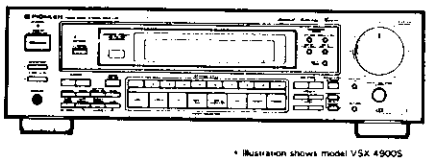
PIONEER®
The Art of Entertainment

PC-1

Service Manual



* Illustration shows model VSX 4900S

ORDER NO.
ARZ2263

AUDIO/VIDEO STEREO RECEIVER

VSX-4900S
VSX-4800
VSX-51

CIRCUIT DIAGRAMS &
PATTERN LAYOUTS
WITH MICROFICHE

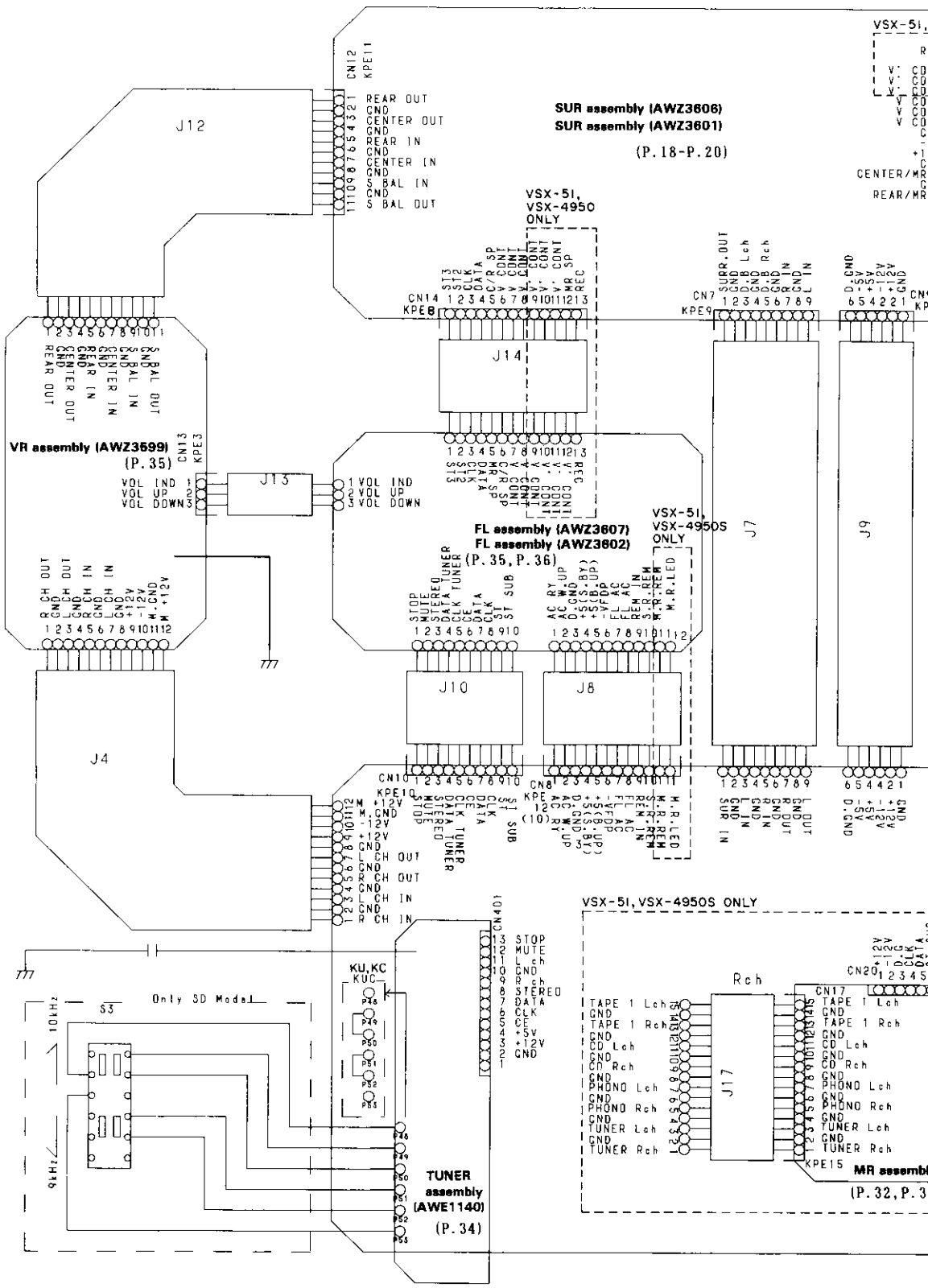
(MICROFICHE PORTION LOCATED INSIDE BACK COVER)

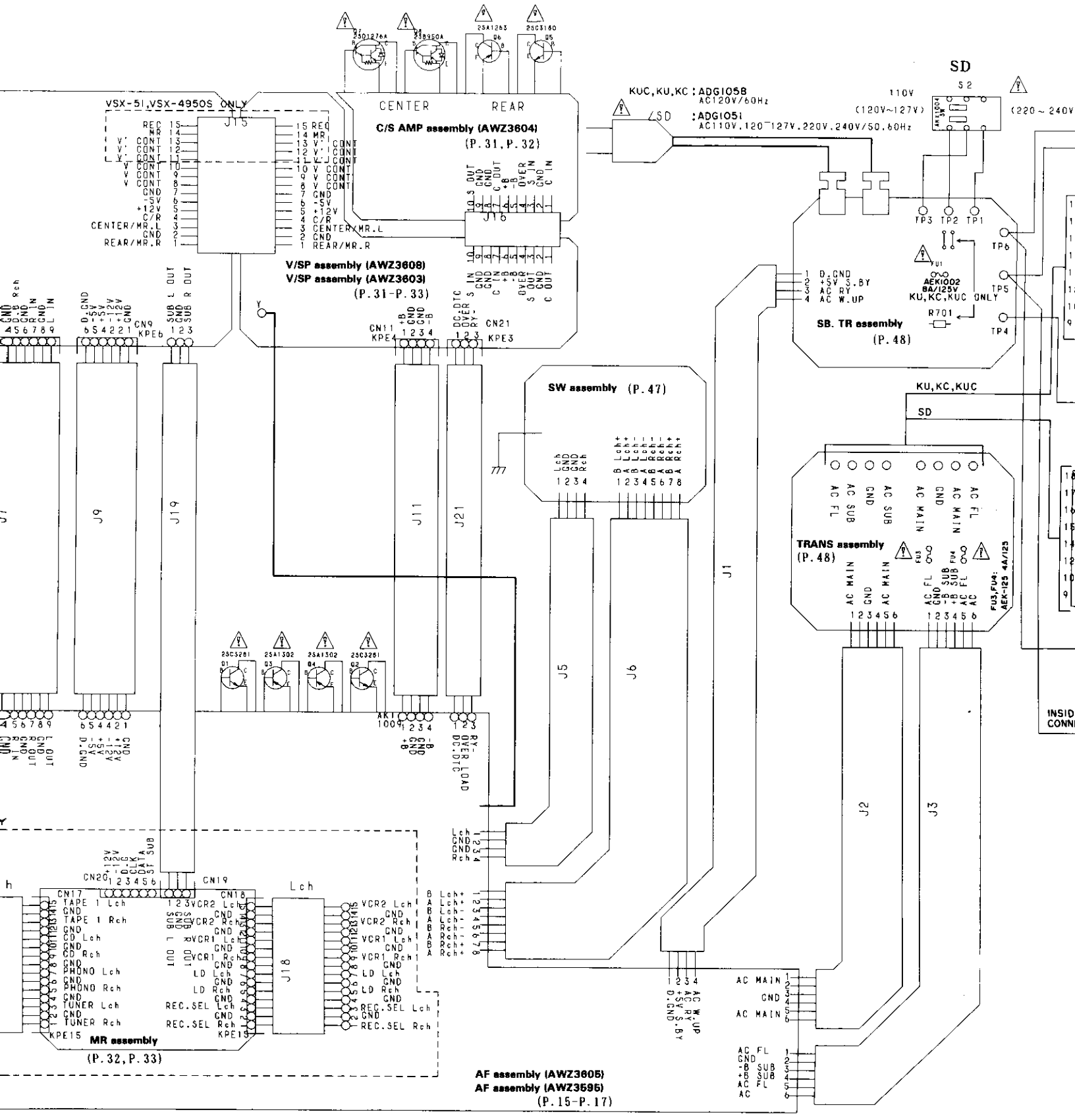
PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan
PIONEER ELECTRONICS SERVICE INC. P.O. Box 1760, Long Beach, California 90801 U.S.A.
PIONEER ELECTRONICS OF CANADA, INC. 505 Cochrane Drive, Markham, Ontario L3R 8E3 Canada
PIONEER ELECTRONIC [EUROPE] N.V. Keetberglaan 1, 9120 Beveren, Belgium
PIONEER ELECTRONICS AUSTRALIA PTY. LTD. 178-184 Boundary Road, Braeside, Victoria 3195, Australia TEL: [03] 580-9911

YV MAY 1991 Printed in Japan

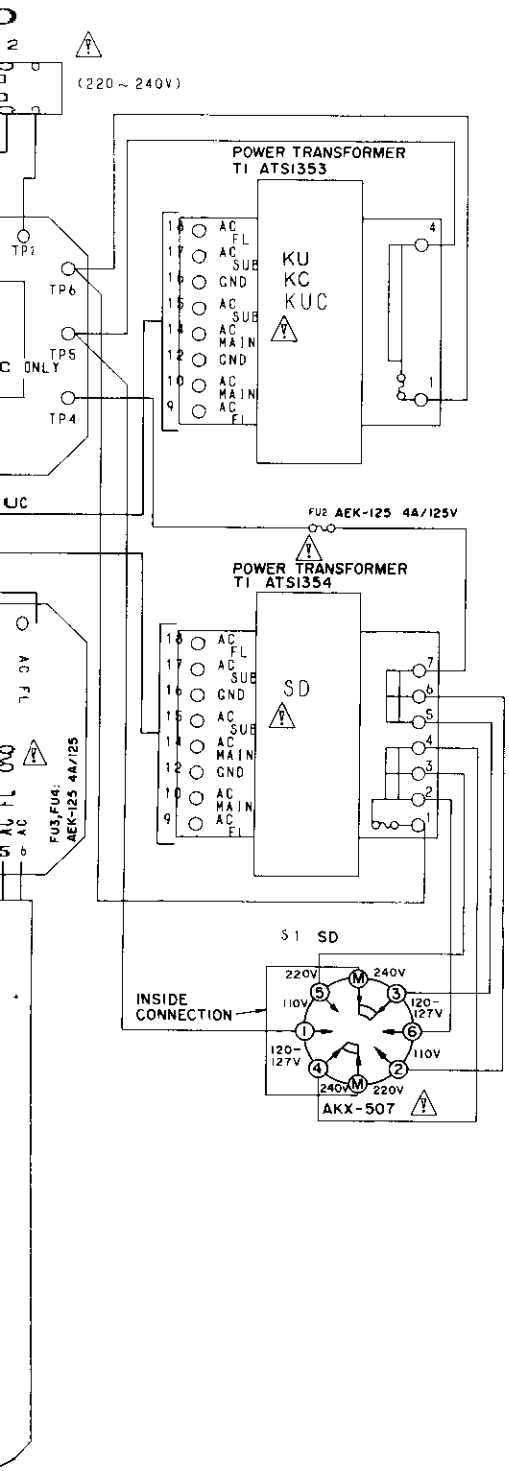
4. SCHEMATIC AND P.C.BOARDS CONNECTION DIAGRAM

4.1 OVER ALL SCHEMATIC DIAGRAM





— :FRONT SIGNAL
— :TUNER AM SIGNAL
— :DOLBY PROLOGIC FRONT SIGNAL
— :DOLBY PROLOGIC CENTER SIGNAL
— :DOLBY PROLOGIC SUB(REAR) SIGNAL
— :MR(MULTI ROOM) SIGNAL



1. RESISTORS:
Indicated in Ω, ¼W, ⅛W, ±5% tolerance unless otherwise noted k : kΩ, M : MΩ, (F) : ±1%, (G) : ±2%, (K) : ±10% (M); ±20% tolerance

2. CAPACITORS:
Indicated in capacity (μF)/voltage (V) unless otherwise noted p : pF
Indication without voltage is 50V except electrolytic capacitor.

3. VOLTAGE, CURRENT:
▭ : Signal voltage at (100W + 100W 8Ω :FRONT) output (1kHz)
(18W + 18W 8Ω : REAR, 20W 8Ω : CENTER
▭ : DC voltage (V) at no input signal
Value in ( ) is DC voltage at rated power.
⇦ mA : DC current at no input signal

4. OTHERS:
➡ : Signal route.
⊘ : Adjusting point.
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
※ marked capacitors and resistors have parts numbers.

This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

SWITCHES:

SW assembly

S581	SP-A / SP-B	

FL assembly

S1001	DELAY TIME	S1031	5
S1002	3CH LOGIC	S1032	4
S1004	DOLBY PRO LOGIC	S1033	3
S1005	SIMULAT	S1034	2
S1006	STUDIO	S1035	1
S1007	RETURN	S1036	HITS
S1008	MUTING	S1037	DIRECT ACCESS
S1009	ACOUSTIC MEMORY	S1038	AUTO/MANUAL
S1010	BASS UP	S1039	FM AUTO MONO
S1011	BASS DOWN	S1040	SCAN
S1012	ACOUSTIC SELECT	S1041	SELECT
S1013	TABLE UP	S1042	(NAME)
S1014	TREBLE DOWN	S1043	STATION MEMORY
S1015	SIMULAT STEREO	S1044	FM/AM
S1016	BALANCE R	S1045	FREQ UP
S1017	BALANCE L	S1046	FREQ DOWN
S1018	PHONO	S1047	VIDEO SELECT
S1019	TUNER	S1048	REC SELECT
S1020	CD		(VSX-51,VSX-4950S ONLY)
S1021	LD	S1049	M,R & SOUSE
S1022	VCR 1	S1050	POWER ON/OFF
S1023	VCR 2		
S1024	TAPE 1	S1	VOLTAGE SELECTOR (ONLY SD MODEL) 110V-127V ↔ 220V-240V
S1025	TAPE 2	S2	VOLTAGE SELECTOR (ONLY SD MODEL) 110,120-127V,220,240V
S1026	0/10	S3	BAND SELECTOR (AM:10kHz / FM:100kHz) ↕ (AM: 9kHz / FM: 50kHz)
S1027	9		
S1028	8		
S1029	7		
S1030	6		

10

This P.C.B. connection diagram is viewed from the foil side.

※ : VSX-49005/KUC, VSX-4800/KUC, SD types

* : VSX-51/KU and VSX-49505/KC types only

To FL assembly 110
(To page 39)

To TUNERassembly CN401
(To page 37)

To VR assembly 14
(To page 39)

Q2 Q4 Q3

ANP1489-A

IC304 IC108 Q2 IC103 IC109 0552 0522 04 0554 0542 0541 0523 03 05
IC104 IC101 IC102 0504 0502 IC106 0524 0514 0518 0501 0503
IC105

To MR assembly CN17
(To page 29)

To MR assembly CN20
(To page 29)

To MR assembly J18
(To page 28)

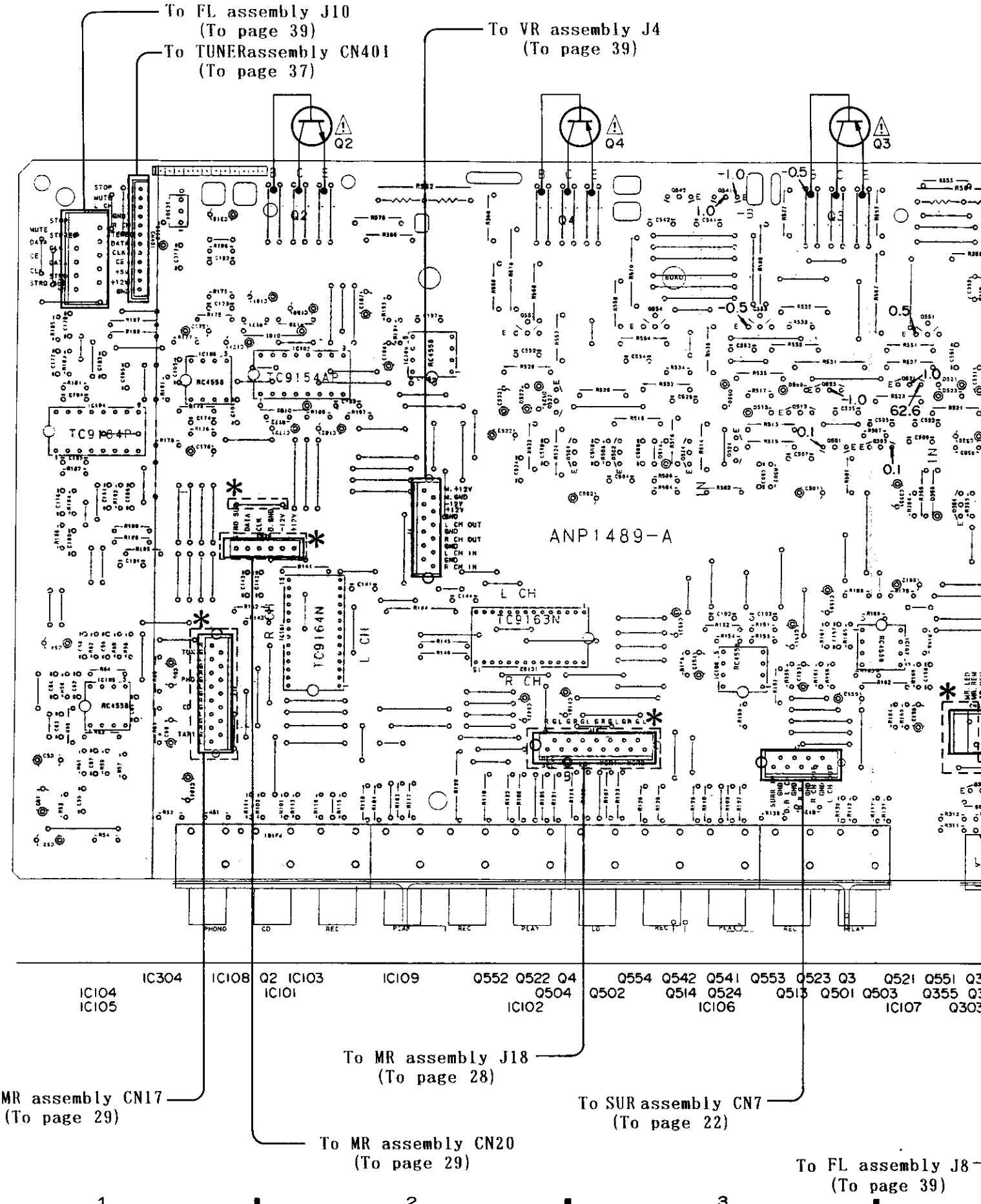
To SUB assembly CN7
(To page 22)

To FL assem
(To page

※ : VSX－4900S/KUC, VSX－4800/KUC, SD types only

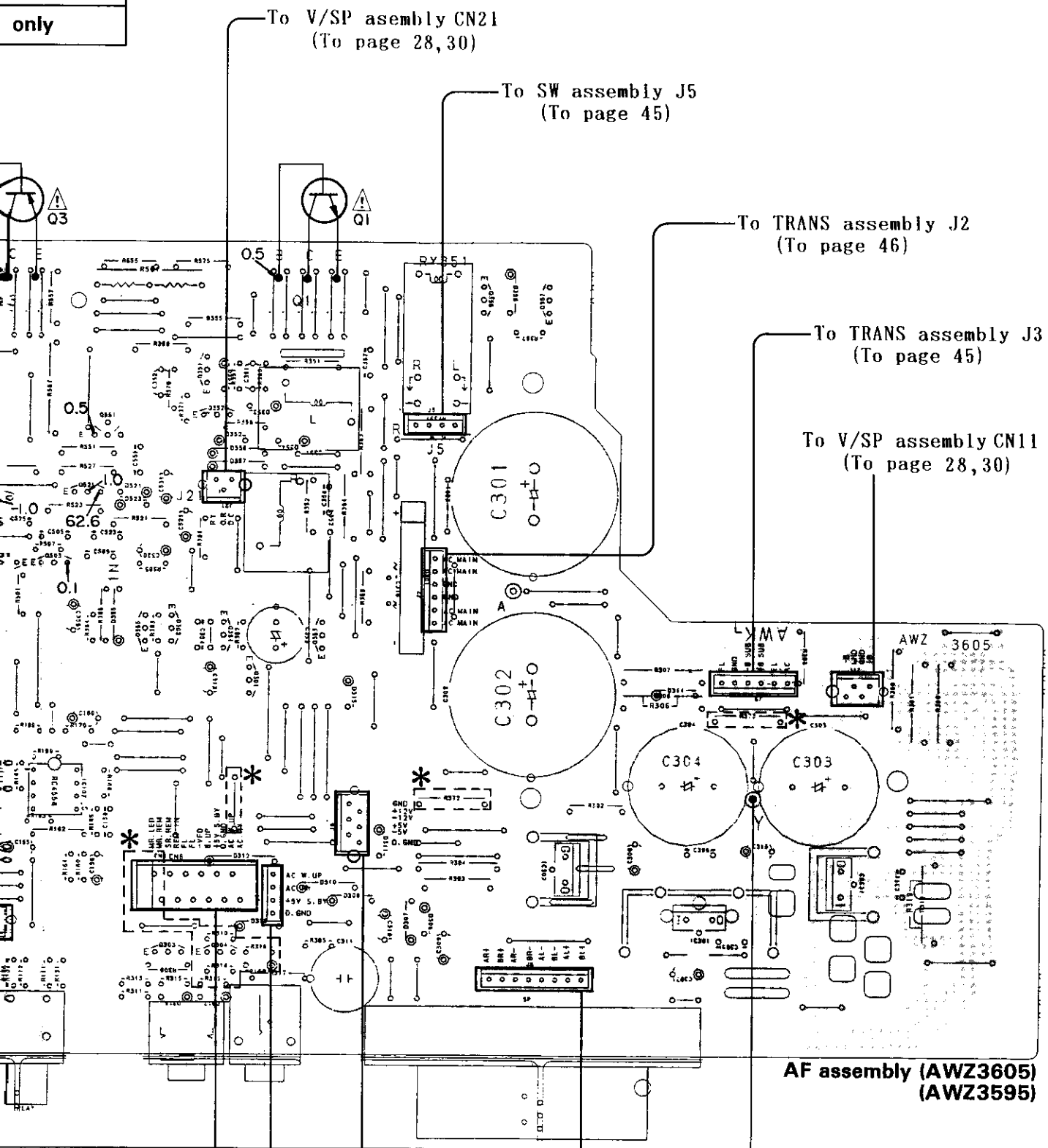
＊ : VSX－51/KU and VSX－4950S/KC types only

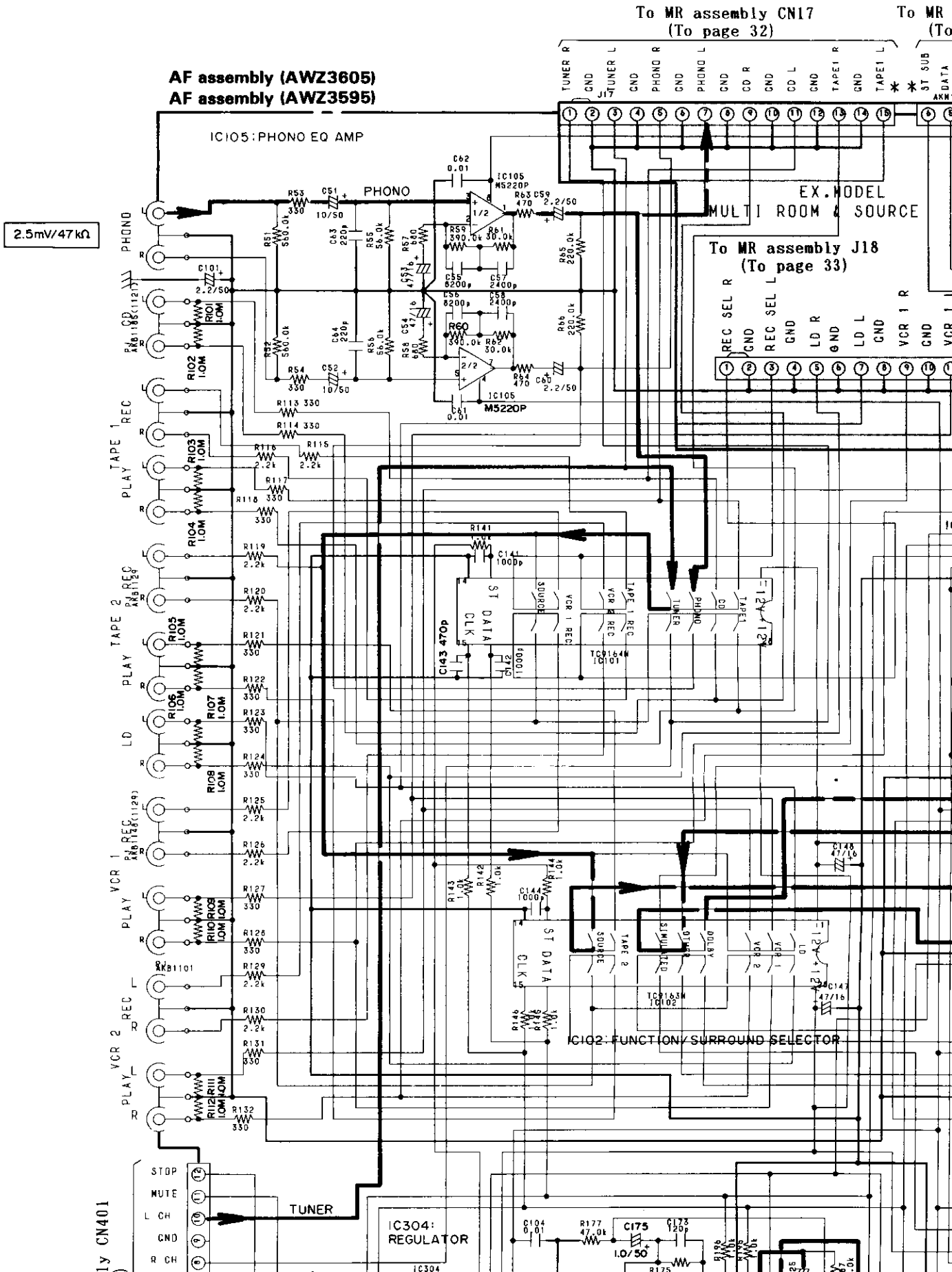
4.2 AF assembly (AWZ3605)

