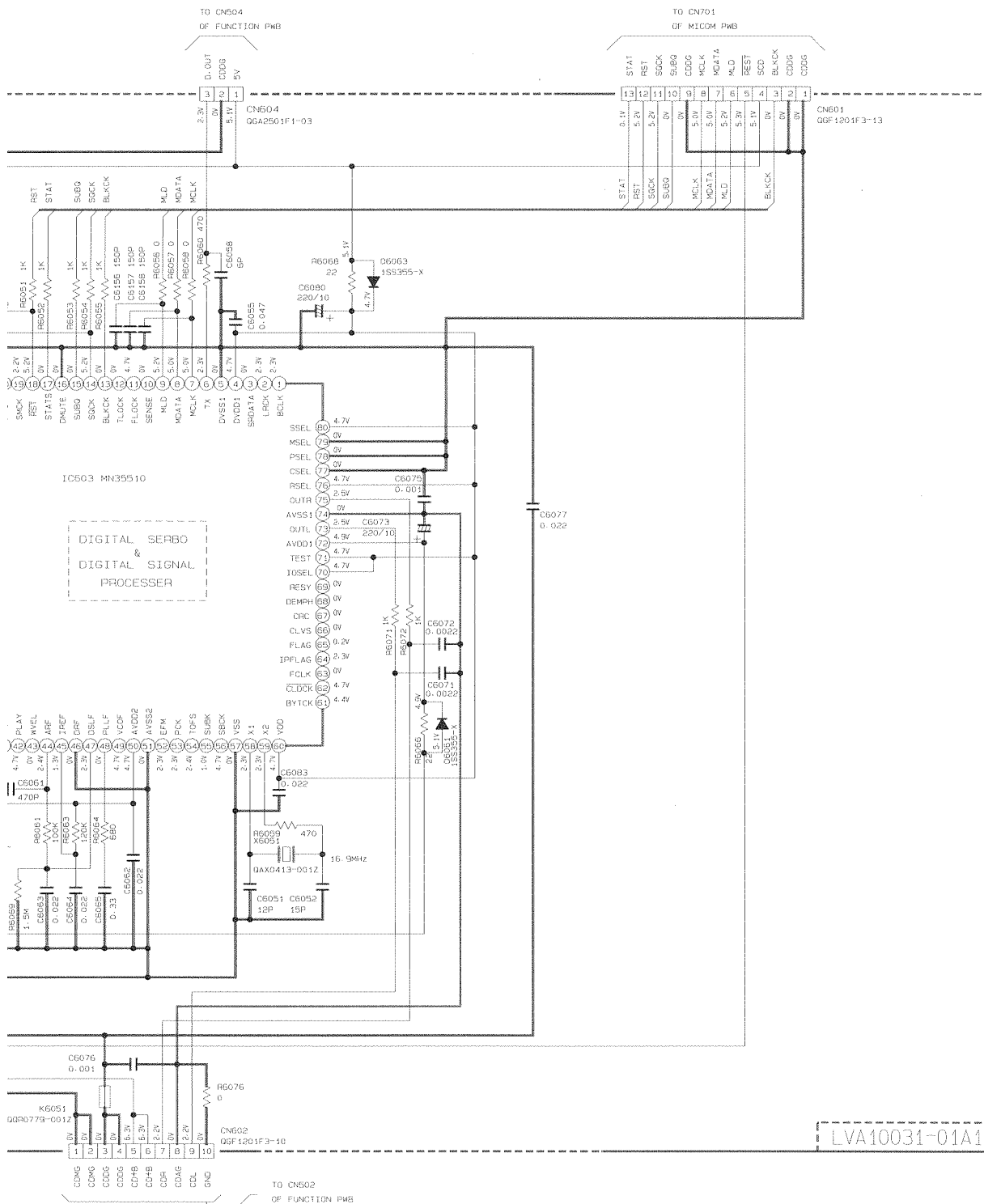
- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION --- CD STOP MODE
- UNLESS OTHERWISE SPECIFIED
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN μF(P=pF).
ALL INDUCTANCE VALUES ARE IN mH(m=H).
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE [μF]/RATED VOLTAGE (V).
ALL DIODES ARE 1SS133

	VOLUME								
	S5501	S5502	S5503	S5504	S5505	S5506	S5507	S5508	S5509
UX-A1	TAPE REC	REV. MODE		SLEEP	CLOCK	TIMER/SNOOZE	+	-	S. BASS PRO
FS-V5	↑	↑	↑	↑	↑	↑	↑	↑	AHB PRO
UX-V3/V5	↑	↑	↑	↑	↑	↑	↑	↑	↑
UX-V5R	↑	↑	PTV/EON	DISPLAY MODE	↑	↑	↑	↑	↑
UX-V6V	↑	↑	KARAOKE MODE/MPX	VCD NUMBER	↑	↑	↑	↑	↑

DTA11
10K

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A B C D E



S ARE DC-MEASURED WITH A DIGITAL VOLT METER
ON: MODE : STOP

OTHERWISE SPECIFIED.

*CAPITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.

