10. Wiring Connections

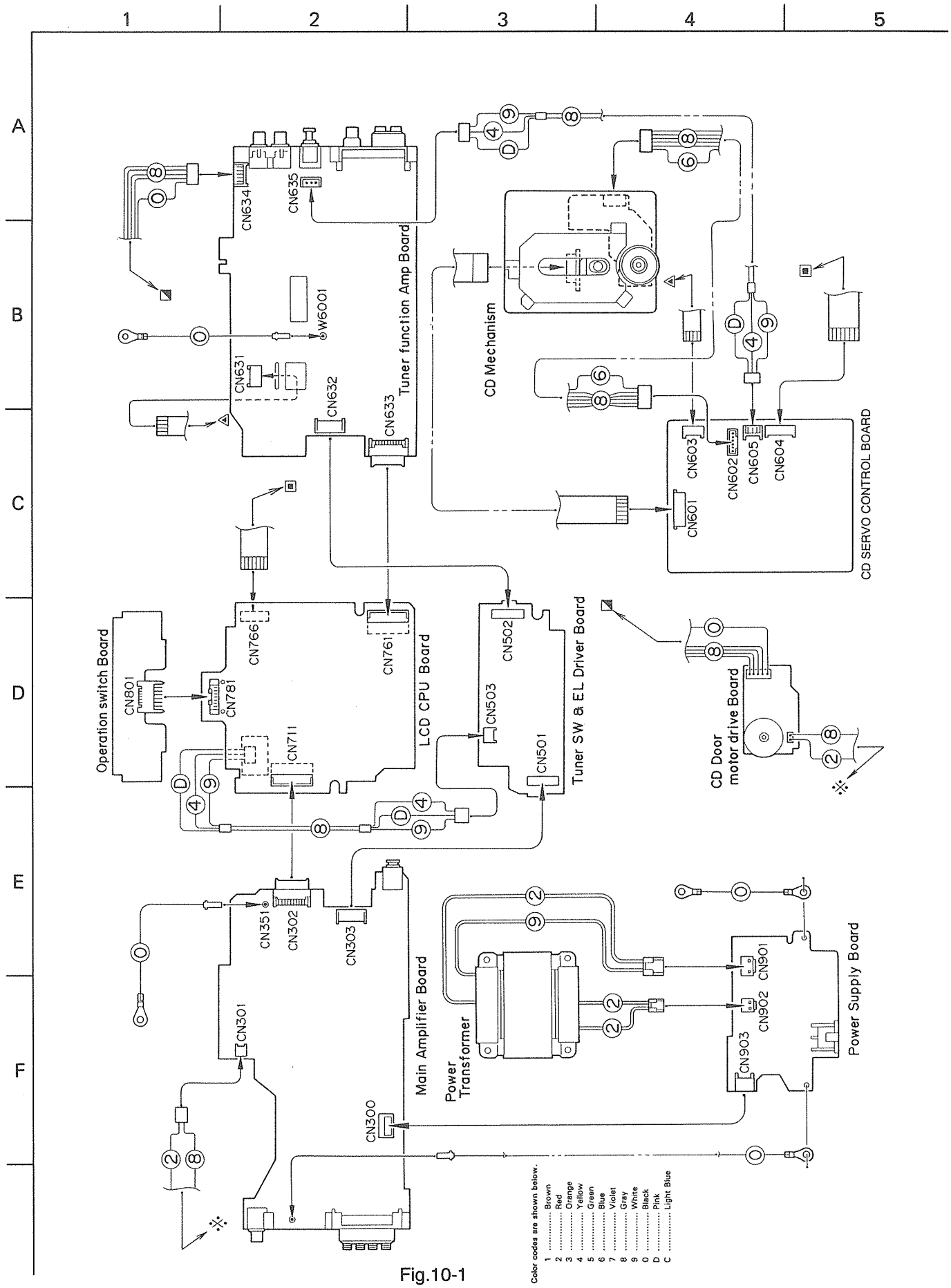
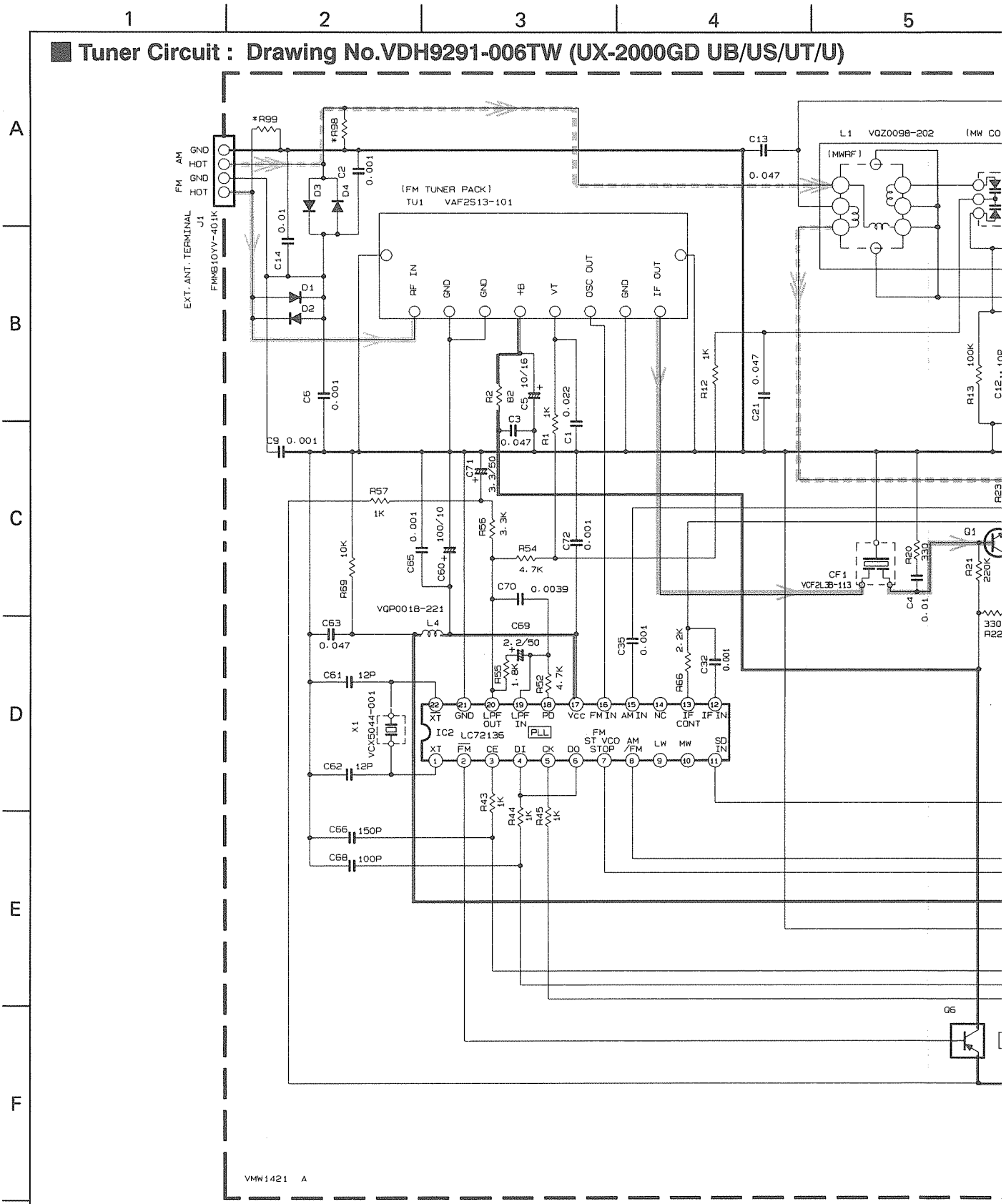


Fig.10-1

11. Standard Schematic Diagram

Tuner Circuit : Drawing No.VDH9291-006TW (UX-2000GD UB/US/UT/U)



	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	5.2	5.2	0	0	0.3	5.2	5.2	1.1	1.1	4.6	3.9	3.9	1.4	0	1.3	1.1	2.0	2.0	5.2	2.0
	FM 60dB STEREO	2.0	0.5	0	2.0	5.2	5.2	1.1	0	0.3	0	0	1.1	1.1	4.5	4.1	3.9	1.4	0	1.4	1.1	2.0	2.0	5.2	2.0
	AM NO SIGNAL	2.0	0.5	0	2.0	5.0	5.2	0	0	0.3	5.2	5.2	1.1	1.1	4.8	0.1	0	1.4	1.4	1.5	1.6	2.0	2.0	5.2	2.0
IC2	FM NO SIGNAL	2.4	0	0	5.1	4.9	5.1	3.9	3.9	0	0	5.2	0	0	0	0	2.6	5.2	1.0	1.0	3.7	0	2.7		

