

Standard Schematic Diagrams

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

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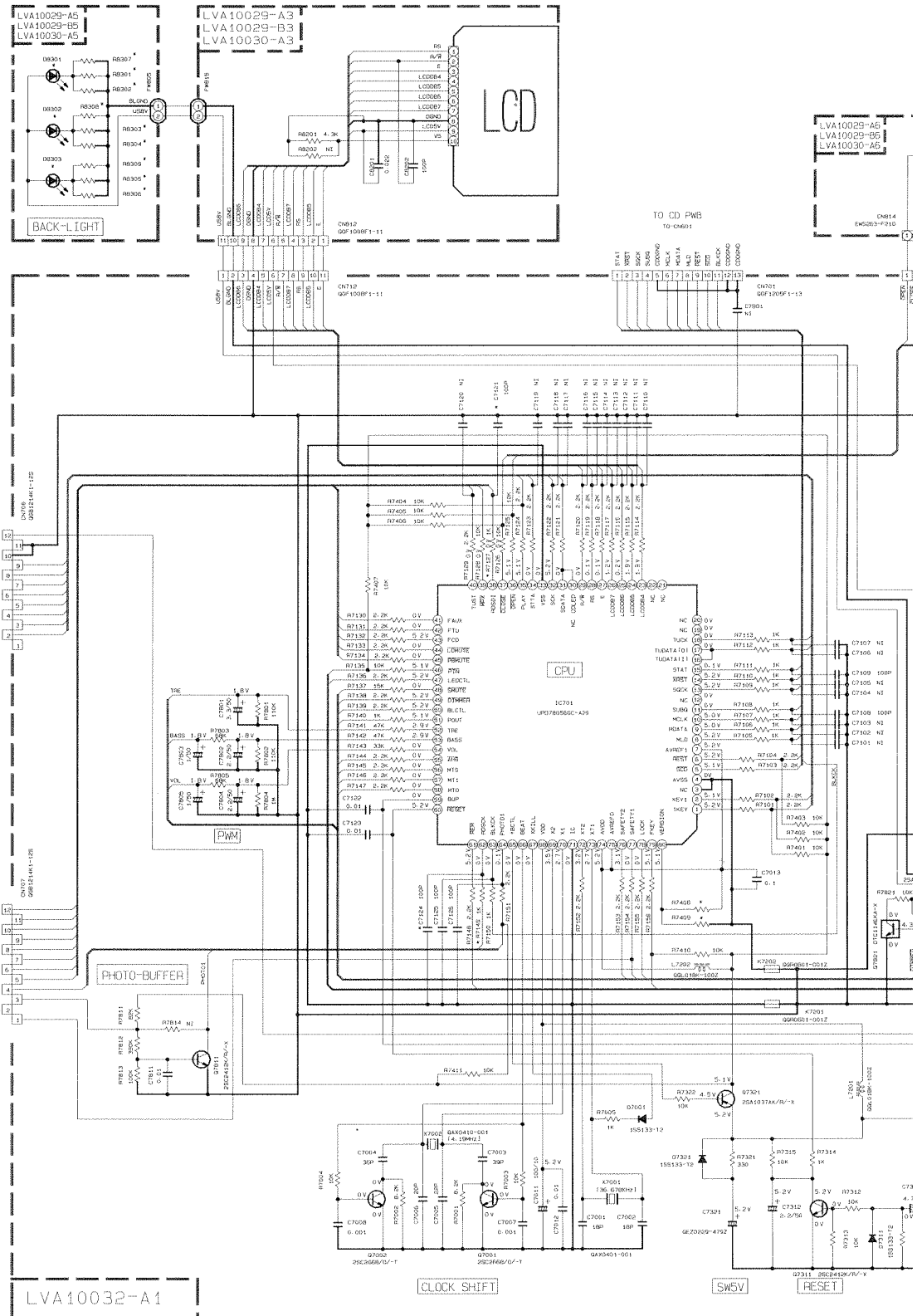
A

B

C

D

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(V)/RATED VOLTAGE (V).

* MATK

	UX-V1		UX-V3		FS-V5		UX-V5		UX-V5R	
	I G I	U/US/UT/UB/UF/UP	I G I	E/EN/EB/EV & I	I G I	U/US/UT/UB/UF/UP	I G I	E/EN/EB/EV & I	I G I	E/EN/EB/EV & I
R7823	1K	1K	1K	1K	1K	1.2K	1.2K	1.2K	1.2K	1.2K
R7824	NONE	NONE	NONE	NONE	NONE	1.2K	1.2K	1.2K	1.2K	1.2K
R9301-R9302 R9303	BLU	BLU	BLU	BLU	BLU	UMBER	UMBER	UMBER	UMBER	UMBER
R9301-R9303 R9305	470	470	470	470	470	820	820	820	820	820
R9302-R9304 R9306	470	470	470	470	470	820	820	820	820	820
R9307-R9308 R9309	NONE	NONE	NONE	NONE	NONE	1K	1K	1K	1K	1K
R7409	NONE	27K	82K	27K	15K	47K	82K	27K	15K	27K
R7429	0	1.5K	27K	2.7K	20K	33K	27K	5.1K	27K	2.7K
R7121-R7149	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	USED
C7121-C7124	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	USED

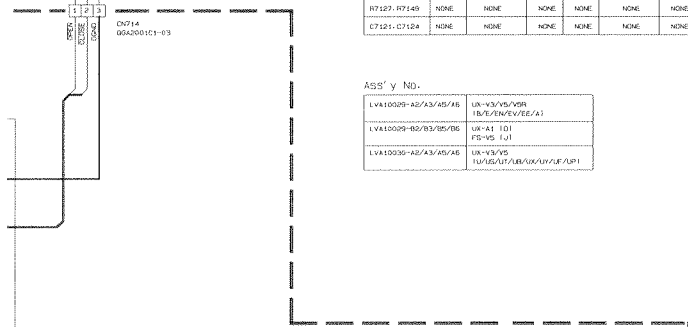
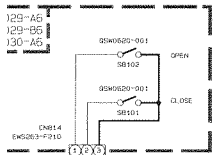
BLU = BLUE
UMBER = TYPICAL

Ass'y No.

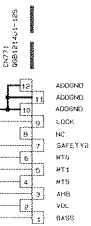
LVA10029-AB/A3/AB/AB	UX-V3/V5/V5R I/E/EN/EB/EV/A1
LVA10029-AB/BS/AB/BS	UX-V1 I/O1 FS-V5 I/O1
LVA10035-AB/A3/AB/AB	UX-V3/V5 I/US/UT/UB/UF/UP

VERSION CODES

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

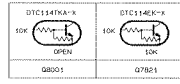


- C7307-N1
- C7306-N1
- C7309 100P
- C7305-N1
- C7304-N1
- C7308 100P
- C7303-N1
- C7302-N1
- C7301-N1

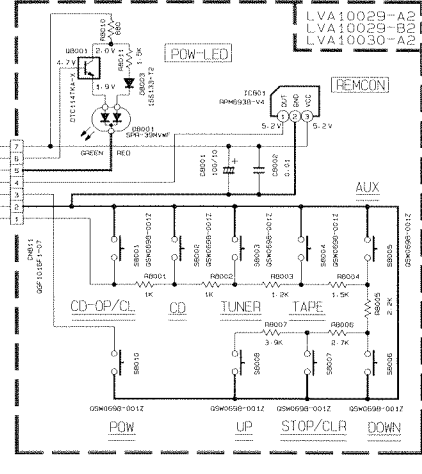
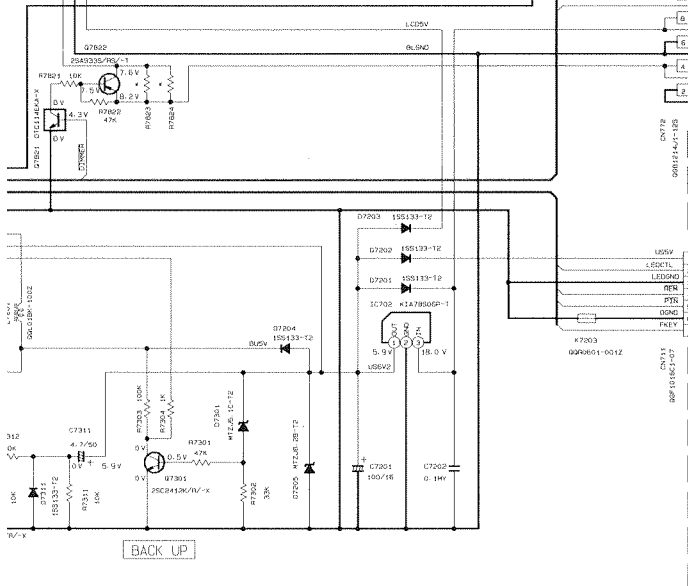