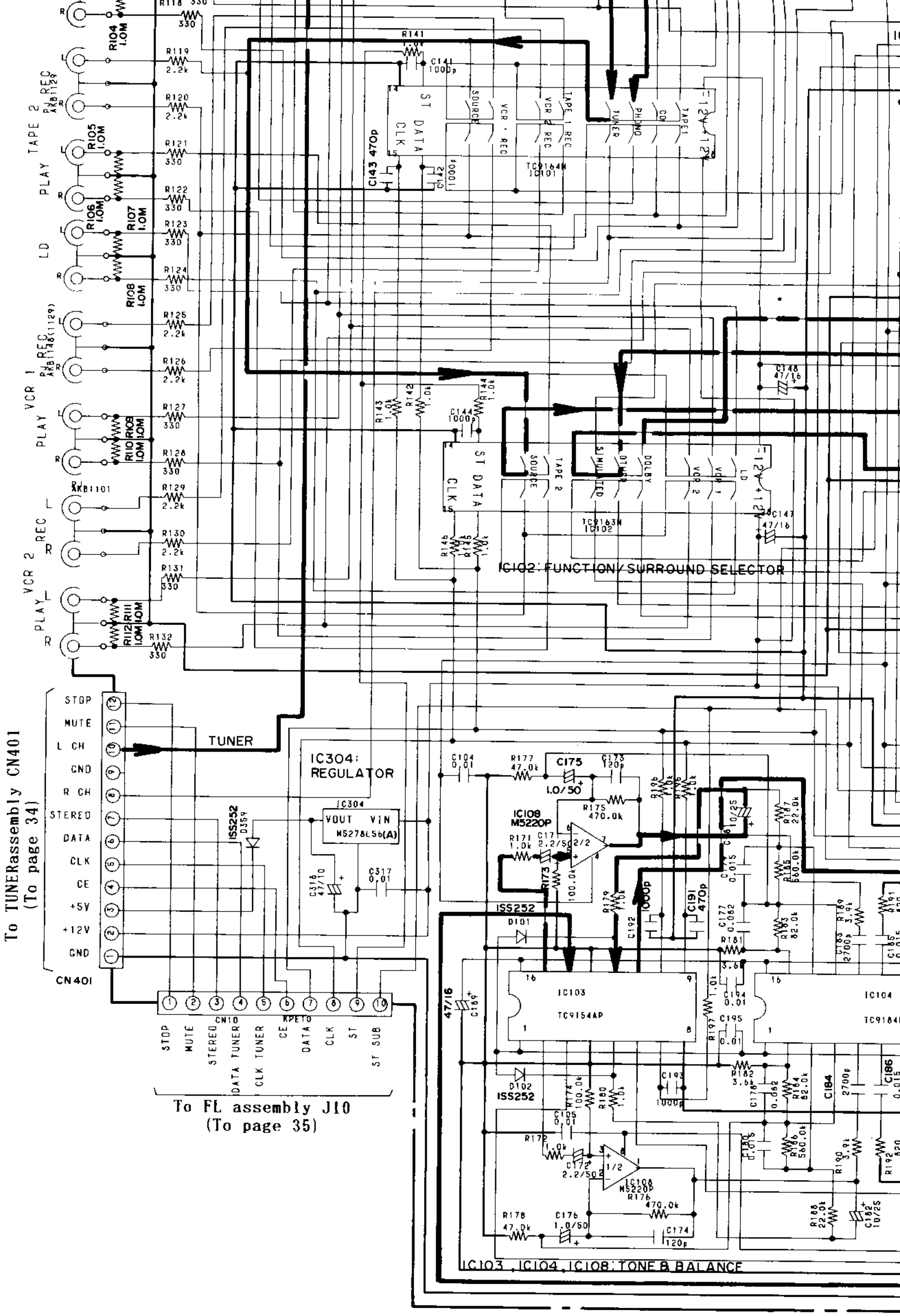


types only

only

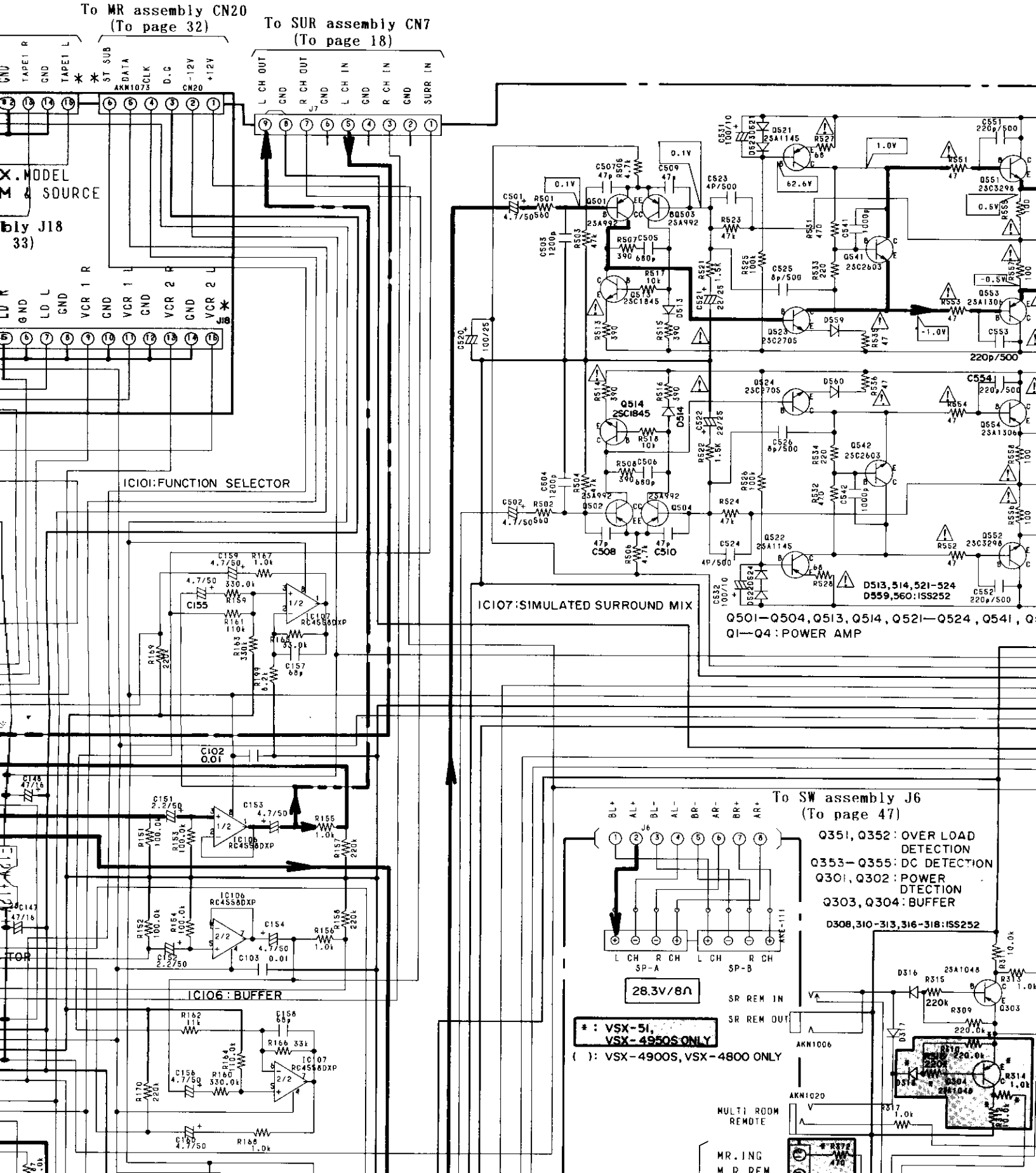


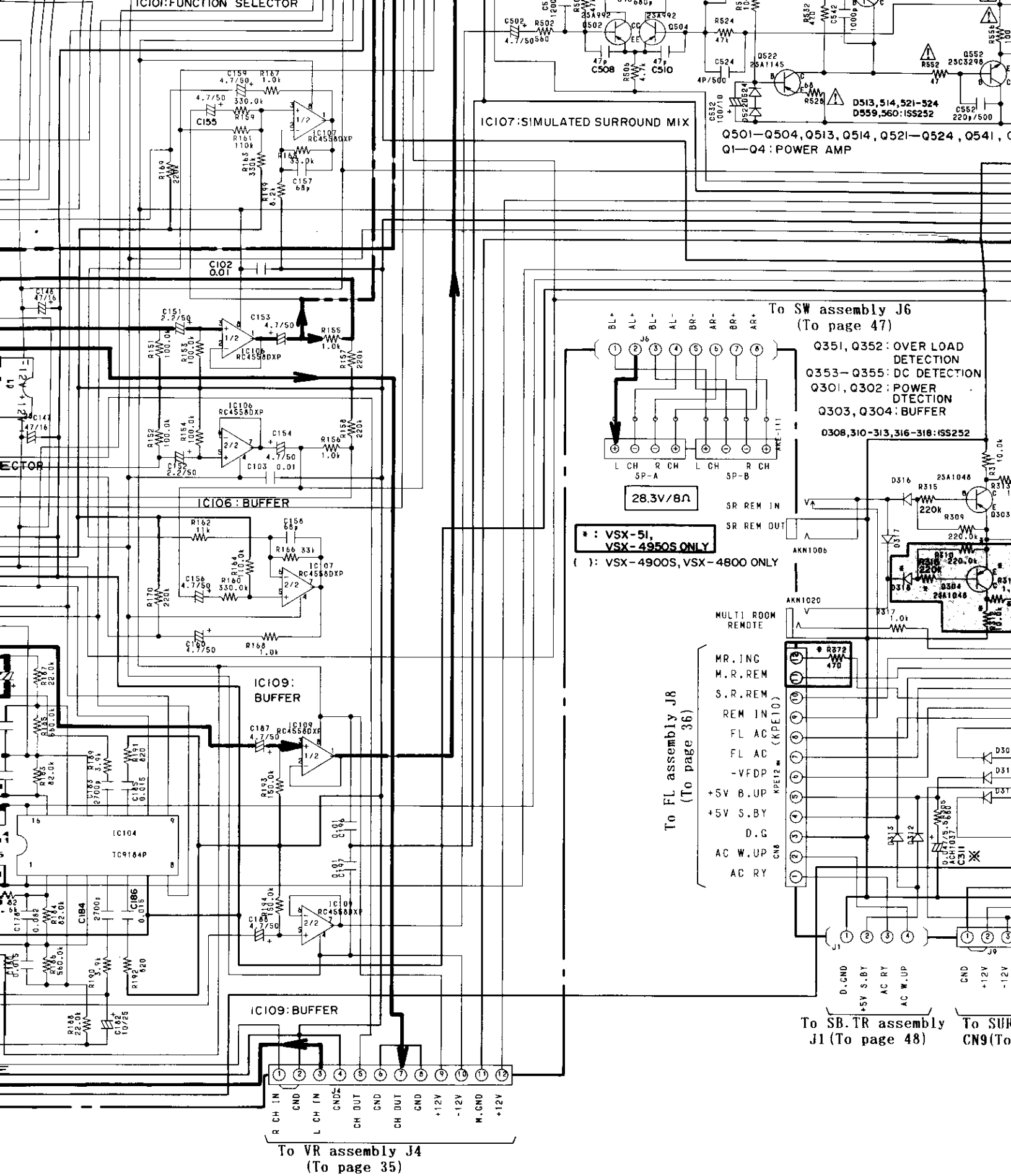

AF assembly (AWZ3605)
AF assembly (AWZ3595)
IC105:PHONO EQ AMP
2.5mV/47kΩ
To MR assembly CN17
(To page 32)
To MR assembly J18
(To page 33)
EX.MODEL
MULTI ROOM & SOURCE
PHONO
CD
TAPE 1 REC
PLAY
TAPE 2 REC
PLAY
LD
VCR 1 REC
PLAY
VCR 2 REC
PLAY
IC105 M5220P
IC101 TC9164N
IC102 TC9163N
IC102: FUNCTION/SURROUND SELECTOR
IC304: REGULATOR
TUNER
ST DATA CLK
STOP
MUTE
L CH
GND
R CH


TAPE 2 PLAY
REC
VCR 1 PLAY
VCR 2 PLAY
LD
ST DATA CLK
TC9164N IC101
TC9163N IC102
IC102: FUNCTION/SURROUND SELECTOR
SOURCE
VCR · REC
VCR 2 REC
TAPE 1 REC
TUNER
PHONO
CD
TAPE1
TAPE 2
SIMULATED
DOLBY
VCR 2
VCR 1
TUNER
IC304: REGULATOR
VOUT VIN
M5278L56(A)
STOP
MUTE
L CH
GND
R CH
STEREO
DATA
CLK
CE
+5V
+12V
GND
CN401
To TUNERassembly CN401
(To page 34)
CN10
KPE10
STOP
MUTE
STEREO
DATA TUNER
CLK TUNER
CE
DATA
CLK
ST
ST SUB
To FL assembly J10
(To page 35)
IC108
M5220P
IC103
TC9154AP
IC104
IC103, IC104, IC108: TONE & BALANCE

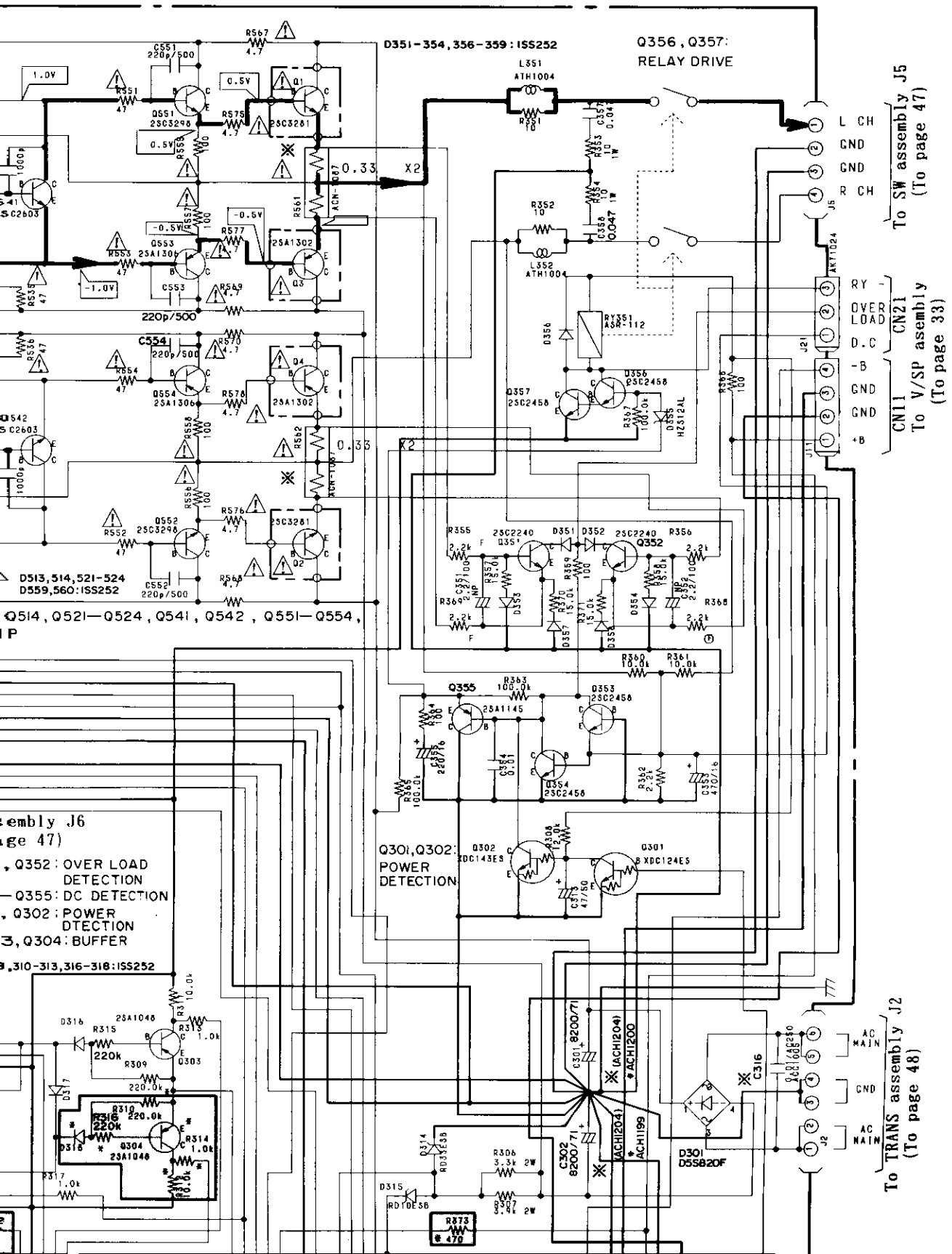
15

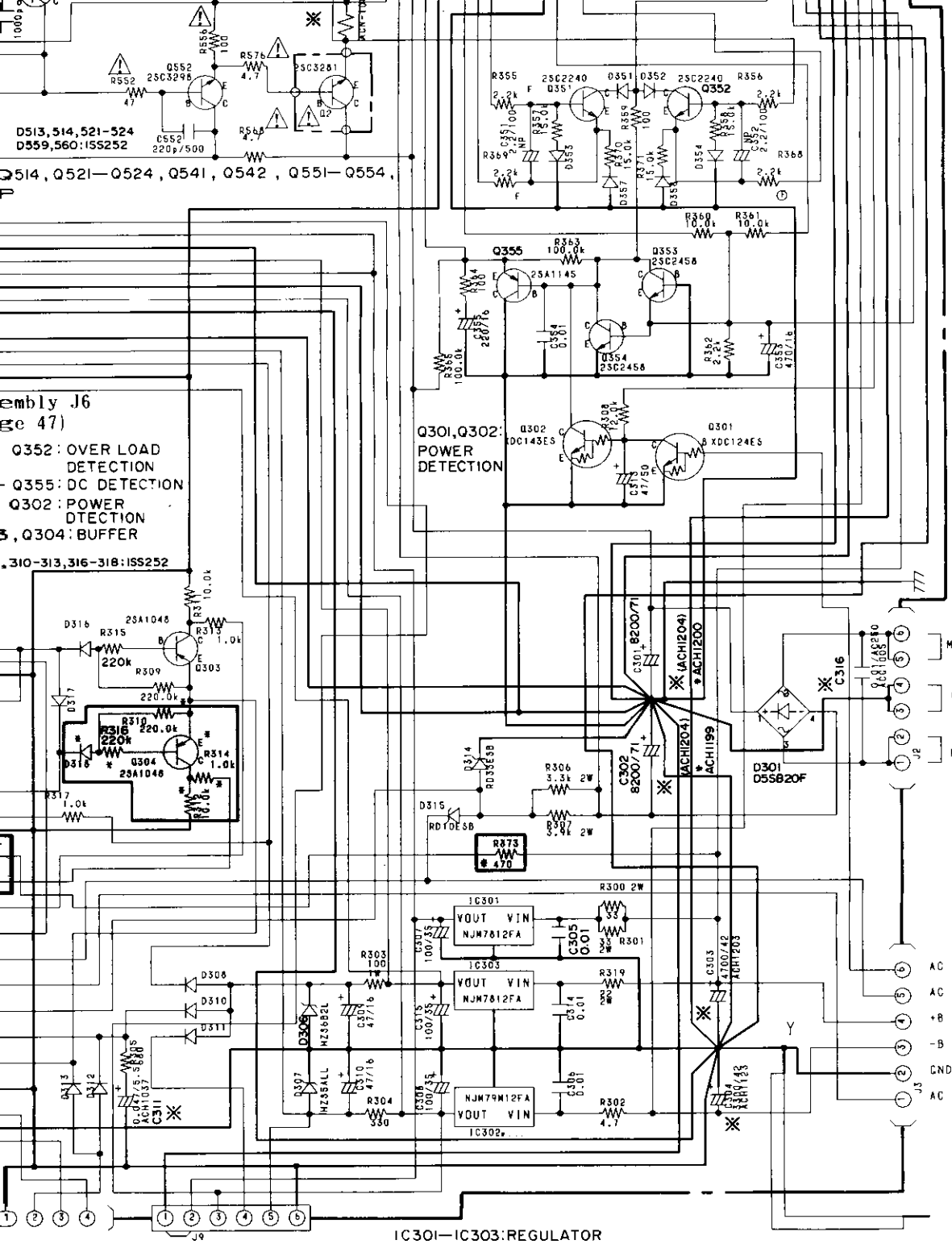
1 2 3


To MR assembly CN20
(To page 32)
To SUR assembly CN7
(To page 18)
AKN1073
CN20
J7
J18
ST SUB
DATA
CLK
D.C
-12V
+12V
L CH OUT
GND
R CH OUT
L CH IN
R CH IN
SURR IN
VCR 1 R
VCR 1 L
VCR 2 R
VCR 2 L
ICIOI:FUNCTION SELECTOR
IC107:SIMULATED SURROUND MIX
Q501—Q504, Q513, Q514, Q521—Q524, Q541, Q
Q1—Q4 : POWER AMP
D513,514,521-524
D559,560:ISS252
To SW assembly J6
(To page 47)
Q351, Q352 : OVER LOAD DETECTION
Q353—Q355: DC DETECTION
Q301, Q302 : POWER DTECTION
Q303, Q304 : BUFFER
D308,310-313,316-318:ISS252
SP-A
SP-B
28.3V/8Ω
SR REM IN
SR REM OUT
AKN1006
* : VSX-51, VSX-4950S ONLY
( ): VSX-4900S, VSX-4800 ONLY
AKN1020
MULTI ROOM REMOTE
IC106 : BUFFER

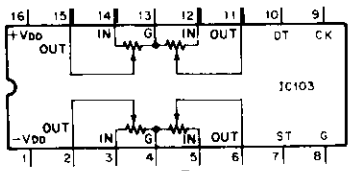

IC101:FUNCTION SELECTOR
IC107:SIMULATED SURROUND MIX
Q501—Q504,Q513,Q514,Q521—Q524,Q541,
Q1—Q4:POWER AMP
D513,514,521-524
D559,560:1SS252
IC106:BUFFER
IC109:
BUFFER
IC109:BUFFER
IC104
TC9184P
To SW assembly J6
(To page 47)
Q351,Q352:OVER LOAD
DETECTION
Q353—Q355:DC DETECTION
Q301,Q302:POWER
DTECTION
Q303,Q304:BUFFER
D308,310-313,316-318:1SS252
L CH R CH L CH R CH
5P-A 5P-B
28.3V/8Ω
* : VSX-51,
VSX-4950S ONLY
( ): VSX-4900S,VSX-4800 ONLY
SR REM IN
SR REM OUT
AKN1006
AKN1020
MULTI ROOM
REMOTE
To FL assembly J8
(To page 36)
MR.ING
M.R.REM
S.R.REM
REM IN
FL AC
FL AC
-VFDP
+5V B.UP
+5V S.BY
D.G
AC W.UP
AC RY
To SB.TR assembly
J1 (To page 48)
To SUR
CN9(To
R CH IN
GND
L CH IN
GND
CH OUT
GND
CH OUT
GND
+12V
-12V
M.GND
+12V
To VR assembly J4
(To page 35)

16

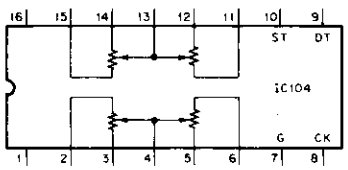

D351-354,356-359:ISS252
Q356,Q357:
RELAY DRIVE
L CH
GND
GND
R CH
To SW assembly J5
(To page 47)
RY
OVER LOAD
D.C
CN21
To V/SP asembly
(To page 33)
-B
GND
GND
+B
CN11
D513,514,521-524
D559,560:ISS252
Q514,Q521—Q524,Q541,Q542,Q551—Q554,
Q352: OVER LOAD DETECTION
Q355: DC DETECTION
Q302: POWER DTECTION
Q303,Q304: BUFFER
Q301,Q302:
POWER
DETECTION
AC MAIN
GND
AC MAIN
To TRANS assembly J2
(To page 48)