Tr NO
PIN NO
FM 76.0MHz
AM 531KHz

Note : VDH9291006TW

6 7 8 9 10

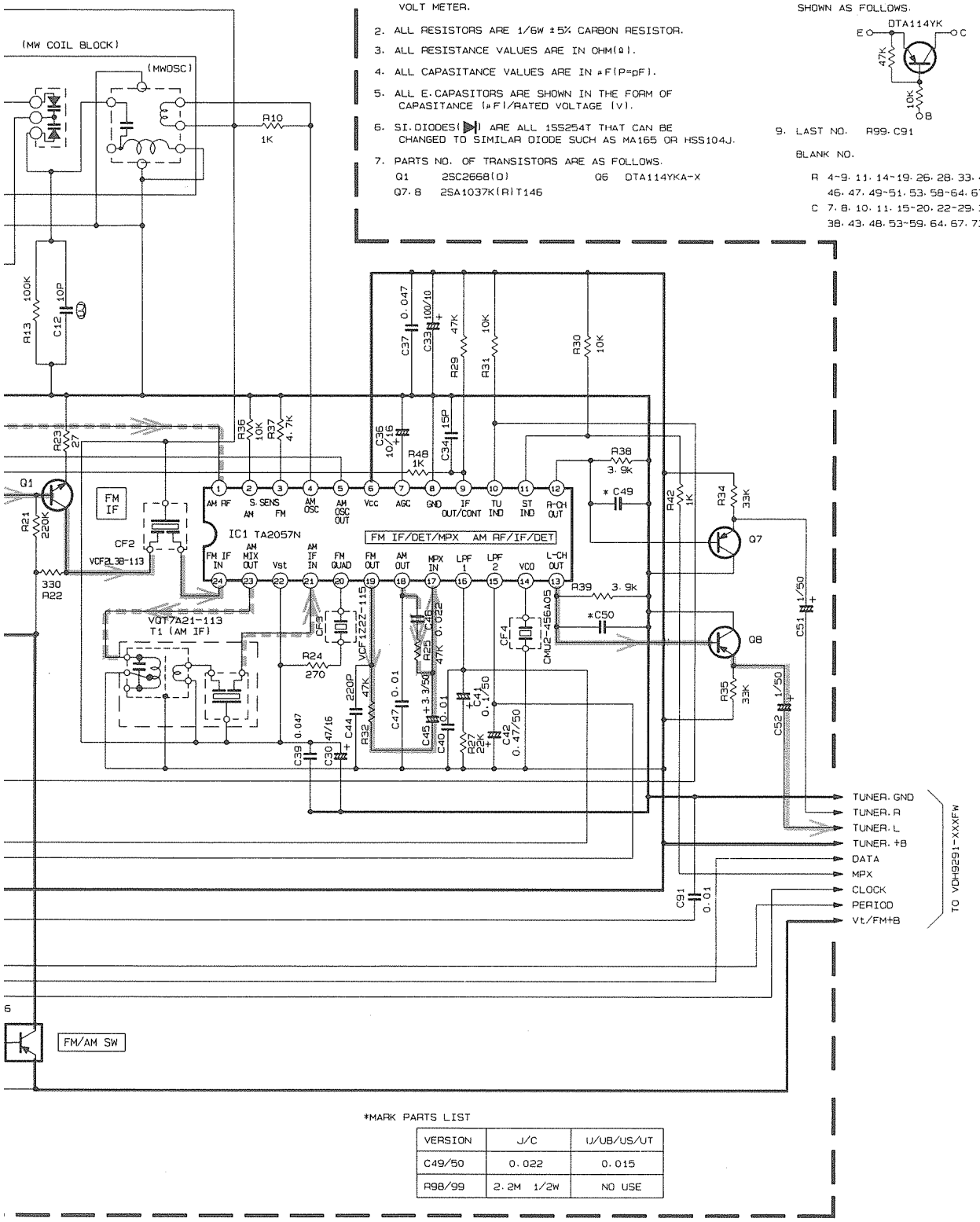
NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
2. ALL RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
3. ALL RESISTANCE VALUES ARE IN OHM(Ω).
4. ALL CAPASITANCE VALUES ARE IN μF(P=pF).
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) Q6 DTA114YKA-X
   Q7.8 2SA1037K(R)T146
8. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.

9. LAST NO. R99. C91

BLANK NO.

R 4~9. 11. 14~19. 26. 28. 33. 40. 41. 46. 47. 49~51. 53. 58~64. 67. 68. 70~97
C 7. 8. 10. 11. 15~20. 22~29. 31. 38. 43. 48. 53~59. 64. 67. 73~90



*MARK PARTS LIST

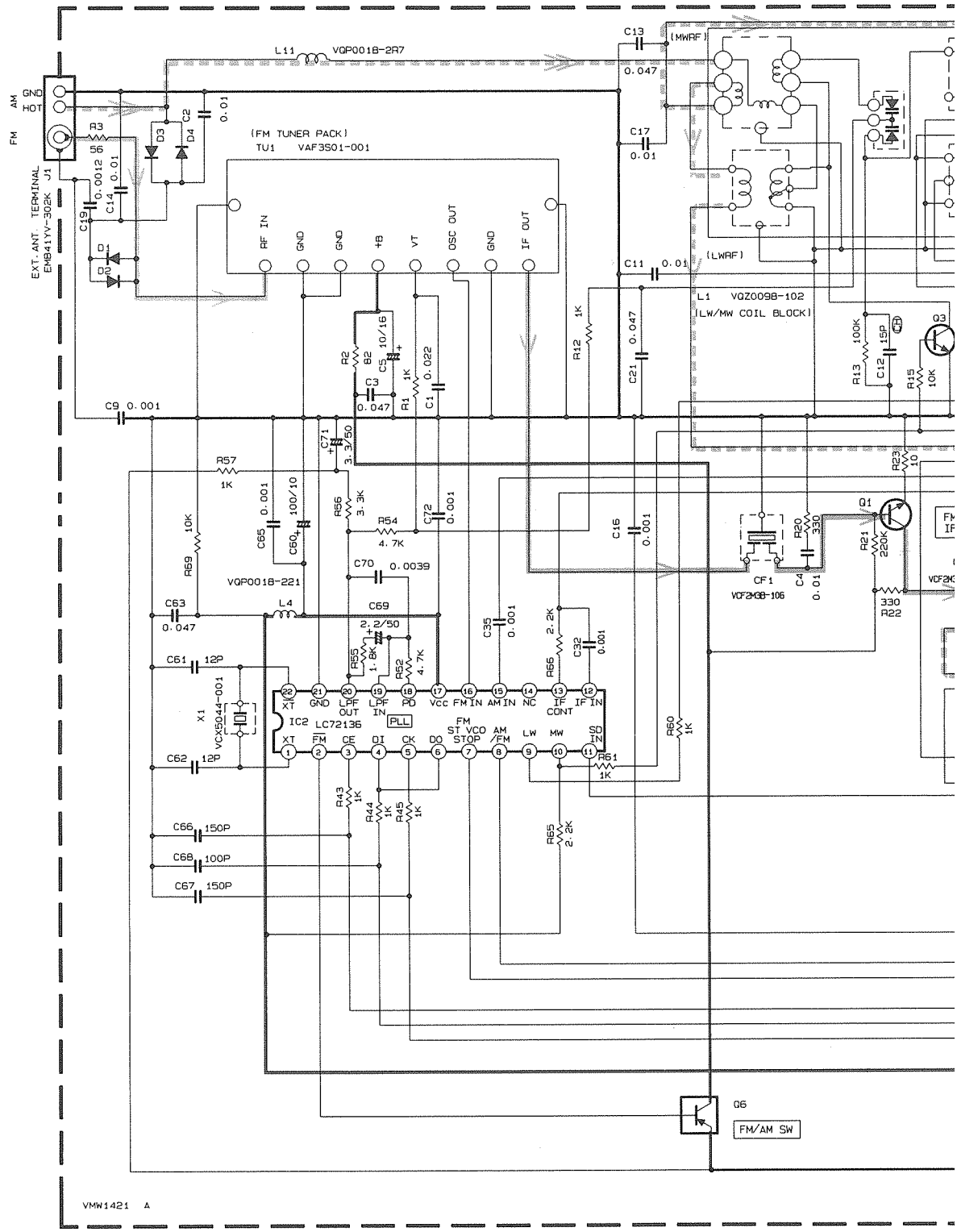
VERSION	J/C	U/UB/US/UT
C49/50	0.022	0.015
R98/99	2.2M 1/2W	NO USE