TO MAIN PWB
10-CN371

TO MAIN PWB
10-CN372

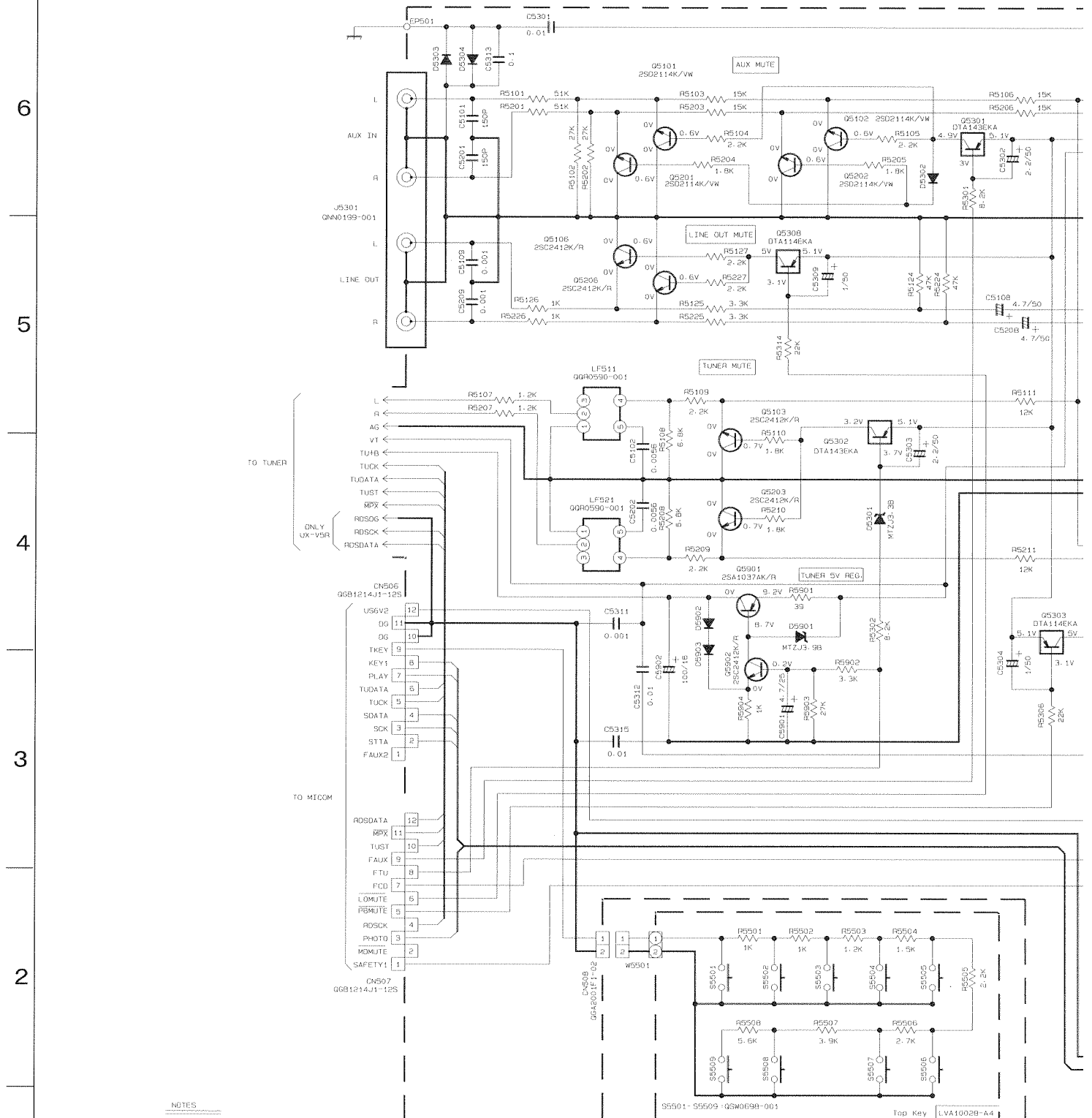


R9301 & R9303 ARE NO NEED FOR D VERSION



TAGE IV). THIS DRAWING HAS BEEN P

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



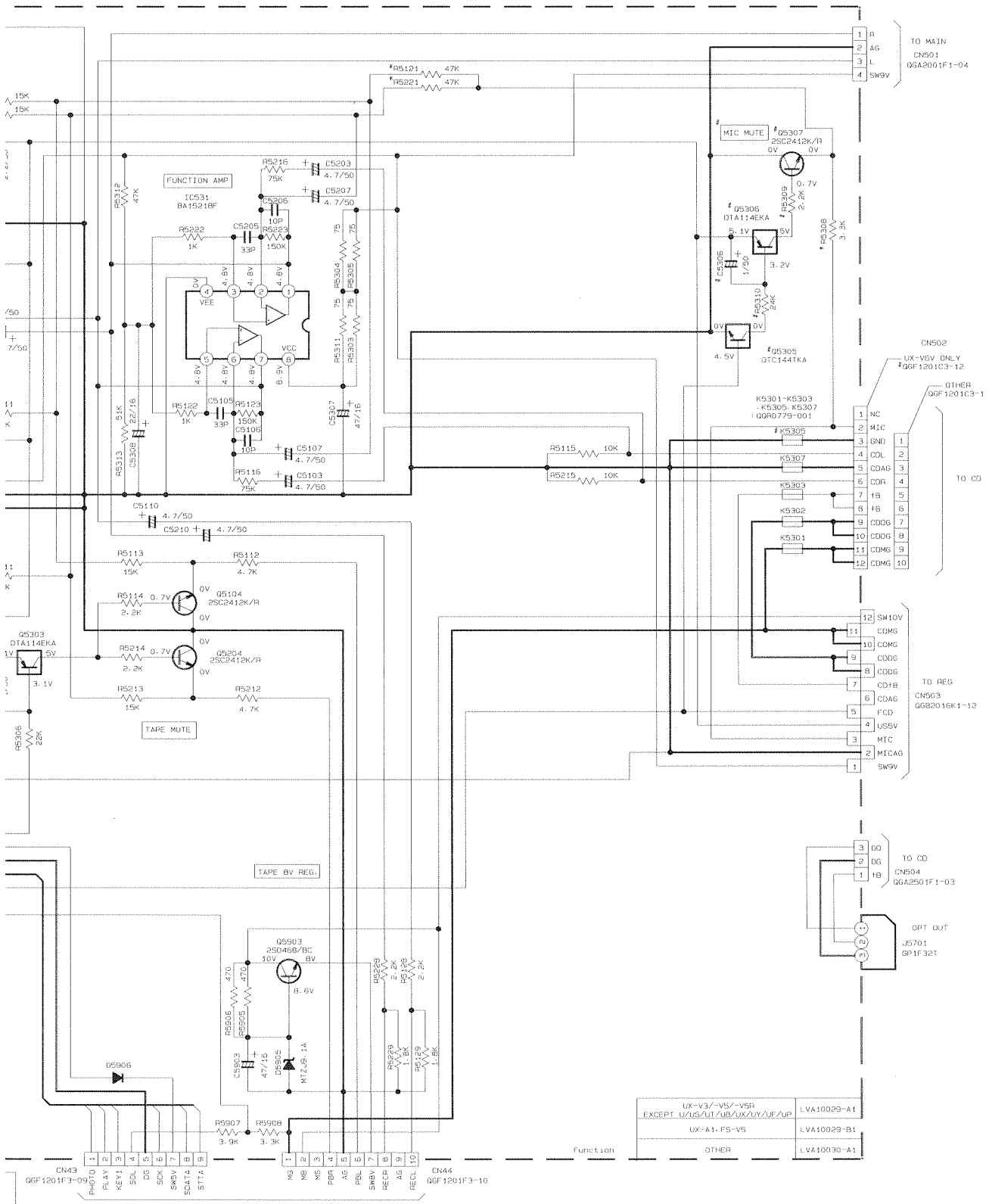
- NOTES**
- VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION --- CD STOP MODE
 - UNLESS OTHERWISE SPECIFIED
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN μF(P=pF).
ALL INDUCTANCE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

