CIRCUIT DIAGRAMS

VOL.6

FOR PIONEER AUDIO EQUIPMENTS

Including
STEREO RECEIVER
4-CHANNEL RECEIVER
STEREO TUNER

PIONEER

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STEREO RECEIVER

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4-CHANNEL RECEIVER

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1 Circuit diagrams without ass'y circuit diagrams.
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1. Tuner and power supply assemblies.
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2 Ass'y circuit diagrams.

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1 Circuit diagrams without ass'y circuit diagrams.
2 Ass'y circuit diagrams.

STEREO TUNER

㉘ **TX-5300**

㉙ **TX-6200**

㉚ **TX-7100**

㉛ **TX-8100**

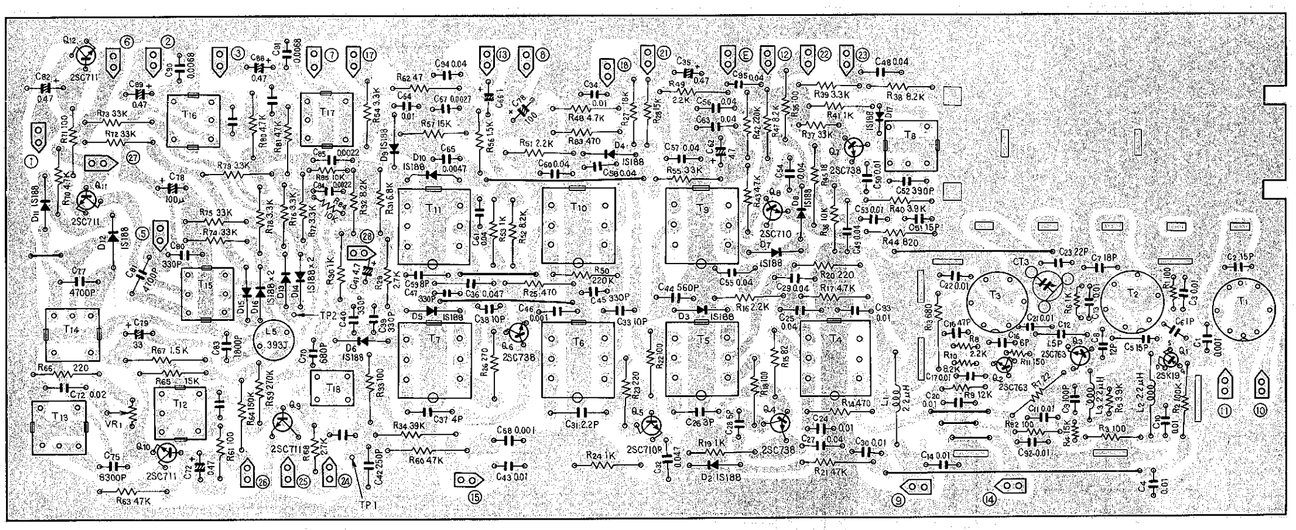
㉜ **TX-9100**

㉝ **TX-9500**

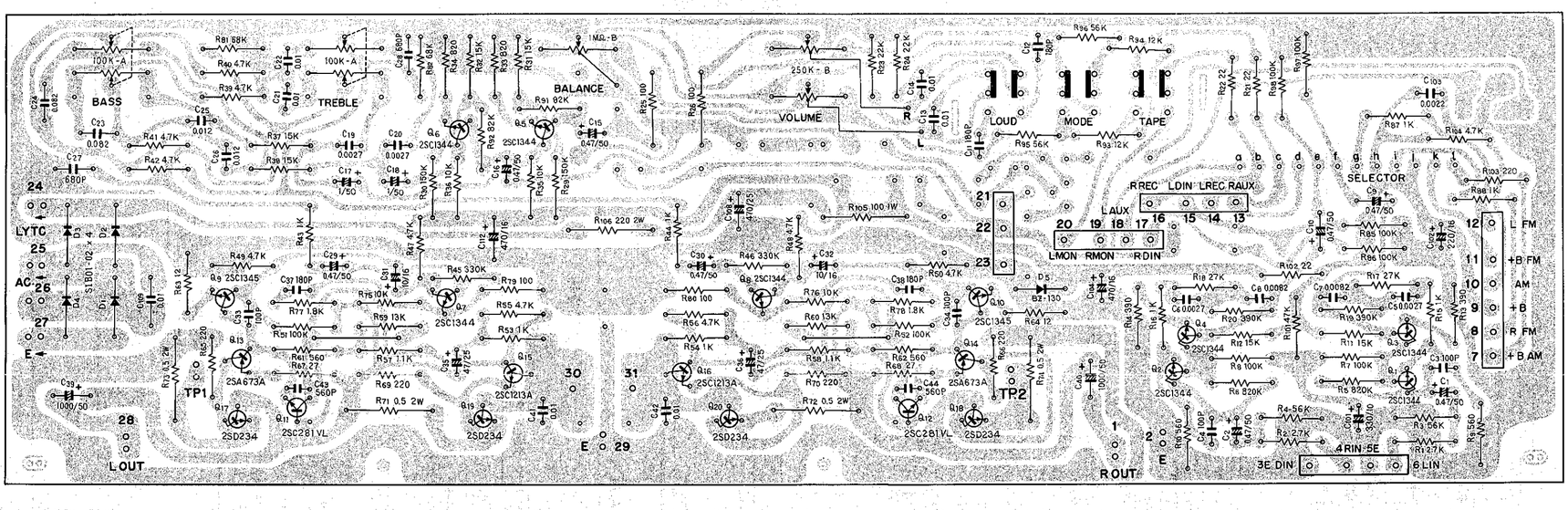
NOTES:

- Each line voltage and standard (i.e., UL, CSA, SEV, SABS, etc.) of each model is partially altered to conform to the requirements of a destination to which model is shipped. See a space available on supplied circuit diagram.
- Each symbol (KU, KC, FV, NB, etc.), which shows a destination for which necessary standard has been acquired, is easily identifiable with the round label on the rear panel of each model.

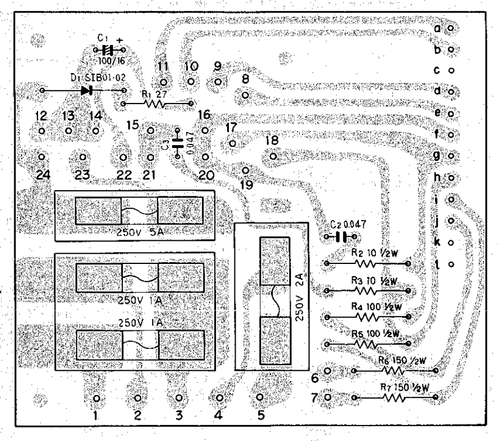
Tuner ass'y AWE-004



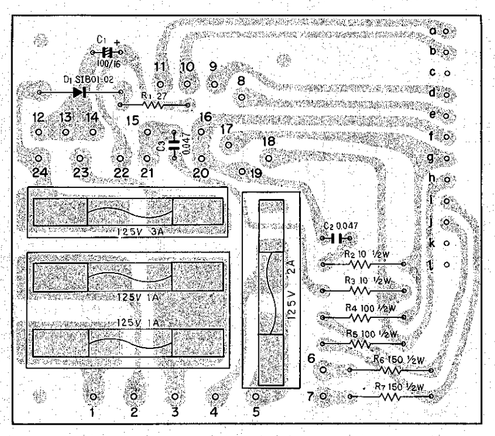
AF amp ass'y AWK-028



Power switch ass'y AWS-051 (NBW model)



Power switch ass'y AWS-052 (FVW model)



NOTE: This series comes in model SX-300, SX-300D and SX-300W.