Tr NO.	Q1			Q6			Q7			Q8		
PIN NO.	E	C	B	E	C	B	E	C	B	E	C	B
M 76.0MHz NO SIGNAL	0	7.5	0.7	8.8	8.7	0	1.6	0	1.1	1.6	0	1.1
M 531KHz NO SIGNAL	0	0	0	8.8	0	8.7	1.6	0	1.1	1.6	0	1.1

FM Radio signal
AM Radio signal
+B Line

Fig.11-1

Tuner Circuit : Drawing No.VDH9291-012TW (UX-2000GD VX)



	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	5.2	5.2	0	0	0.3	5.2	5.2	1.1	1.1	4.6	3.9	3.9	1.4	0	1.3	1.1	2.0	2.0	5.2	2.0
	FM 60dB STEREO	2.0	0.5	0	2.0	5.2	5.2	1.1	0	0.3	0	0	1.1	1.1	4.5	4.1	3.9	1.4	0	1.4	1.1	2.0	2.0	5.2	2.0
	AM NO SIGNAL	2.0	0.5	0	2.0	5.0	5.2	0	0	0.3	5.2	5.2	1.1	1.1	4.8	0.1	0	1.4	1.4	1.5	1.6	2.0	2.0	5.2	2.0
IC2	FM NO SIGNAL	2.4	0	0	5.1	4.9	5.1	3.9	3.9	2.0	4.1	5.2	0	0	0	0	2.6	5.2	1.0	1.0	3.7	0	2.7		

Tr NO.	
PIN NO.	
FM 65.0MHz NO SIGNAL	
AM 522KHz NO SIGNAL	
Tr NO.	
PIN NO.	
AM 522KHz NO SIGNAL	
AM 144KHz NO SIGNAL	

Note : VDH9291012TW

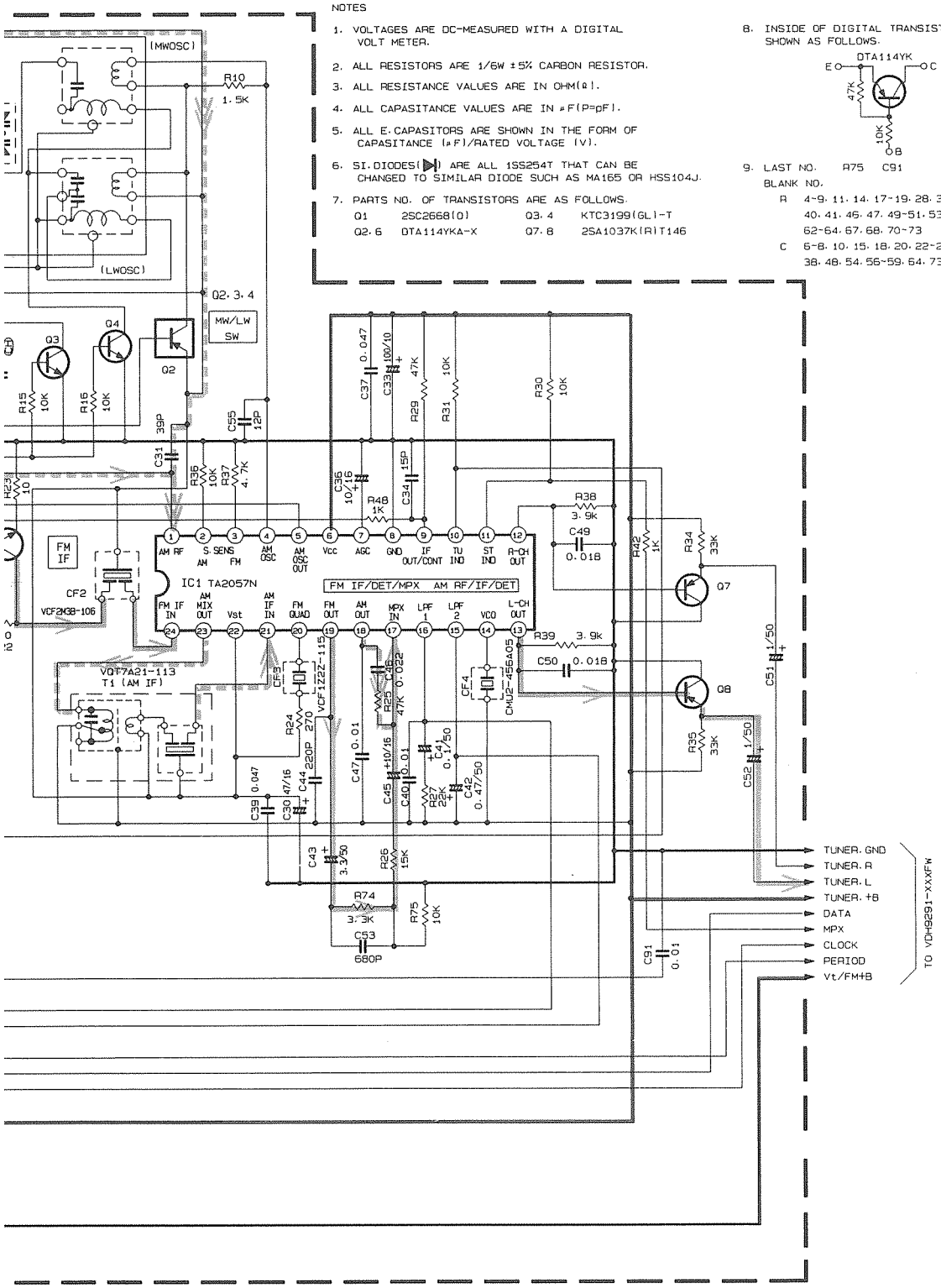
Fig.11-2

6 7 8 9 10

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
2. ALL RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
3. ALL RESISTANCE VALUES ARE IN OHM(Ω).
4. ALL CAPASITANCE VALUES ARE IN μF(P=pF).
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 KTC3199(GL)-T
   Q2.6 DTA114YKA-X Q7.8 2SA1037K(R)T146
8. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.

9. LAST NO. R75 C91
   BLANK NO.
   R 4~9. 11. 14. 17~19. 28. 32. 33 40. 41. 46. 47. 49~51. 53. 58. 59 62~64. 67. 68. 70~73
   C 6~8. 10. 15. 18. 20. 22~29. 38. 48. 54. 56~59. 64. 73~90