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

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A B C D E

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



* : ONLY U/US/UT/UB/UX/UY/UF/UP
: ONLY UX-V6V

DTA114EKA 10K	DTA143EKA 4.7K	DTC1441KA 4.7K
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CD Servo Circuit

6

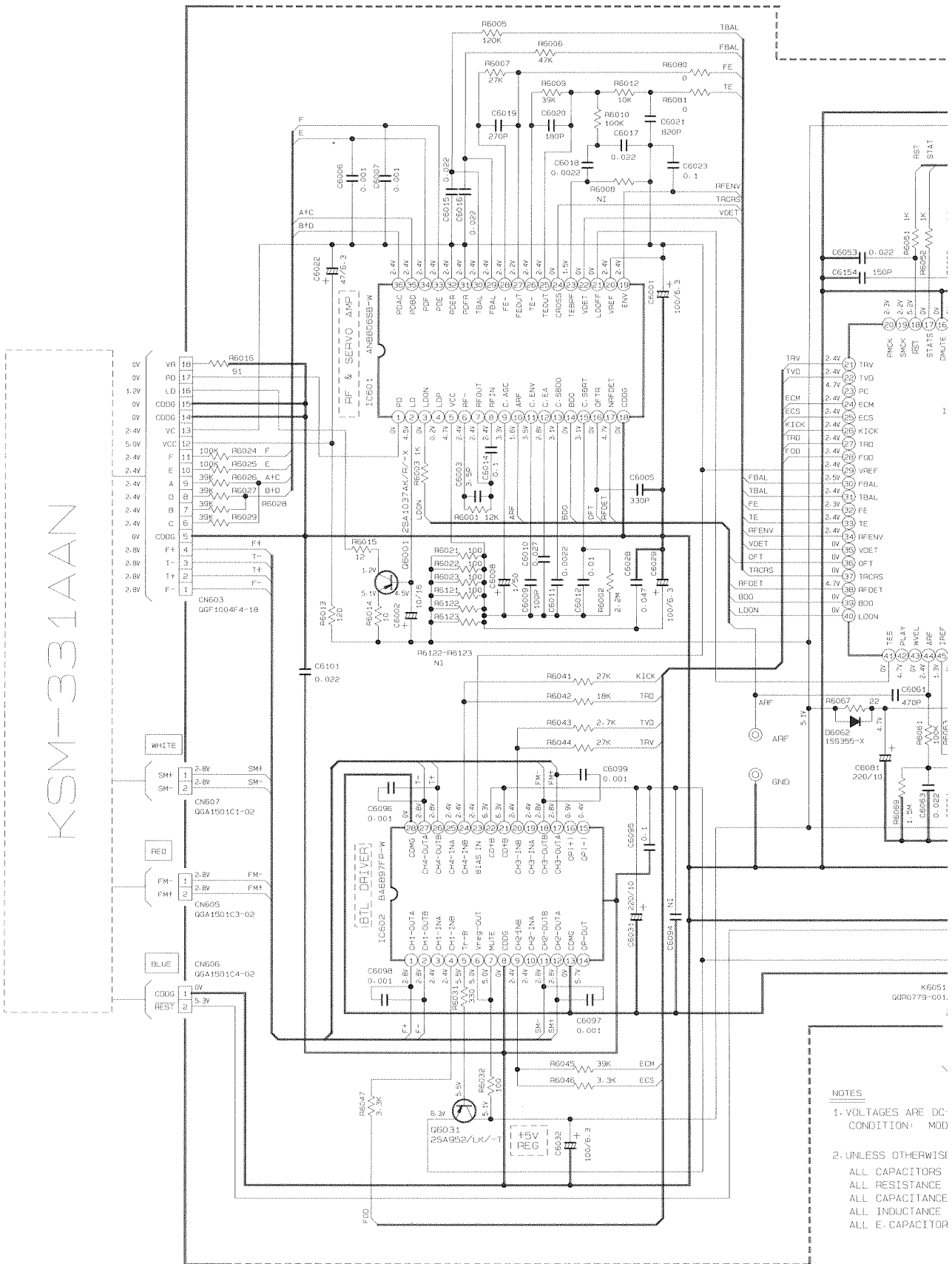
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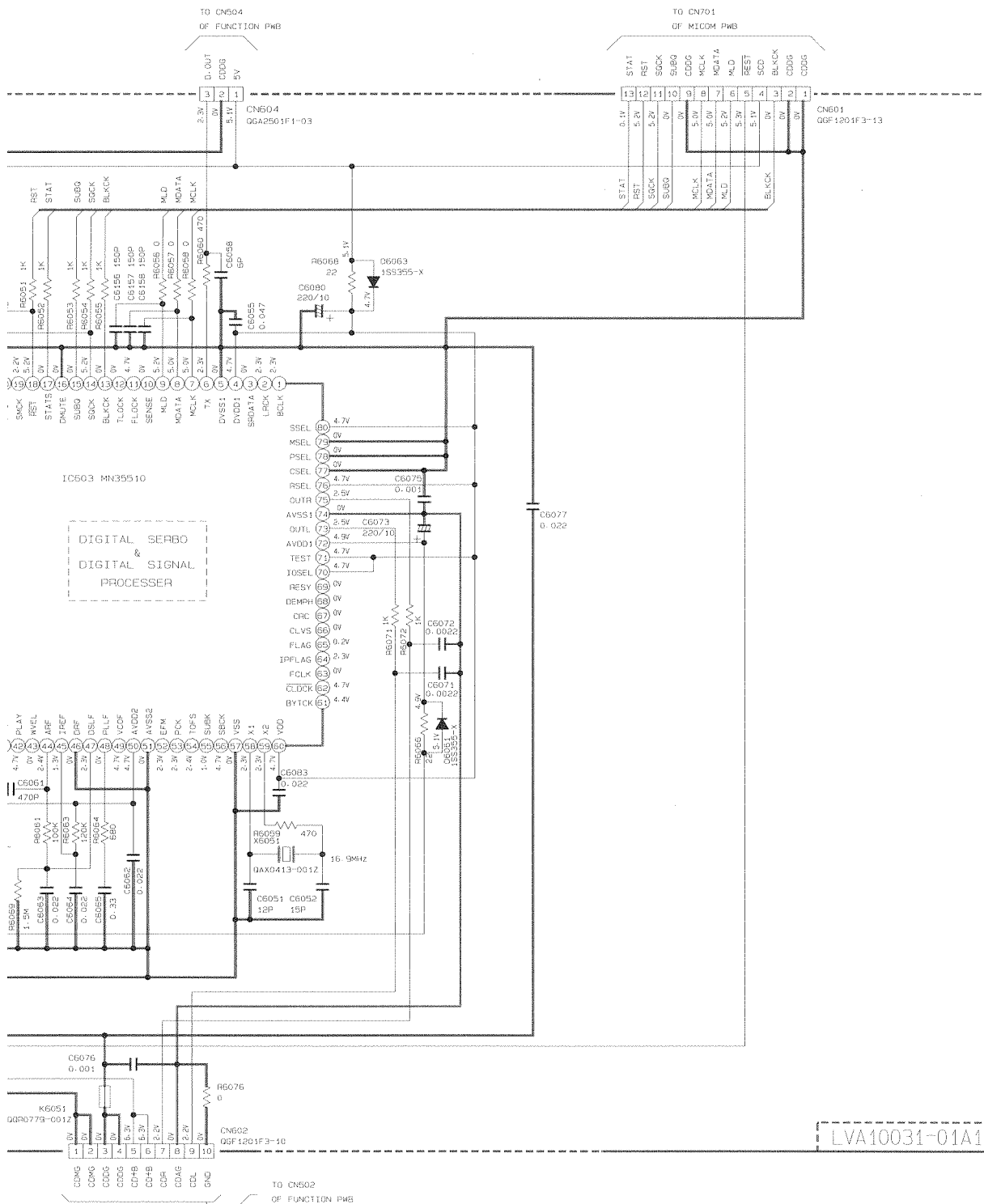
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KSM-331AAN

- NOTES**
1. VOLTAGES ARE DC CONDITION: MOD
 2. UNLESS OTHERWISE ALL CAPACITORS ALL RESISTANCE ALL CAPACITANCE ALL INDUCTANCE ALL E. CAPACITOR

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.