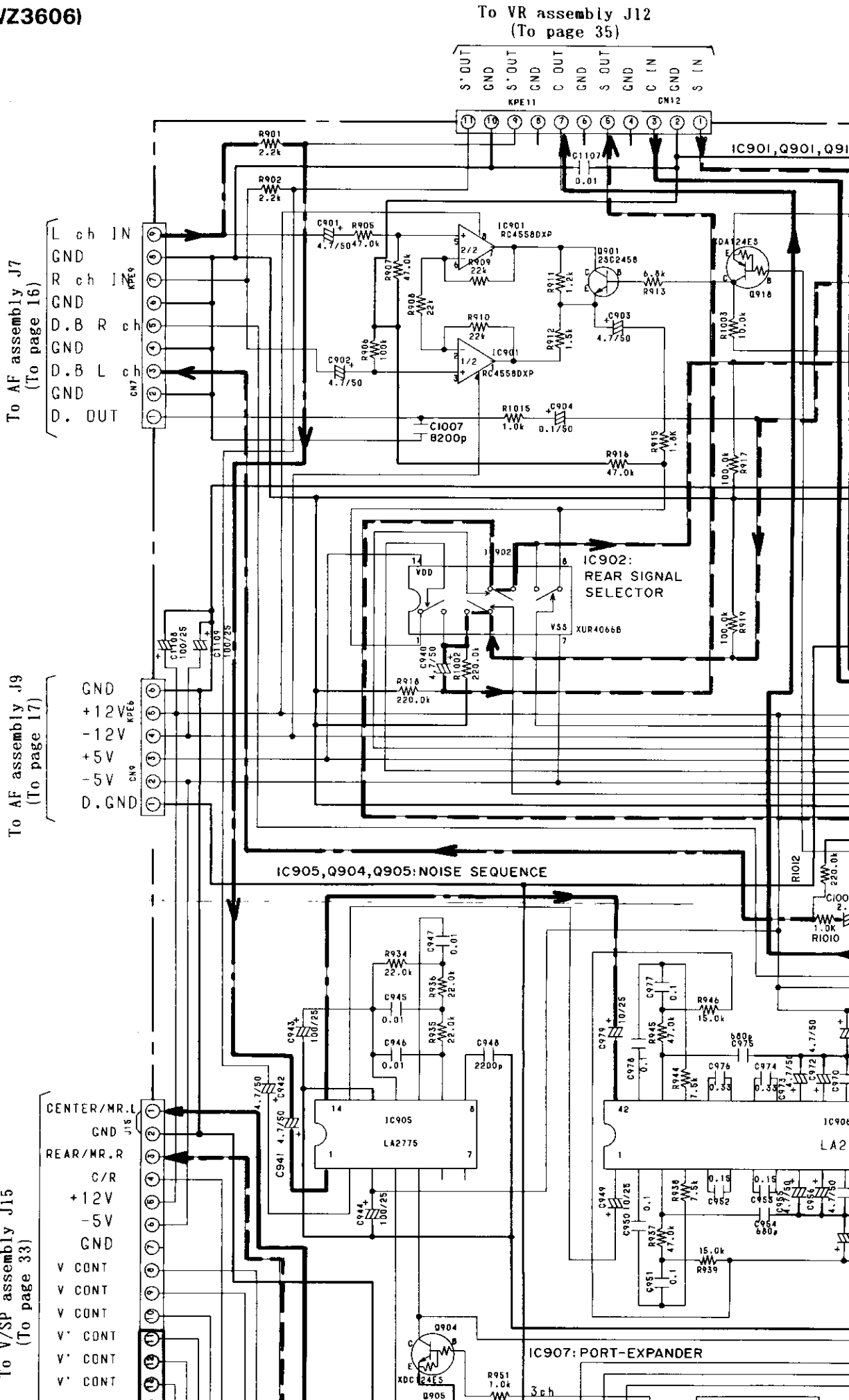
TC9154AP

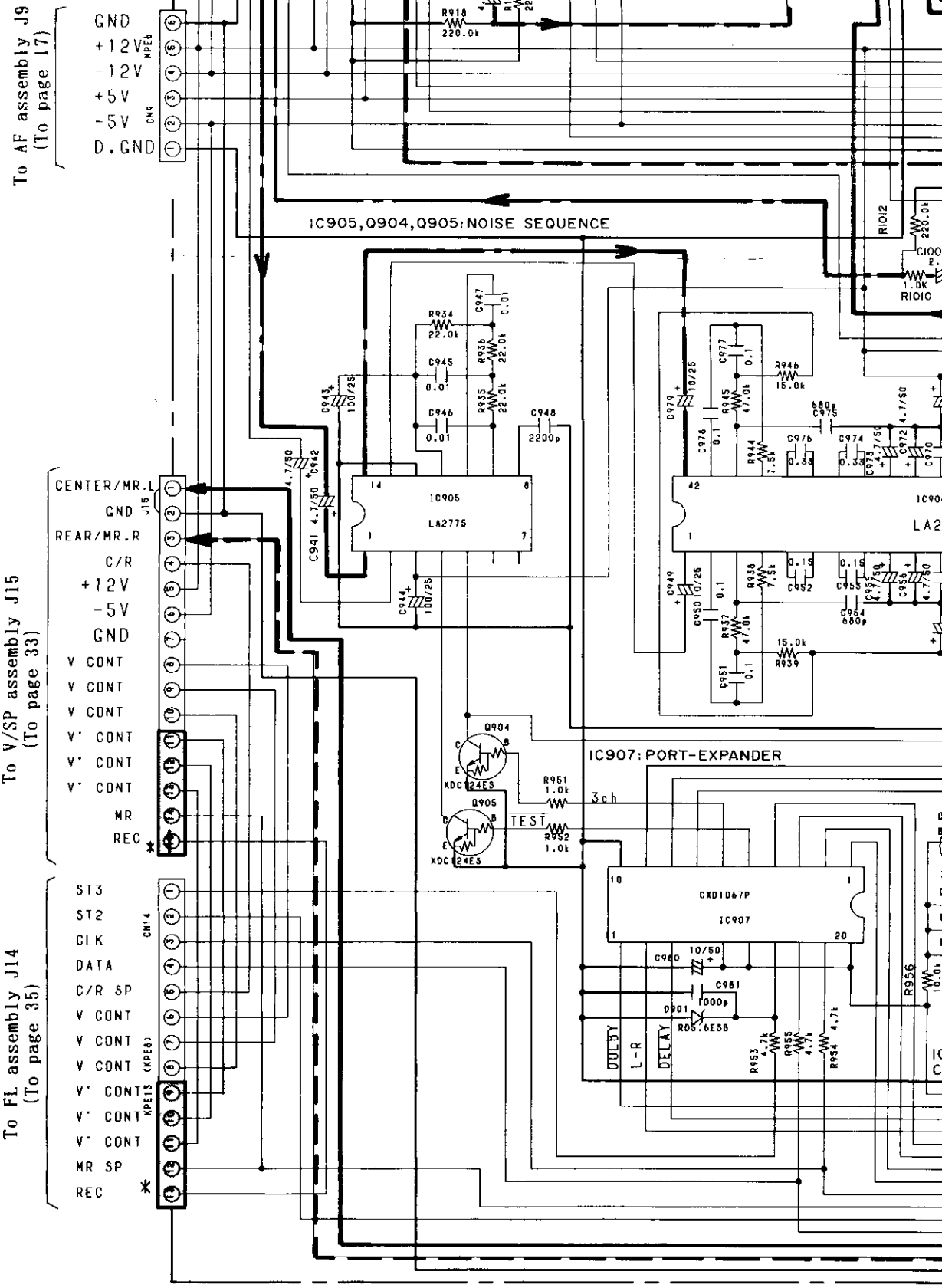


TC9184AP

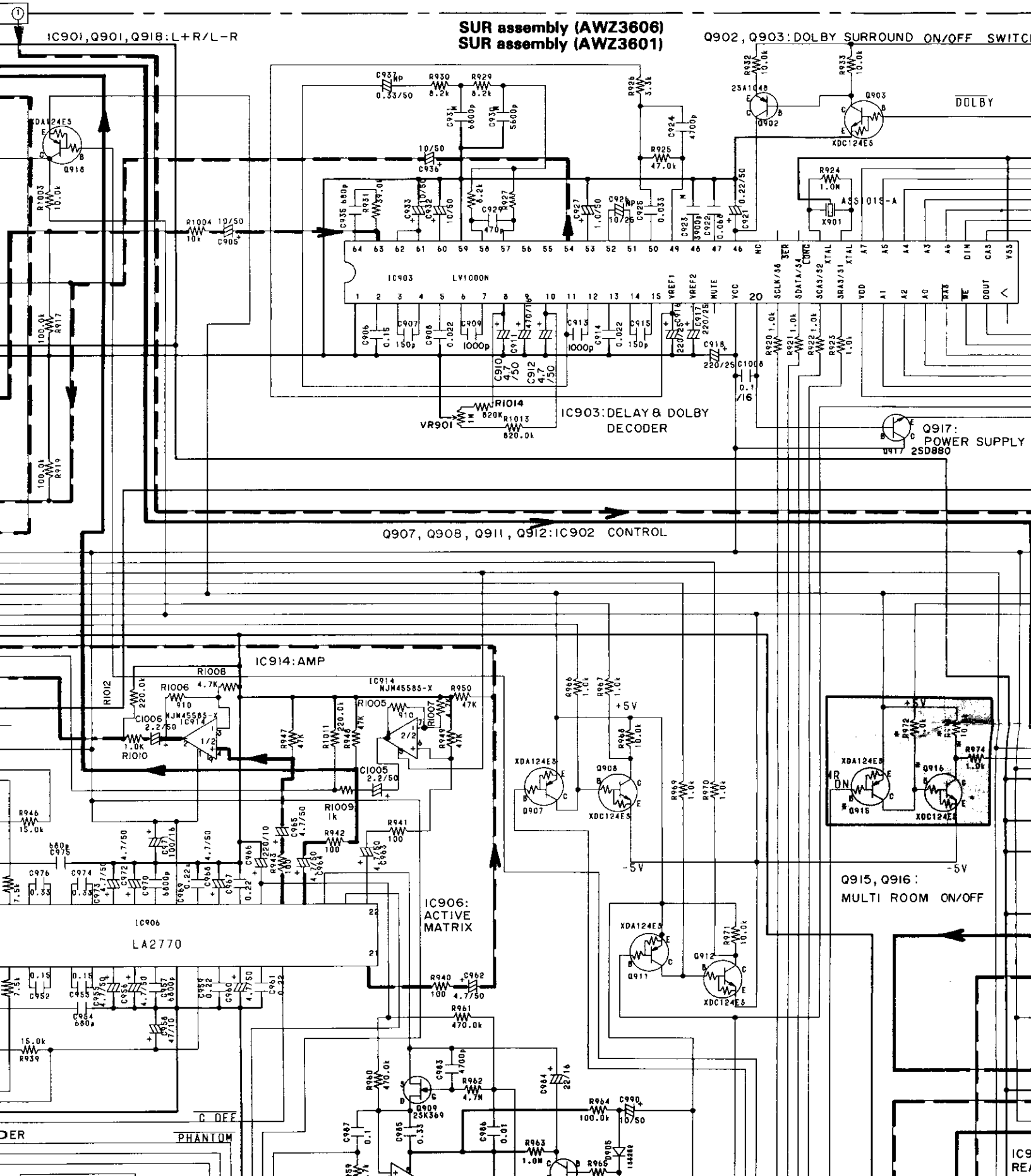


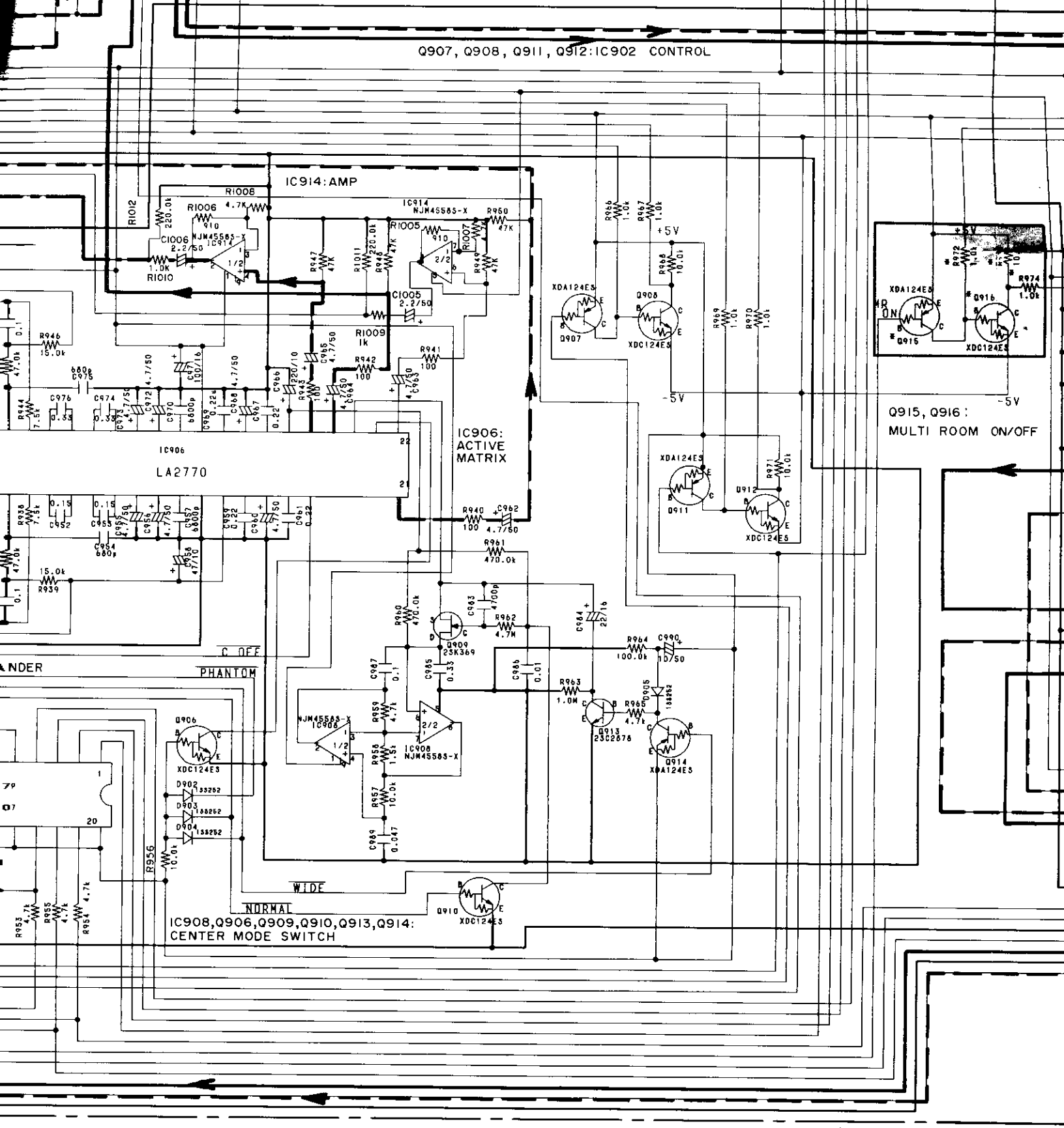
4.3 SUR assembly (AWZ3606)

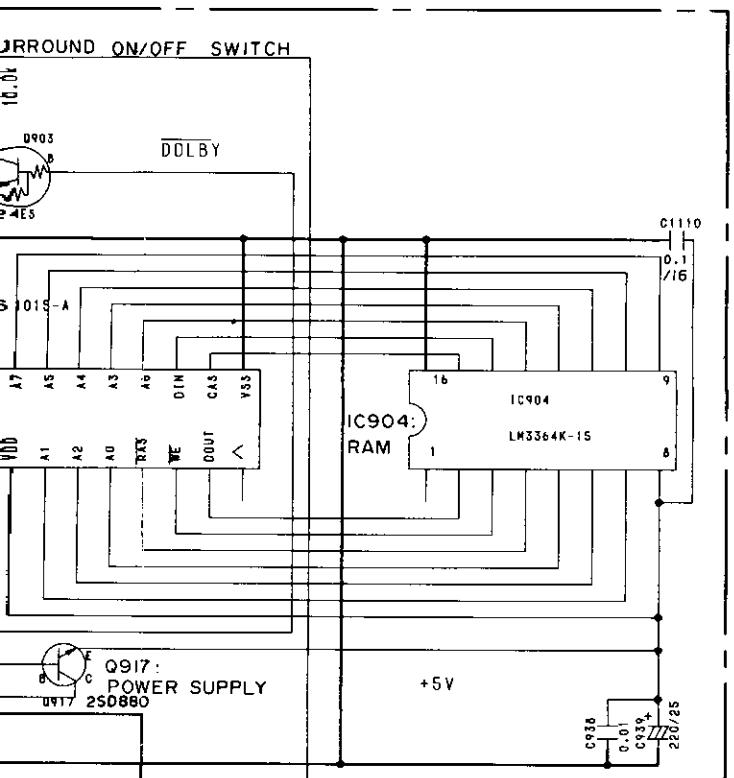


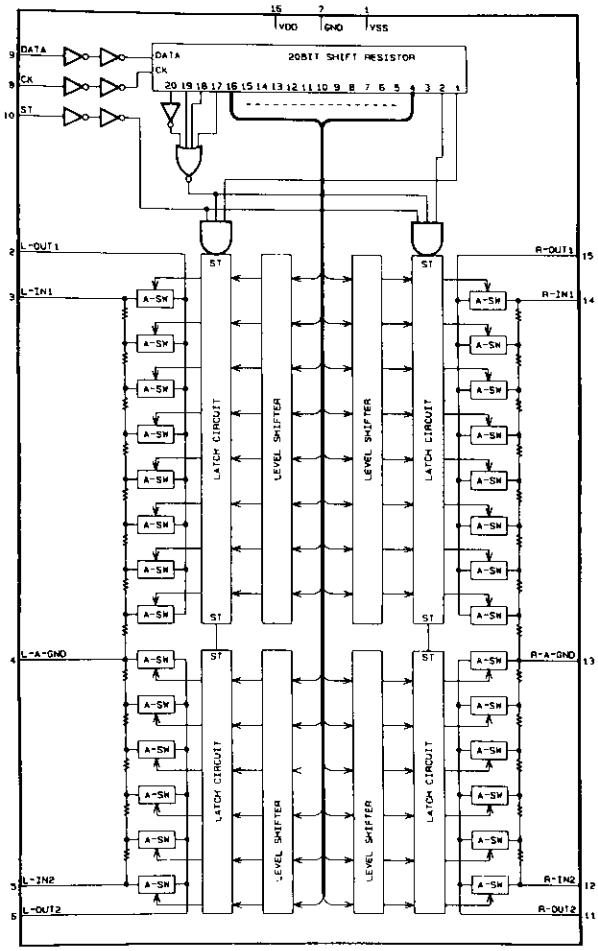

To AF assembly J9
(To page 17)
GND
+12V
-12V
+5V
-5V
D.GND
IC905,Q904,Q905:NOISE SEQUENCE
To V/SP assembly J15
(To page 33)
CENTER/MR.L
GND
REAR/MR.R
C/R
+12V
-5V
GND
V CONT
V CONT
V CONT
V' CONT
V' CONT
V' CONT
MR
REC
IC905
LA2775
IC907: PORT-EXPANDER
CXD1067P
IC907
Q904
Q905
XDC 24ES
TEST
3ch
To FL assembly J14
(To page 35)
ST3
ST2
CLK
DATA
C/R SP
V CONT
V CONT
V CONT
V' CONT
V' CONT
V' CONT
MR SP
REC
DOLBY
L-R
DELAY

S IN

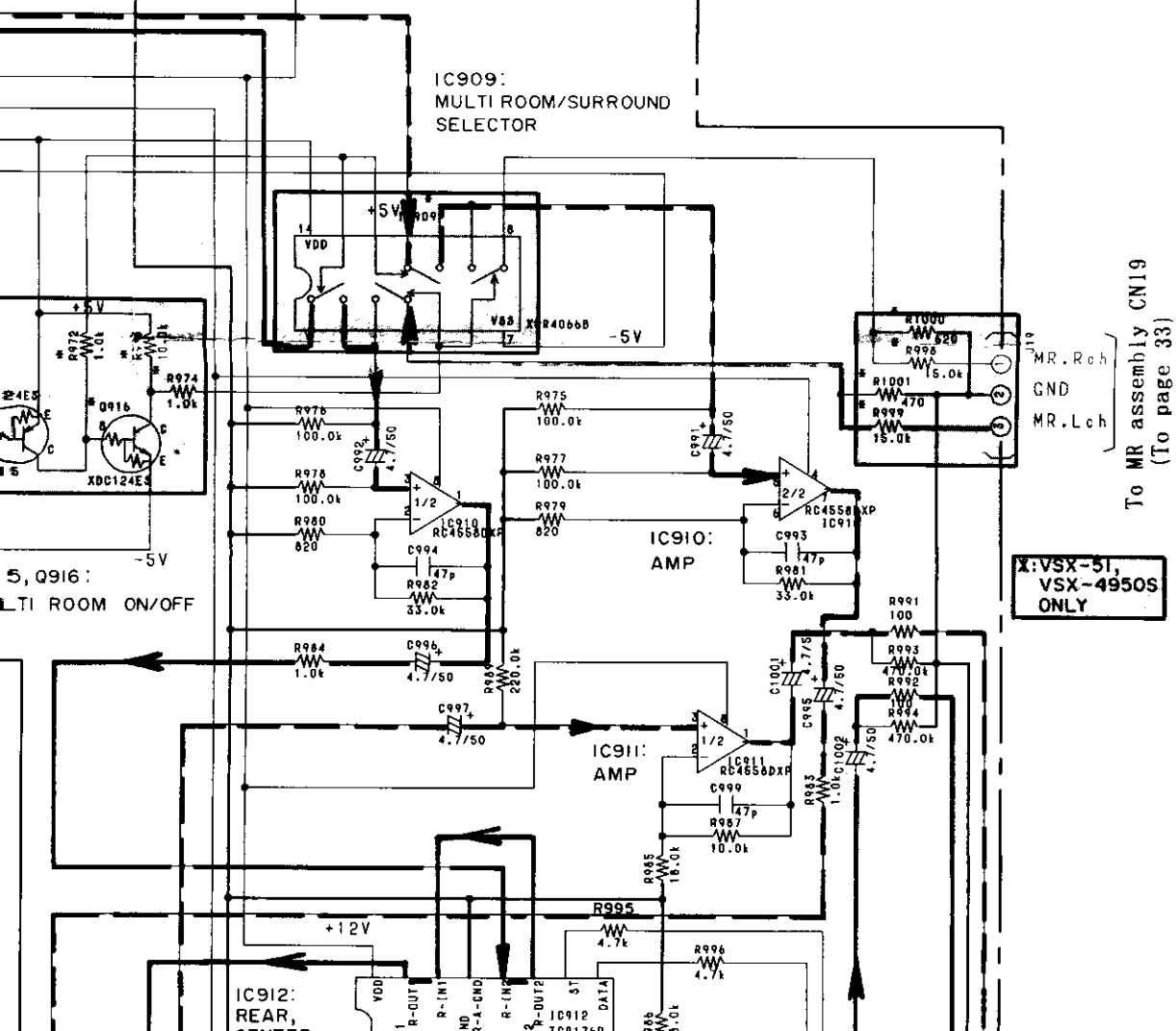

SUR assembly (AWZ3606)
SUR assembly (AWZ3601)
IC901,Q901,Q918:L+R/L-R
Q902,Q903:DOLBY SURROUND ON/OFF SWITCH
DOLBY
IC903 LV1000N
IC903:DELAY & DOLBY DECODER
Q917: POWER SUPPLY
Q917 2SD880
Q907, Q908, Q911, Q912:IC902 CONTROL
IC914:AMP
IC914 NJM4558S-X
IC906: ACTIVE MATRIX
IC906 LA2770
Q915, Q916: MULTI ROOM ON/OFF
+5V
-5V
C OFF
PHANTOM

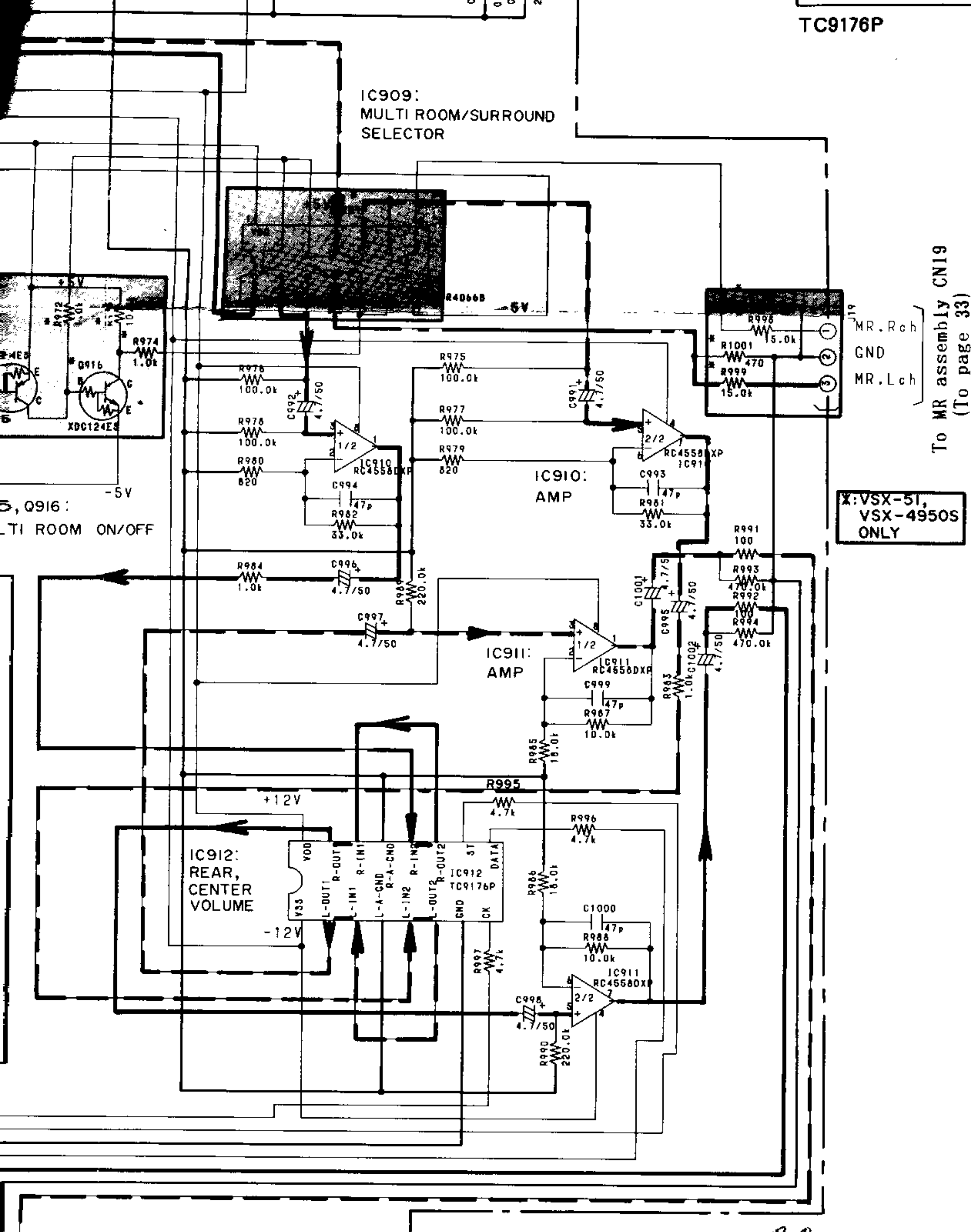

Q907, Q908, Q911, Q912:IC902 CONTROL
IC914:AMP
IC914 NJM4558S-X
R1008
R1006
R1012
R1010
R1005
R1007
R1009 1k
C1006 2.2/50
C1005 2.2/50
R950 47K
R947 47K
R946 47K
R949 47K
R1011 220.0k
R966 1.0k
R967 1.0k
+5V
-5V
XDA124E5
XDC124E5
Q907
Q908
R968 10.0k
R969 1.0k
R970 1.0k
R972 1.0k
R974 1.0k
Q915
Q916
Q915, Q916 :
MULTI ROOM ON/OFF
IC906
LA2770
IC906:
ACTIVE
MATRIX
R941 100
R942 100
R940 100
C962 4.7/50
R961 470.0k
R939 15.0k
Q911
Q912
R971 10.0k
C OFF
PHANTOM
NORMAL
WIDE
Q909
2SK369
R960 470.0k
C963 4700p
R962 4.7M
C964 22/16
R964 100.0k
C990 10/50
R963 1.0M
R965 4.7k
Q913
2SC2878
Q914
XDA124E5
C947 0.1
C985 0.33
C986 0.01
R959 4.7k
R958 1.5k
R957 10.0k
C989 0.047
IC908
NJM4558S-X
Q906
XDC124E3
D902 1SS252
D903 1SS252
D904 1SS252
R956 10.0k
Q910
XDC124E3
IC908,Q906,Q909,Q910,Q913,Q914:
CENTER MODE SWITCH
LA2775
ANALOG SW
L OUT
R OUT
L IN
R IN


URROUND ON/OFF SWITCH
DOLBY
Q903
C1110
0.1
/16
IC904:
RAM
IC904
LM3364K-15
Q917:
POWER SUPPLY
Q917 2SD880
+5V
C938
0.01
C939
220/25


VDD
GND
VSS
DATA
CK
ST
20BIT SHIFT RESISTOR
L-OUT1
L-IN1
L-A-GND
L-IN2
L-OUT2
R-OUT1
R-IN1
R-A-GND
R-IN2
R-OUT2
A-SW
LATCH CIRCUIT
LEVEL SHIFTER

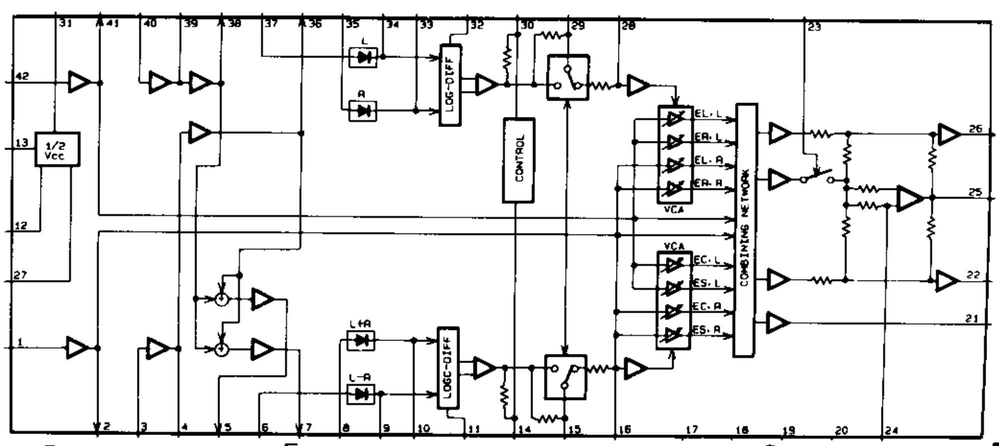
TC9176P

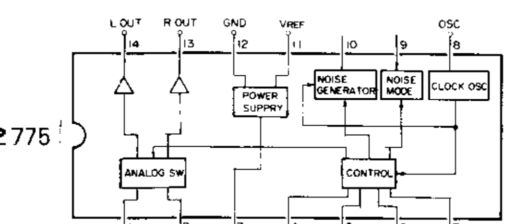

IC909:
MULTI ROOM/SURROUND
SELECTOR
+5V
-5V
VDD
VSS
XC4066B
Q916
XDC124ES
5, Q916:
LTI ROOM ON/OFF
IC910:
AMP
IC911:
AMP
IC912:
REAR,
+12V
R995
R996
R1000
R1001
R999
MR.Rch
GND
MR.Lch
To MR assembly CN19
(To page 33)
X:VSX-51,
VSX-4950S
ONLY