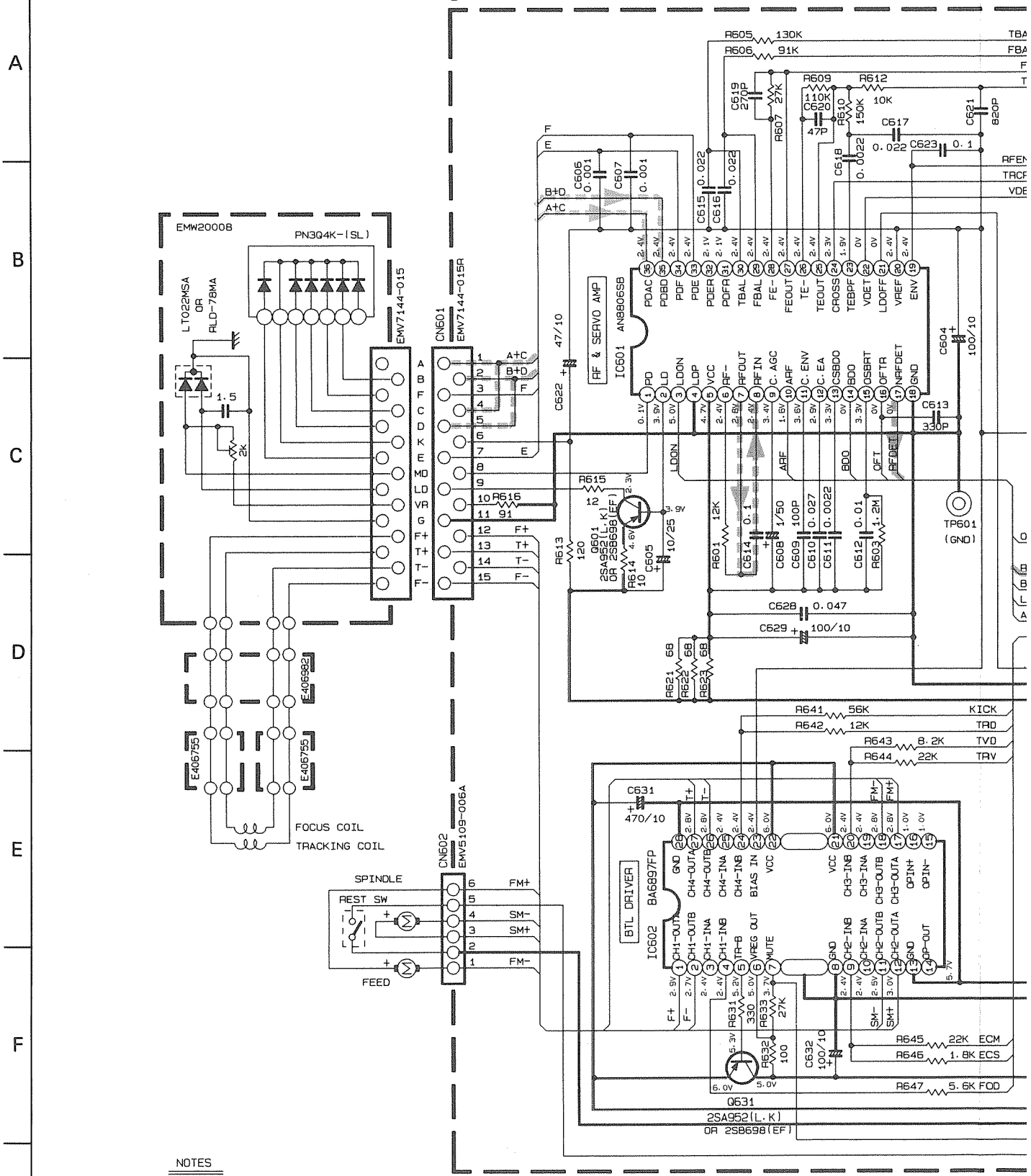


NO.	Q1			Q6			Q7			Q8		
NO.	E	C	B	E	C	B	E	C	B	E	C	B
NO SIGNAL	0	7.5	0.7	8.8	8.7	0	1.6	0	1.1	1.6	0	1.1
NO SIGNAL	0	0	0	8.8	0	8.7	1.6	0	1.1	1.6	0	1.1

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

FM Radio signal
LW Radio signal
MW Radio signal
+B Line

CD Servo Control Circuit : Drawing No.VDH1010-001CW



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
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 μF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).

Note : VDH1010001CW

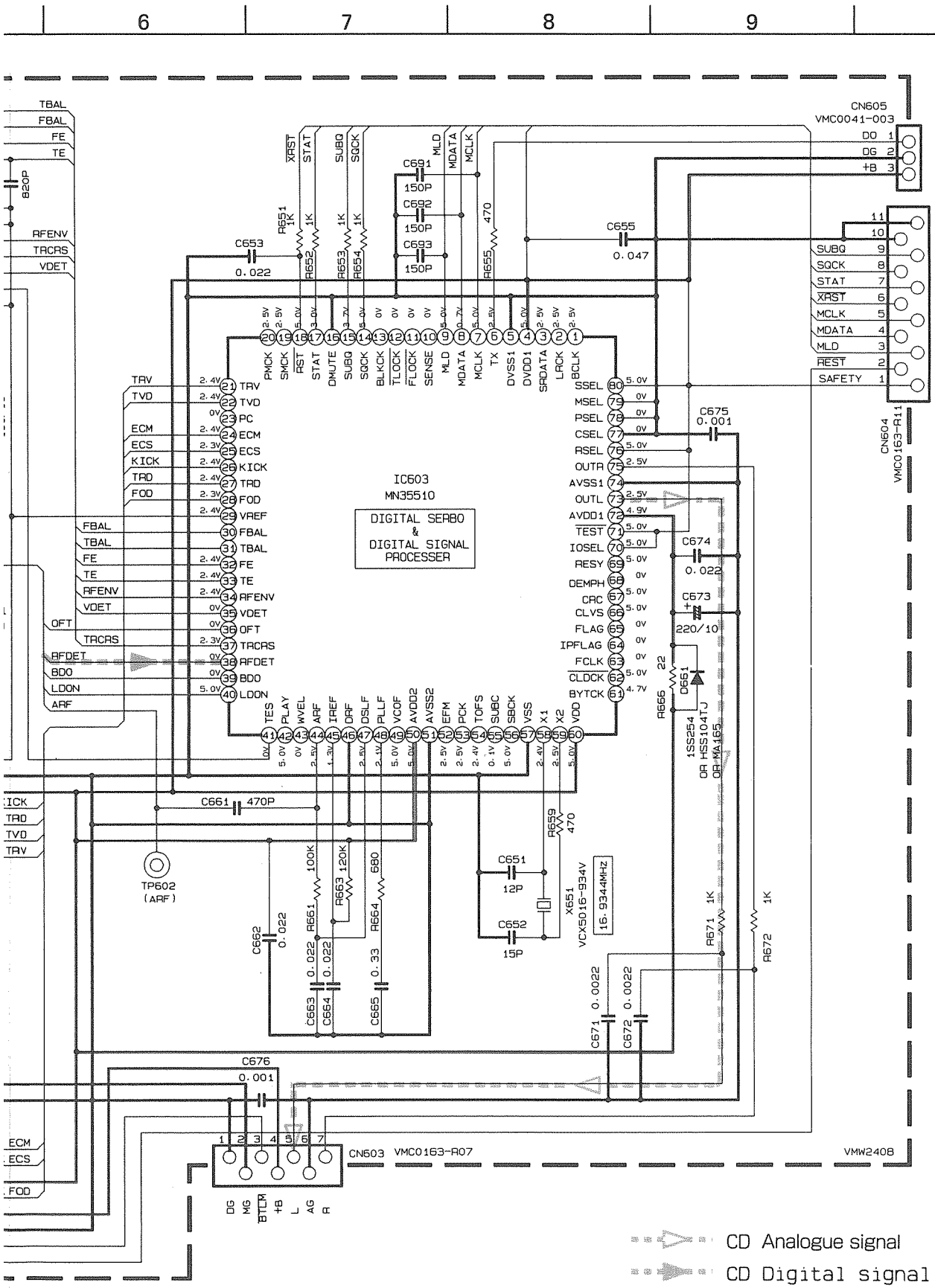
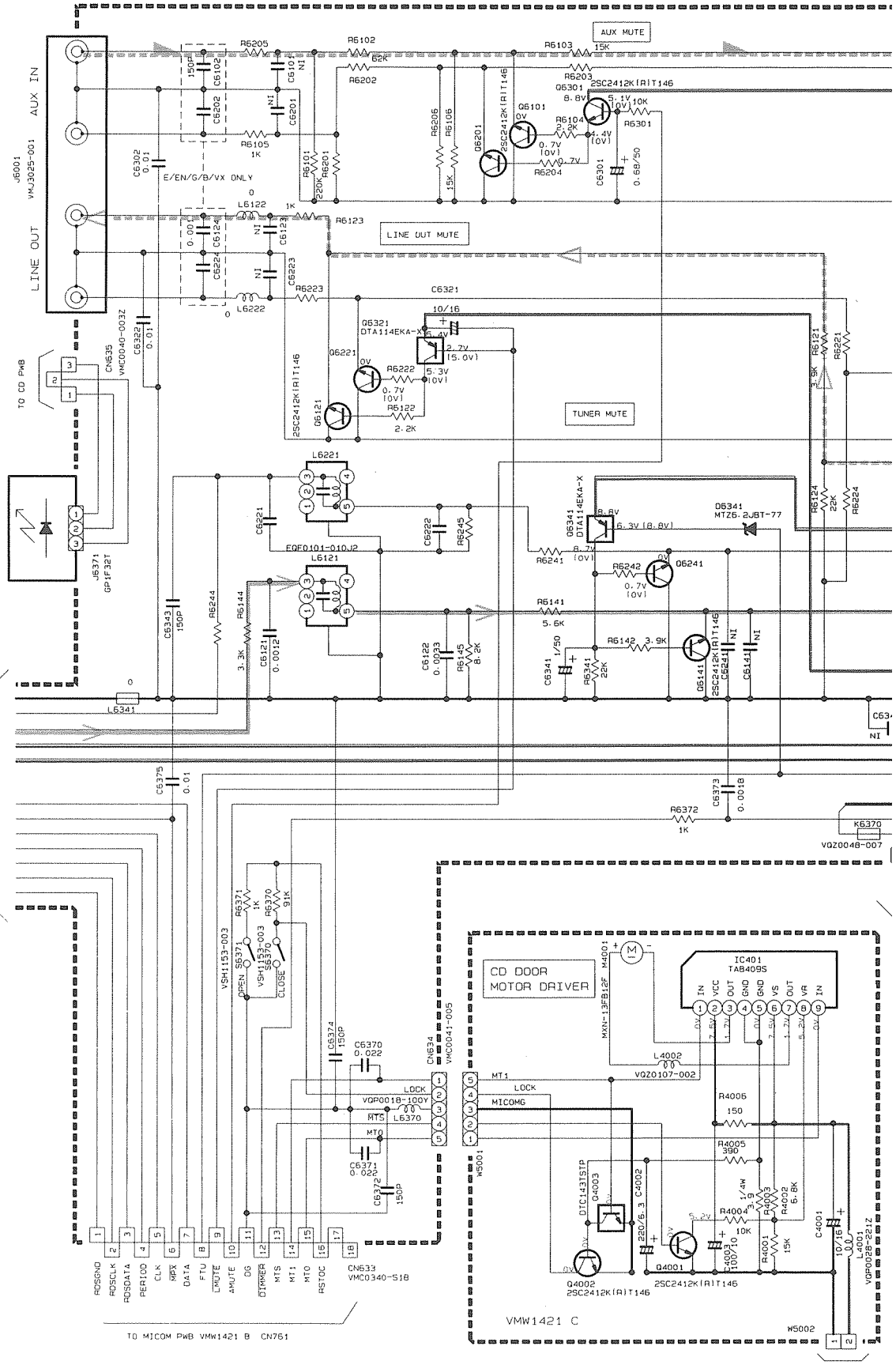