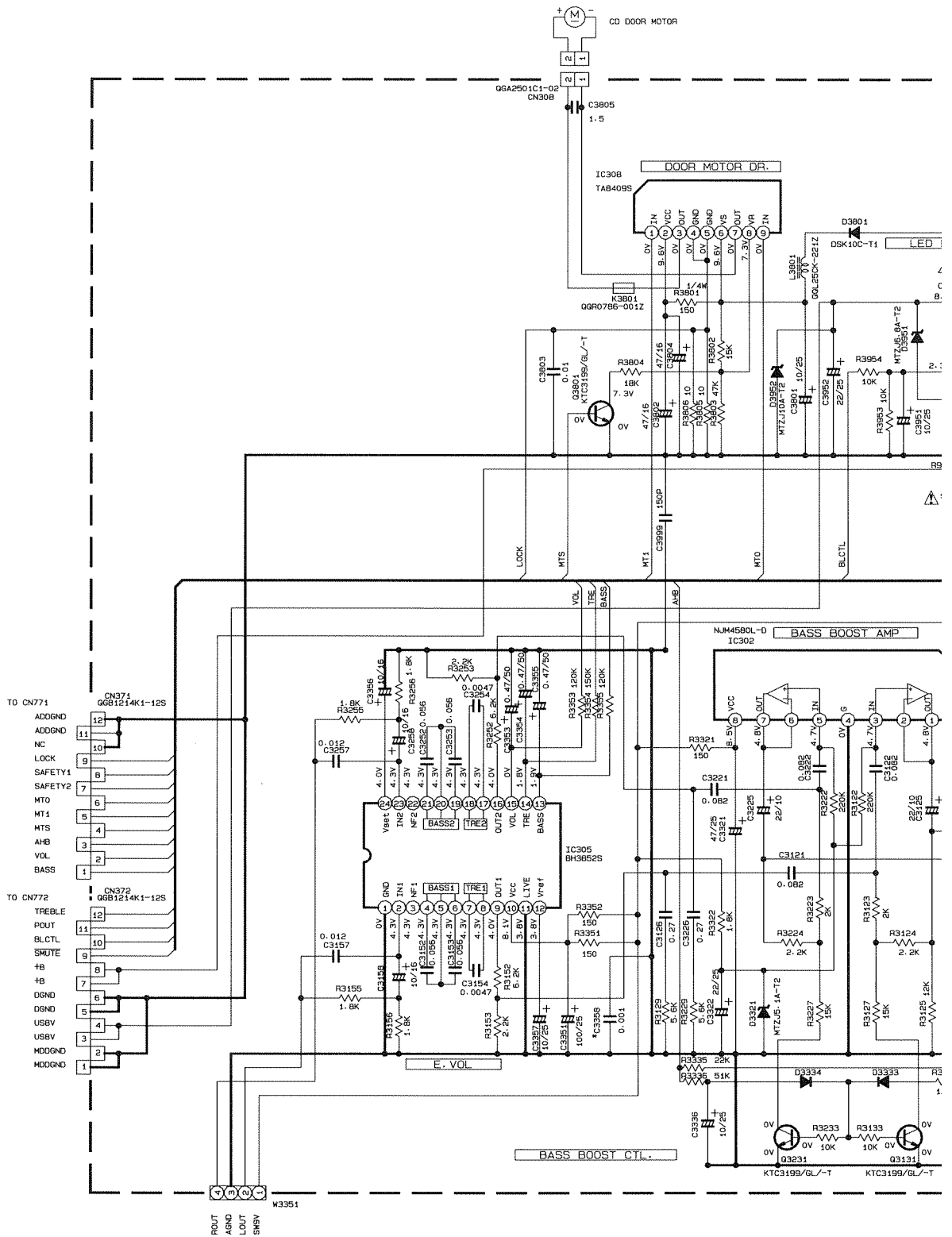
†RESISTANCE VALUES ARE IN OHM (Ω).

*CAPITANCE VALUES ARE IN * F (pF).

†DUCTANCE VALUES ARE IN HENRY(H).

CAPITORS ARE SHOWN IN THE FORM OF CAPACITANCE(F)/RATED VOLTAGE (V).