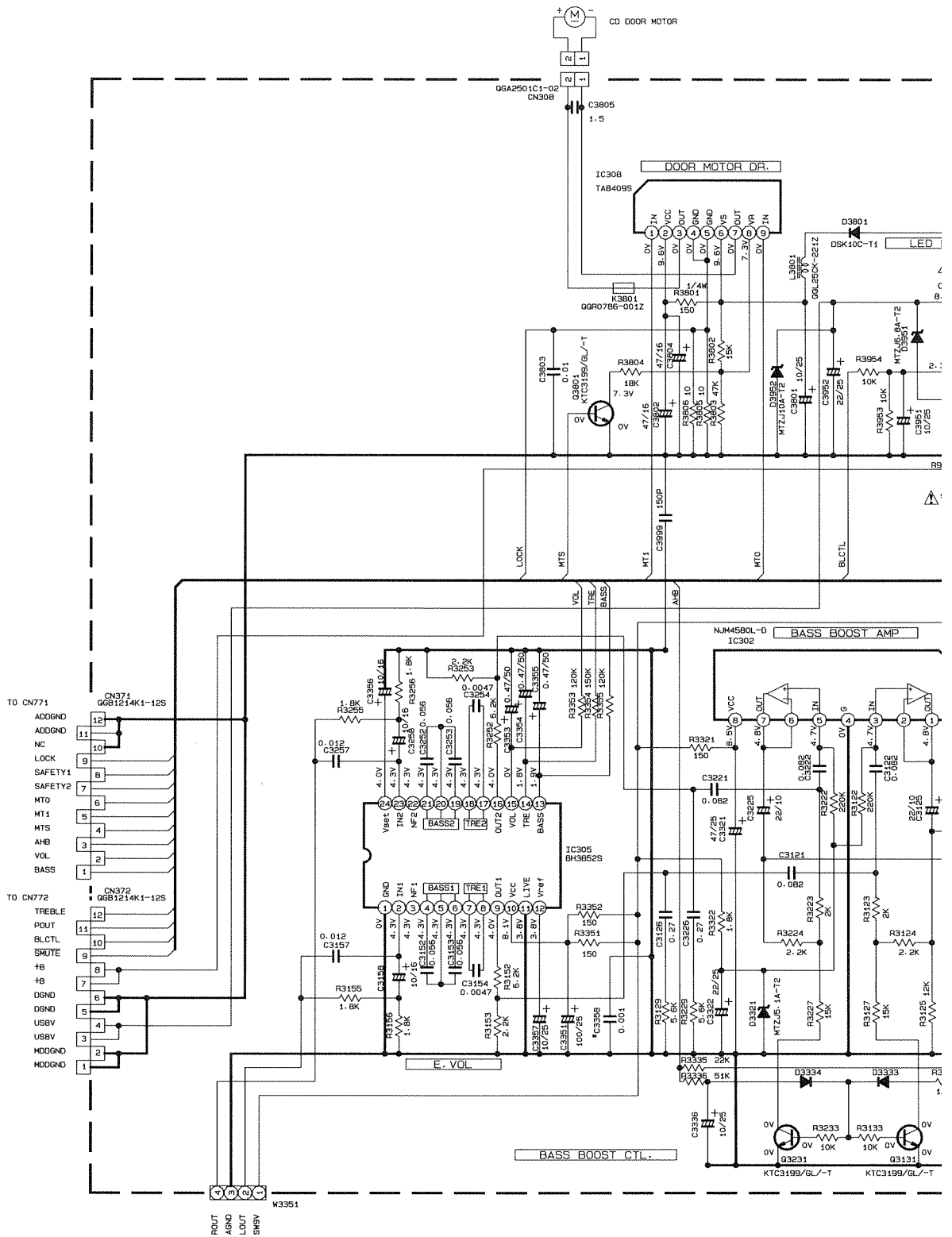
†RESISTANCE VALUES ARE IN OHM (Ω).

*CAPITANCE VALUES ARE IN * F (pF).

†DUCTANCE VALUES ARE IN HENRY(H).

*CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).

■ Power Amplifier Circuit for UX-V3/V5/V5R/FS-V5



NOTES

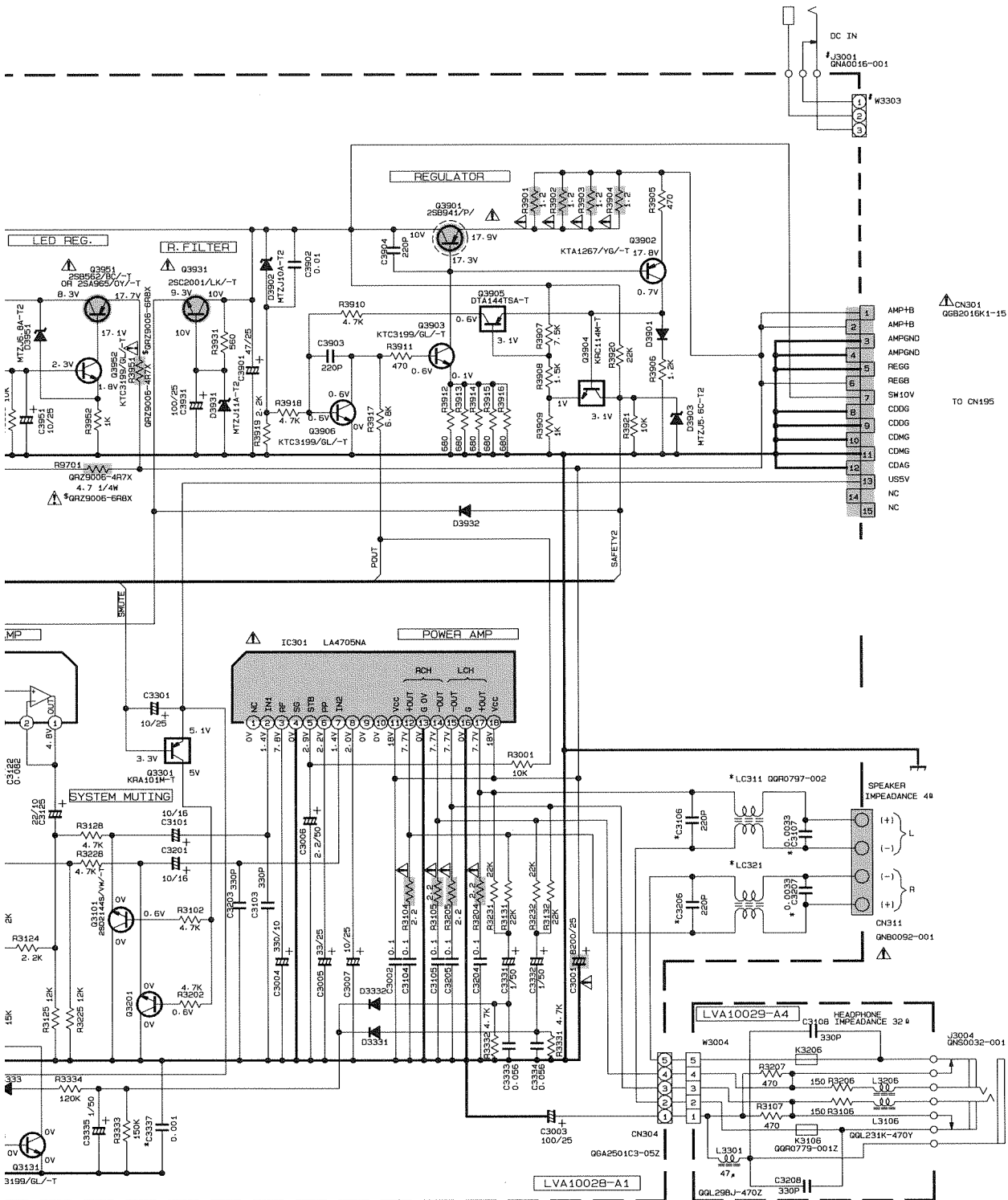
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. CONDITION — FUNC. CD STOP MODE

2. UNLESS OTHERWISE SPECIFIED ALL RESISTANCE VALUES ARE IN OHM(Ω). ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAP ALL CAPACITANCE VALUES ARE IN μF(P=pF). ALL INDUCTANCE VALUES ARE IN mH(m=mH). ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACIT ALL DIODES ARE 1SS133