TC9176P
IC909:
MULTI ROOM/SURROUND
SELECTOR
R4066B
-5V
IC910:
AMP
IC911:
AMP
IC912:
REAR,
CENTER
VOLUME
TC9176P
RC4558DXP
+12V
-12V
+5V
-5V
Q916
XDC124ES
5, Q916:
LTI ROOM ON/OFF
R972
R974
1.0k
R976
100.0k
R978
100.0k
R980
820
C992
4.7/50
C994
47p
R982
33.0k
R984
1.0k
C996
4.7/50
R989
220.0k
C997
4.7/50
R975
100.0k
R977
100.0k
R979
820
C991
4.7/50
C993
47p
R981
33.0k
R991
100
R993
470.0k
R992
100
R994
470.0k
C1001
4.7/50
C995
4.7/50
C1002
4.7/50
R983
1.0k
C999
47p
R987
10.0k
R985
18.0k
R995
4.7k
R996
4.7k
R986
18.0k
C1000
47p
R988
10.0k
R997
4.7k
C998
4.7/50
R990
220.0k
VDD
R-OUT1
R-IN1
R-A-GND
R-IN2
R-OUT2
ST
DATA
V33
L-OUT1
L-IN1
L-A-GND
L-IN2
L-OUT2
GND
CK
R998
15.0k
R1001
470
R999
15.0k
MR.Rch
GND
MR.Lch
To MR assembly CN19
(To page 33)
※:VSX-51,
VSX-4950S
ONLY
C
D
C

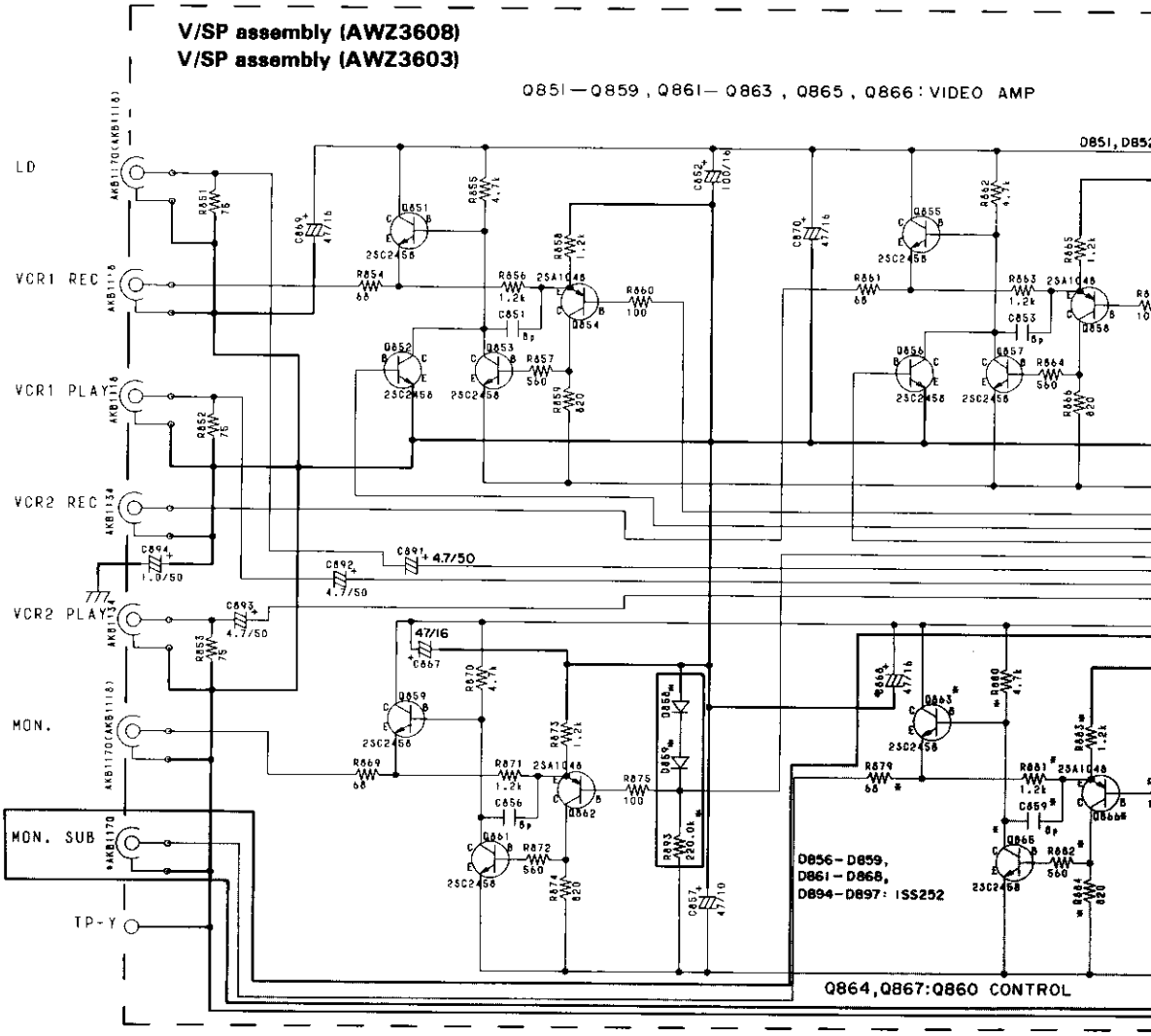
90

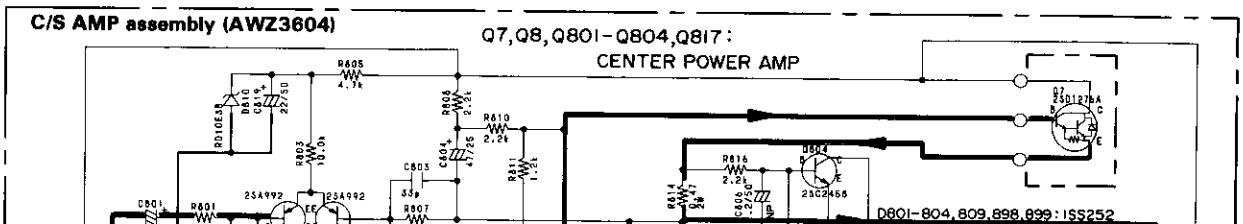
LA2770

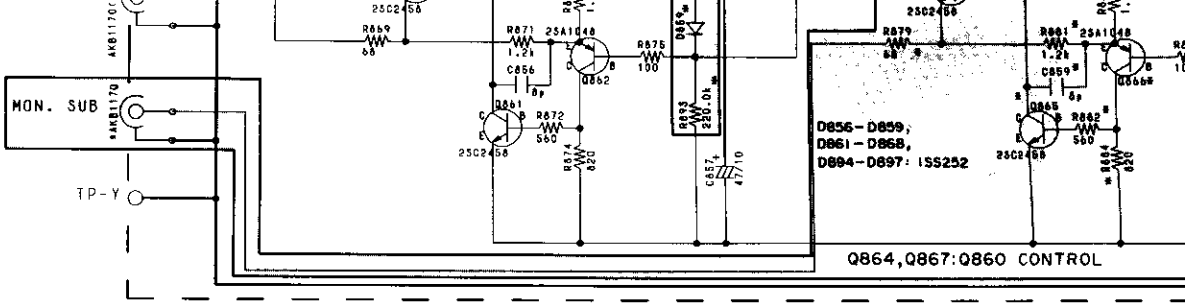


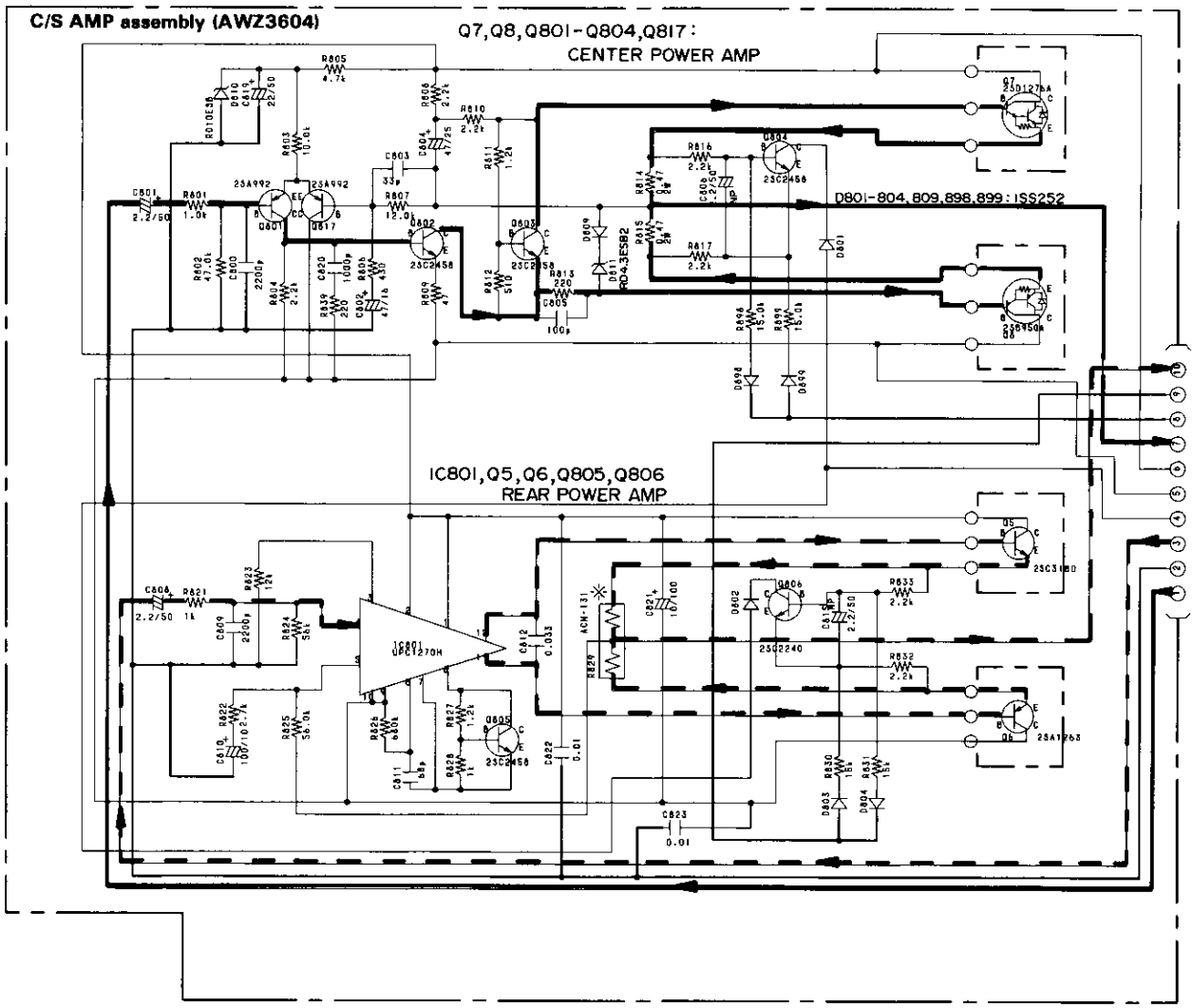


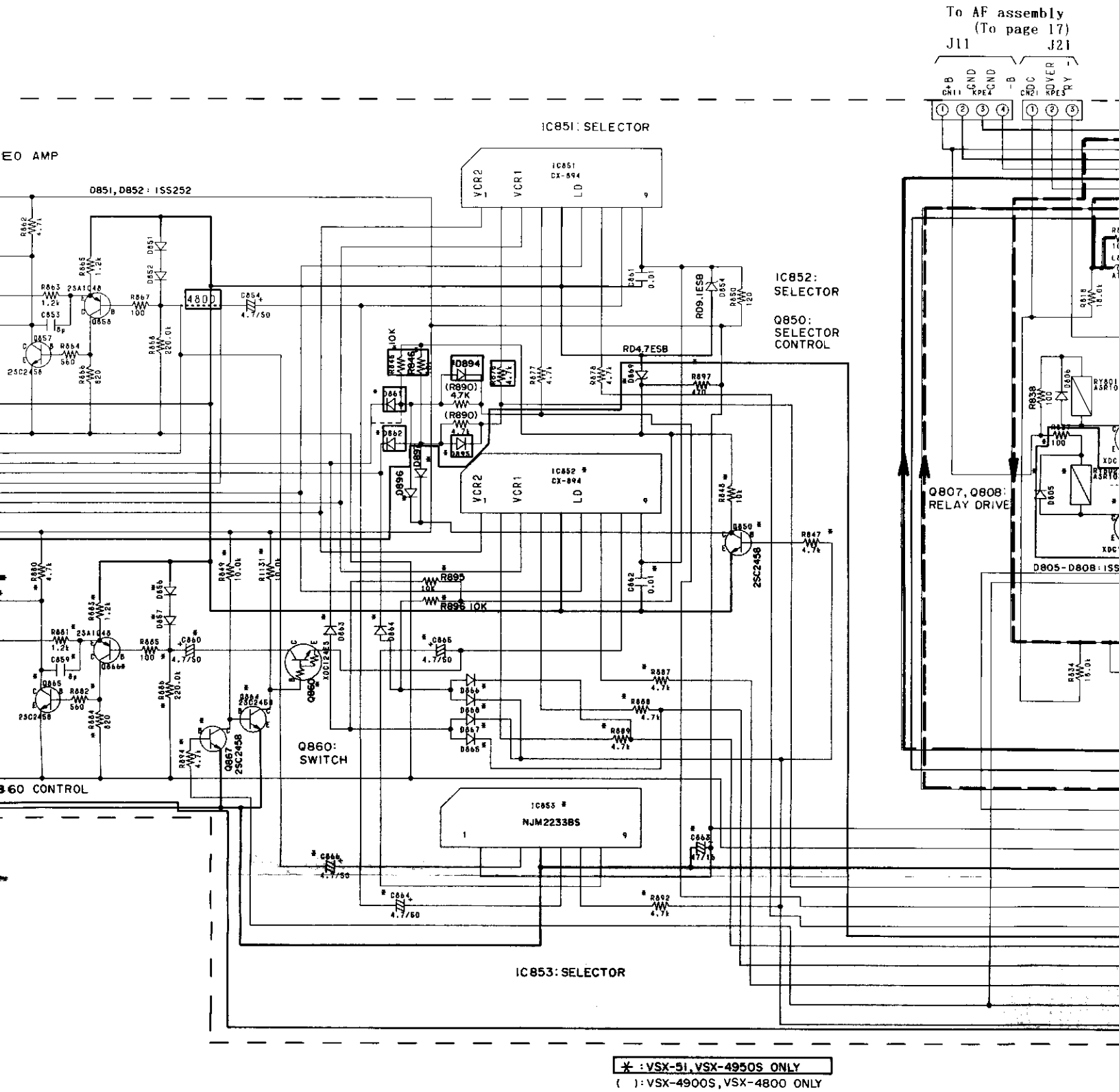
4 5 6

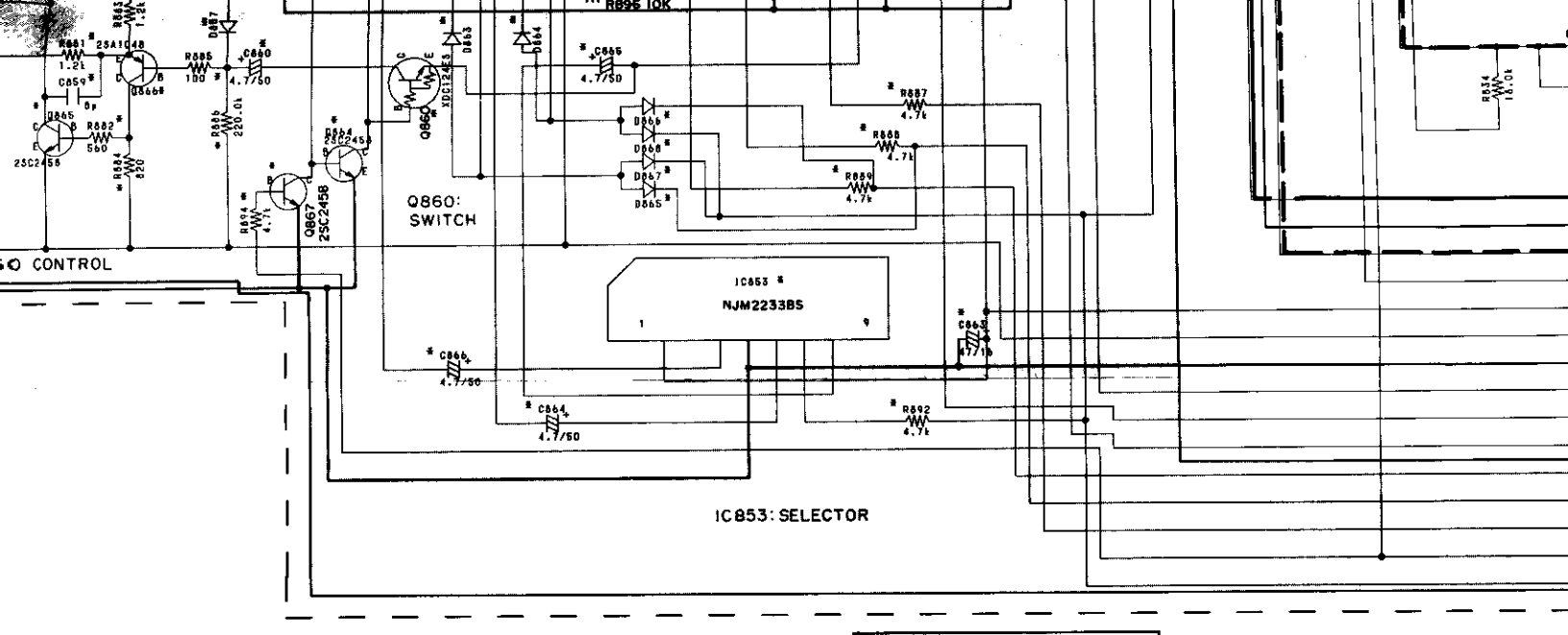

V/SP assembly (AWZ3608)
V/SP assembly (AWZ3603)
Q851—Q859, Q861—Q863, Q865, Q866: VIDEO AMP
LD
VCR1 REC
VCR1 PLAY
VCR2 REC
VCR2 PLAY
MON.
MON. SUB
TP-Y
D856-D859,
D861-D868,
D894-D897: ISS252
Q864,Q867:Q860 CONTROL


C/S AMP assembly (AWZ3604)
Q7,Q8,Q801-Q804,Q817:
CENTER POWER AMP
D801-804, 809, 898, 899: ISS252

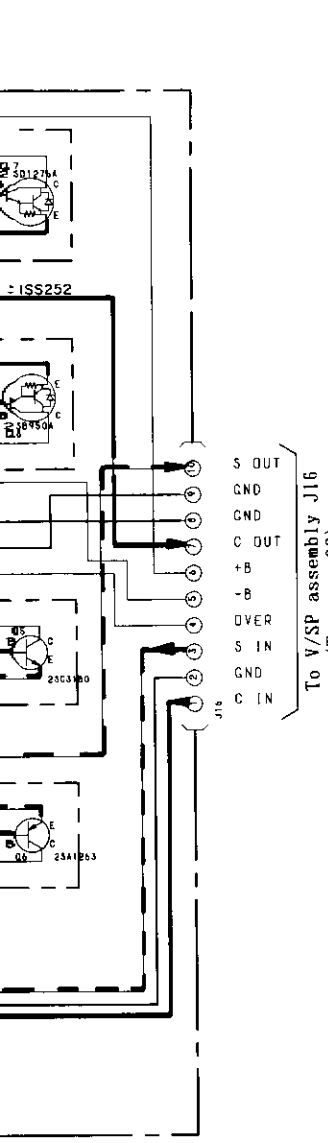

MON. SUB
TP-Y
D856-D859,
D861-D868,
D894-D897: ISS252
Q864,Q867:Q860 CONTROL

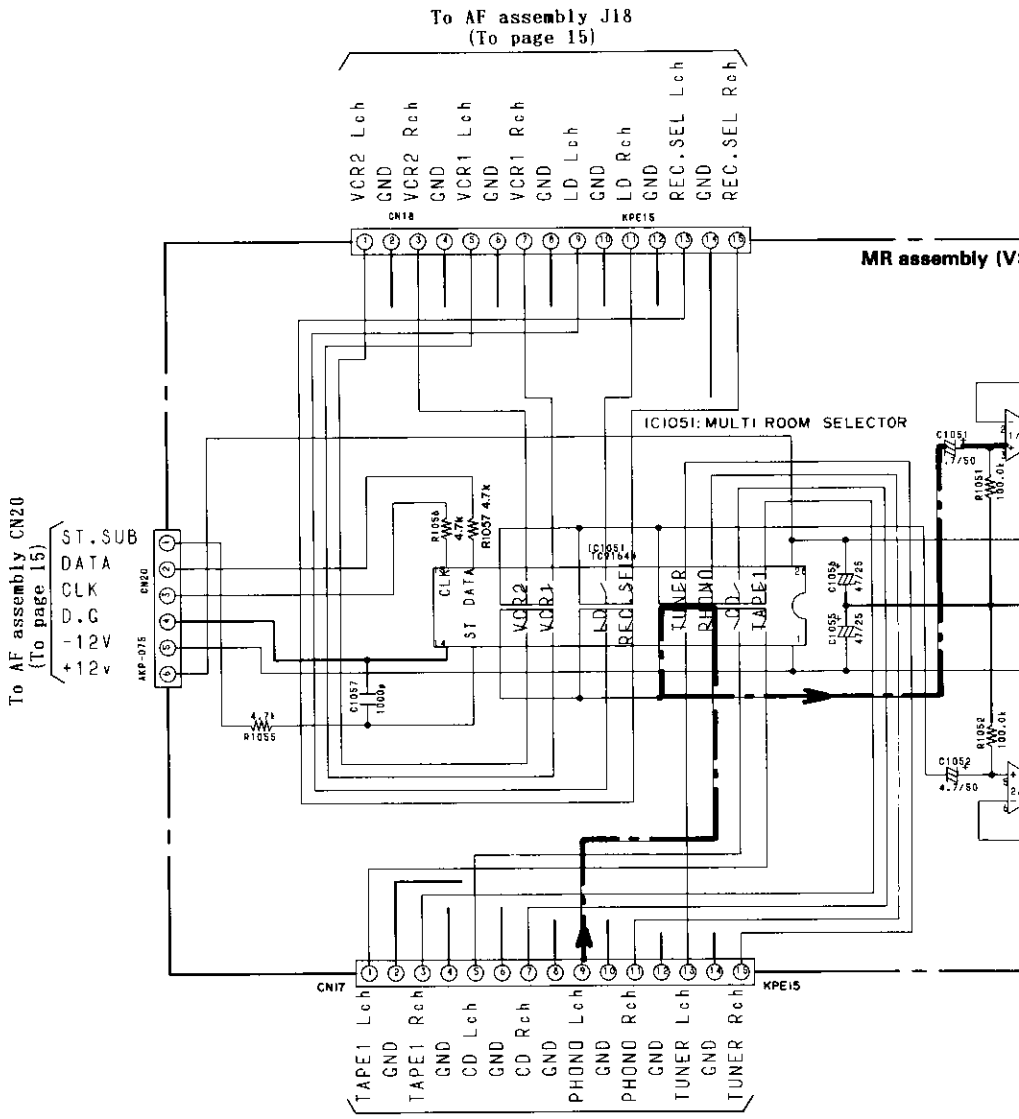

C/S AMP assembly (AWZ3604)
Q7,Q8,Q801-Q804,Q817:
CENTER POWER AMP
D801-804,809,898,899: ISS252
IC801,Q5,Q6,Q805,Q806
REAR POWER AMP


To AF assembly
(To page 17)
J11
J21
IC851: SELECTOR
IC852: SELECTOR
Q850: SELECTOR CONTROL
Q807, Q808: RELAY DRIVE
D805-D808: ISS
D851, D852: ISS252
Q860: SWITCH
IC853: SELECTOR
NJM2233BS
CX-894
RD4.7ESB
RD9.1ESB
2SC2458
2SA1048
* : VSX-51, VSX-495OS ONLY
( ): VSX-490OS, VSX-4800 ONLY
To AF assembly J18
(To page 15)
VCR2 Lch
GND
VCR2 Rch
GND
VCR1 Lch
GND
VCR1 Rch
GND
LD Lch
GND
LD Rch
GND
REC.SEL Lch
GND
REC.SEL Rch
MR assembly (VS

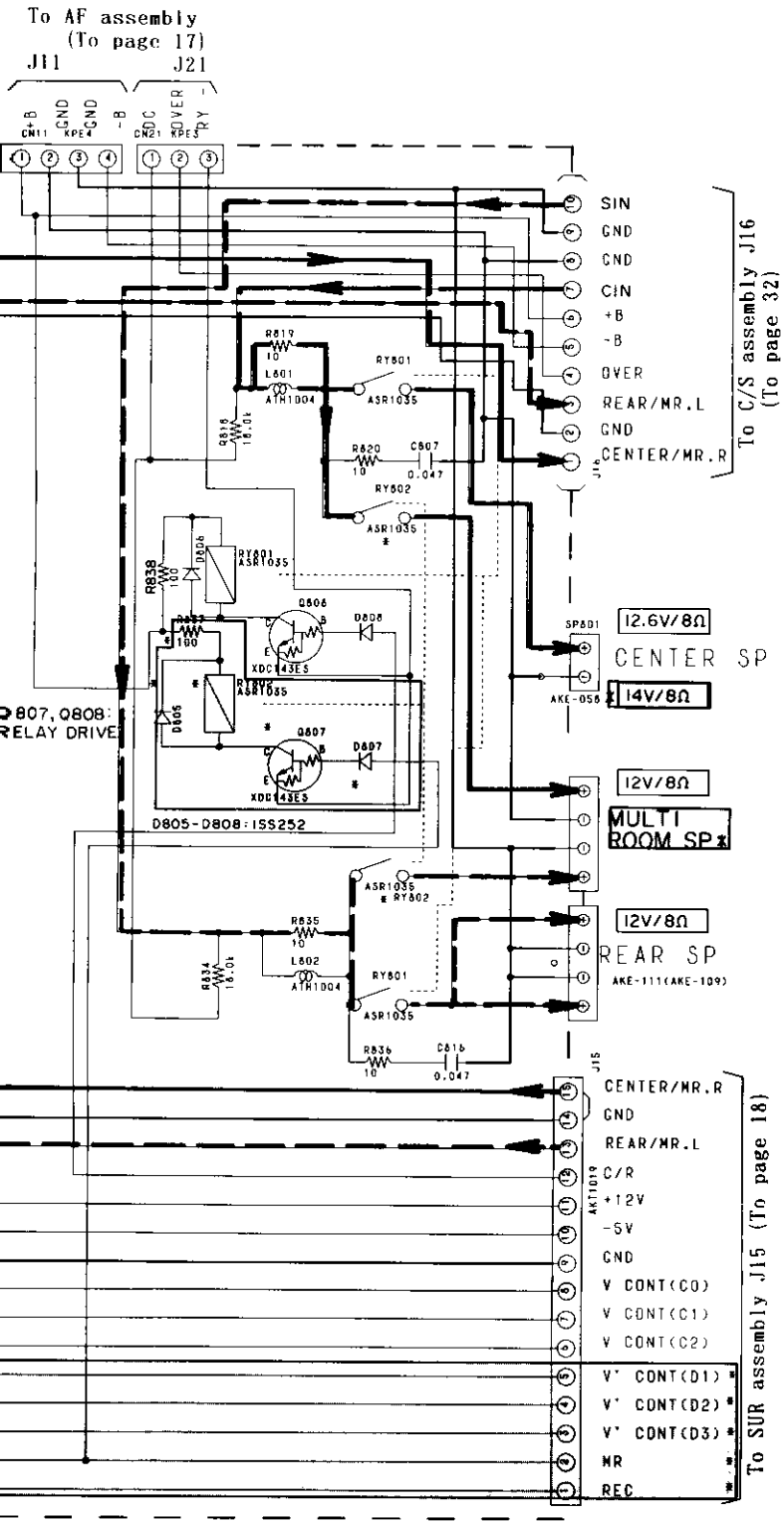


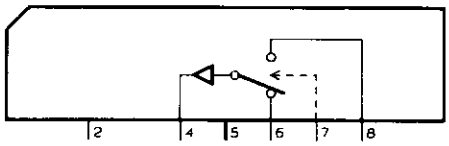
* : VSX-51, VSX-495OS ONLY
( ): VSX-490OS, VSX-4800 ONLY