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

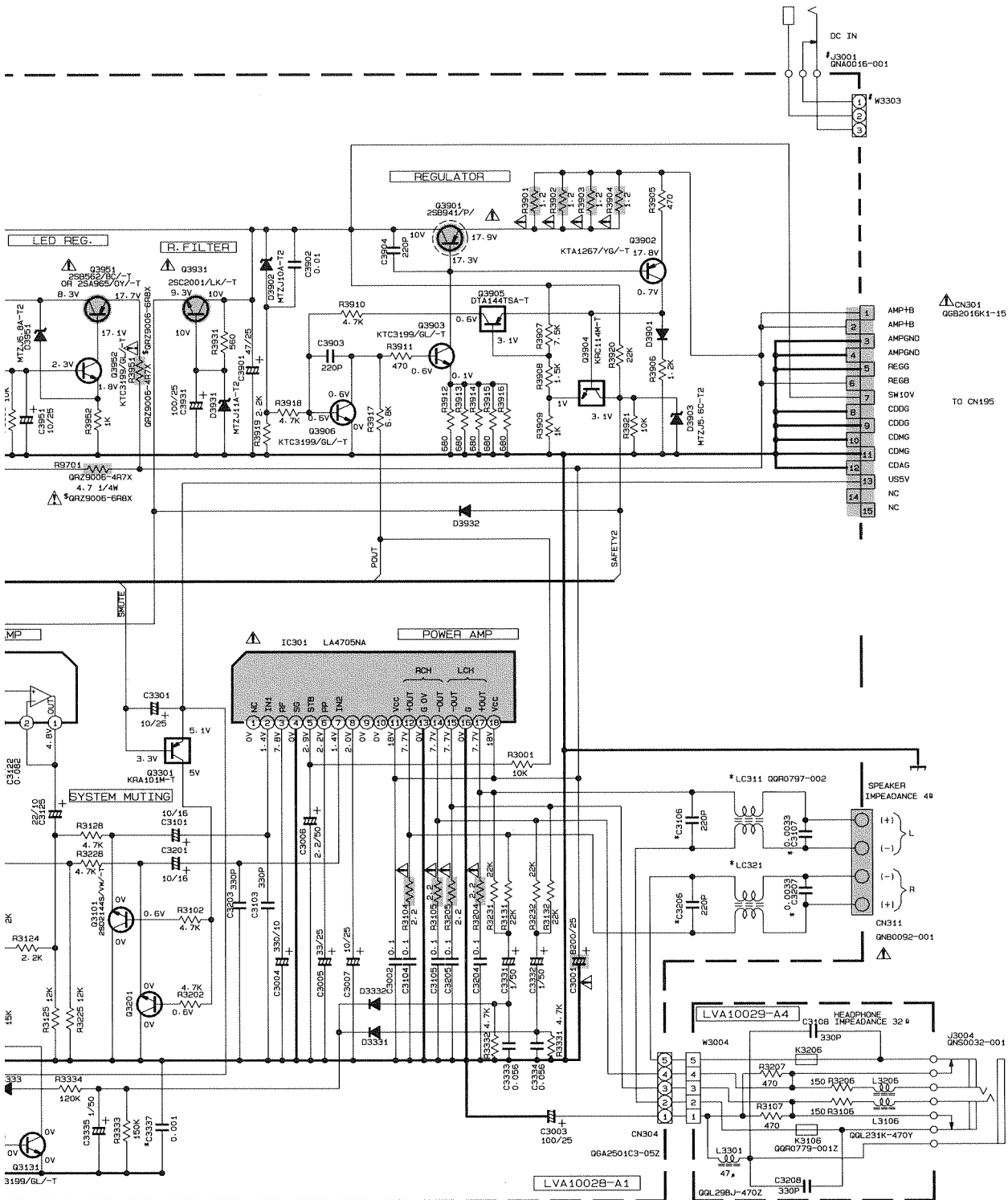


NOTES

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

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



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

\$: FS-V5 ONLY

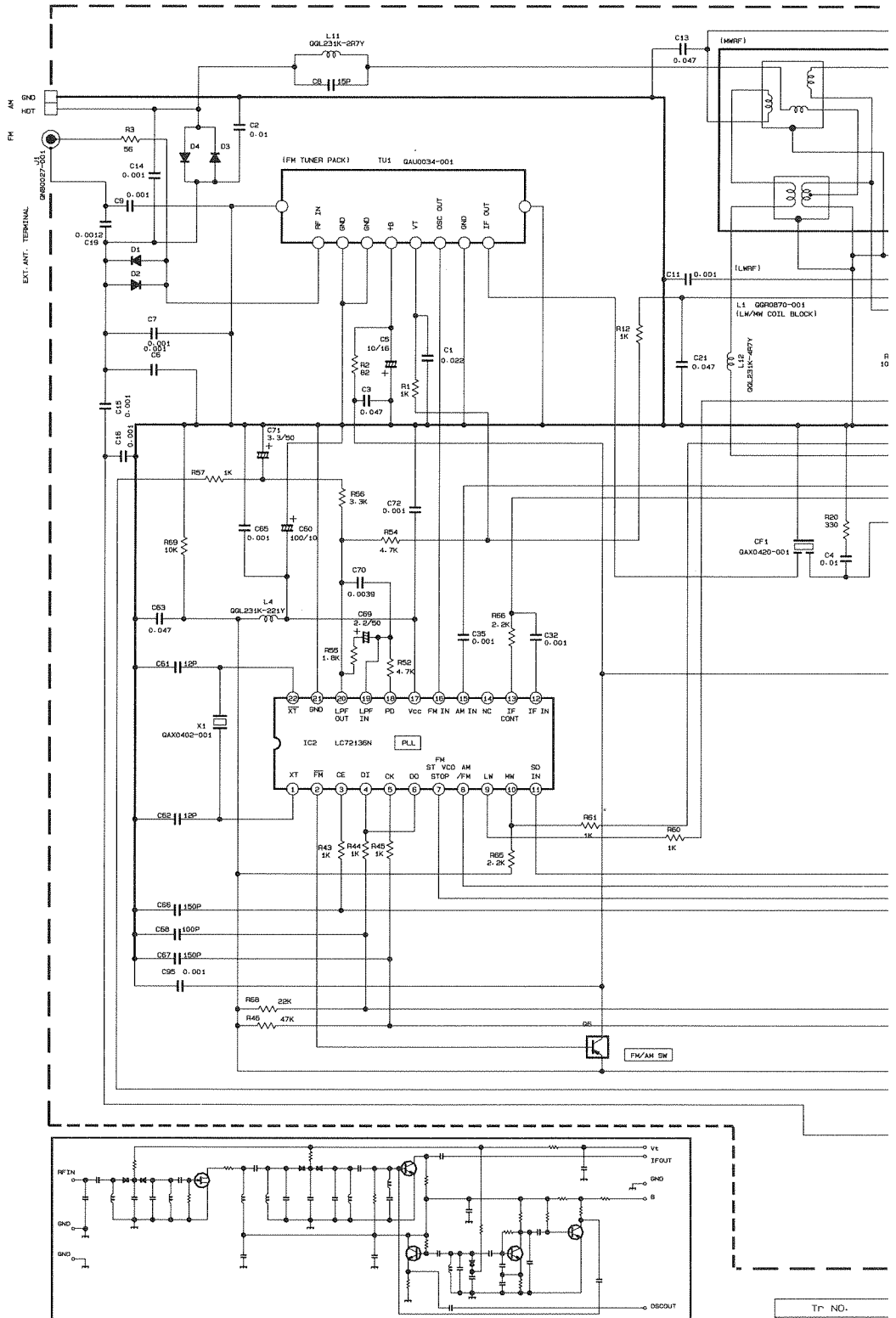
MYLAR CAPACITOR.

F CAPACITANCE (μF)/RATED VOLTAGE (V).



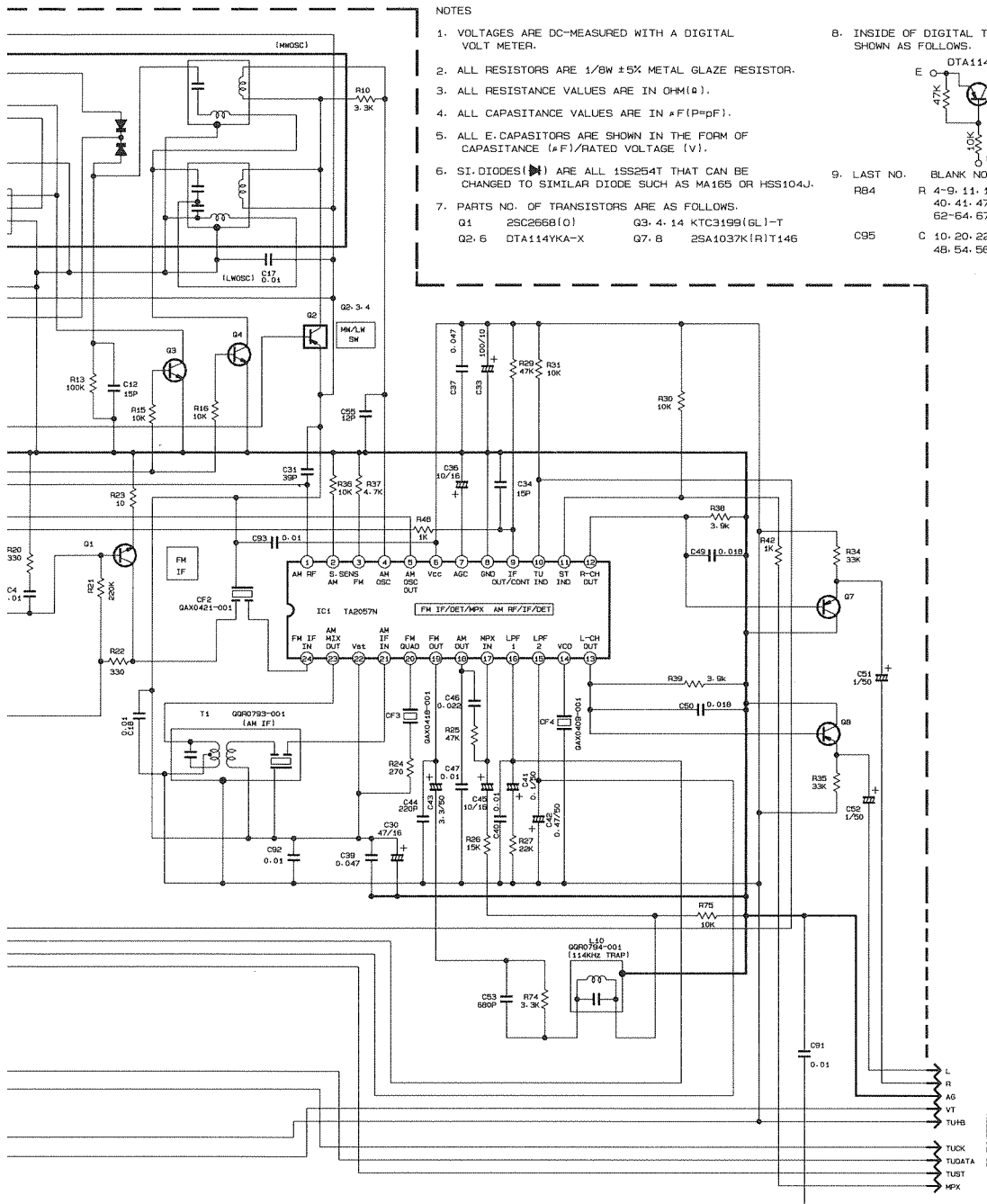
△ Parts are safety assurance parts.
When replacing those parts make
sure to use the specified one.