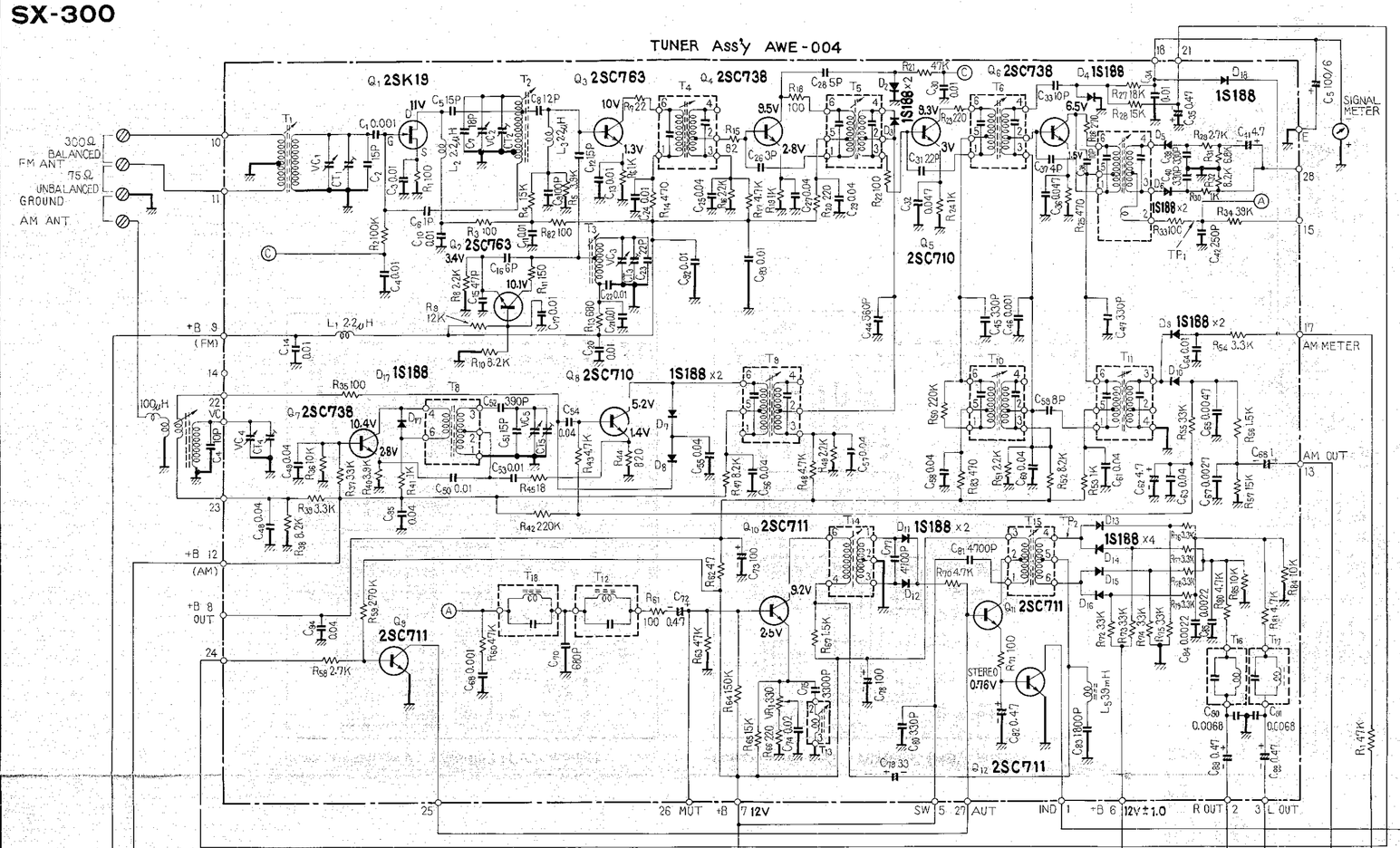
AM/FM STEREO RECEIVER

SX-300

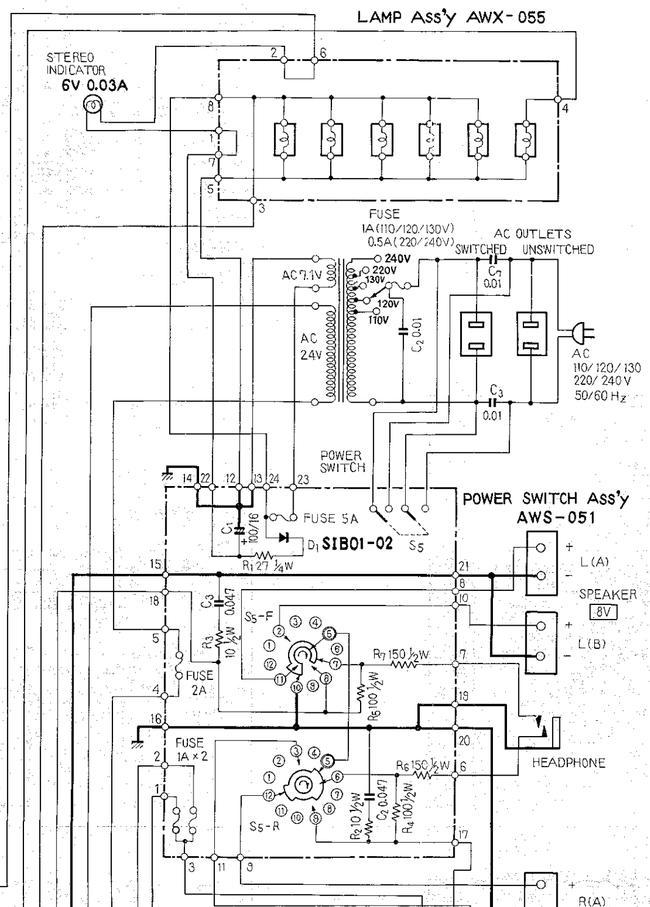
NBW FVW

SX-300

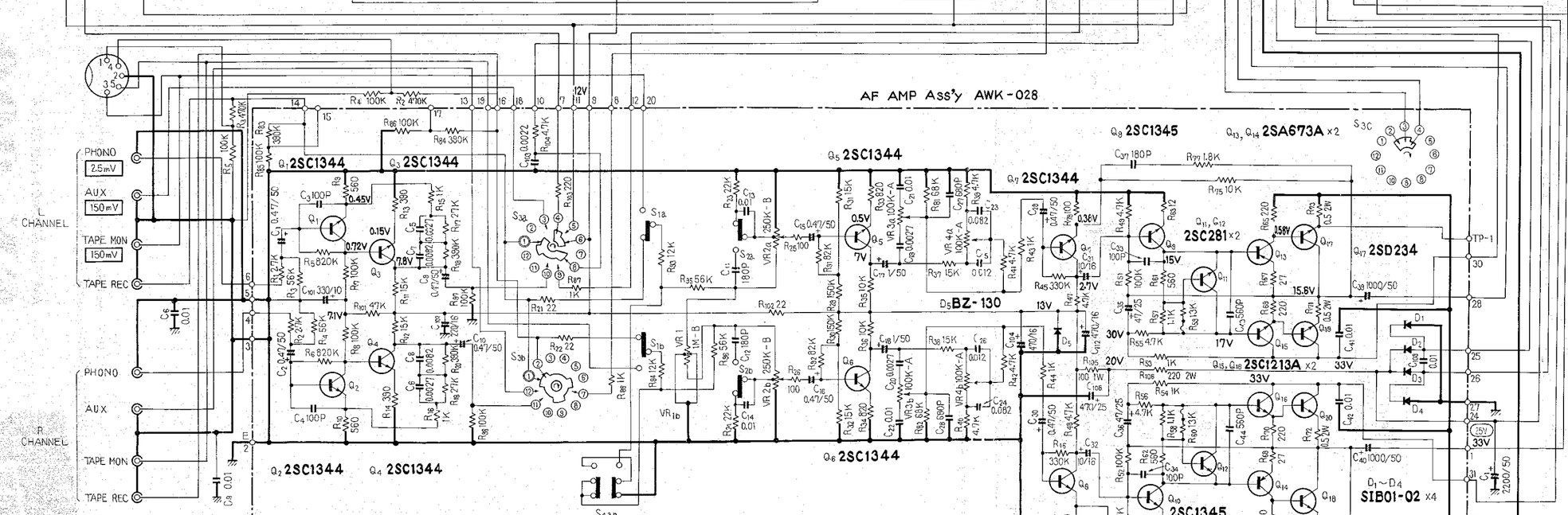
TUNER Ass'y AWE-004