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A B C D E

UX-V3/UX-V5
UX-V5R/FS-V5



* : E/EN/B/EE/EV/A ONLY
: EN ONLY

\$: FS-V5 ONLY

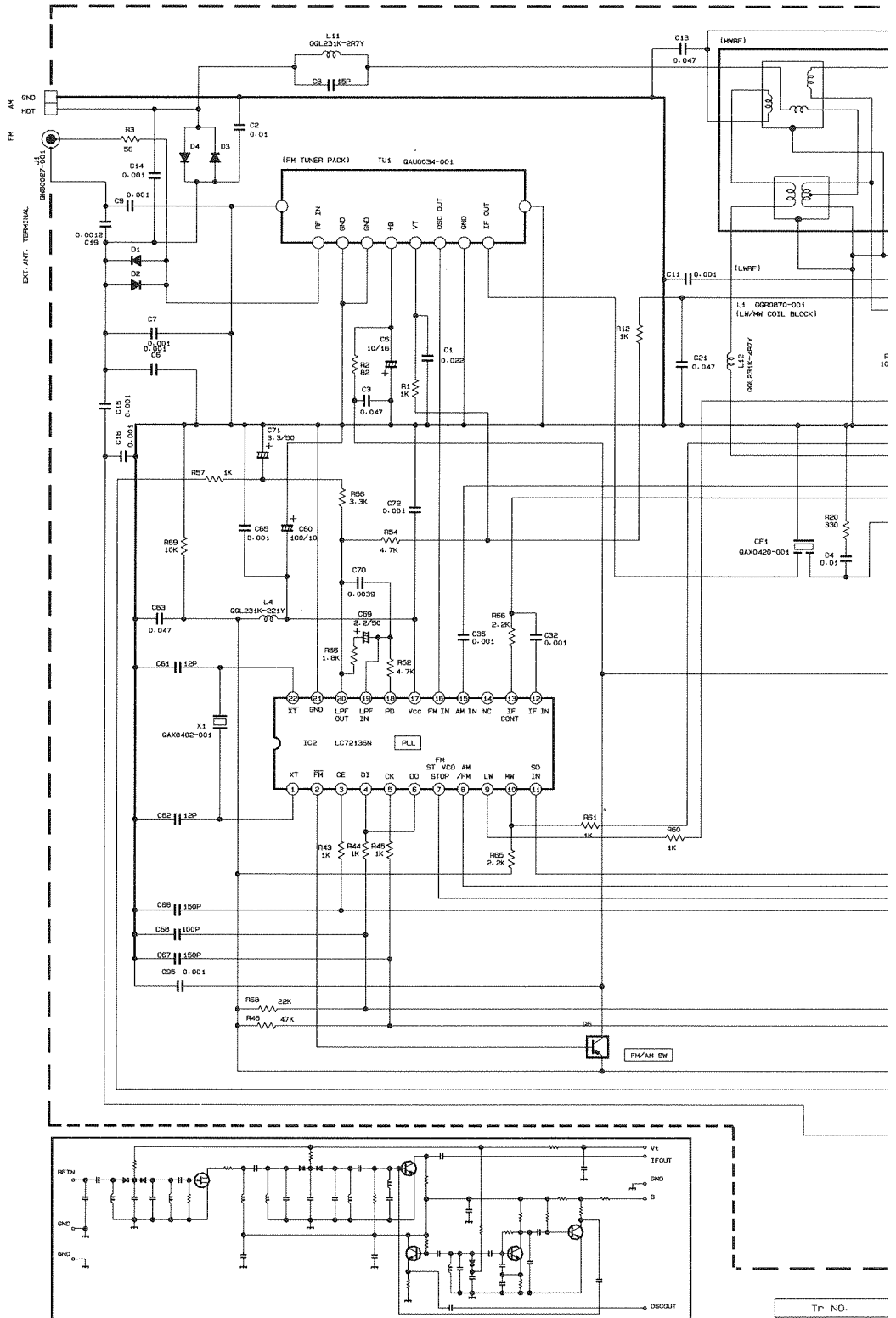
MYLAR CAPACITOR.

F CAPACITANCE (μF)/RATED VOLTAGE (V).