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									

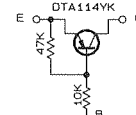
Tr. NO.	
PIN NO.	
FM 87.5MHZ NO SIGNAL	
AM 522KHZ NO SIGNAL	
Tr. NO.	
PIN NO.	
AM 522KHZ NO SIGNAL	
AM 144KHZ NO SIGNAL	



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(pF).
5. ALL E. CAPASITORS ARE SHOWN IN THE FORM OF CAPASITANCE (pF)/RATED VOLTAGE (V).
6. SI. DIODES(D) 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 DTA114YK-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

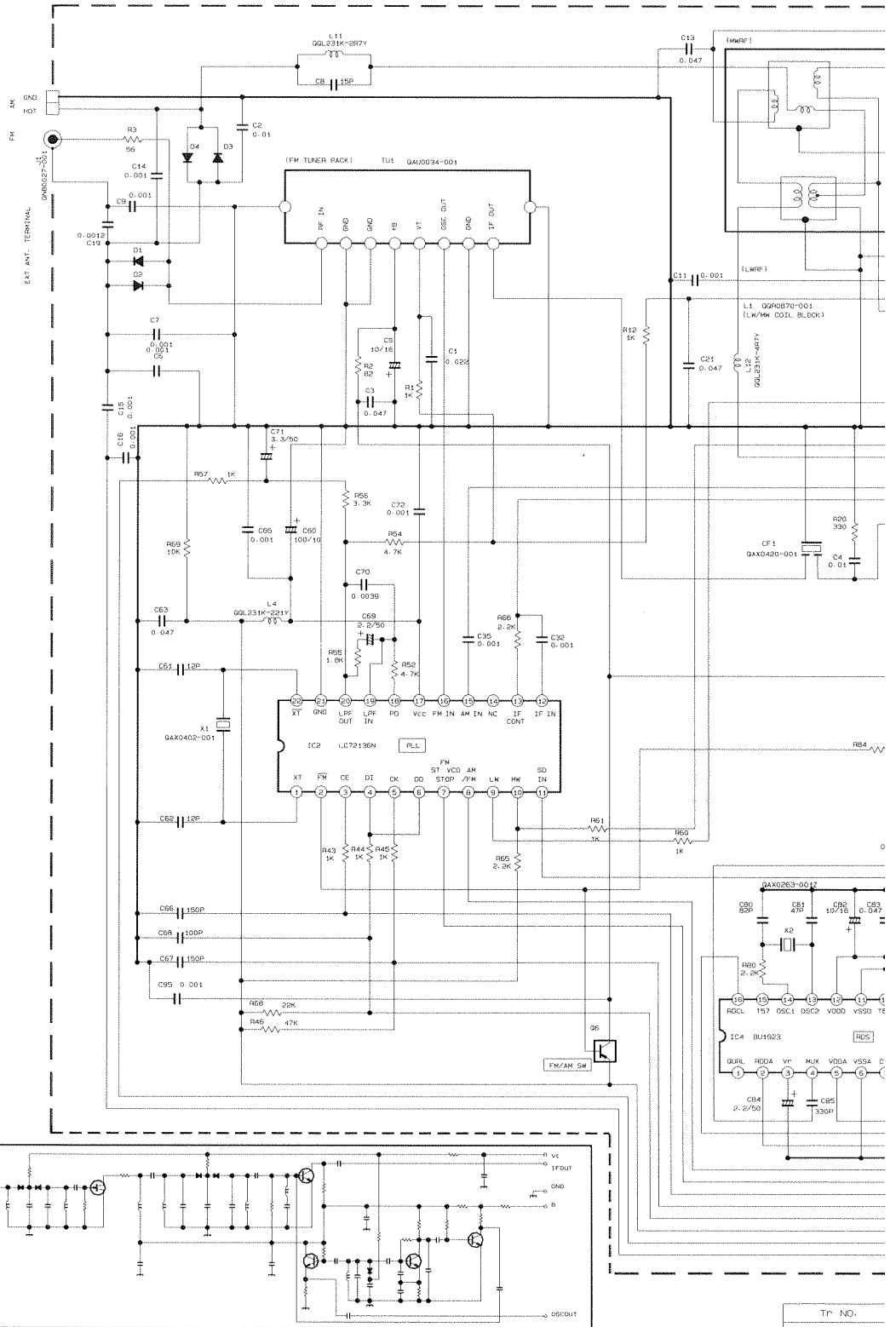
LVA10029-A1

NO.	G1			G6			G7			G8			G14		
	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		
	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

■ Tuner Circuit for UX-V5R



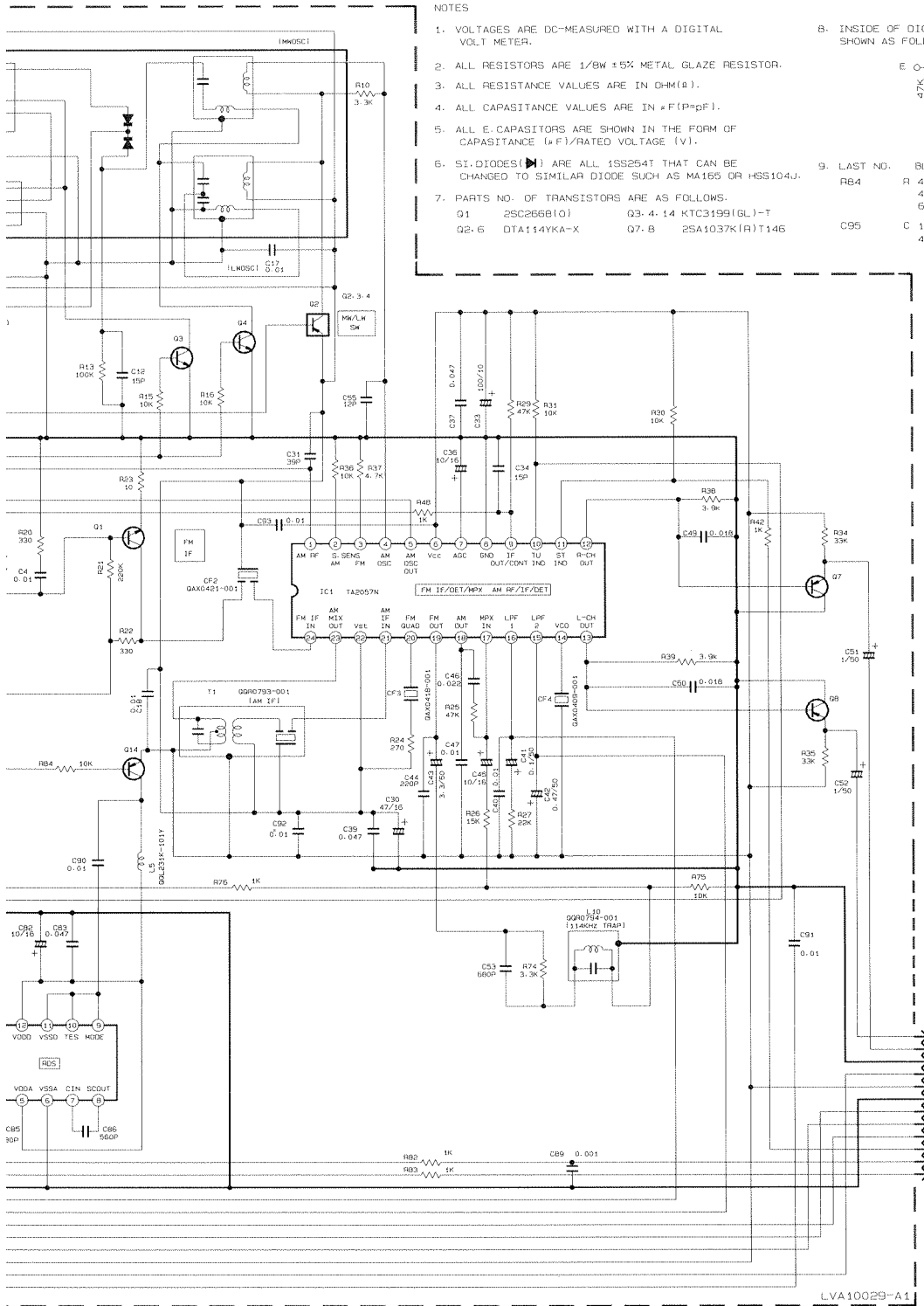
CONDITION	PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
IC1	FM NO SIGNAL	2.0	0.5	0	2.0	5.1	5.1	0	0	0.3	5.1	5.1	1.1	1.1	4.4	3.7	3.7	1.4	0	1.3	1.1	2.0	2.0	5.1	2.0
	FM 500B STEREO	2.0	0.5	0	2.0	5.1	5.1	1.1	0	0.3	0	0	1.1	1.1	4.3	4.1	3.7	1.4	0	1.4	1.1	2.0	2.0	5.1	2.0
IC2	AM NO SIGNAL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

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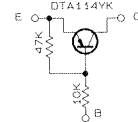
UX-V3/UX-V5
UX-V5R/FS-V5



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 CAPACITANCE VALUES ARE IN pF (P=PF).
5. ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (± F)/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(6L)-T
Q2: 6 DTA114YK-A X Q7: B 2SA1037K(R)T146

B. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.