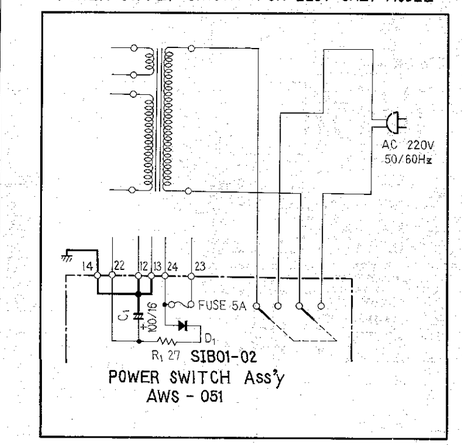
LAMP Ass'y AWX-055



AF AMP Ass'y AWK-028



POWER SUPPLY CIRCUIT FOR 220V ONLY MODEL



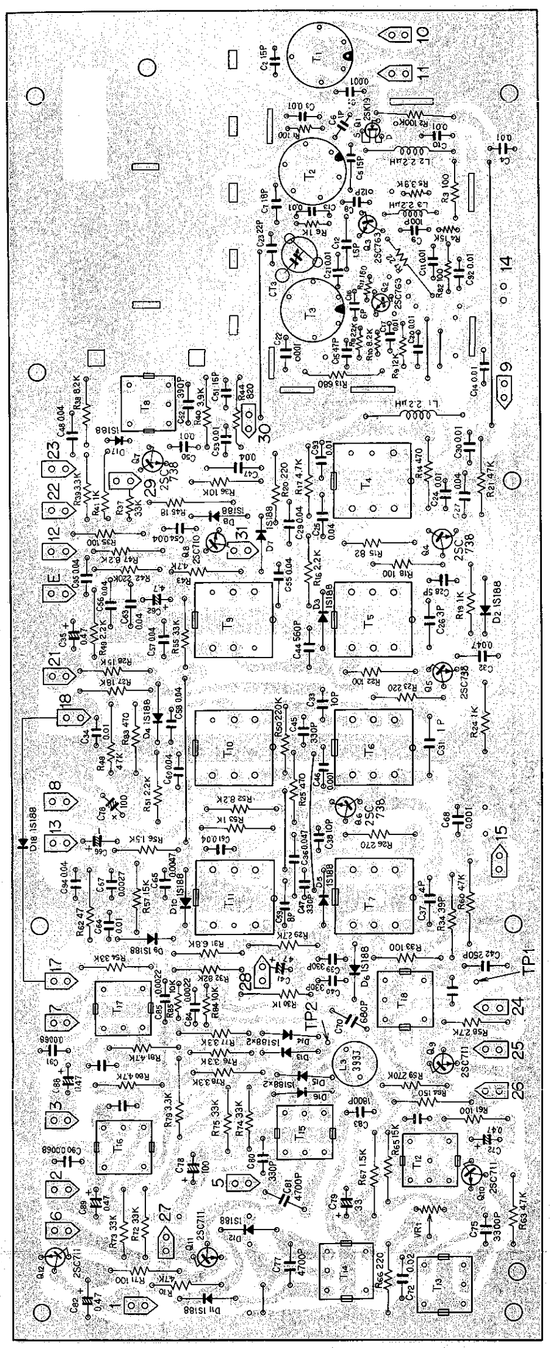
SWITCHES
- S1 TAPE MONITOR (OFF position)
- S2 LOUDNESS (OFF position)
- S3 FUNCTION (AM position)
  - 1 AM
  - 2 FM
  - 3 PHONO
  - 4 AUX

S4 MODE (STEREO position)
S5 SPEAKERS (POWER OFF position)
- 1 POWER OFF
- 2 A
- 3 SPEAKER OFF
- 4 B
- 5 A+B