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

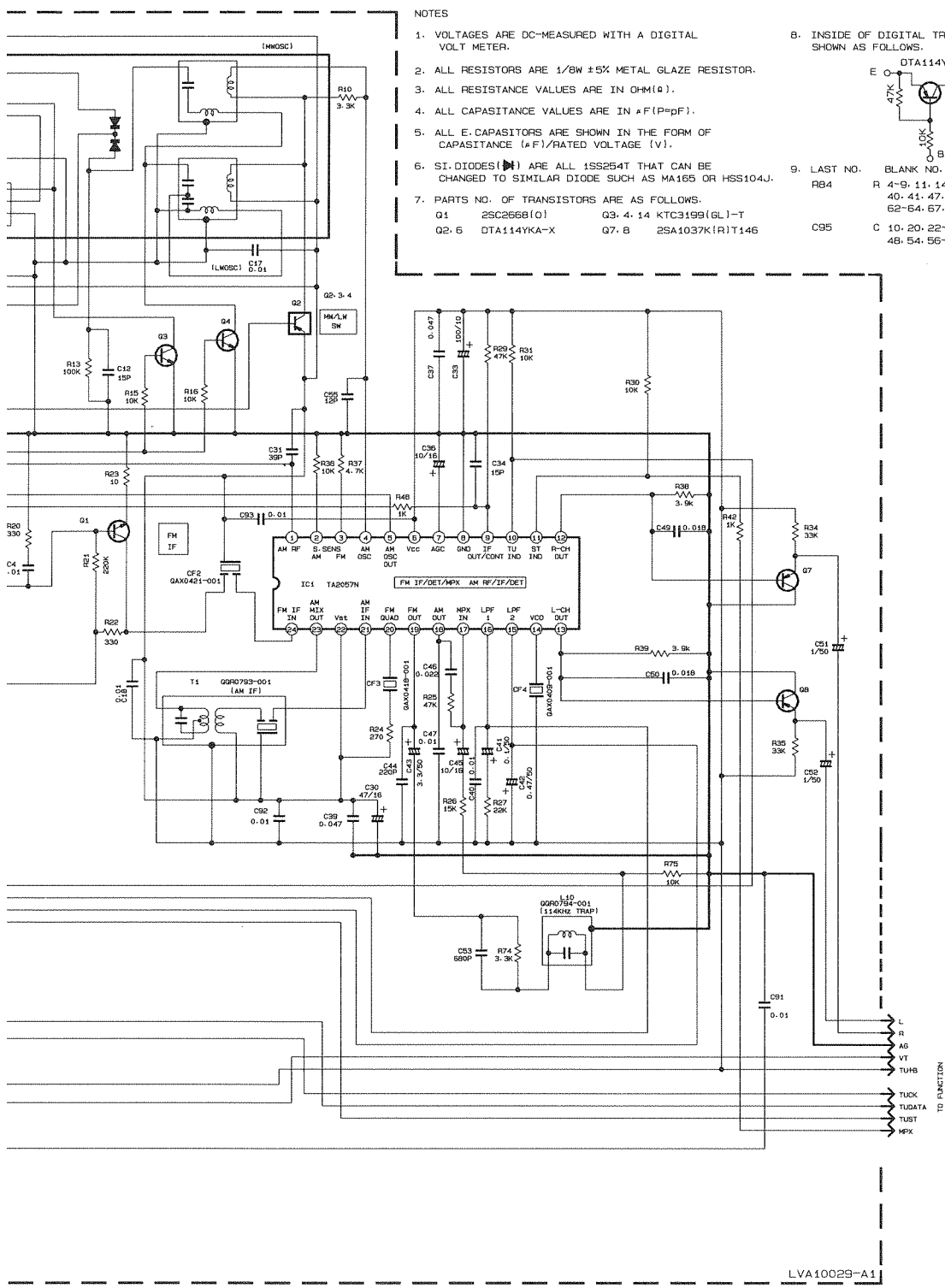
Tuner Circuit for UX-V3/V5/FS-V5



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
IC1	FM NO SIGNAL	2.0	0.5	0	2.0	5.1	5.1	0	0	0.3	5.1	5.1	1.1	1.1	4.4	3.7	3.7	1.4	0	1.3	1.1	2.0	2.0	5.1	2.0
IC1	FM 60dB STEREO	2.0	0.5	0	2.0	5.1	5.1	1.1	0	0.3	0	0	1.1	1.1	4.3	4.1	3.7	1.4	0	1.4	1.1	2.0	2.0	5.1	2.0
IC1	AM NO SIGNAL	2.0	0.5	0	2.0	5.0	5.1	0	0	0.3	5.1	5.1	1.1	1.1	4.5	0.1	0	1.4	1.4	1.5	1.6	2.0	2.0	5.1	2.0
IC2	FM NO SIGNAL	2.4	0	0	5.1	5.0	5.1	3.7	3.7	2.0	3.8	5.1	0	0	0	0	2.6	5.1	1.0	1.0	3.7	0	2.7		
IC4	FM NO SIGNAL	2.0	2.5	2.5	2.5	5.0	0	2.5	2.5	0	0	5.0	2.4	2.4	2.5	2.5									

Tr. NO.	
PIN NO.	
FM 87.5MHZ NO SIGNAL	
AM 522KHZ NO SIGNAL	
Tr. NO.	
PIN NO.	
AM 522KHZ NO SIGNAL	
AM 144KHZ NO SIGNAL	

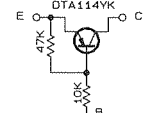
A B C D E



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
2. ALL RESISTORS ARE 1/8W ±5% METAL GLAZE RESISTOR.
3. ALL RESISTANCE VALUES ARE IN OHM(Ω).
4. ALL CAPASITANCE VALUES ARE IN μF(P=μF).
5. ALL E. CAPASITORS ARE SHOWN IN THE FORM OF CAPASITANCE (μF)/RATED VOLTAGE (V).
6. SI. DIODES(▶) ARE ALL 1SS254T THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS MA165 OR HSS104J.
7. PARTS NO. OF TRANSISTORS ARE AS FOLLOWS.
Q1 2SC2668(O) Q3. 4. 14 KTC3199(6L)-T
Q2. 6 DTA114YKA-X Q7. 8 2SA1037K(R)T146

8. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS:



9. LAST NO. BLANK NO.
R84 R 4-9, 11, 14, 17-19, 26, 32, 33
40, 41, 47, 48-51, 53, 58, 59
62-64, 67, 70-73, 77-79, 81
C95 C 10, 20, 22-29, 38
48, 54, 56-59, 64, 73-79, 87, 88

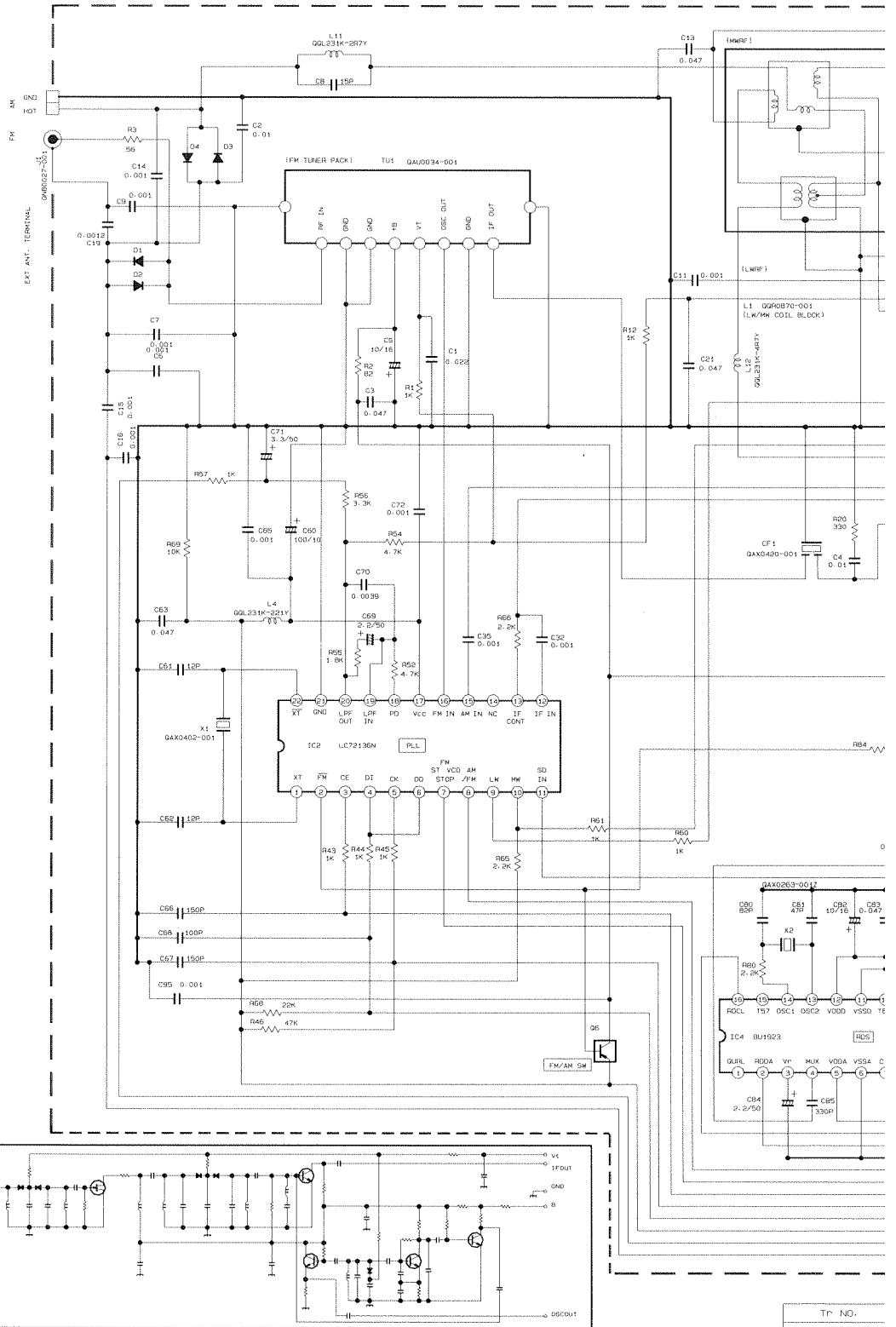
NO.	G1			G6			G7			G8			G14		
NO.	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
IZ NO SIGNAL	0	7.5	0.7	B-B	B.7	0	1.6	0	1.1	1.6	0	1.1	5.1	5.1	4.5
: NO SIGNAL	0	0	0	B-B	0	B.7	1.6	0	1.1	1.6	0	1.1	5.1	0.1	B.7