6
7
8
9
10
IC603
MN35510
DIGITAL SERBO
&
DIGITAL SIGNAL
PROCESSER
CN605
VMC0041-003
CN604
VMC0163-R11
CN603
VMC0163-R07
VMW2408
X651
VCX5016-934V
16.9344MHz
TP602
(ARF)
CD Analogue signal
CD Digital signal
+B Line

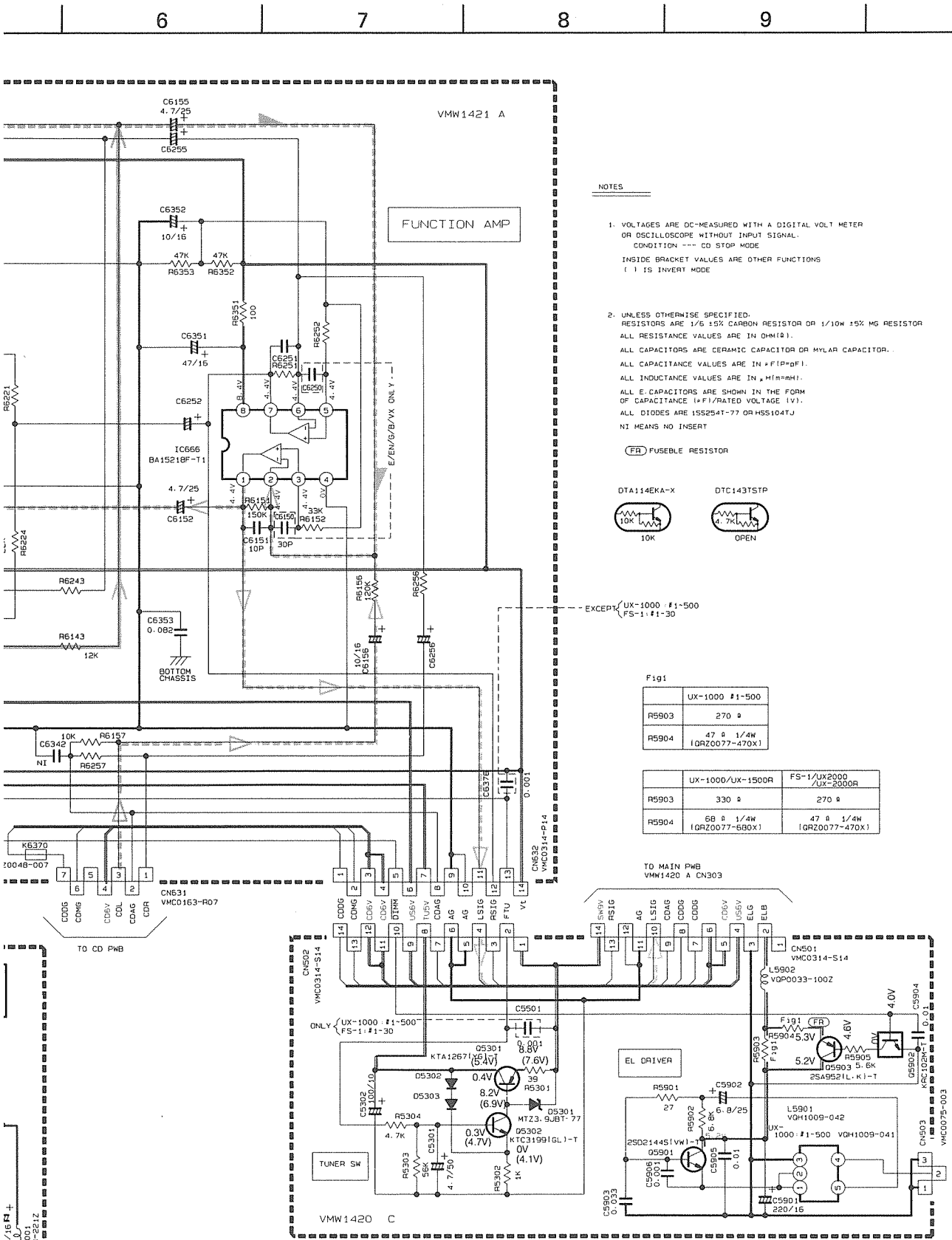
Fig.11-3

Function Amplifier Circuit : Drawing No.VDH9291-001FW

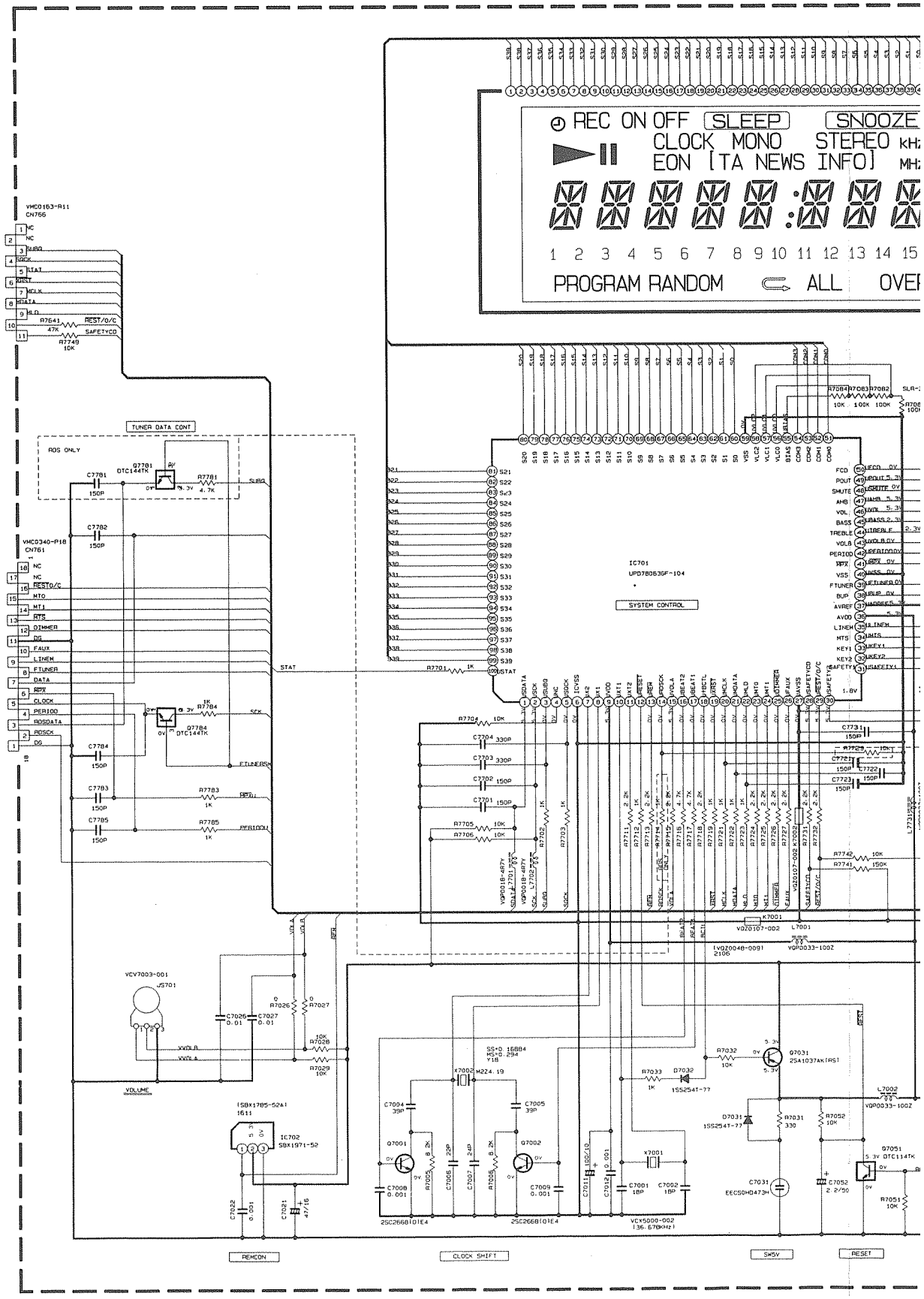


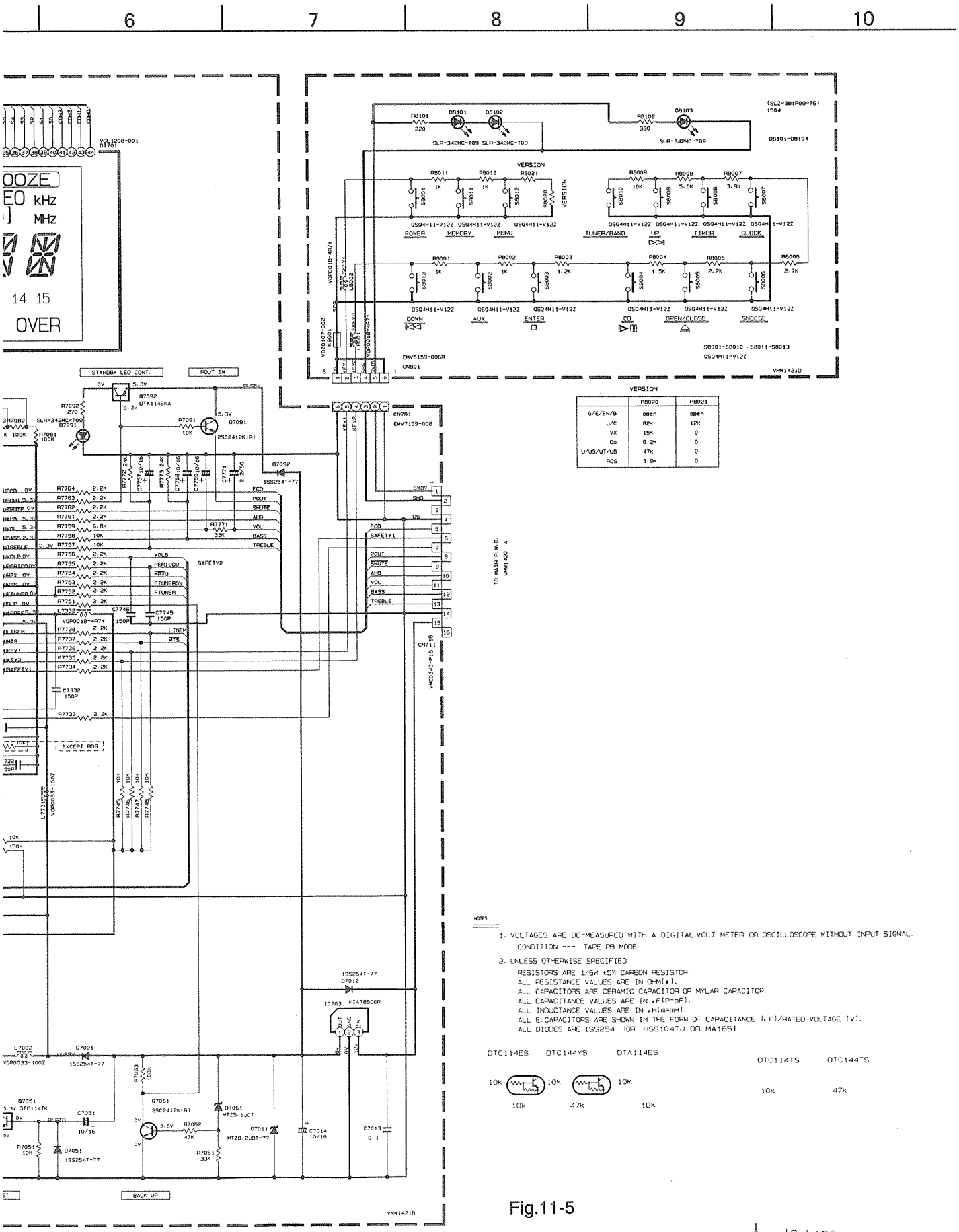
Note : VDH9291001FW

Fig.11-4


6
7
8
9
10
VMW1421 A
FUNCTION AMP
NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION --- CD STOP MODE
INSIDE BRACKET VALUES ARE OTHER FUNCTIONS
( ) IS INVERT MODE
2. UNLESS OTHERWISE SPECIFIED.
RESISTORS ARE 1/6 ±5% CARBON RESISTOR OR 1/10W ±5% MG RESISTOR
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 μH(m=mH).
ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
ALL DIODES ARE 1SS254T-77 OR HSS104TJ
NI MEANS NO INSERT
FA FUSEBLE RESISTOR
DTA114EKA-X
DTC143TSTP
10K
OPEN
EXCEPT UX-1000 : #1~500 FS-1 : #1-30
Fig1
UX-1000 #1-500
R5903 270 Ω
R5904 47 Ω 1/4W (QRZ0077-470X)
UX-1000/UX-1500R
FS-1/UX2000 /UX-2000R
R5903 330 Ω 270 Ω
R5904 68 Ω 1/4W (QRZ0077-680X) 47 Ω 1/4W (QRZ0077-470X)
TO MAIN PWB VMW1420 A CN303
TO CD PWB
CN631 VMC0163-R07
CN632 VMC0314-P14
CN502 VMC0314-S14
CN501 VMC0314-S14
L5902 VQP0033-100Z
EL DRIVER
TUNER SW
L5901 VQH1009-042
UX-1000 #1-500 VQH1009-041
VMW1420 C
MAIN PWB 1420 A CN301
L4001 VQP0028-221Z
CD Analogue Signal
FM Radio Signal
AUX IN Signal
+ B line
VDH9291-001FW
Dom/E/EN/G/VX/U/US/UB/UT/J/C
UX-1000, FS-1
UX-2000, FS-1000
UX-2000R, FS-2000
UX-1500R