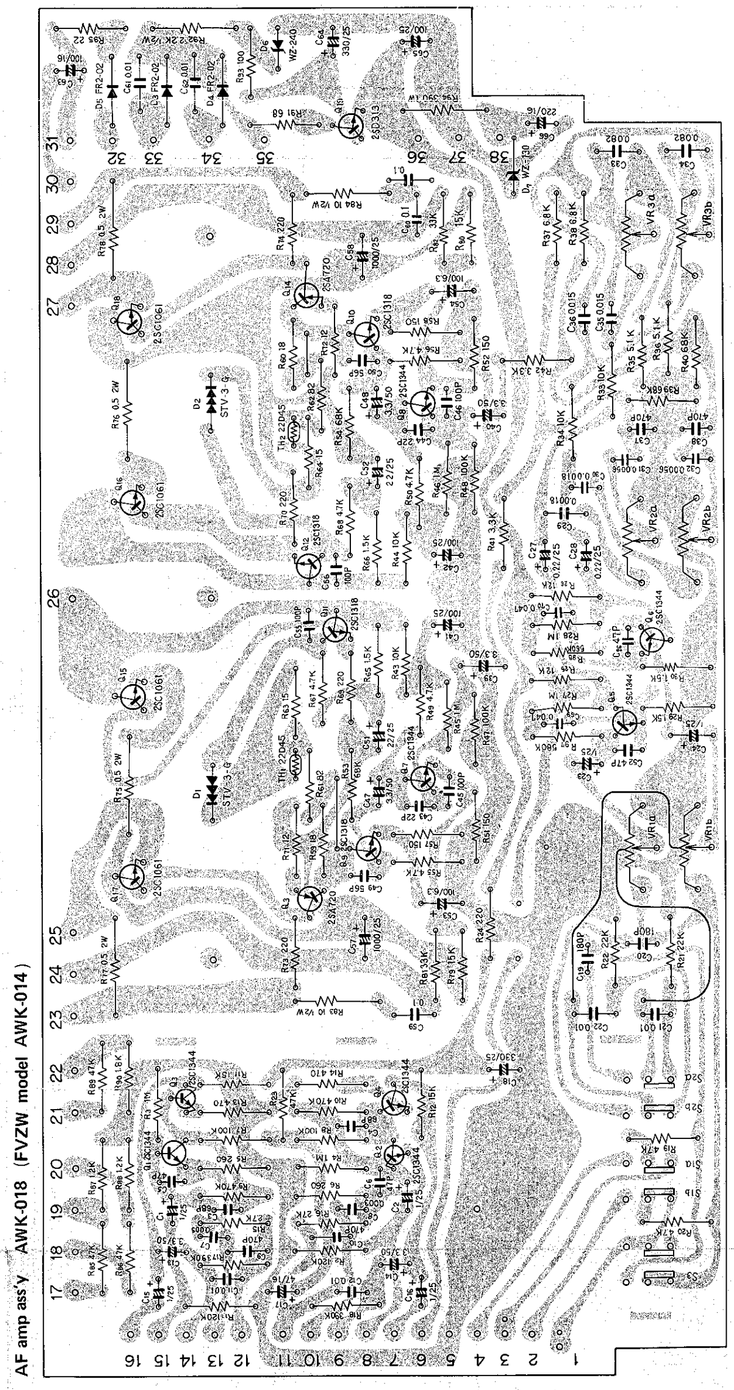
POTENTIOMETERS
- VR1 BALANCE
- VR2 VOLUME
- VR3 TREBLE
- VR4 BASS

V : DC VOLTAGE AT NO INPUT SIGNAL.
□ : SIGNAL VOLTAGE NECESSARY FOR OBTAINING 8W/8Ω OUTPUT POWER (1KHz).

Tuner ass'y AWE-008



AF amp ass'y AWK-018 (FVZW model AWK-014)





AM/FM STEREO RECEIVER

SX-424

FVZW KCW KUW NBW

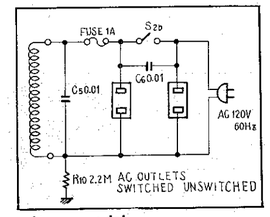
SX-424

TUNER ASS'y AWE-008

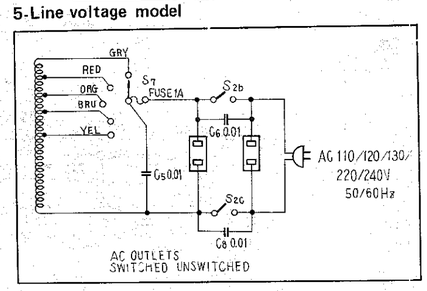
SWITCHES
- S_1 INPUT SELECTOR
  - 1 AM
  - 2 FM MONO
  - 3 FM AUTO
  - 4 PHONO
  - 5 AUX
- S_2 OUTPUT SELECTOR
  - 1 POWER OFF
  - 2 A
  - 3 SPEAKER OFF
  - 4 B
  - 5 A + B
- S_4 TAPE MON
- S_5 MODE
- S_6 LOUDNESS

NOTES
NO INPUT SIGNAL DC CURRENT
NO INPUT SIGNAL DC VOLTAGE
MAX INPUT SIGNAL DC VOLTAGE
SIGNAL VOLTAGE WHEN 1W/8Ω IS ACQUIRED.

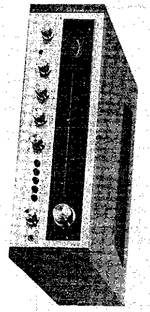
120V model



5-Line voltage model



AF amp ass'y AWK-018 (FVZW model AWK-014)