NO.	Q2			Q3			Q4		
NO.	E	C	B	E	C	B	E	C	B
: NO SIGNAL	2.0	2.0	0.1	0	0	0.7	0	0	0.7
: NO SIGNAL	2.0	2.0	2.0	0	0	0.1	0	0	0.1

E/B/EN/EV/A

E F G H I

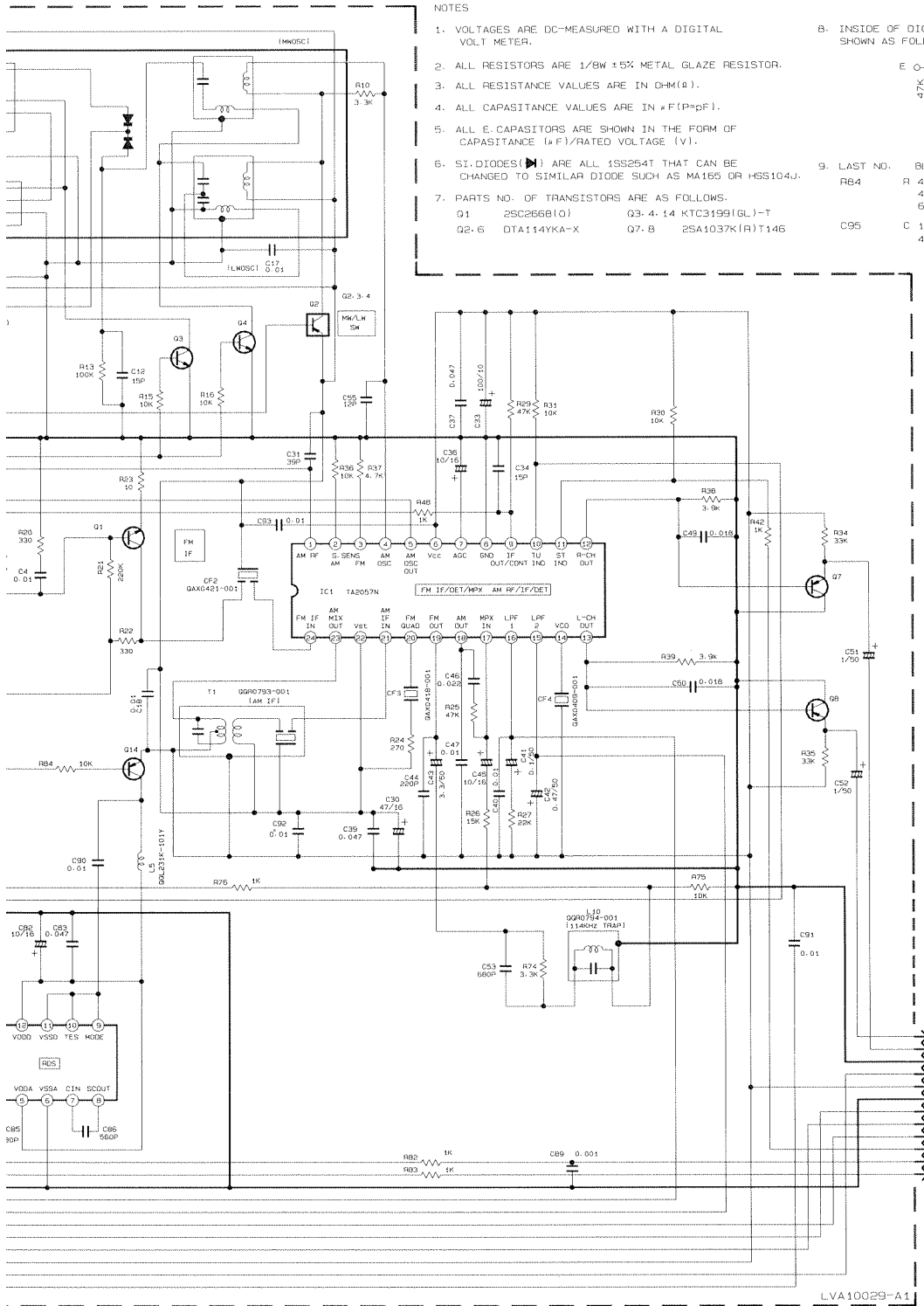
■ Tuner Circuit for UX-V5R



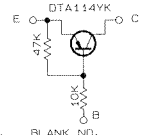
CONDITION	PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
IC1	FM NO SIGNAL	2.0	0.5	0	2.0	5.1	5.1	0	0	0.3	5.1	5.1	1.1	1.1	4.4	3.7	3.7	1.4	0	1.3	1.1	2.0	2.0	5.1	2.0
IC1	FM 500B STEREO	2.0	0.5	0	2.0	5.1	5.1	1.1	0	0.3	0	0	1.1	1.1	4.3	4.1	3.7	1.4	0	1.4	1.1	2.0	2.0	5.1	2.0
IC2	AM NO SIGNAL	2.0	0.5	0	2.0	5.0	5.1	0	0	0.3	5.1	5.1	1.1	1.1	4.5	0.1	0	1.4	1.4	1.5	1.6	2.0	2.0	5.1	2.0
IC4	FM NO SIGNAL	2.0	2.5	2.5	2.5	5.0	0	2.5	2.5	0	0	0	5.0	2.4	2.4	2.5	2.5								