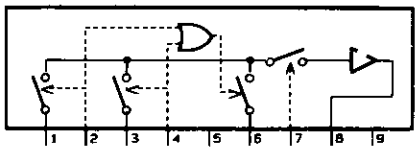


4 5 6





NJM2233BS



CX894

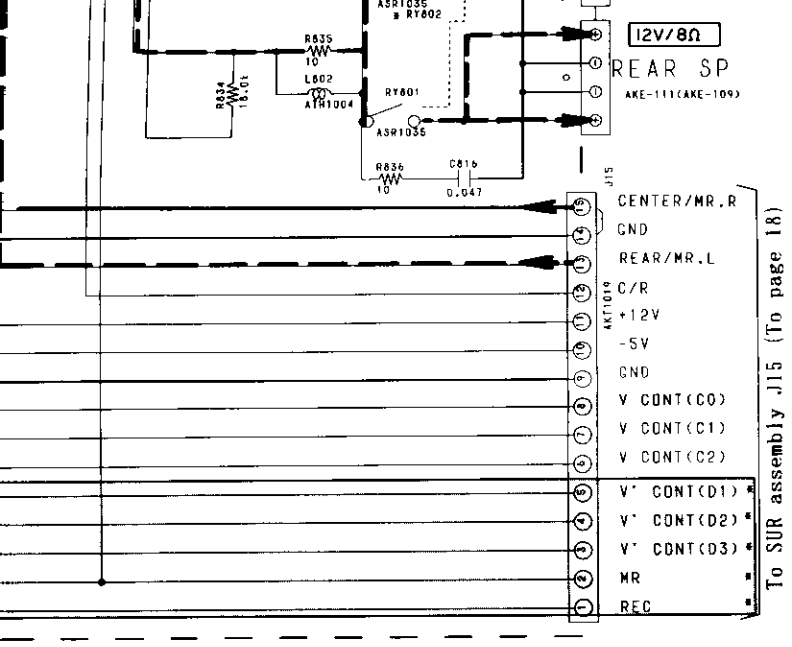
A

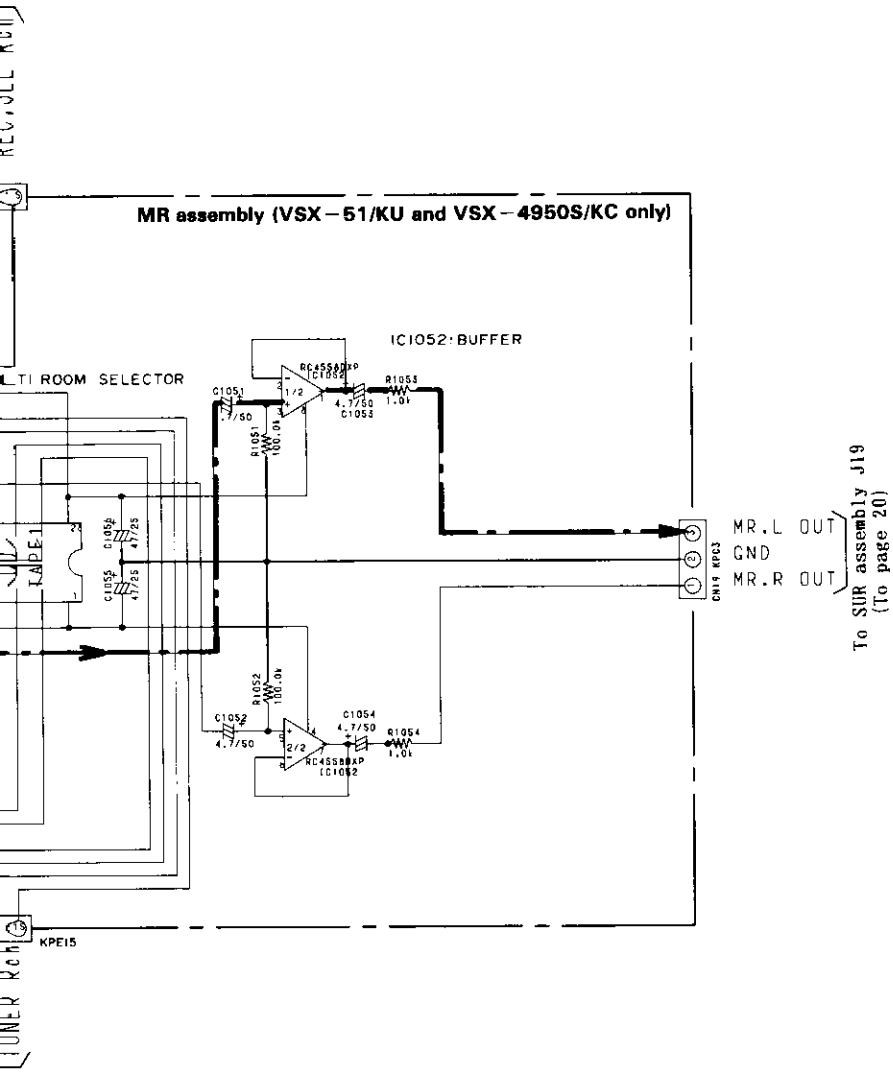
B

C

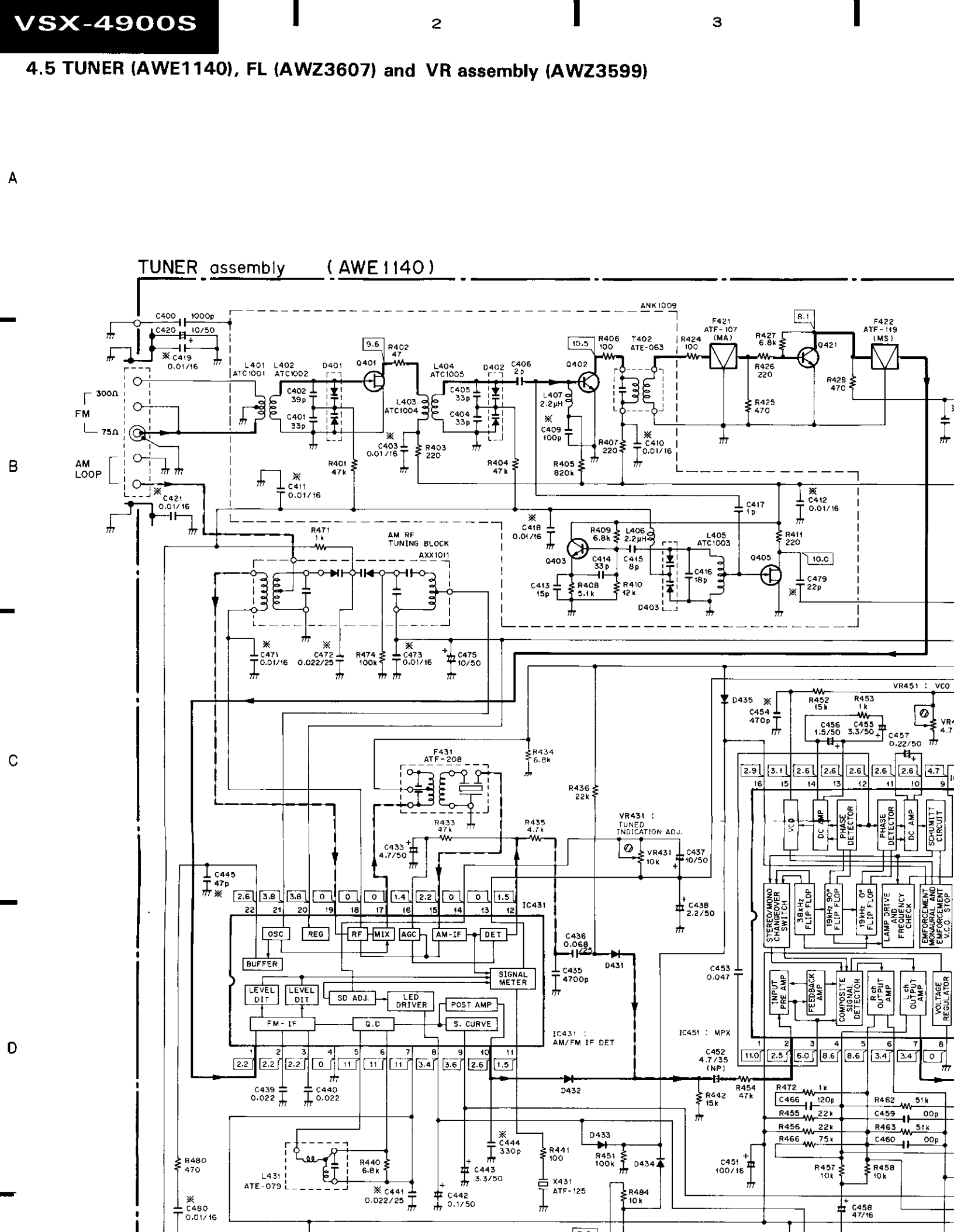
D

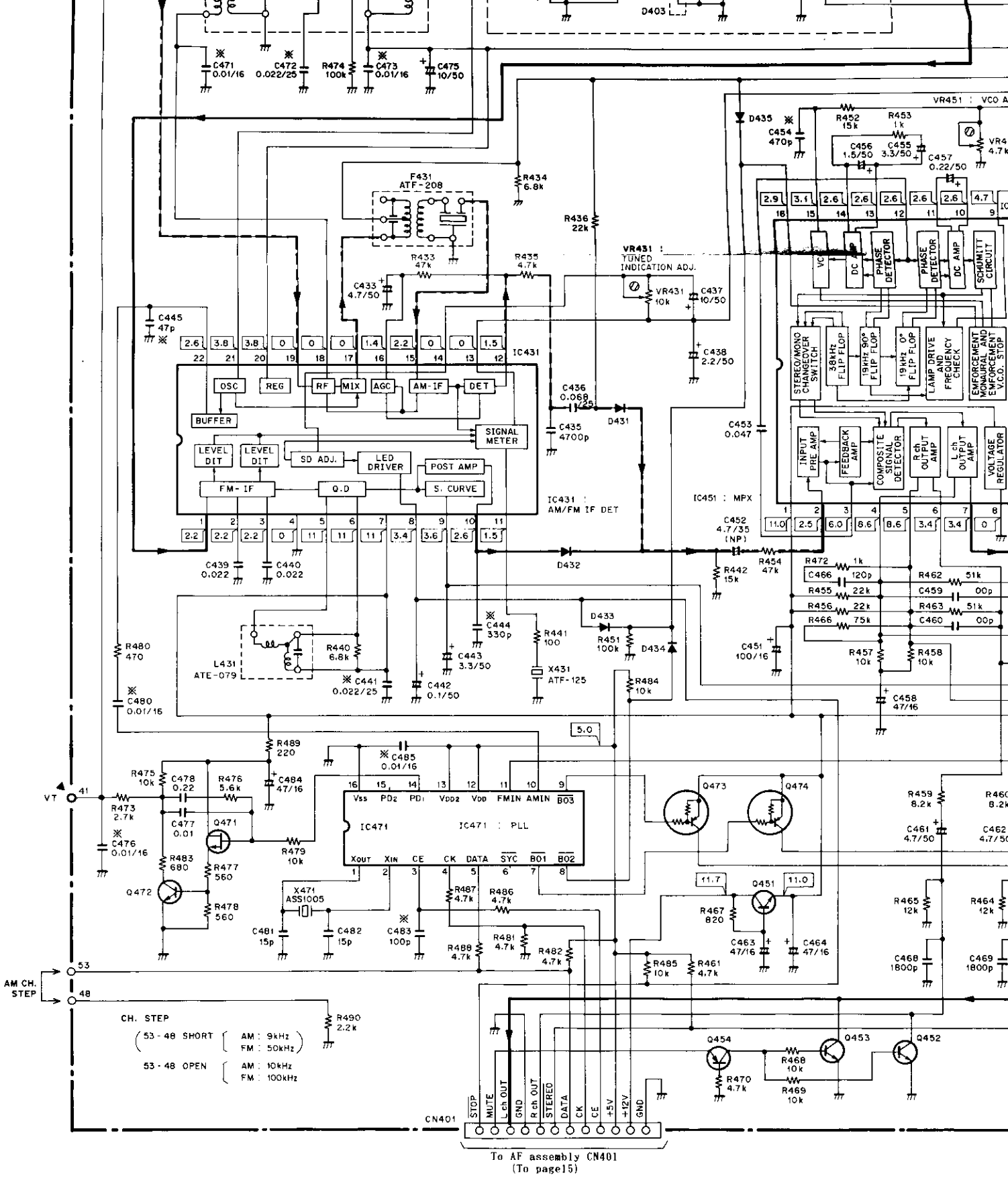
MR assembly (VSX-51/KU and VSX-4950S/KC only)

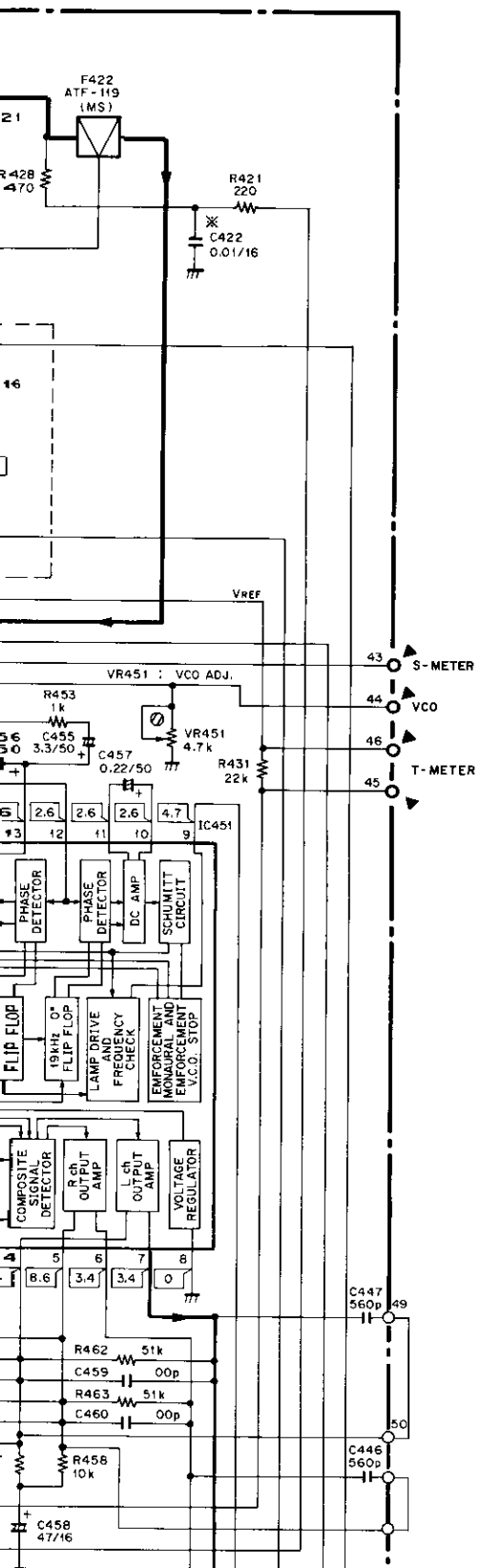

12V/8Ω
REAR SP
AKE-111(AKE-109)
R835
10
L802
ATH1004
RY801
ASR1035
R834
15.0k
R836
10
C816
0.047
J15
CENTER/MR.R
GND
REAR/MR.L
C/R
+12V
-5V
GND
V CONT(C0)
V CONT(C1)
V CONT(C2)
V CONT(D1)
V CONT(D2)
V CONT(D3)
MR
REC
AKT1019
To SUR assembly J15 (To page 18)


MR assembly (VSX-51/KU and VSX-4950S/KC only)
IC1052:BUFFER
TI ROOM SELECTOR
TAPE 1
C1051
4.7/50
C1053
4.7/50
R1053
1.0k
R1051
100.0k
C1052
4.7/50
C1054
4.7/50
R1054
1.0k
R1052
100.0k
MR.L OUT
GND
MR.R OUT
CN14 KPE3
To SUR assembly J19
(To page 20)
KPE15

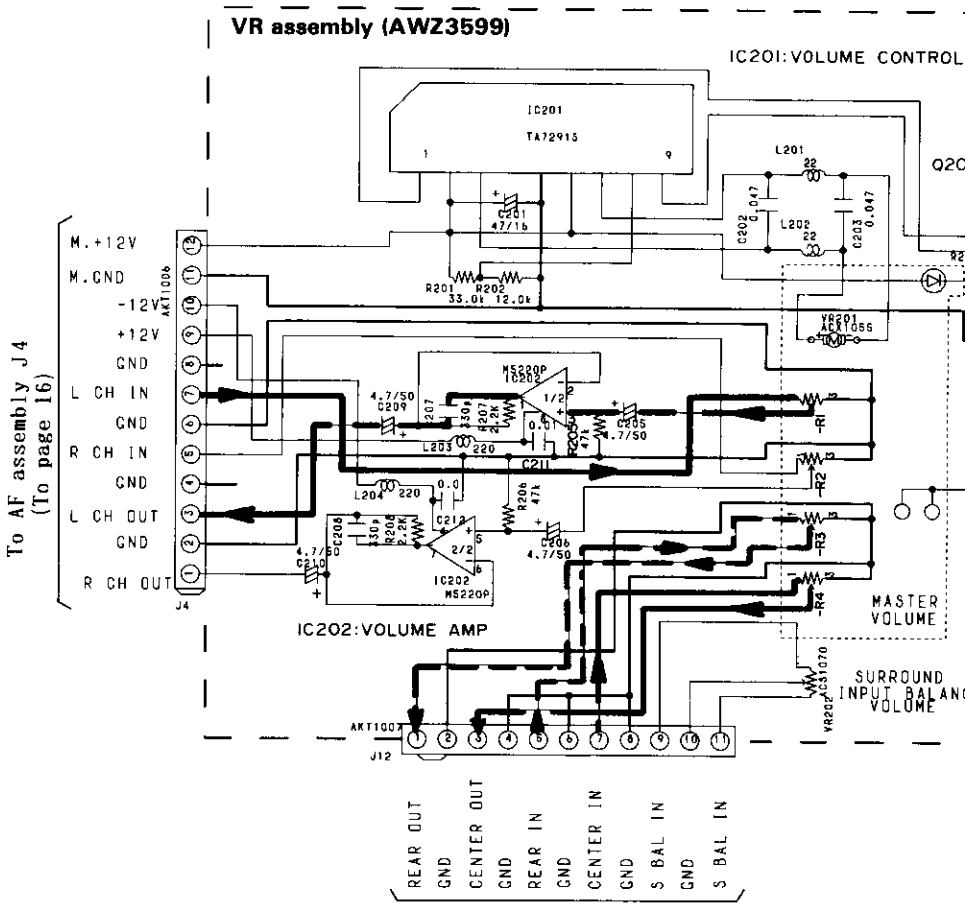
4.5 TUNER (AWE1140), FL (AWZ3607) and VR assembly (AWZ3599)

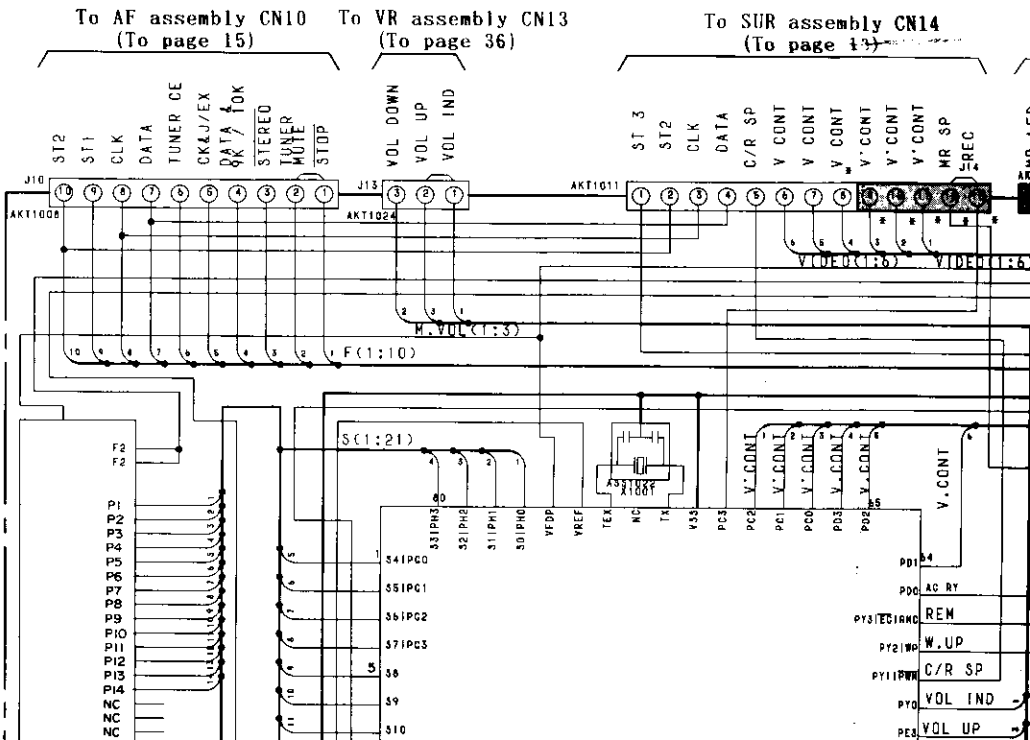


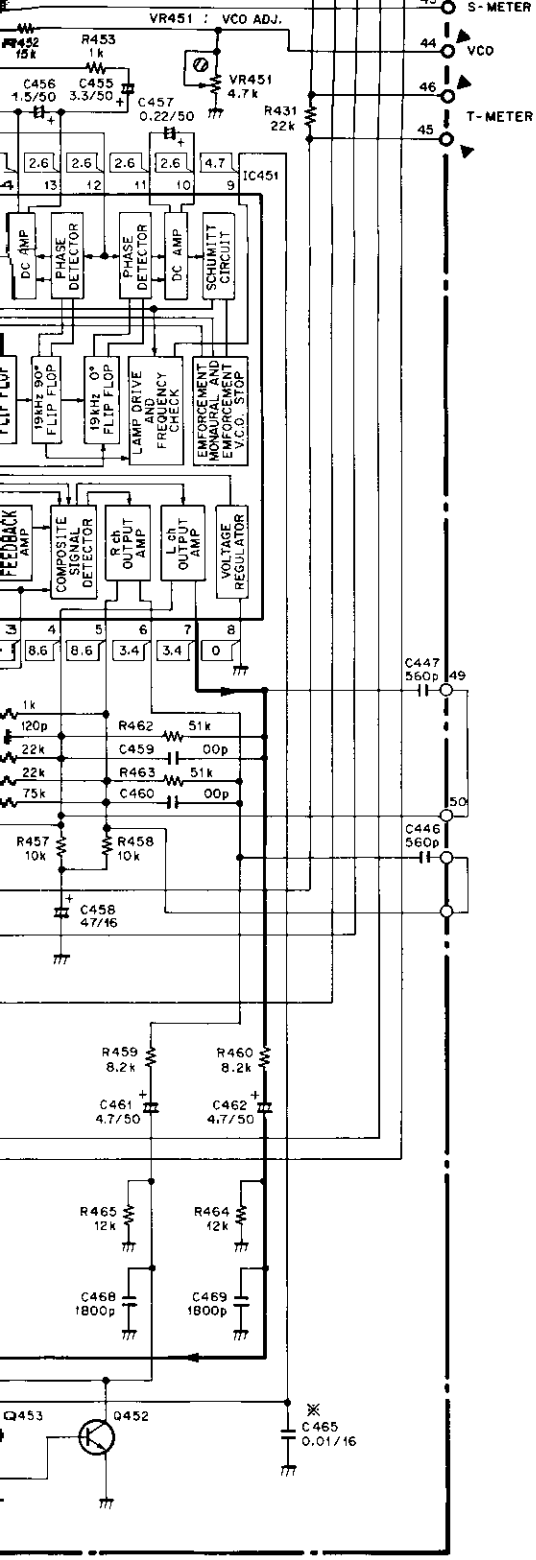

IC431 : AM/FM IF DET
IC451 : MPX
IC471 : PLL
VR431 : TUNED INDICATION ADJ.
VR451 : VCO A
F431 ATF-208
L431 ATE-079
X431 ATF-125
X471 ASS1005
OSC
REG
RF
MIX
AGC
AM-IF
DET
BUFFER
SIGNAL METER
LEVEL DIT
LEVEL DIT
SD ADJ.
LED DRIVER
POST AMP
FM-IF
Q.D
S. CURVE
VCO
DC AMP
PHASE DETECTOR
PHASE DETECTOR
DC AMP
SCHMITT CIRCUIT
STEREO/MONO CHANGEOVER SWITCH
38kHz FLIP FLOP
19kHz 90° FLIP FLOP
19kHz 0° FLIP FLOP
LAMP DRIVE AND FREQUENCY CHECK
ENFORCEMENT MUTING AND ENFORCEMENT V.C.O. STOP
INPUT PRE AMP
FEEDBACK AMP
COMPOSITE SIGNAL DETECTOR
R ch OUTPUT AMP
L ch OUTPUT AMP
VOLTAGE REGULATOR
Vss PD2 PD1 VDD2 VDD FMIN AMIN BO3
XOUT XIN CE CK DATA SYC BO1 BO2
VT
AM CH. STEP
CH. STEP
53 - 48 SHORT AM : 9kHz FM : 50kHz
53 - 48 OPEN AM : 10kHz FM : 100kHz
CN401
STOP MUTE L ch OUT GND R ch OUT STEREO DATA CK CE +5V +12V GND
To AF assembly CN401
(To page15)



VR assembly (AWZ3599)