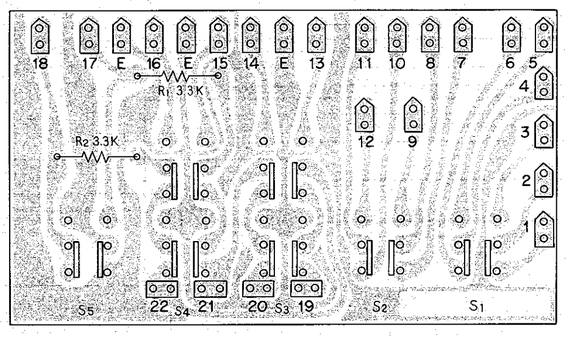


AM/FM STEREO RECEIVER

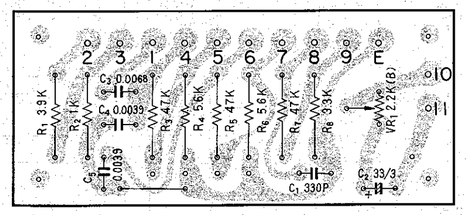
SX-525

FVZW FW KCW KUW NBW

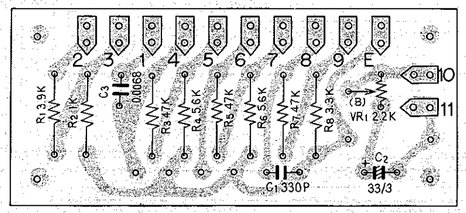
Switch circuit ass'y AWS-015



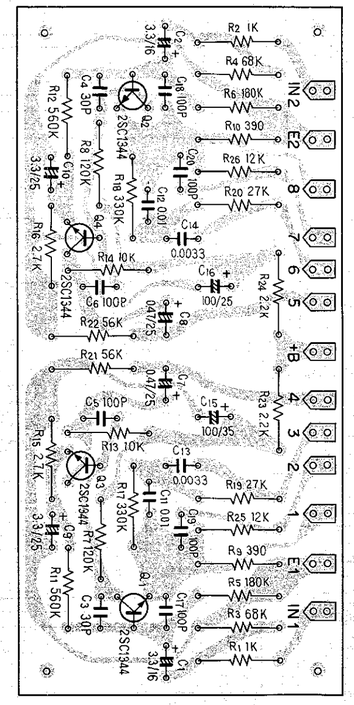
CR ass'y AWX-012 (KCW, KUW model)



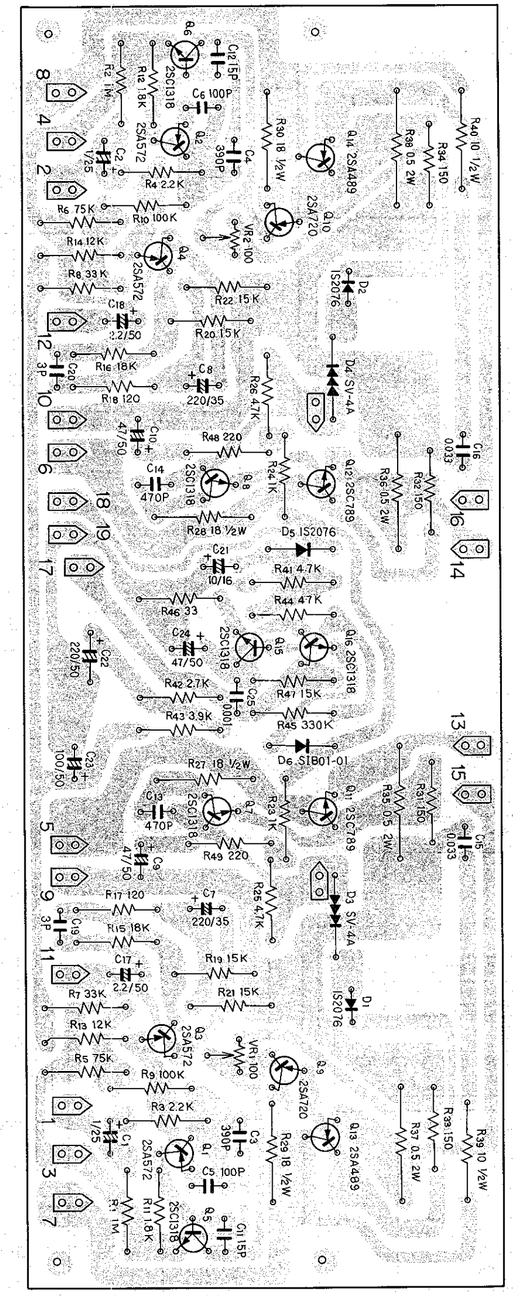
CR ass'y AWX-013 (FW, NBW, FVZW model)



Equalizer amp ass'y AWF-003



Power amp ass'y AWH-006 (NBW model AWH-012)