Tr. NO.	PIN NO.
FM 87.5MHz NO SIGN	
AM 520KHz NO SIGN	
Tr. NO.	PIN NO.
AM 520KHz NO SIGN	
AM 144KHz NO SIGN	

UX-V3/UX-V5
UX-V5R/FS-V5



- NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
 2. ALL RESISTORS ARE 1/8W ±5% METAL GLAZE RESISTOR.
 3. ALL RESISTANCE VALUES ARE IN OHM(Ω).
 4. ALL CAPASITANCE VALUES ARE IN pF(P=pF).
 5. ALL E. CAPASITORS ARE SHOWN IN THE FORM OF CAPASITANCE (pF)/RATED VOLTAGE (V).
 6. SI. DIODES (▶) ARE ALL 1SS254T THAT CAN BE CHANGED TO SIMILAR DIODE SUCH AS MA165 OR HGS104J.
 7. PARTS NO. OF TRANSISTORS ARE AS FOLLOWS.
Q1 2SC265B(G) Q3: 4: 1A KTC3199(GL)-T
Q2: 6 DTA114YK-A X Q7: B 2SA1037K(R)T146
 9. LAST NO. BLANK NO.
RB4 R 4-9, 11, 14, 17-19, 28, 32, 33
40, 41, 47, 49-51, 53, 58-59
62-64, 67, 70-73, 77-79, 81
C 10, 20, 22-29, 38
48, 54, 56-59, 64, 73-79, 87, 88



Tr. NO.	Q1			Q5			Q7			Q8			Q14		
IN NO.	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
3MHz NO SIGNAL	0	7.5	0.7	B. B	B. 7	0	1.6	0	1.1	1.6	0	1.1	5.1	5.1	4.5
GHz NO SIGNAL	0	0	0	B. B	0	B. 7	1.6	0	1.1	1.6	0	1.1	5.1	0.1	B. 7

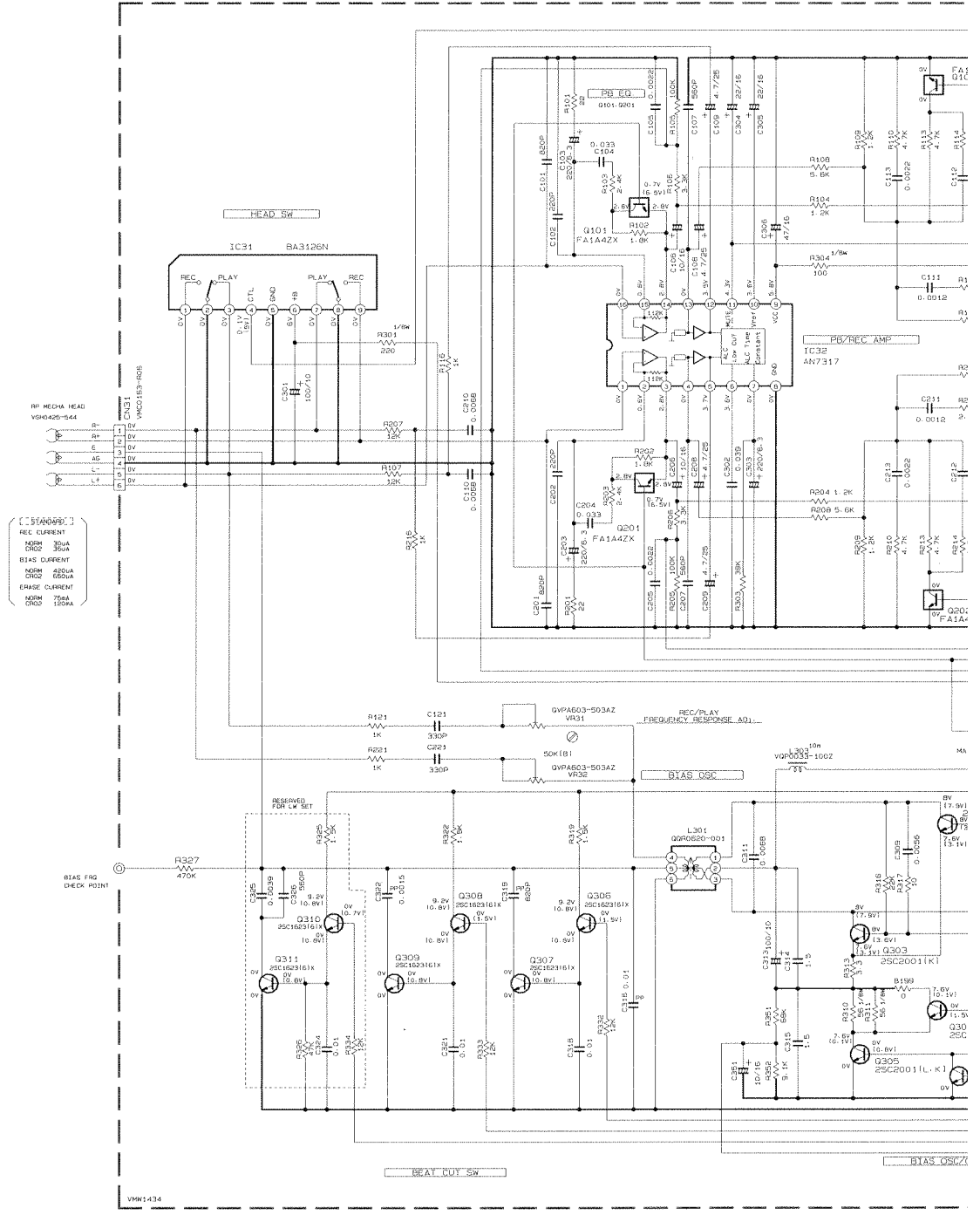
Tr. NO.	Q2			Q3			Q4		
IN NO.	E	C	B	E	C	B	E	C	B
GHz NO SIGNAL	2.0	2.0	0.1	0	0	0.7	0	0	0.7
GHz NO SIGNAL	2.0	2.0	2.0	0	0	0.1	0	0	0.1