LCD&System CPU Circuit : Drawing No.VDH9291-001SV

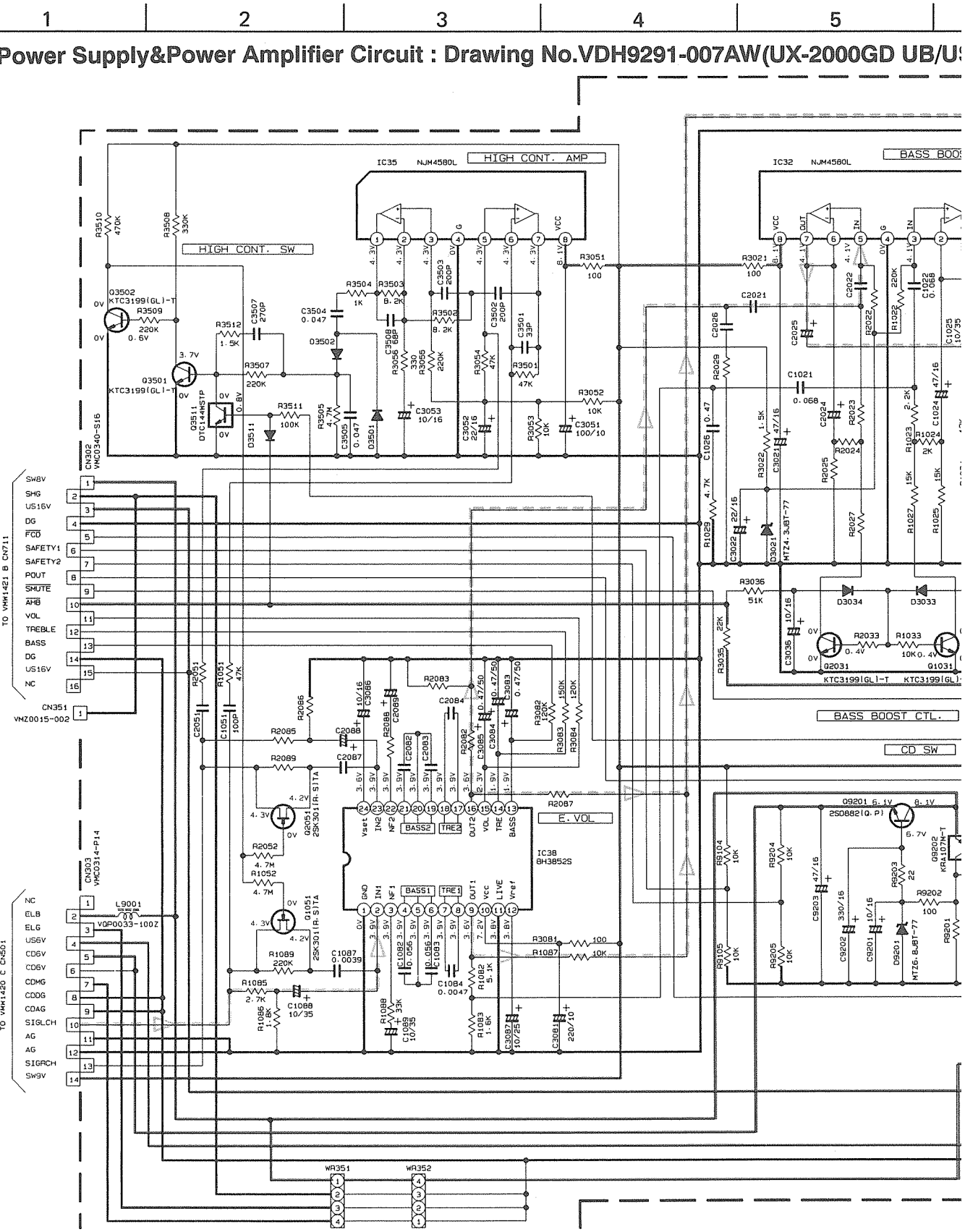




VERSION	R8020	R8021
G/E/EN/B	open	open
J/C	82K	12K
VX	15K	0
Da	8.2K	0
U/US/UT/UB	47K	0
RDS	3.9K	0

Fig.11-5

Power Supply&Power Amplifier Circuit : Drawing No.VDH9291-007AW(UX-2000GD UB/U



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 · RESISTORS ARE 1/6W ±5% CARE
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACI
ALL CAPACITANCE VALUES ARE IN μF(P=pF).
ALL INDUCTANCE VALUES ARE IN μH(m=mH).
ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANC
ALL DIODES ARE HSS104TJ OR 1SS254T-77

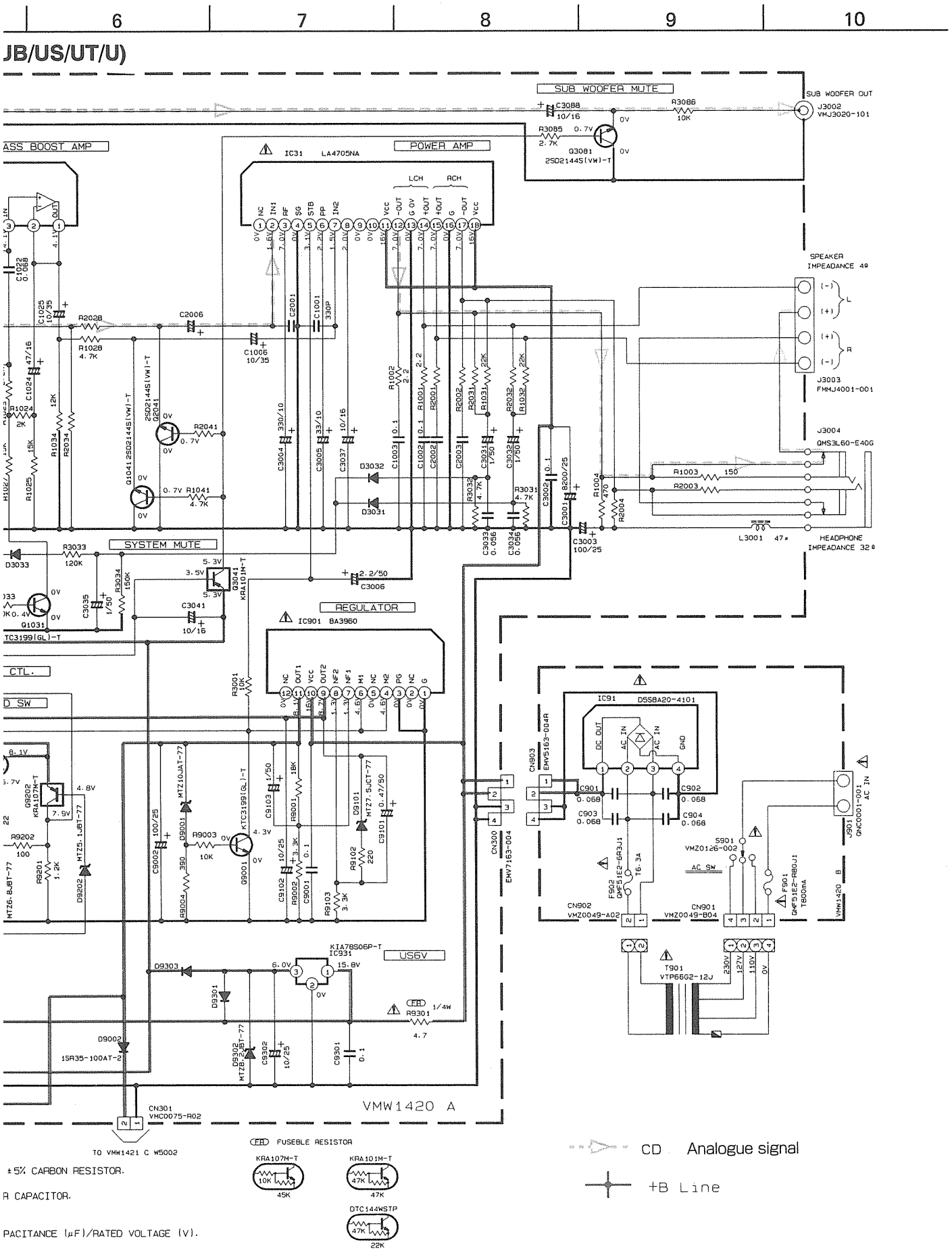
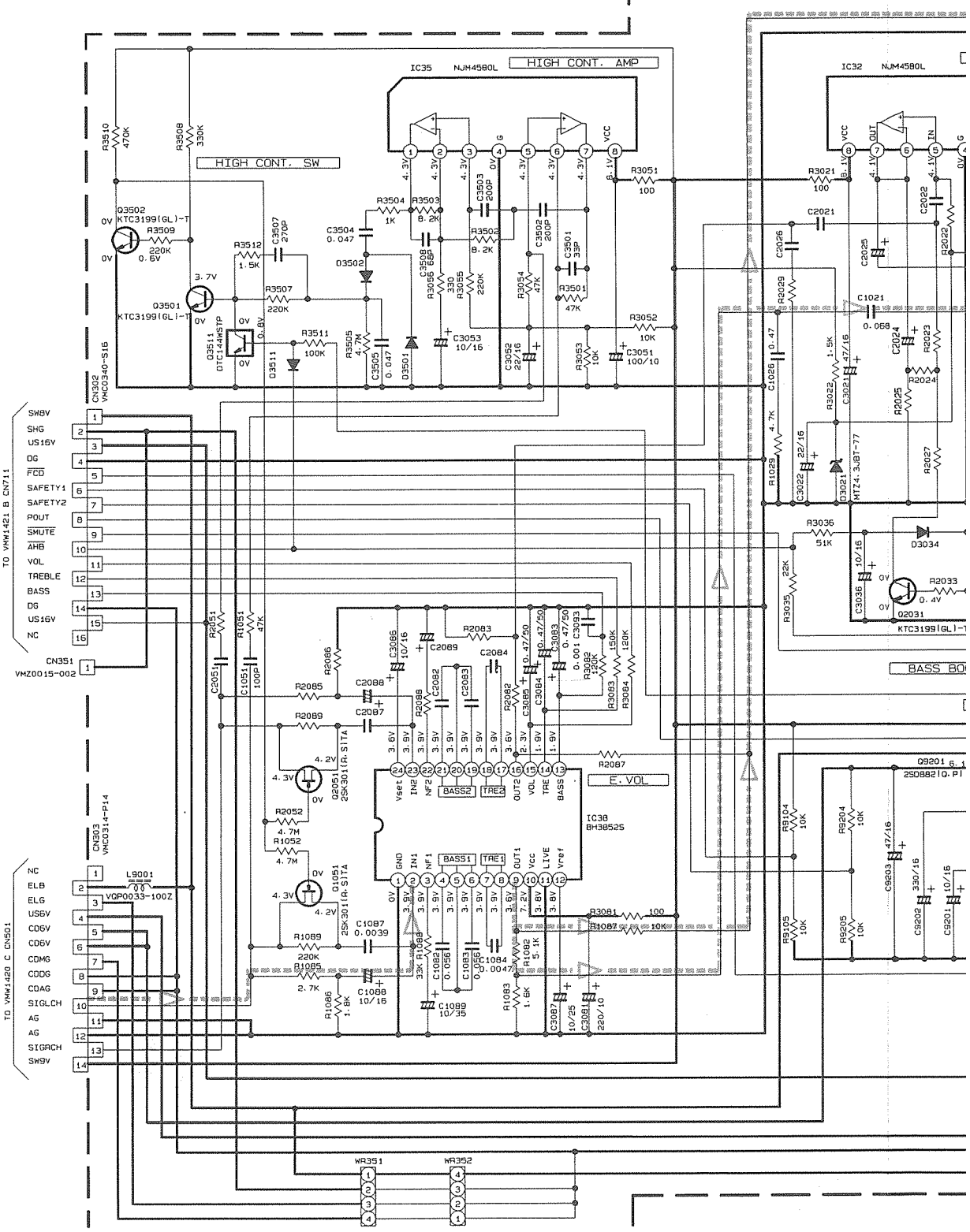