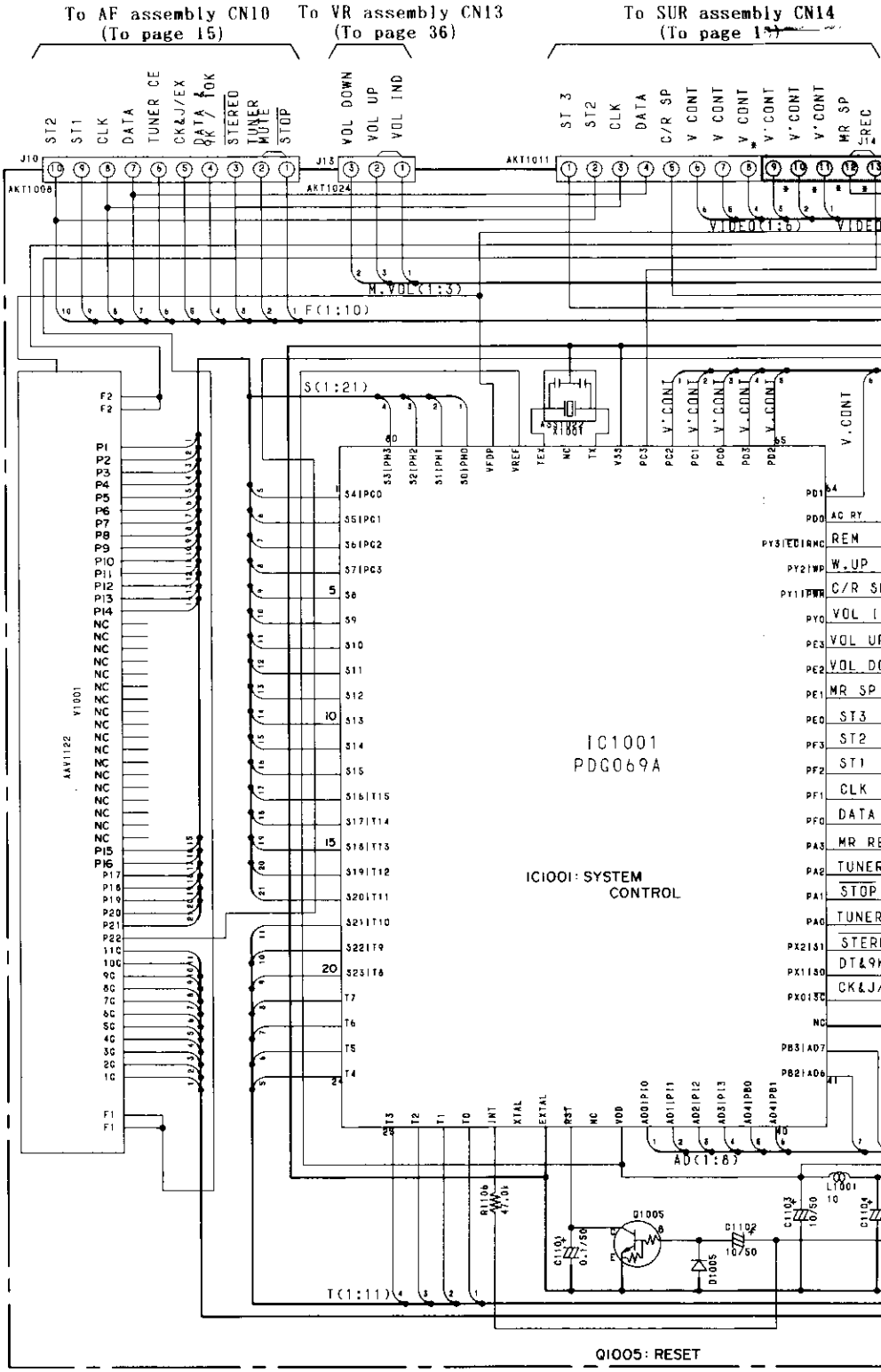


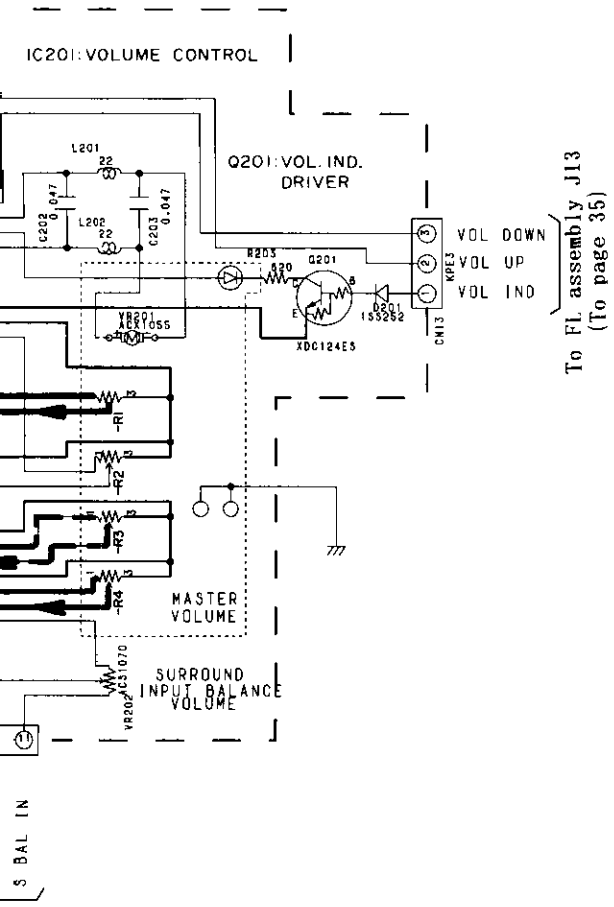
(To page 18)

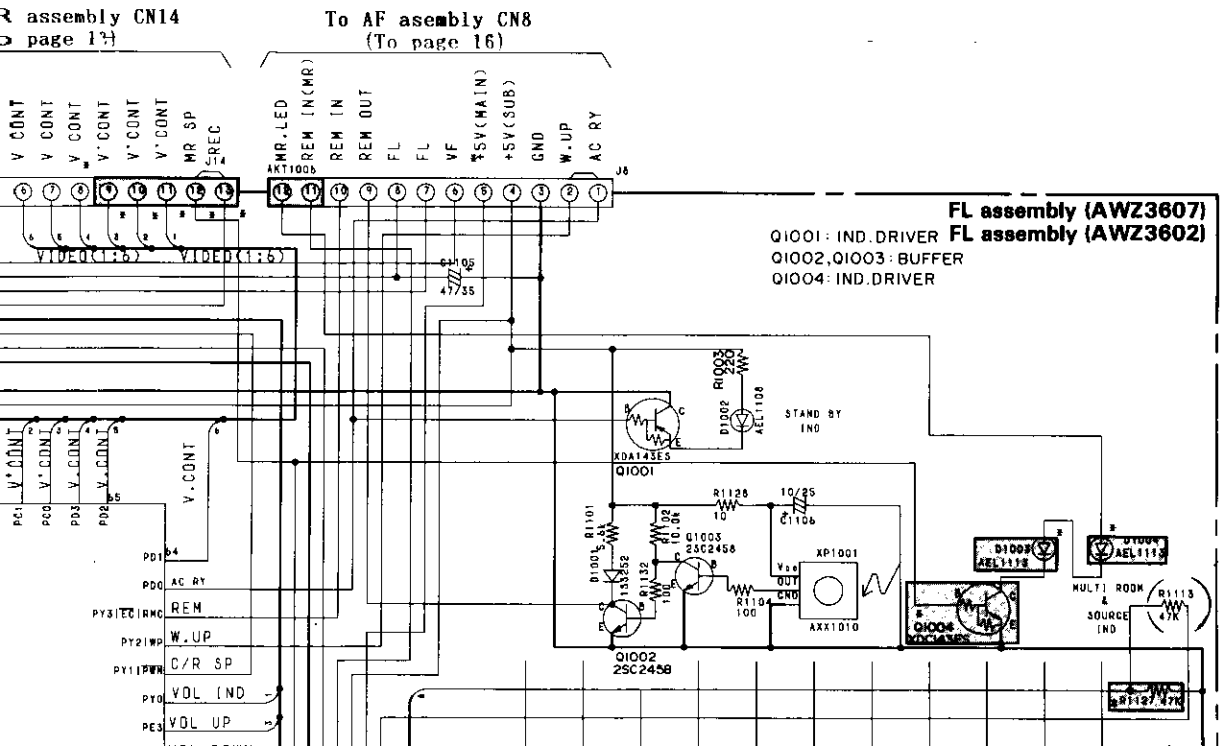
To AF assembly CN10 (To page 15)

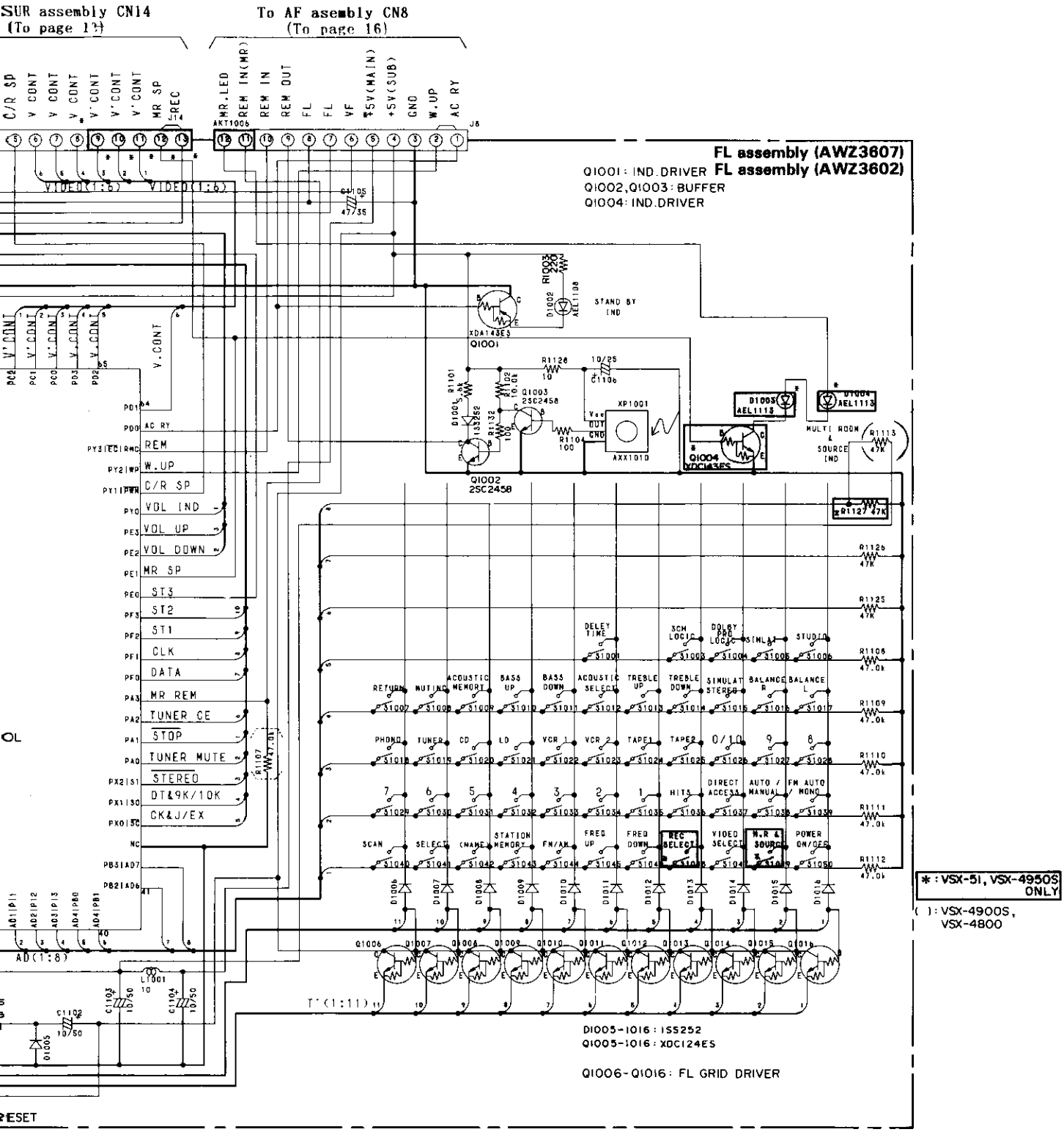
To VR assembly CN13 (To page 36)

To SUR assembly CN14 (To page 1?)




IC201:VOLUME CONTROL
Q201:VOL. IND. DRIVER
VOL DOWN
VOL UP
VOL IND
To FL assembly J13
(To page 35)
MASTER VOLUME
SURROUND INPUT BALANCE VOLUME
S BAL IN


R assembly CN14
page 13)
To AF asembly CN8
(To page 16)
FL assembly (AWZ3607)
FL assembly (AWZ3602)
Q1001 : IND.DRIVER
Q1002,Q1003 : BUFFER
Q1004 : IND.DRIVER
STAND BY IND
MULTI ROOM & SOURCE IND
V.CONT
AC RY
REM
W.UP
C/R SP
VOL IND
VOL UP


SUR assembly CN14
(To page 13)
To AF asembly CN8
(To page 16)
FL assembly (AWZ3607)
FL assembly (AWZ3602)
Q1001 : IND.DRIVER
Q1002,Q1003 : BUFFER
Q1004 : IND.DRIVER
D1005-1016 : ISS252
Q1005-1016 : XDC124ES
Q1006-Q1016 : FL GRID DRIVER
* : VSX-51, VSX-4950S ONLY
( ) : VSX-4900S, VSX-4800

A

B

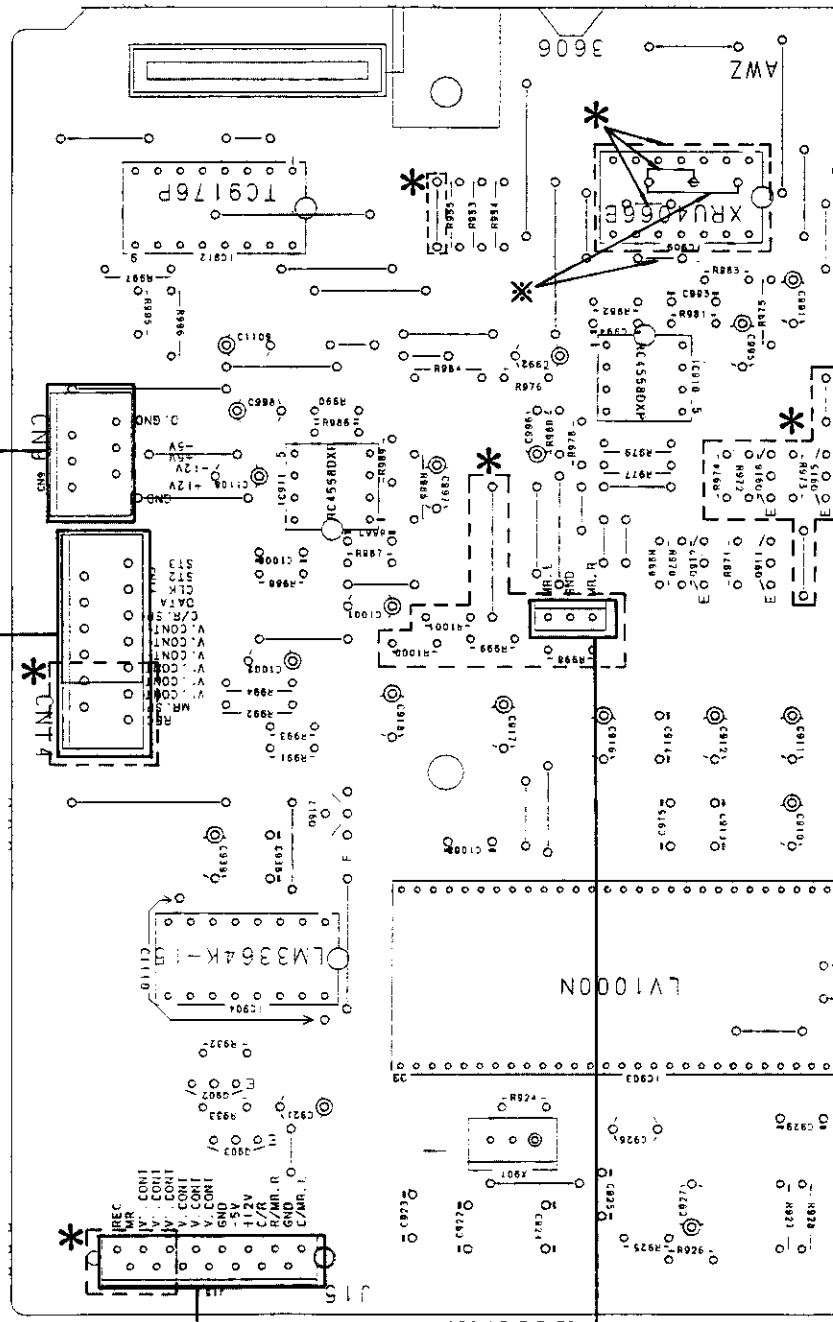
C

D

IC912
IC911 Q917
Q902 IC904 Q903

IC909 IC910
Q912 Q916 Q911 Q

IC903



SUR assembly (AWZ3606)
(AWZ3601)

To AF assembly J9
(To page 14)

To FL assembly J14
(To page 39)

To MR ass
(To pa

To V/SP assembly J15
(To page 28,30)

NOTE

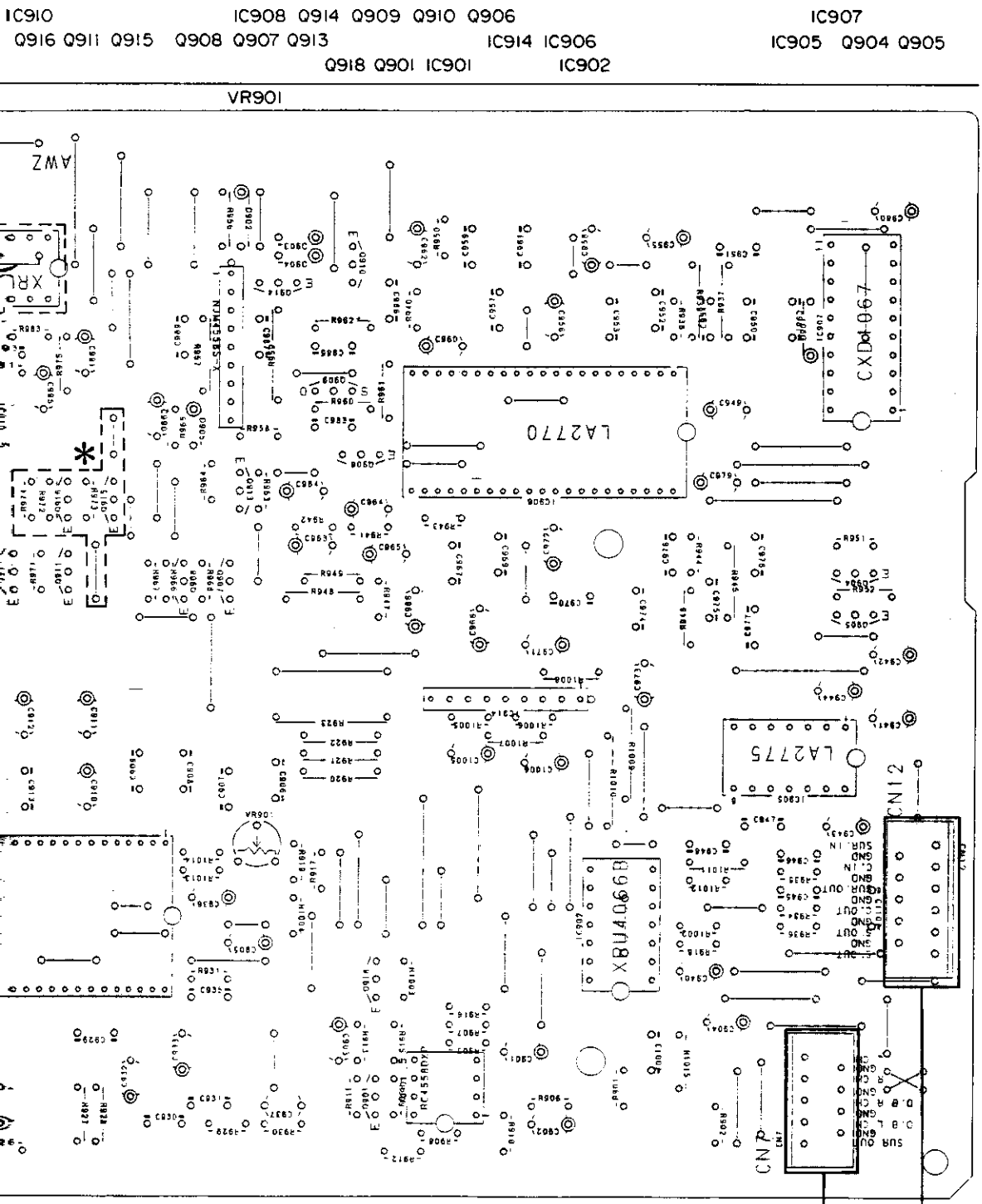
1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
Q504 (E)	or (E)	Transistor
Q215	or	Radiator type transistor
Q203	D203	Diode
R237	R237	Resistor
C513		Capacitor (Polarity)
C518		Capacitor (Non-polarity)

Others

P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

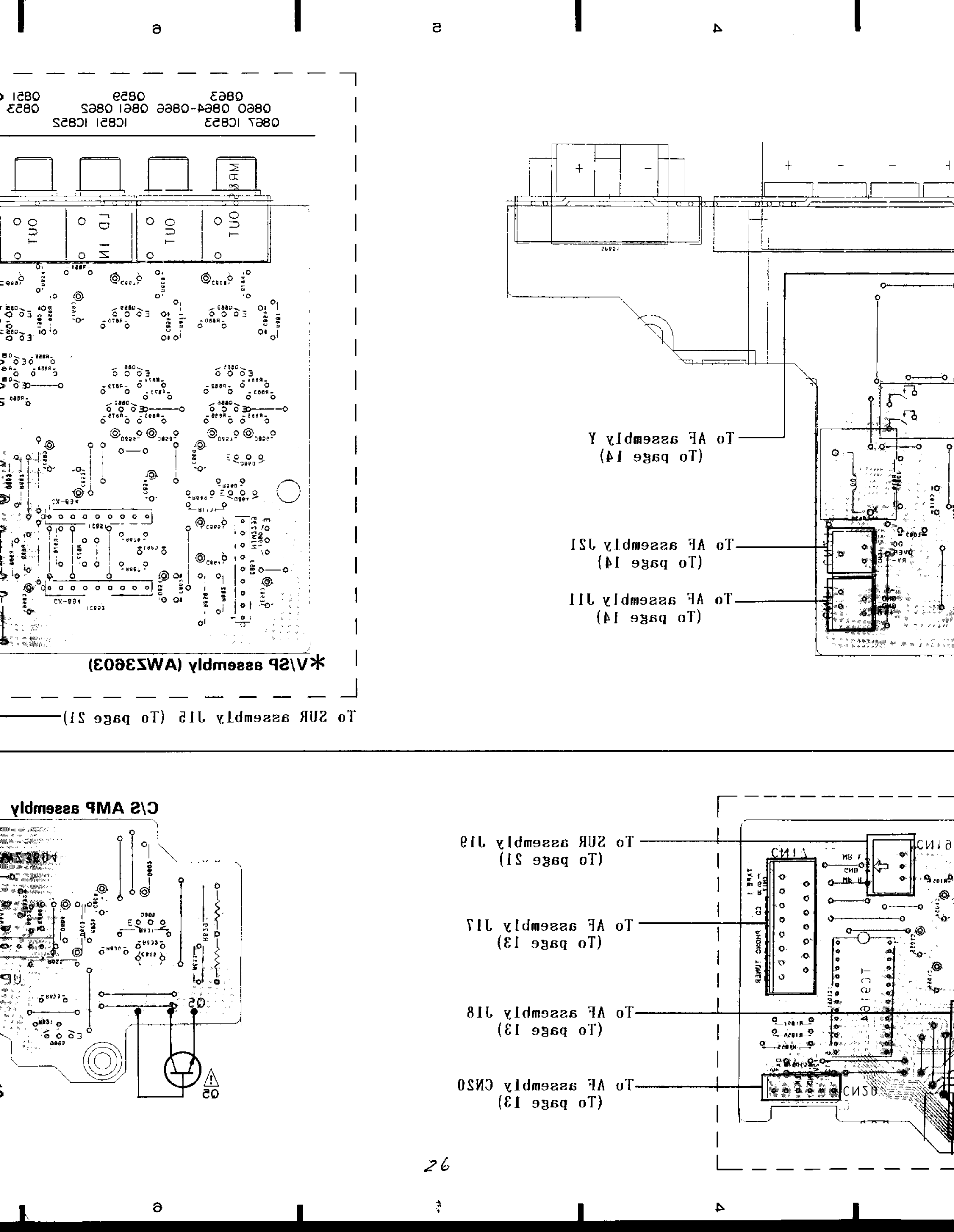
3. The capacitor terminal marked with ⓞ(double circles) shows negative termianl.
4. The diode terminal marked with ⓞ(double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.


IC910
Q916 Q911 Q915
IC908 Q914 Q909 Q910 Q906
Q908 Q907 Q913
Q918 Q901 IC901
IC914 IC906
IC902
IC907
IC905 Q904 Q905
VR901
LA2770
LA2775
CXD1067
XBU4066B
CN12
CN2
To AF assembly J7
(To page 13)
To MR assembly CN19
(To page 28)
To VR assembly J12
(To page 39)

To AF assembly J7
(To page 13)
To MR assembly CN19
(To page 28)
To VR assembly J12
(To page 39)

To AF assembly J9
(To page 14)
To FL assembly J14
(To page 39)
To MR s
(To
To V/SP assembly J15
(To page 28,30)
SUB assembly (AWZ3606)
(AWZ3601)

To AF assembly Y
(To page 14)
To AF assembly J21
(To page 14)
To AF assembly J11
(To page 14)

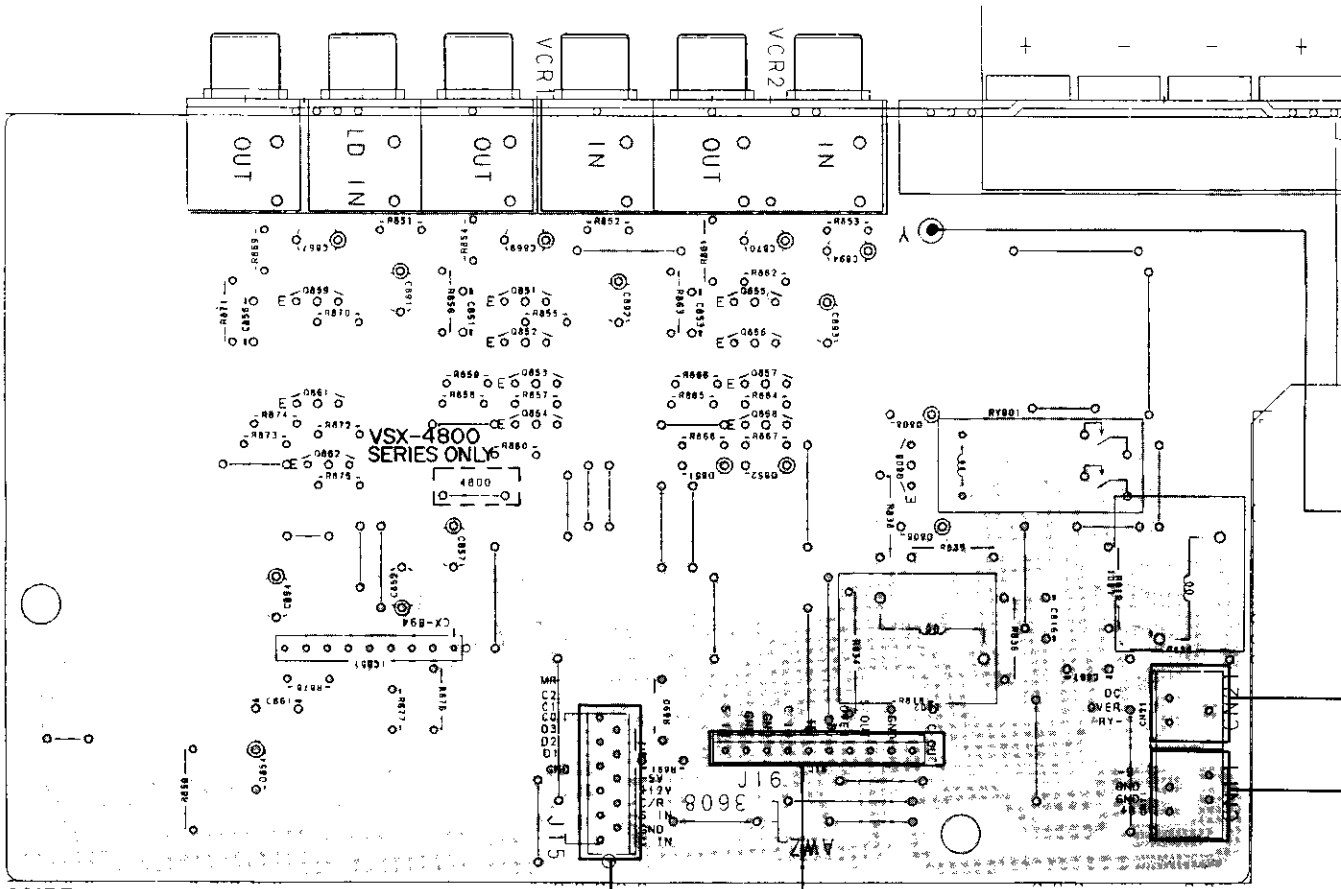

6
5
4
Q863
Q860 Q864-Q866
Q867 IC853
Q859
Q861 Q862
IC851 IC852
Q851
Q853
*V/SP assembly (AWZ3603)
To SUR assembly J15 (To page 21)
To AF assembly Y
(To page 14)
To AF assembly J21
(To page 14)
To AF assembly J11
(To page 14)
C/S AMP assembly
To SUR assembly J19
(To page 21)
To AF assembly J17
(To page 13)
To AF assembly J18
(To page 13)
To AF assembly CN20
(To page 13)
CN20
Q5