E/B/EN/EV/A

LVA10029-A1

Cassette Amplifier Circuit

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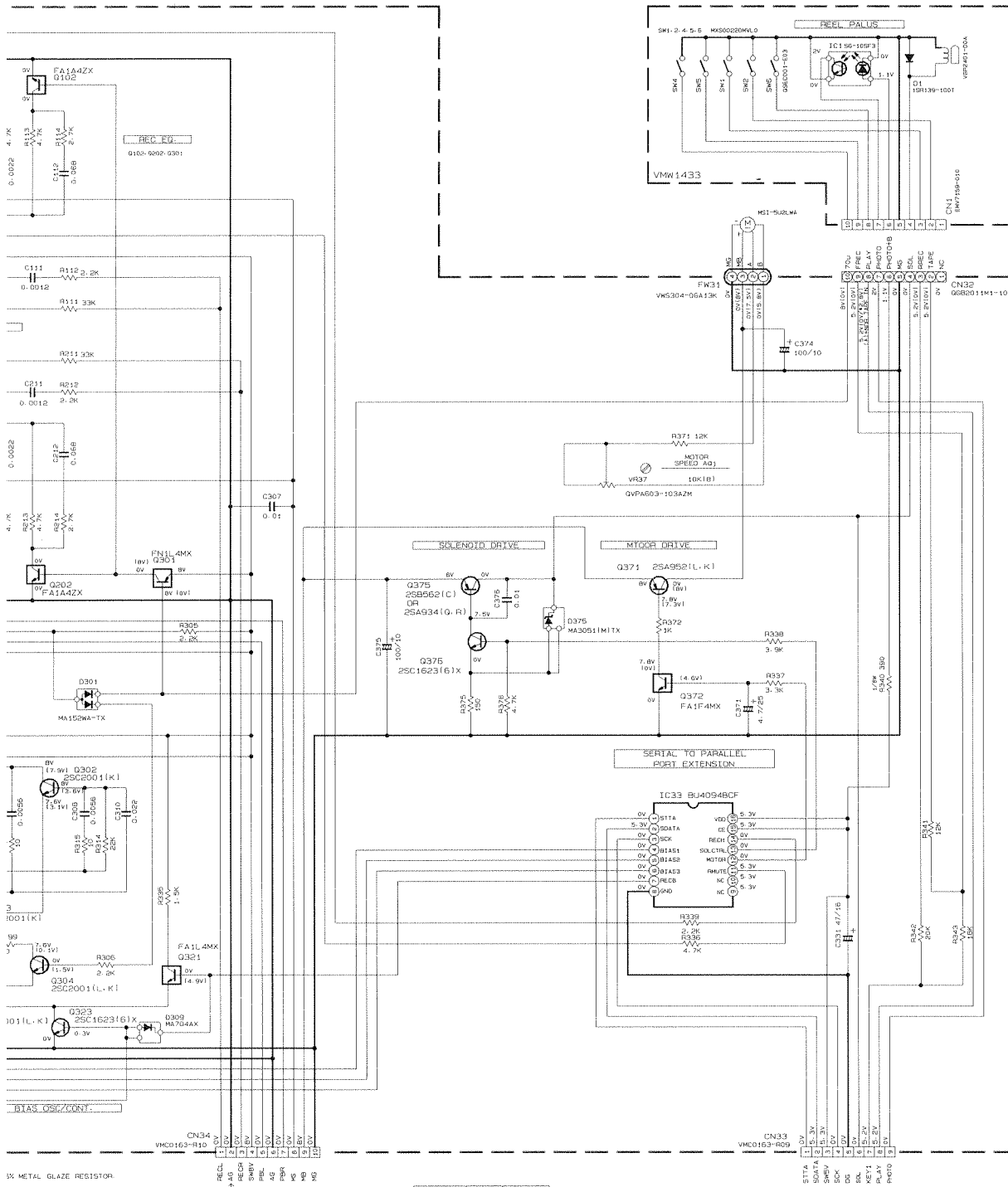
REC CURRENT
 CH01 700A
 CH02 300A
 BIAS CURRENT
 CH01 450A
 CH02 650A
 ERASE CURRENT
 CH01 700A
 CH02 100A

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. CONDITION: HEAD STOP MODE.

2. UNLESS OTHERWISE SPECIFIED - RESISTORS ARE 1/10W ±5% METAL GLAZE. ALL RESISTANCE VALUES ARE IN OHMS.
 ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR. ALL CAPACITANCE VALUES ARE IN pF (p=10⁻¹²).
 ALL INDUCTANCE VALUES ARE IN μH (μ=10⁻⁶).
 ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE 1μF/10V.
 POLYPROPYLENE CAPACITOR.

A B C D E



3% METAL GLAZE RESISTOR.
CAPACITOR.
FANCE 1/4W (RATED VOLTAGE 1V).

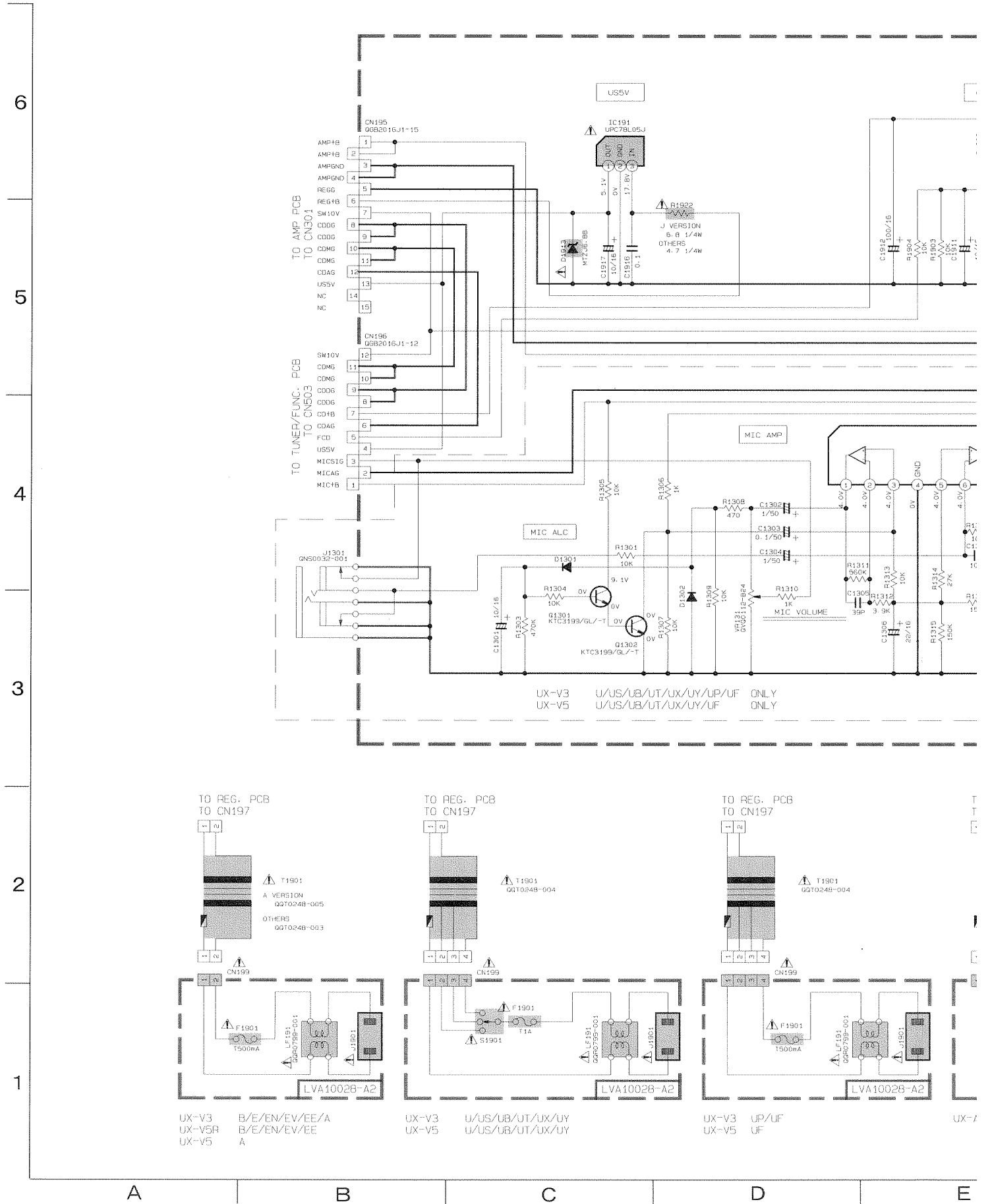
REEL
+5V
+12V
+15V
+18V
+24V
+30V
+36V
+42V
+48V
+54V
+60V
+66V
+72V
+78V
+84V
+90V
+96V
+102V
+108V
+114V
+120V
+126V
+132V
+138V
+144V
+150V
+156V
+162V
+168V
+174V
+180V
+186V
+192V
+198V
+204V
+210V
+216V
+222V
+228V
+234V
+240V
+246V
+252V
+258V
+264V
+270V
+276V
+282V
+288V
+294V
+300V
+306V
+312V
+318V
+324V
+330V
+336V
+342V
+348V
+354V
+360V
+366V
+372V
+378V
+384V
+390V
+396V
+402V
+408V
+414V
+420V
+426V
+432V
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+942V
+948V
+954V
+960V
+966V
+972V
+978V
+984V
+990V
+996V
+1002V
+1008V
+1014V
+1020V
+1026V
+1032V
+1038V
+1044V
+1050V
+1056V
+1062V
+1068V
+1074V
+1080V
+1086V
+1092V
+1098V
+1104V
+1110V
+1116V
+1122V
+1128V
+1134V
+1140V
+1146V
+1152V
+1158V
+1164V
+1170V
+1176V
+1182V
+1188V
+1194V
+1200V