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

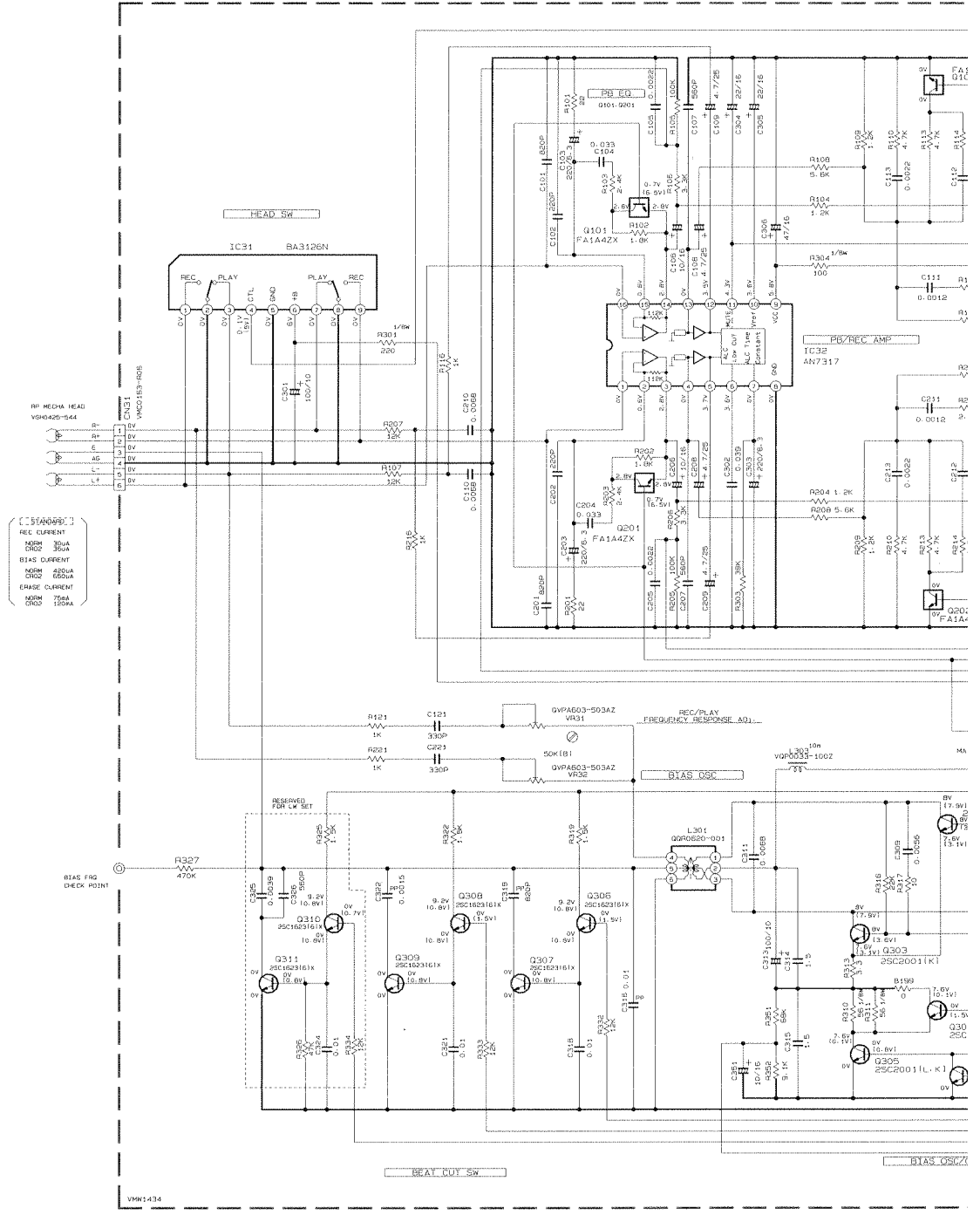
Tr. NO.	Q2			Q3			Q4		
IN NO.	E	C	B	E	C	B	E	C	B
GHz NO SIGNAL	2.0	2.0	0.1	0	0	0.7	0	0	0.7
GHz NO SIGNAL	2.0	2.0	2.0	0	0	0.1	0	0	0.1

E/B/EN/EV/A

LVA10029-A1

Cassette Amplifier Circuit

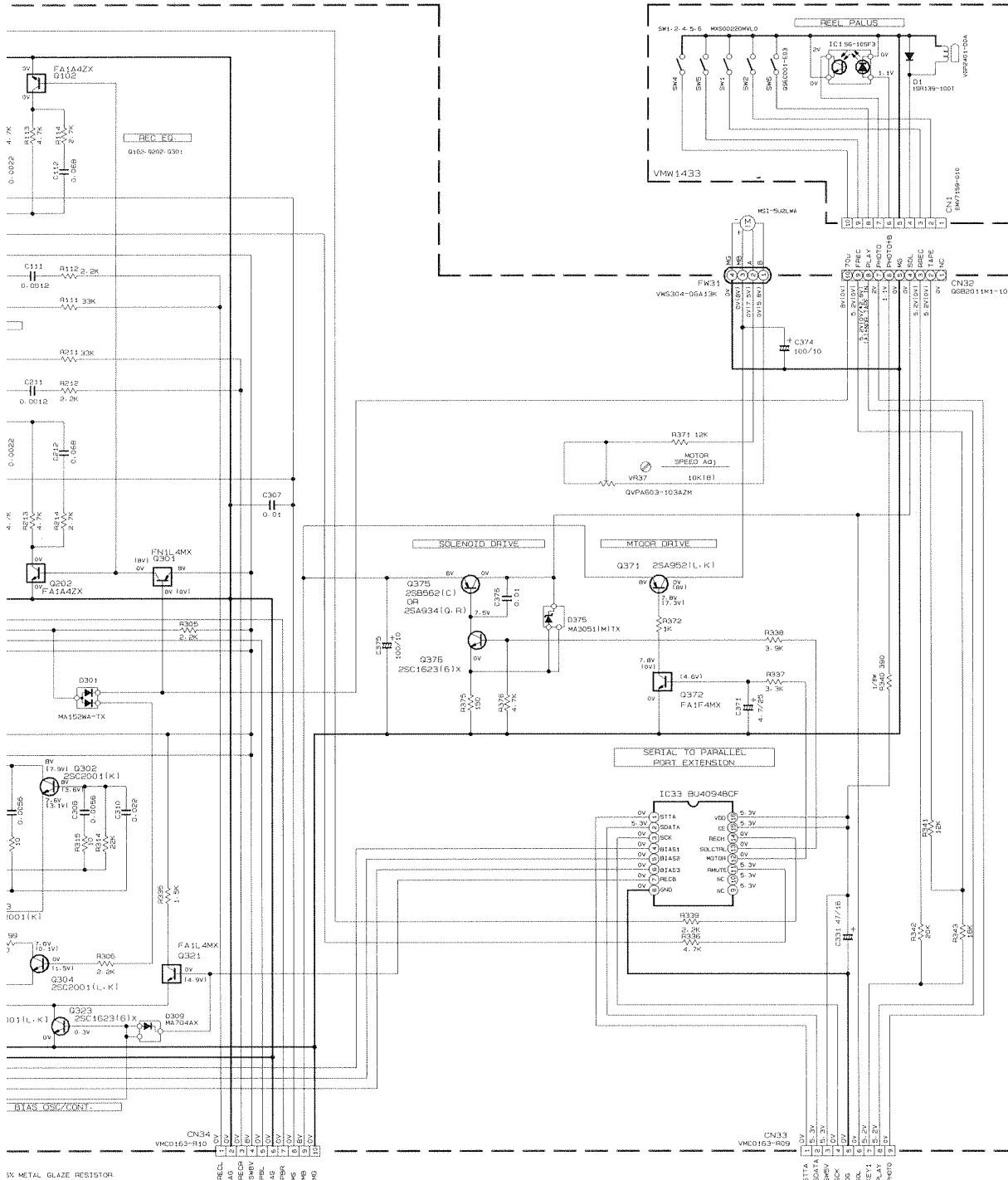
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REC CURRENT
CH01 700A
CH02 300A
BIAS CURRENT
CH01 450A
CH02 650A
ERASE CURRENT
CH01 700A
CH02 1000A

NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. CONDITION: MEDIA 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 (pF). ALL INDUCTANCE VALUES ARE IN μH (μH). ALL ELECTROLYTIC CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE 1μF/10V. POLYPROPYLENE CAPACITOR.