6
7
8
9
10
JB/US/UT/U)
SUB WOOFER MUTE
SUB WOOFER OUT
J3002
VMJ3020-101
C3088
10/16
R3086
10K
R3085
2.7K
Q3081
2SD2144S(VW)-T
ASS BOOST AMP
POWER AMP
IC31
LA4705NA
LCH
RCH
SPEAKER
IMPEADANCE 4Ω
J3003
FMMJ4001-001
J3004
QMS3L60-E40G
R1003
150
R2003
L3001
47μ
HEADPHONE
IMPEADANCE 32Ω
C3003
100/25
SYSTEM MUTE
Q3041
KRA101M-T
C3006
2.2/50
REGULATOR
IC901
BA3960
CTL.
D SW
IC91
D5S8A20-4101
DC OUT
AC IN
GND
CN903
EMY5163-004R
CN300
EMY7163-004
C901
C902
C903
C904
0.068
S901
VMZ0126-002
AC SW
F902
QMF51E2-6R3J1
T6.3A
F901
QMF51E2-R80J1
T800mA
CN902
VMZ0049-A02
CN901
VMZ0049-B04
VMW1420 B
AC IN
T901
VTP66G2-12J
230V
127V
110V
0V
KIA78S06P-T
IC931
US6V
6.0V
15.8V
R9301
1/4W
4.7
D9002
1SR35-100AT-2
CN301
VMC0075-R02
TO VMW1421 C W5002
VMW1420 A
FB FUSEBLE RESISTOR
KRA107M-T
10K
45K
KRA101M-T
47K
47K
DTC144WSTP
47K
22K
CD Analogue signal
+B Line
±5% CARBON RESISTOR.
R CAPACITOR.
PACITANCE (μF)/RATED VOLTAGE (V).

Fig.11-6

Power Supply&Power Amplifier Circuit : Drawing No.VDH9291-008AW(UX-2000GD VX)

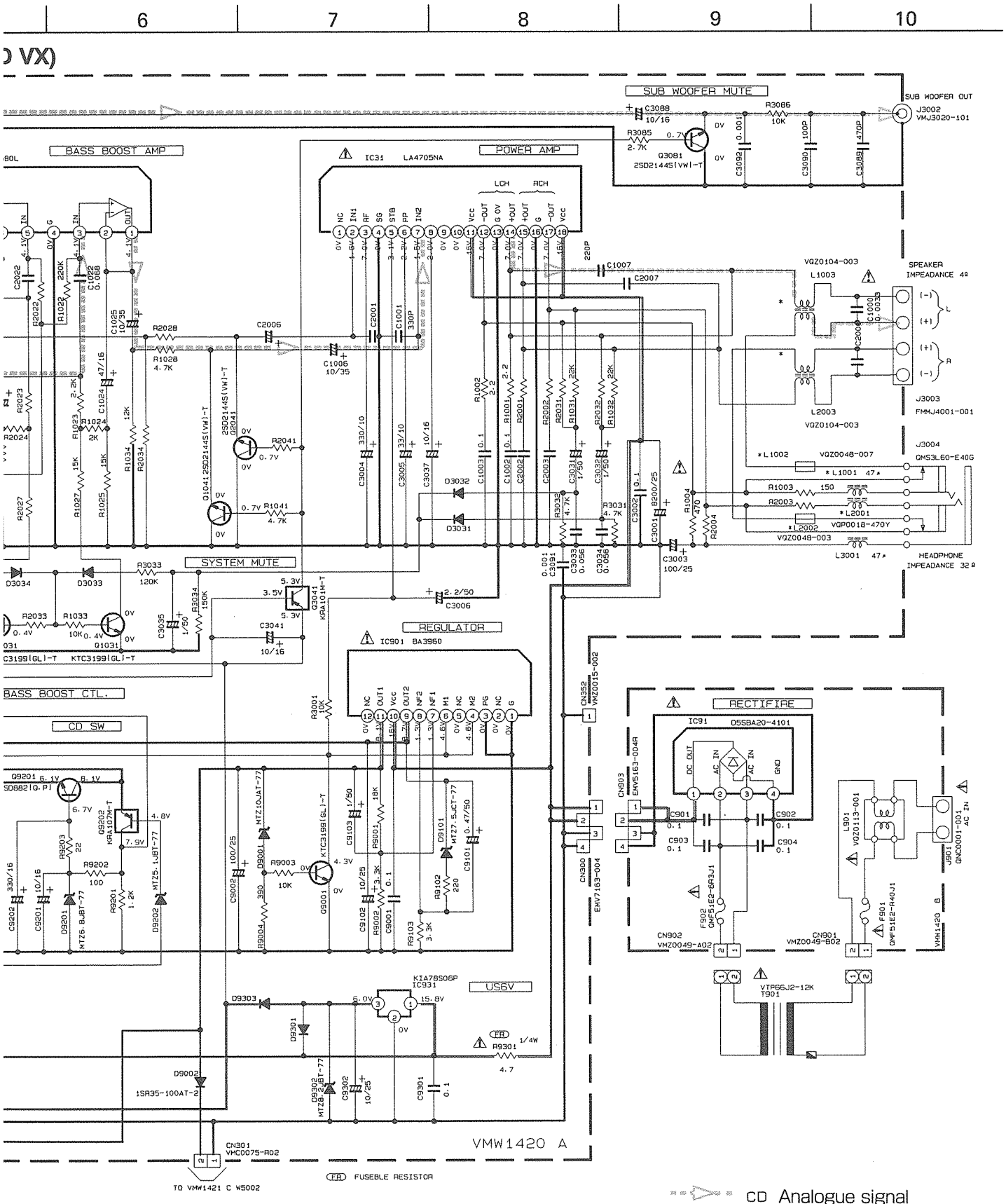


NOTES

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

2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MY
ALL CAPACITANCE VALUES ARE IN μF(P=pF).
ALL INDUCTANCE VALUES ARE IN μH(m=mH).
ALL E.CAPACITORS ARE SHOWN IN THE FORM OF
ALL DIODES ARE HSS104TJ OR 1SS254T-77

Note : VDH9291008AW



RS ARE 1/6W ±5% CARBON RESISTOR.
).
TOR OR MYLAR CAPACITOR.
=pF).
=mH).
FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
2SD2144T-77