PARTS	NAME	REF. NO
	FA1A42X	Q101-Q201
	FN1L4MX	Q301
	FA1L4MX	Q321
	FA1F4MX	Q371

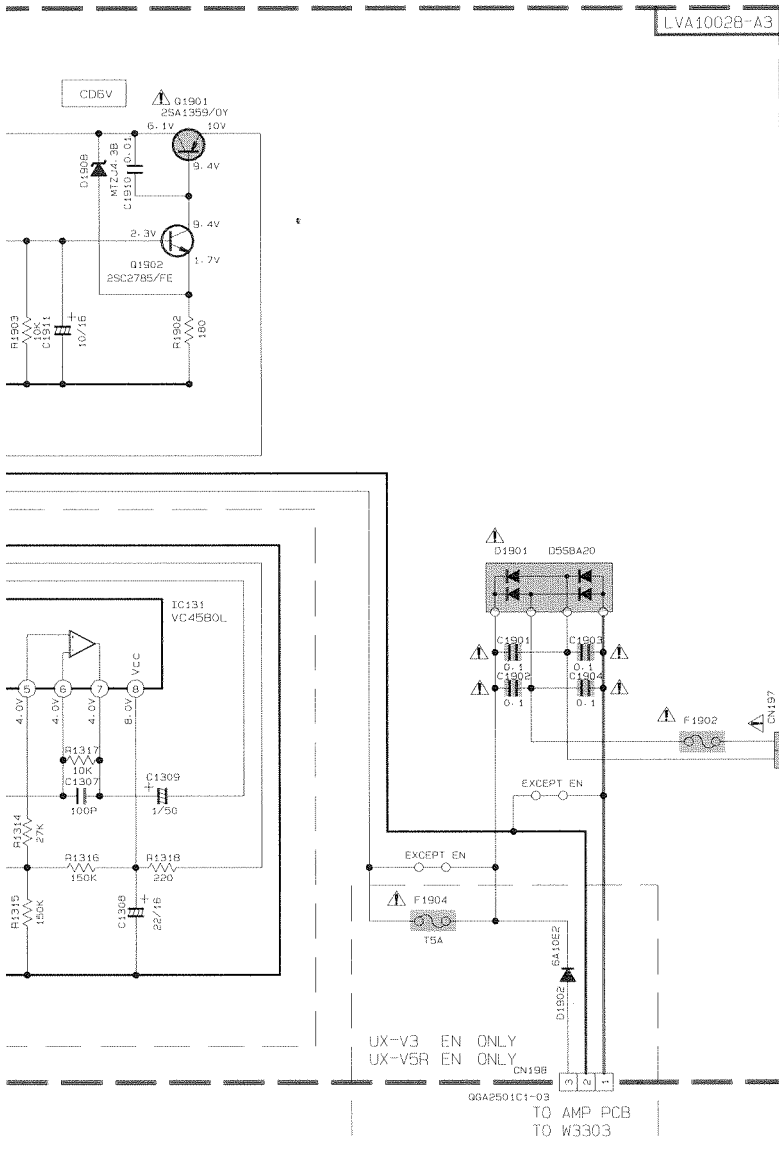
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E F G H I

■ Power Supply Circuit for UX-V3/V5/V5R

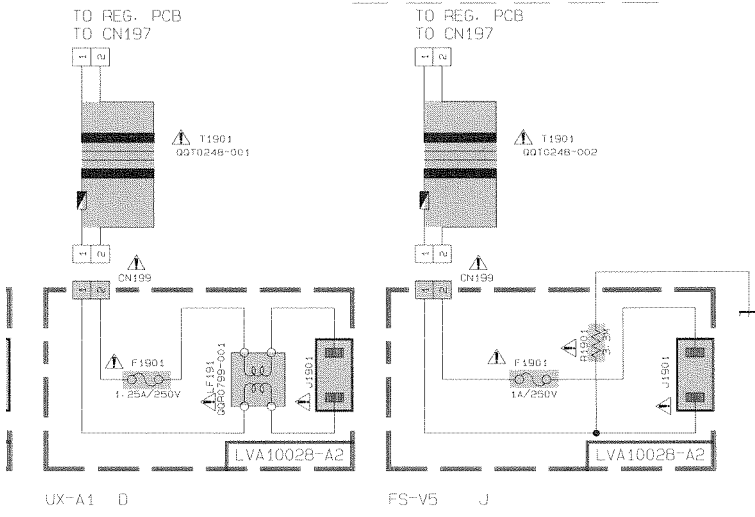


UX-V3/UX-V5
UX-V5R/FS-V5



MODEL	VERSION	F1902
UX-V3	B/E/EN/EV/EE U/US/UB/UT/UX/UY/UP/UF	T6-3A
UX-V5R	B/E/EN/EV/EE	
UX-V5	U/US/UB/UT/UX/UY/UF	
UX-V3	A	T8A
UX-V5	A	
UX-A1	D	8A/125V
FS-V5	J	

VERSION CODES



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. CONDITION ---CD STOP MODE
2. 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 CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (F)/RATED VOLTAGE (V). ALL DIODES ARE 1S5133

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