V\SP assembly (AWZ3608)

To SUR assembly J15 (To page 21)

*MR assembly

4.4 V/SP (AWZ3608 and AWZ3603), C/S AMP (AWZ3604) and MR assembly



V/SP assembly (AWZ3608)

To SUR assembly J15 (To page 21)

NOTE

1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

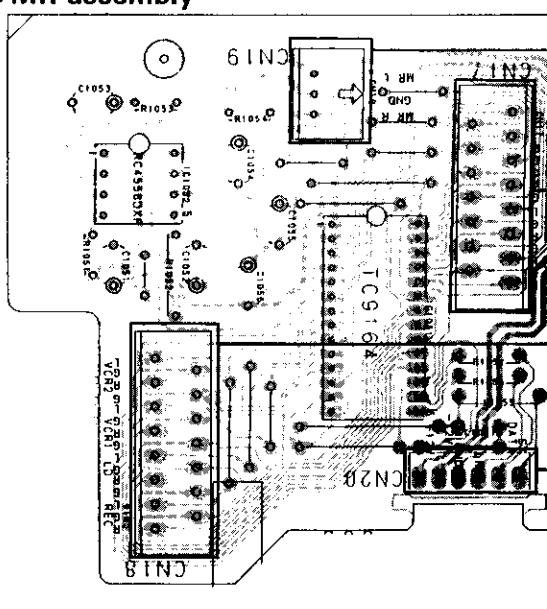
P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
Q504 E B C	E B C or E B C	Transistor
Q215 B C E	E B C or E B C	Radiator type transistor
D203	D203	Diode
R237	R237	Resistor
C513	C513	Capacitor (Polarity)
C518	C518	Capacitor (Non-polarity)

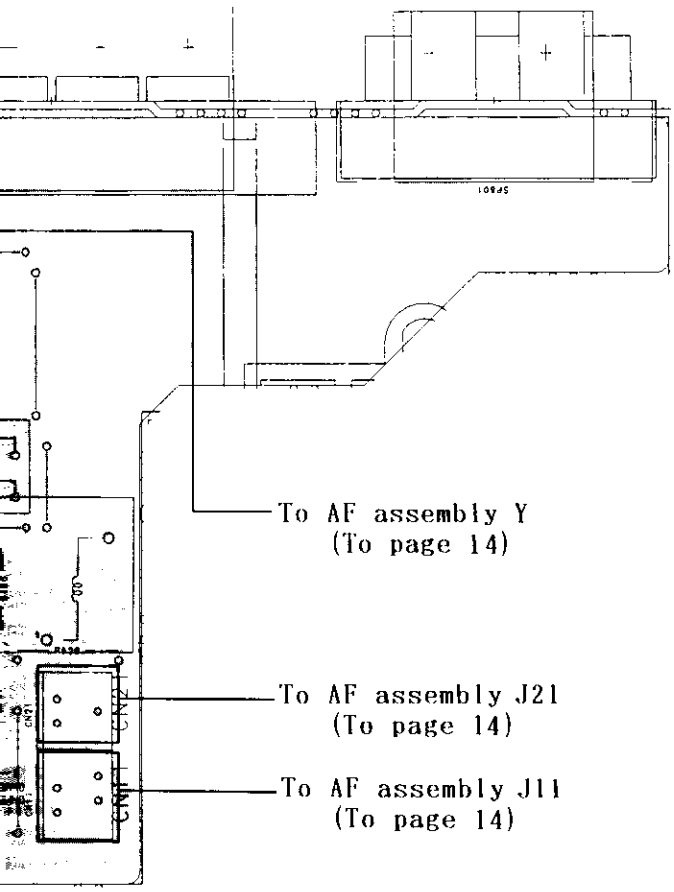
Others

P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

3. The capacitor terminal marked with ⊖(double circles) shows negative terminal.
4. The diode terminal marked with ⊖(double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

*** MR assembly**



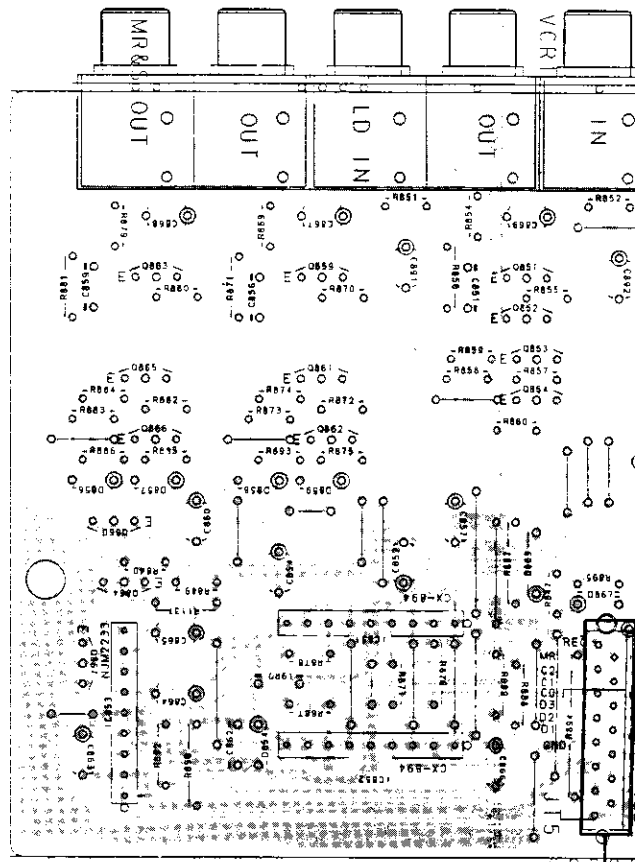


To AF assembly Y
(To page 14)

To AF assembly J21
(To page 14)

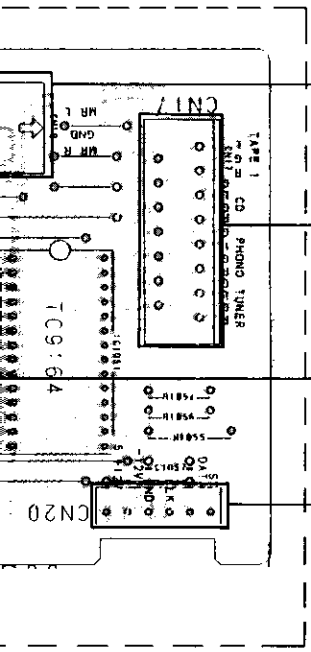
To AF assembly J11
(To page 14)

Q863 Q859 Q851 Q852
Q860 Q864-Q866 Q861 Q862 Q853 Q854
Q867 IC853 IC851 IC852



***V/SP assembly (AWZ3603)**

To SUR assembly J15 (To page 21)



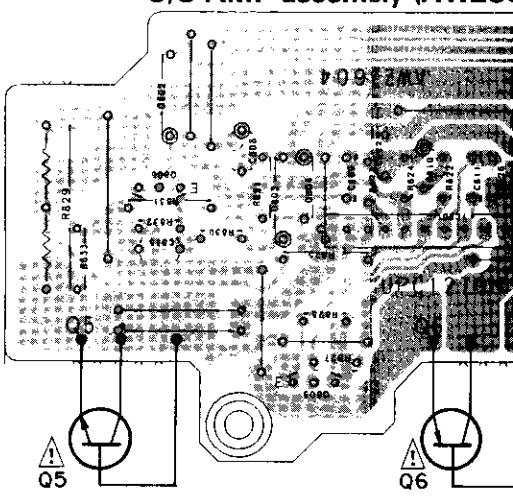
To SUR assembly J19
(To page 21)

To AF assembly J17
(To page 13)

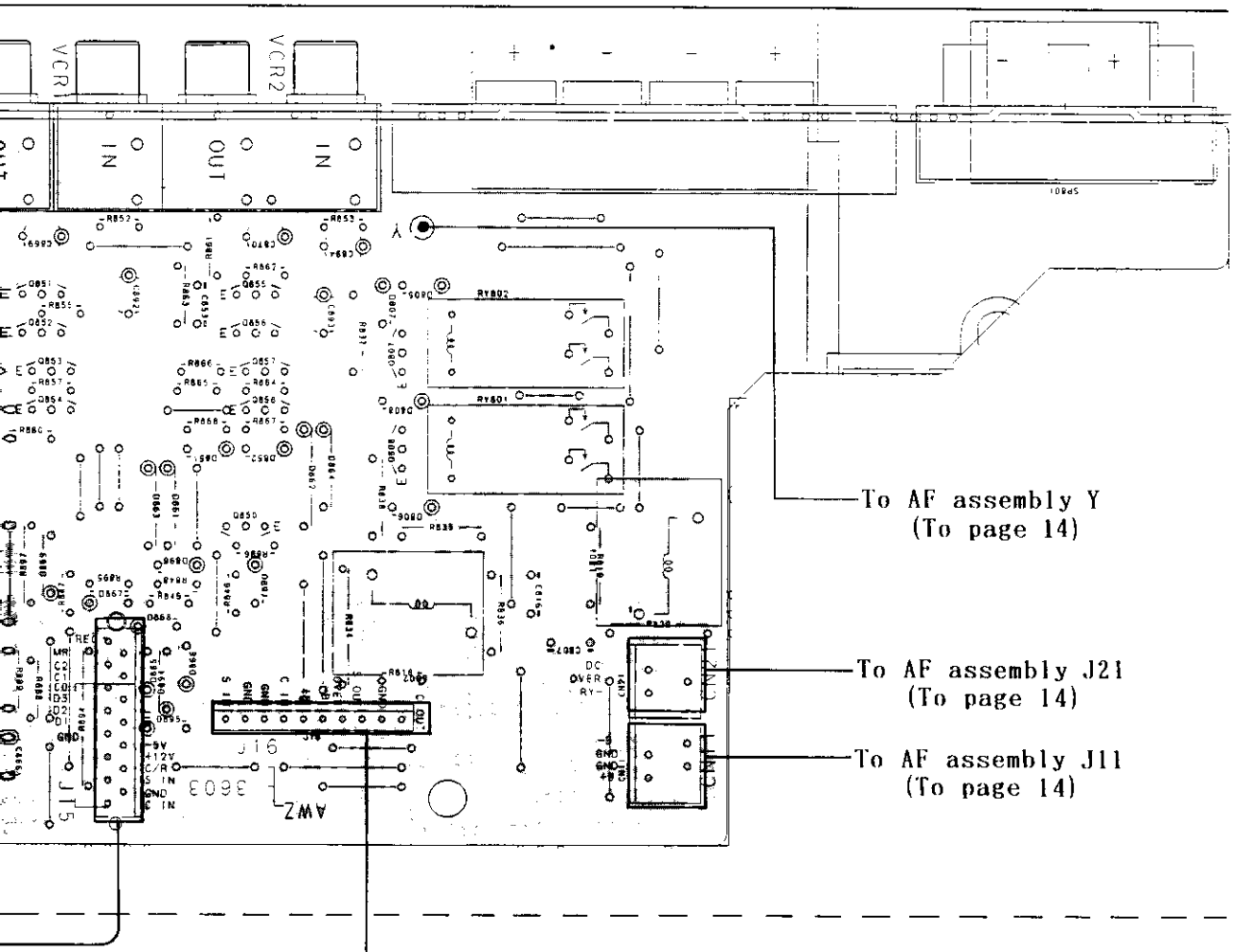
To AF assembly J18
(To page 13)

To AF assembly CN20
(To page 13)

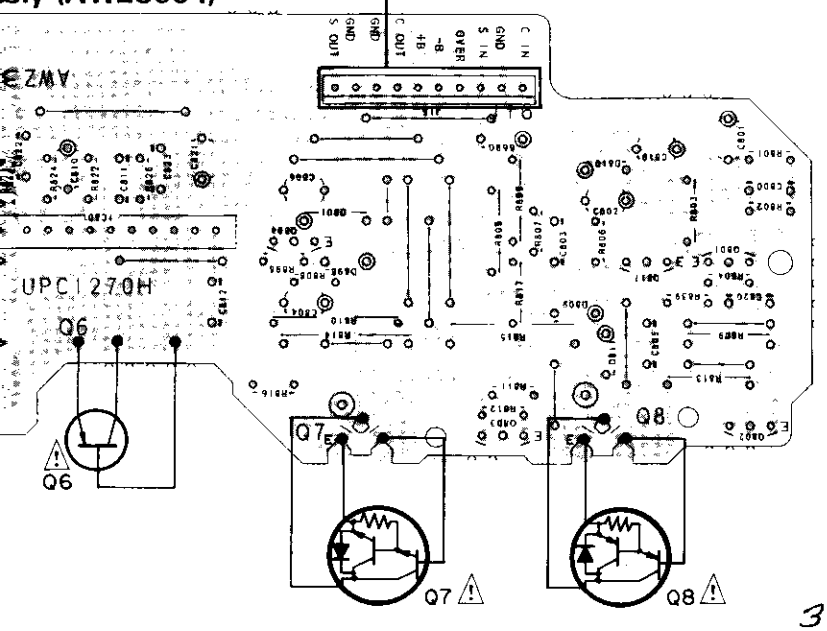
C/S AMP assembly (AWZ3



B51 Q852 Q855 Q856 Q807
B53 Q854 Q850 Q857 Q858 Q808



bly (AWZ3604)



FL as

NOTE

1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

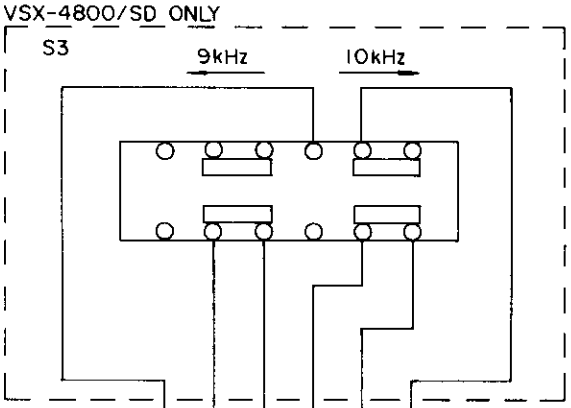
P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
Q504 E	E or E	Transistor
Q215	or	Radiator type transistor
D203	D203	Diode
R237	R237	Resistor
C513	+	Capacitor (Polarity)
C518		Capacitor (Non-polarity)

Others

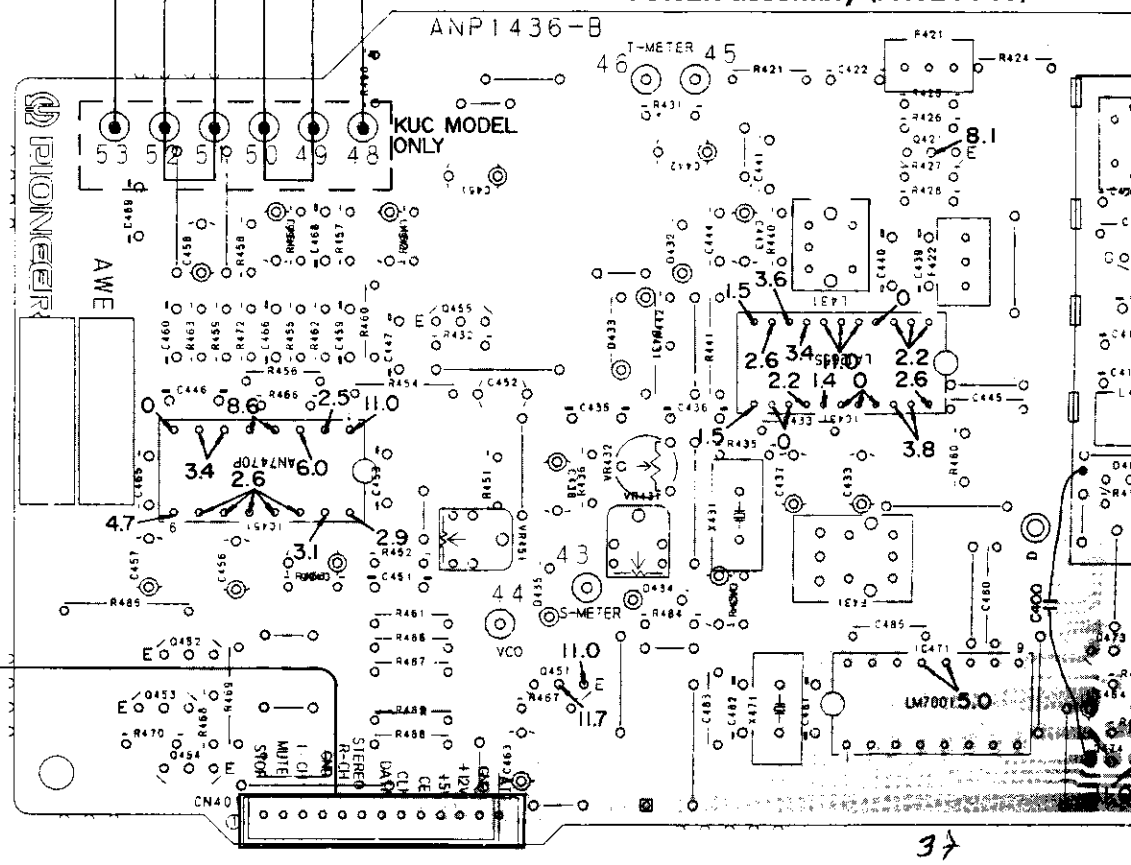
P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

3. The capacitor terminal marked with ⓝ (double circles) shows negative terminal.
4. The diode terminal marked with ⓚ (double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

VSX-4800/SD ONLY

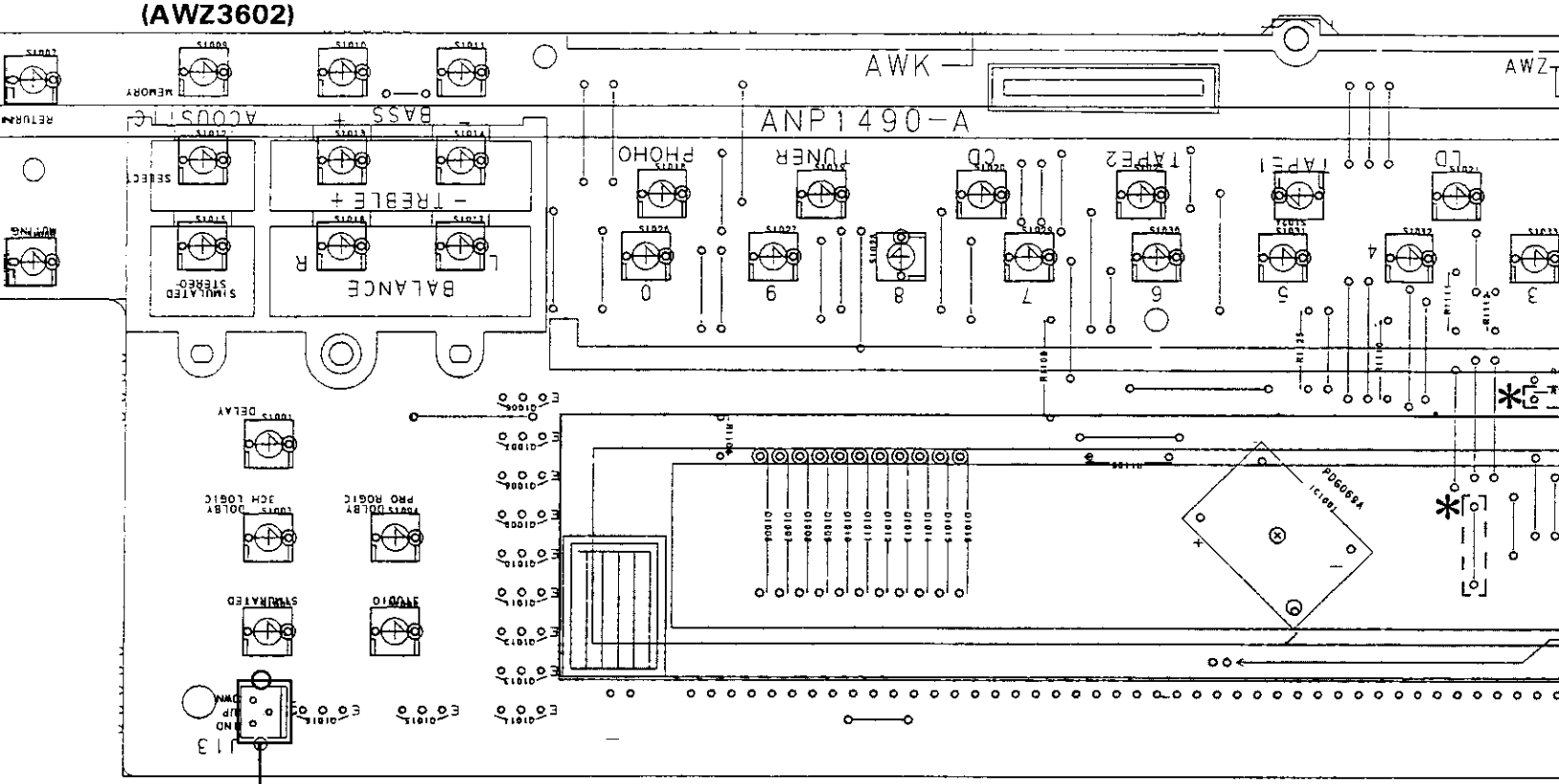


TUNER assembly (AWE1140)

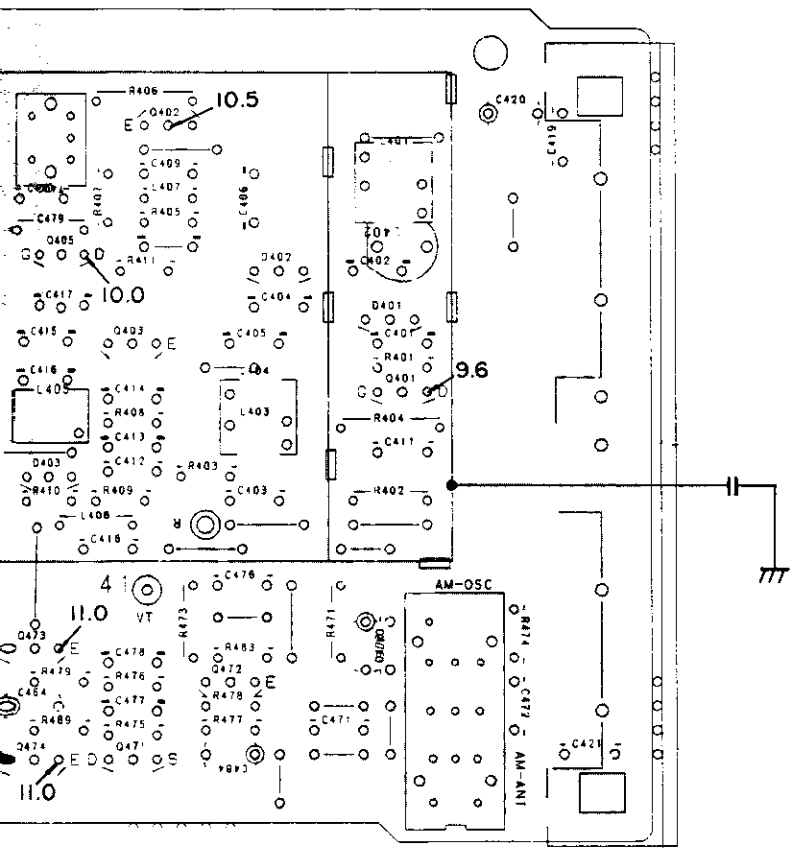


To AF assembly CN401
(To page 13)

assembly (AWZ3607)
(AWZ3602)