A B C D E



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

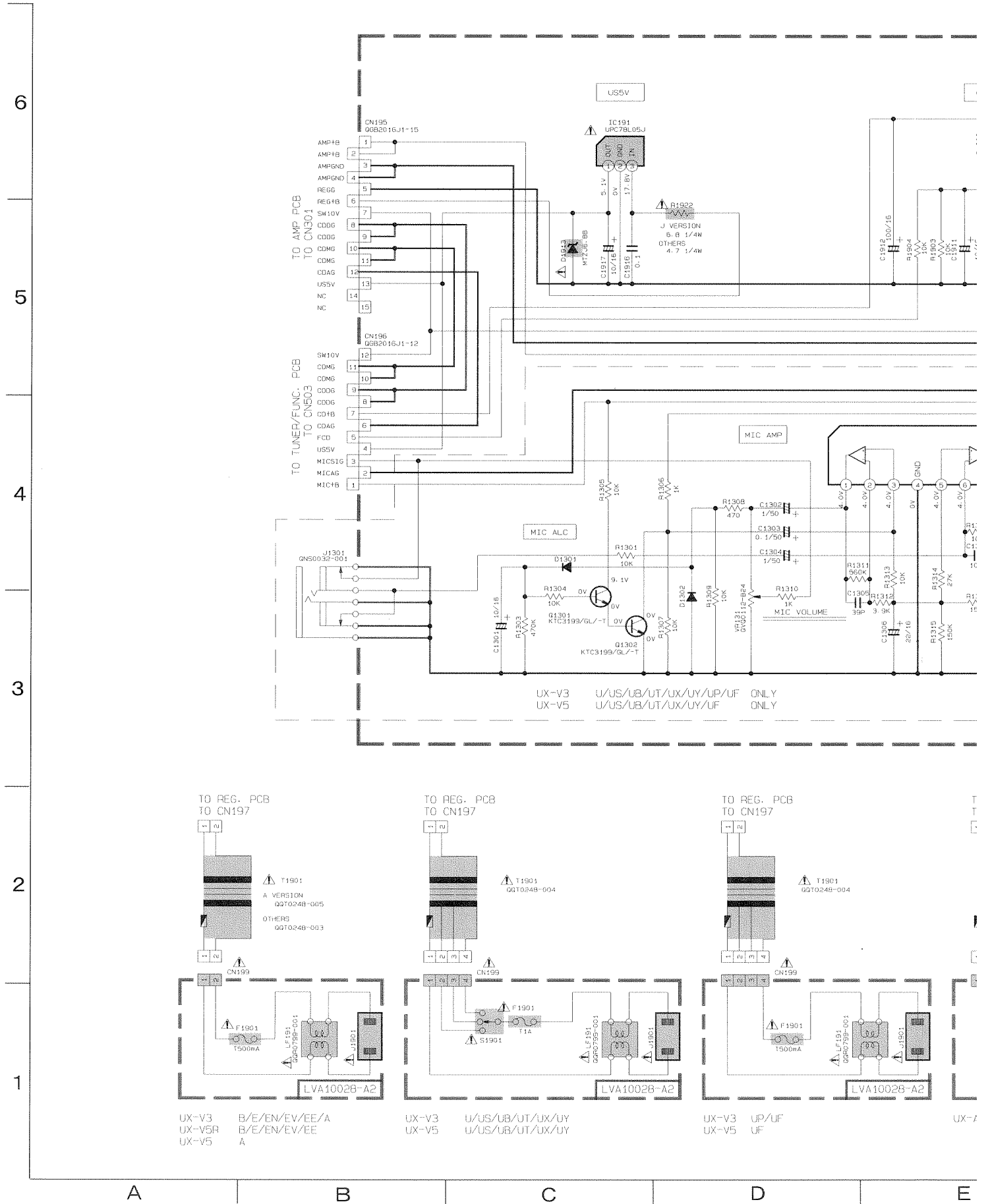
REEL PAULS
SLENOID DRIVE
MOTOR DRIVE
SERIAL TO PARALLEL PORT EXTENSION
BIAS OSC/CONT.

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

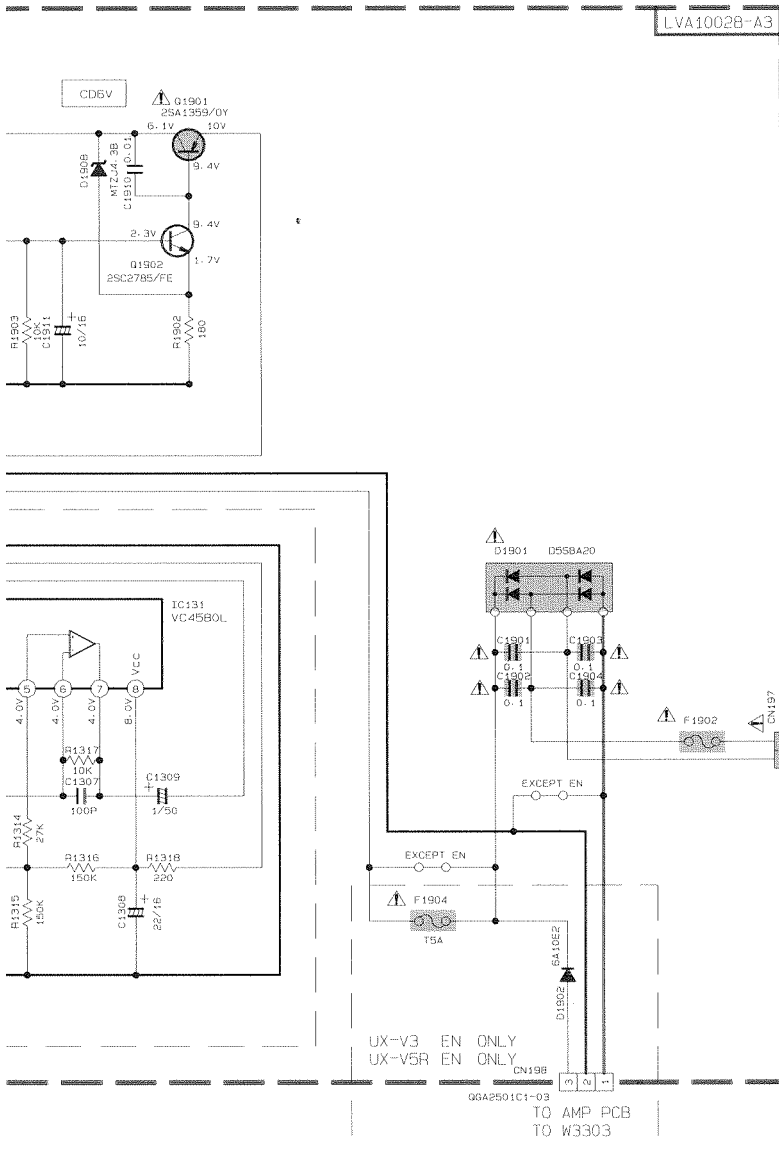
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■ Power Supply Circuit for UX-V3/V5/V5R

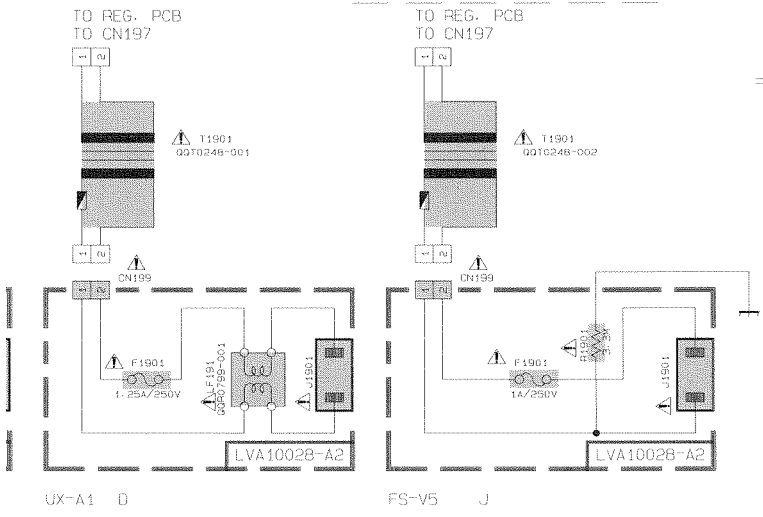


UX-V3/UX-V5
UX-V5R/FS-V5



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	TBA
UX-V5	U/US/UB/UT/UX/UY/UF	TBA
UX-V3	A	TBA
UX-V5	A	TBA
UX-A1	D	8A/125V
FS-V5	J	8A/125V

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.