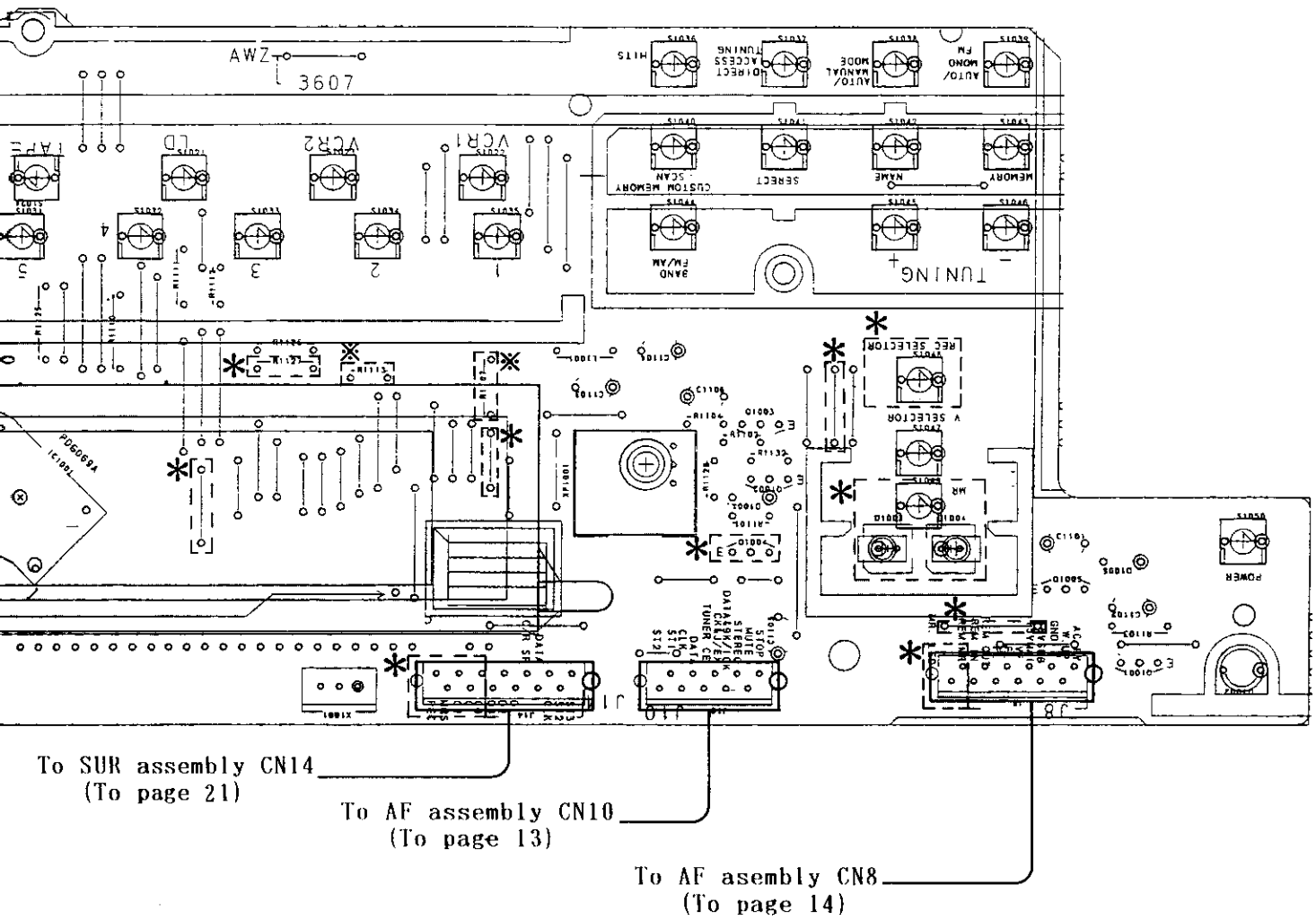


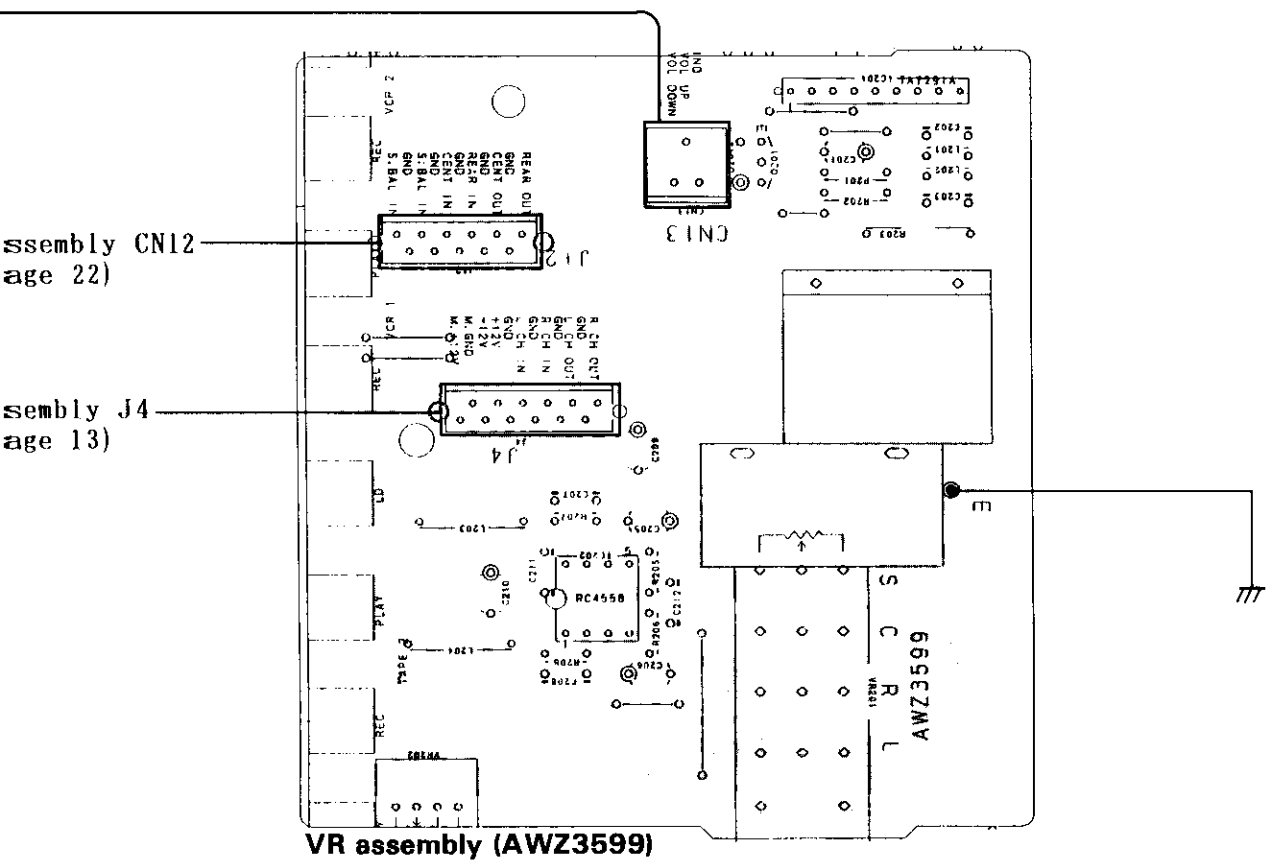
To SUR assembly CN
(To page 21)



To SUR assembly CN12
(To page 22)

To AF assembly J4
(To page 13)





VR assembly (AWZ3599)

To SUB assembly CN14
(To page 21)
To AF assembly CN10
(To page 13)
To AF assembly CN8
(To page 14)

R assembly CN12
o page 22)
assembly 14
o page 13)
VR assembly (AWZ359)

FL assembly (AWZ3607)
(AWZ3602)

To SUR ass
(To pag

To SUR assembly CN12
(To page 22)

To AF assembly 14
(To page 13)

1/7

TUNER assembly (AWE1140)

T1
POWER TRANSFORMER
VSX-4800/SD ONLY
FUS
T1
POWER TRANSFORMER
S1
AC POWER CORD
AC 120V
50Hz

TRANS assembly

To AF assembly J6
(To page 14)

SW assembly

To AF assembly J3
(To page 14)

To AF assembly J2
(To page 14)

To AF assembly J5
(To page 14)

To AF assembly J1
(To page 14)

VSX-4800/SD ONLY

S2

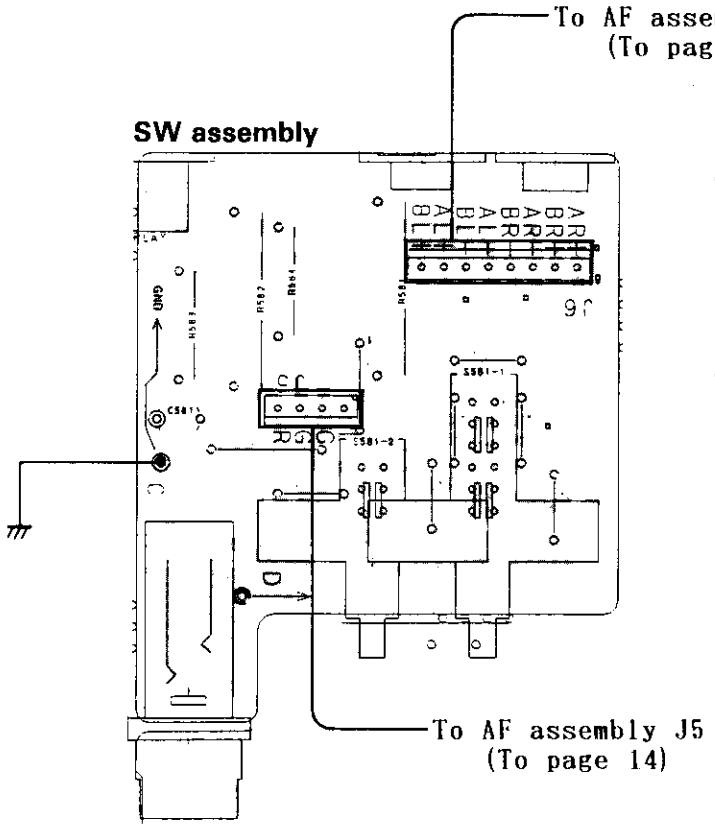
110-127V 220-240V

SB. TR assembly

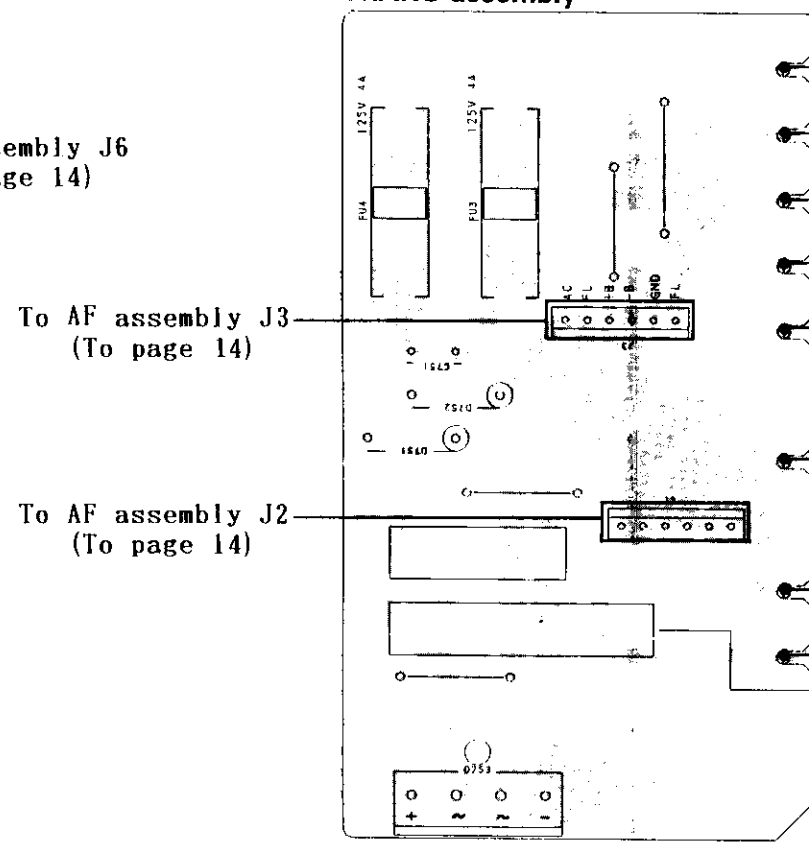
(NOTE)
When replace the SB.TR assembly of SD type,
cut the part *1.

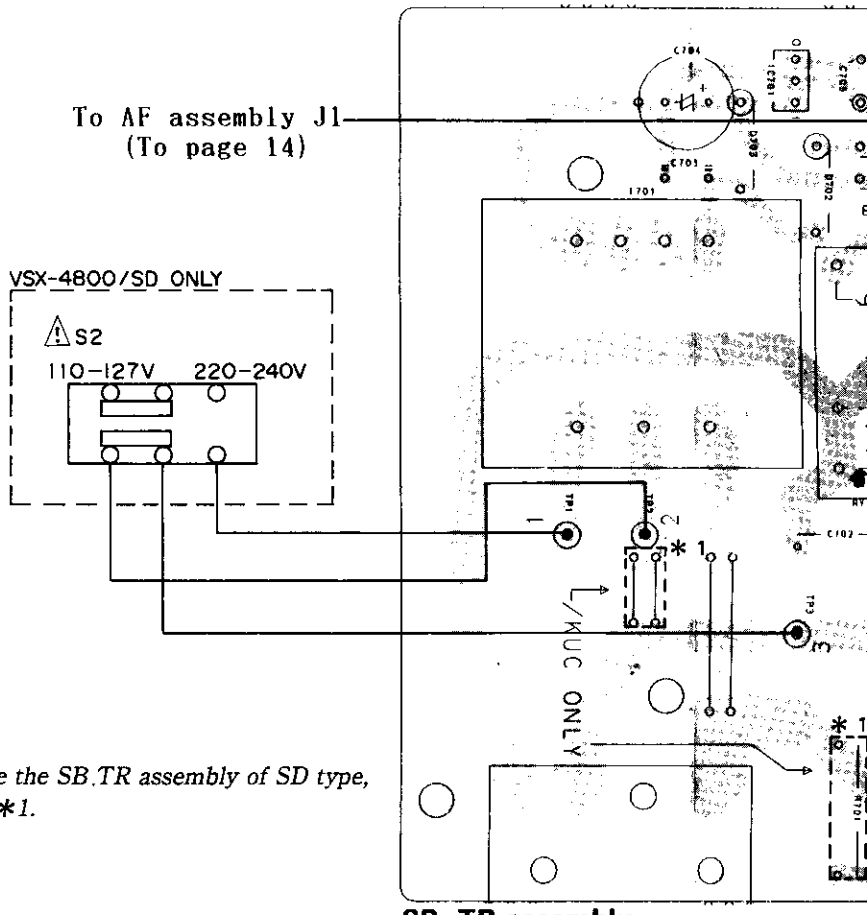
4.6 SW, TRANS and SB. TR assembly

SW assembly



TRANS assembly





SB. TR assembly

NOTE

1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

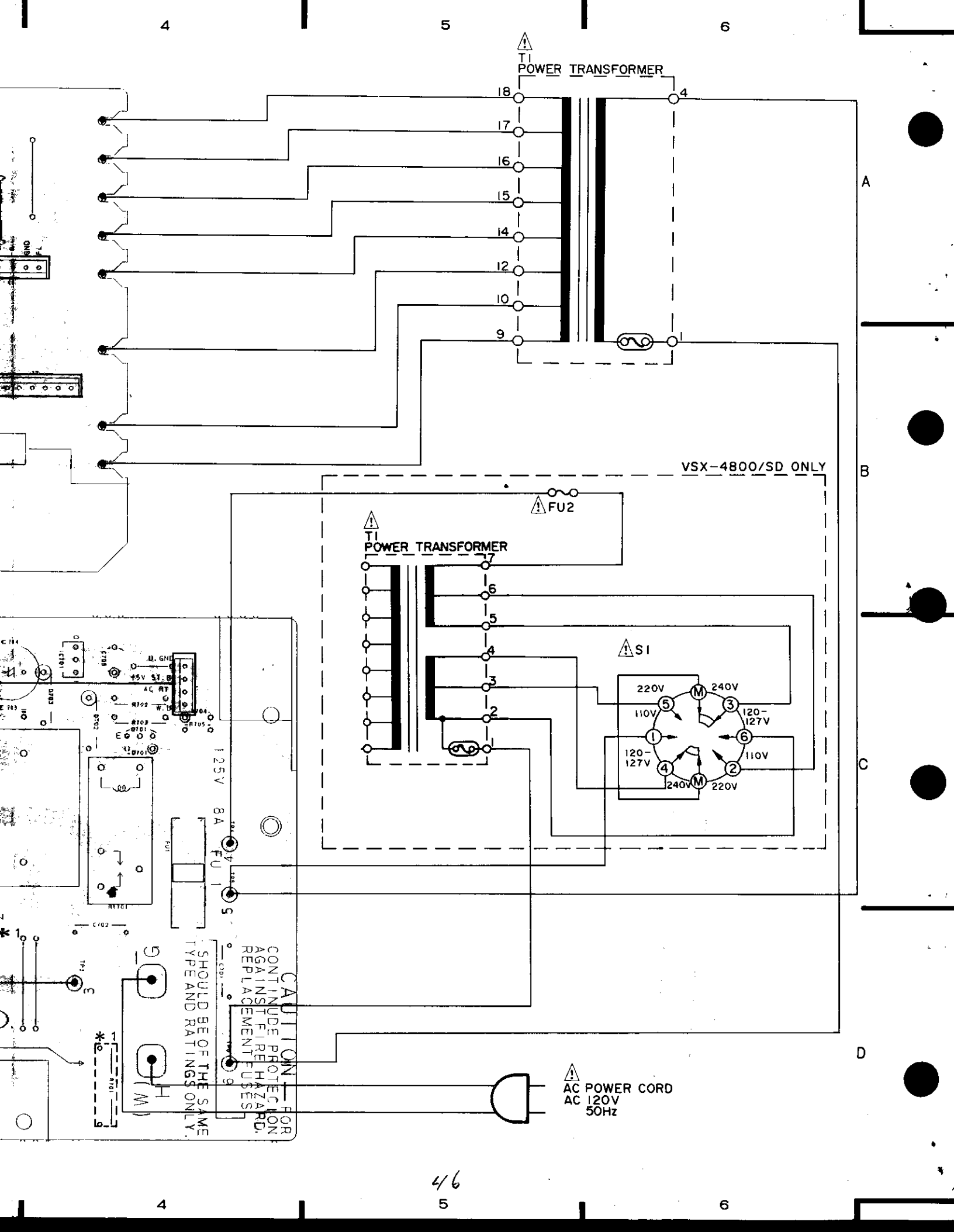
P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
Q504 E	or	Transistor
Q215	or	Radiator type transistor
D203	D203	Diode
R237	R237	Resistor
C513		Capacitor (Polarity)
C518		Capacitor (Non-polarity)

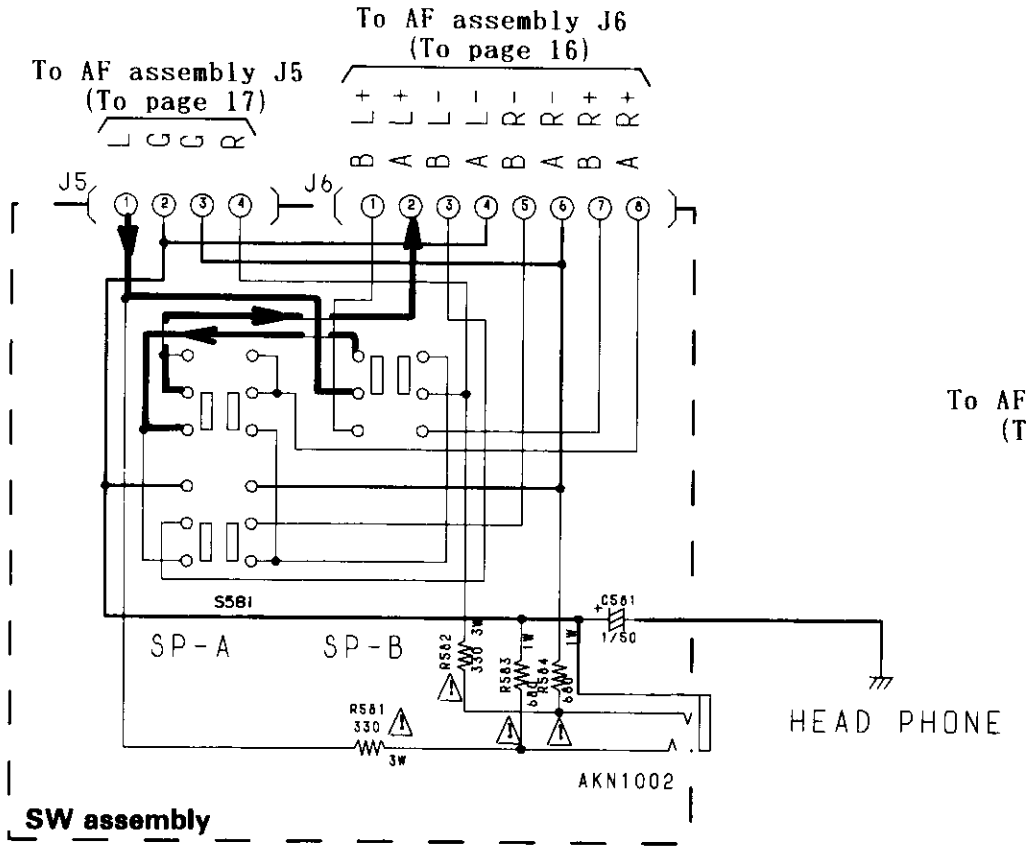
Others

P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

3. The capacitor terminal marked with ⊖(double circles) shows negative termianl.
4. The diode terminal marked with ⊖(double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

NOTE)
When replace the SB.TR assembly of SD type, cut the part ∗1.


4
5
6
A
B
C
D
T1
POWER TRANSFORMER
18
17
16
15
14
12
10
9
4
1
VSX-4800/SD ONLY
FU2
T1
POWER TRANSFORMER
7
6
5
4
3
2
1
S1
220V
240V
110V
120-
127V
120-
127V
110V
240V
220V
125V 8A
FU1
CAUTION — FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACEMENT FUSES SHOULD BE OF THE SAME TYPE AND RATINGS ONLY.
AC POWER CORD
AC 120V
50Hz
4/6

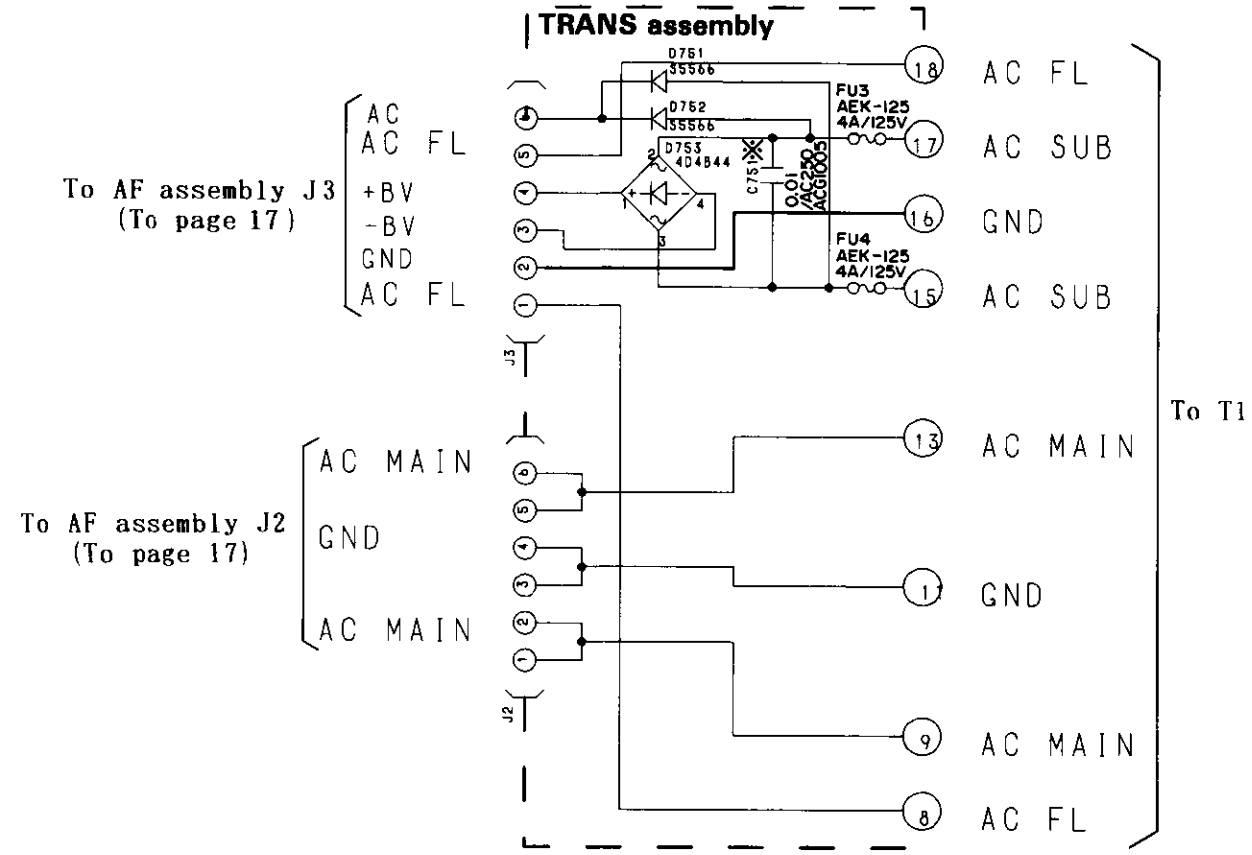


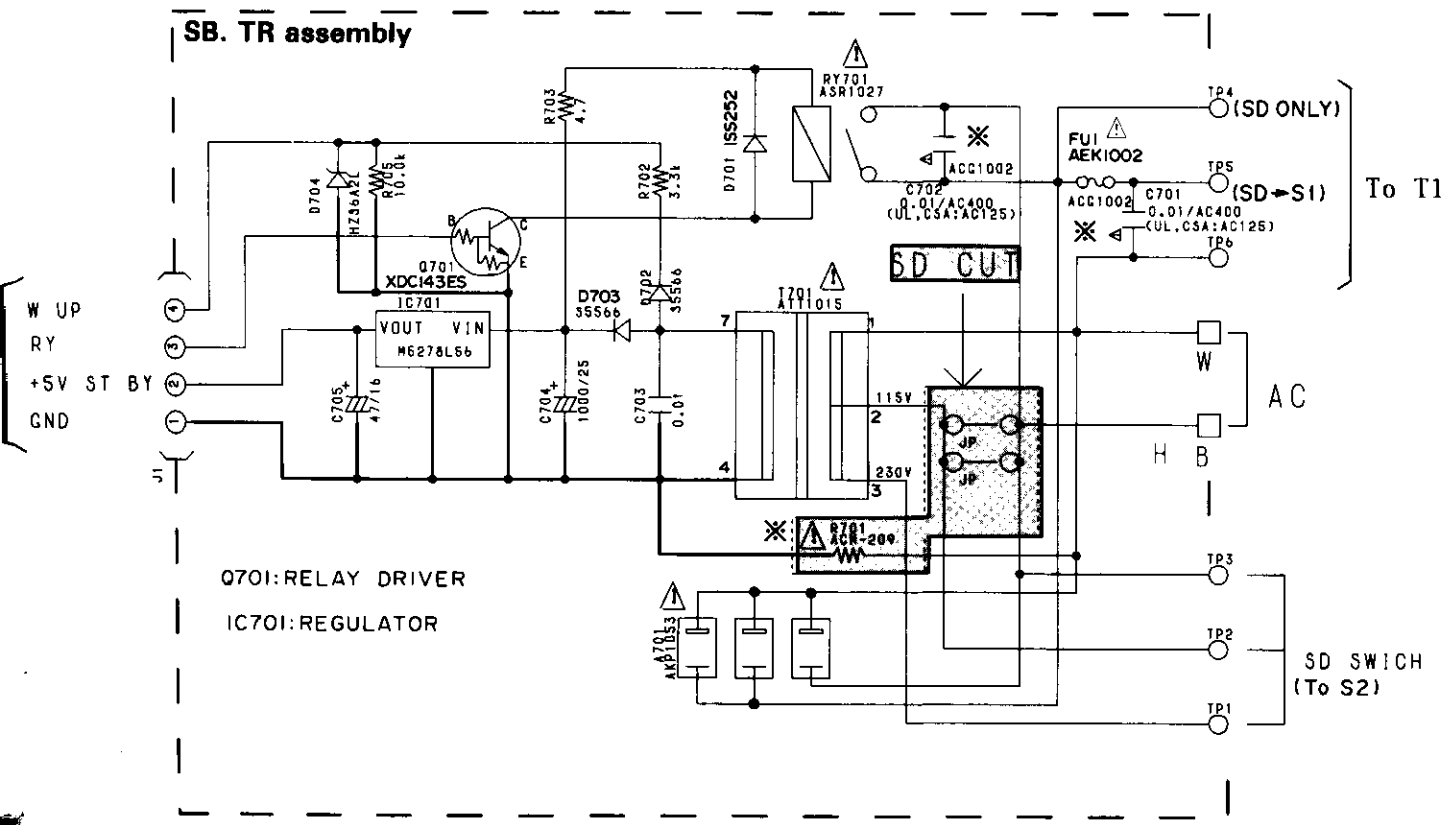
To AF assembly J1
(To page 17)

W UP
RY
+5V ST BY
GND

To AF
(To

To AF ass
(To pa


TRANS assembly
To AF assembly J3
(To page 17)
AC
AC FL
+BV
-BV
GND
AC FL
To AF assembly J2
(To page 17)
AC MAIN
GND
AC MAIN
D751
35566
D752
35566
D753
4D4B44
FU3
AEK-125
4A/125V
FU4
AEK-125
4A/125V
C751
0.01
/AC250
ACG1005
J3
J2
AC FL
AC SUB
GND
AC SUB
AC MAIN
GND
AC MAIN
AC FL
To T1


SB. TR assembly
W UP
RY
+5V ST BY
GND
J1
D704
HZ36A2L
R705
10.0k
Q701
XDC143ES
IC701
VOUT VIN
M6278L66
C705
47/16
C704
1000/25
C703
0.01
D703
35566
R703
4.7
D701 1SS252
R702
3.3k
D702
35566
RY701
ASR1027
ACG1002
C702
0.01/AC400
(UL,CSA:AC125)
FU1
AEK1002
ACG1002
C701
0.01/AC400
(UL,CSA:AC125)
SD CUT
T701
AYF1015
115V
230V
JP
JP
R701
ACR-200
W
AC
H B
TP4
(SD ONLY)
TP5
(SD→S1)
TP6
TP3
TP2
TP1
SD SWICH
(To S2)
To T1
Q701:RELAY DRIVER
IC701:REGULATOR