R40 10 1/2W
R34 150
R38 0.5 2W
Q14 2SA489
Q10 2SA720
R30 18 1/2W
VR2 100
R10 100K
R6 75K
R14 12K
R8 33K
R22 15K
R20 15K
R16 18K
R18 12Q
R26 4.7K
R48 220
R24 1K
R28 18 1/2W
R41 4.7K
R44 4.7K
R46 33
R42 2.7K
R47 15K
R45 330K
R27 18 1/2W
R49 220
R17 120
R15 18K
R19 15K
R21 15K
R7 33K
R13 12K
R5 75K
R9 100K
R3 2.2K
R11 1.8K
R29 18 1/2W
R39 10 1/2W
R37 0.5 2W
R32 150
R36 0.5 2W
D4 SV-4A
D5 1S2076
D6 S1B01-01
D3 SV-4A
D1 1S2076
Q1 2SC1318
Q2 2SA572
Q3 2SA572
Q4 2SA572
Q5 2SC1318
Q6 2SC1318
Q7 2SC1318
Q8 2SC1318
Q9 2SC1318
Q11 2SC789
Q12 2SC789
Q13 2SA489
VR1 100
VR3 100
C1 3.3/16
C2 0.047
C3 390P
C4 390P
C5 100P
C6 0.033
C7 220/35
C8 220/35
C9 47/50
C10 47/50
C11 15P
C12 15P
C13 470P
C14 470P
C15 0.033
C16 0.033
C17 2.2/50
C18 1.2/50
C19 3P
C20 10/16
C21 10/16
C22 220/50
C23 100/50
C24 47/50
C25 1000
C26 1000
C27 1000
C28 1000
C29 1000
C30 1000
C31 1000
C32 1000
C33 1000
C34 1000
C35 1000
C36 1000
C37 1000
C38 1000
C39 1000
C40 1000
C41 1000
C42 1000
C43 1000
C44 1000

SX-525

TUNER Ass'y AWE-003

CR ass'y AWX-012 (KCW, KUW model)

SWITCHES

S_1 INPUT SELECTOR (ASC-018)
1. AM
2. FM MONO
3. FM AUTO
4. FM MPX NOISE FILTER
5. PHONO/MIC
6. AUX

S_2 OUTPUT SELECTOR with POWER SWITCH (ASA-018)
1. POWER OFF
2. A
3. SPKR OFF
4. B
5. A + B

S_3 FM DE-EMPHASIS SWITCH 75μS or 50μS (at 50μS Position)

RESISTORS
± 10% TOLERANCE P.TYPE CARBON 1/4WATT UNLESS NOTED.
NON MARK : OHM K : KILO OHM

CAPACITORS
NON MARK : MICRO FARAD
NON MARK : MYLAR

V : SIGNAL VOLTAGE AT 22W/8Ω (at 1KHz)
V : NO INPUT SIGNAL DC VOLTAGE
⇦ NO INPUT SIGNAL DC CURRENT
V RIPPLE VOLTAGE
120V model

LAMP Ass'y AWX-010
DIAL SCALE LAMP
STEREO INDICATOR LAMP

POWER SUPPLY Ass'y AWR-007

MAIN AMP Ass'y AWH-006 (NBW model AWH-012)

CONTROL AMP Ass'y AWG-011

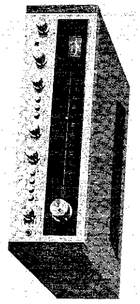
HEAD AMP Ass'y AWF-003

SWITCH Ass'y AWS-015

CR Ass'y AWX-013 (KCW, KUW model AWX-012)

220V model

AC OUTLETS
SWITCHED 150 VA MAX
UNSWITCHED 300VA MAX

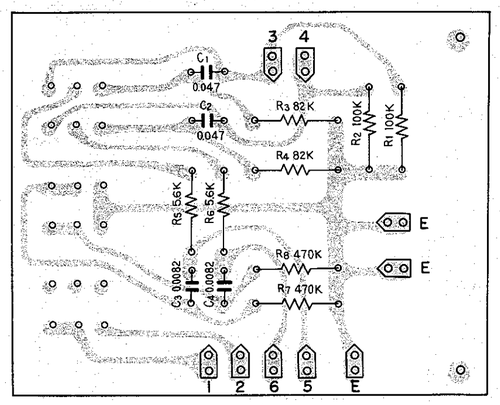


AM/FM STEREO RECEIVER

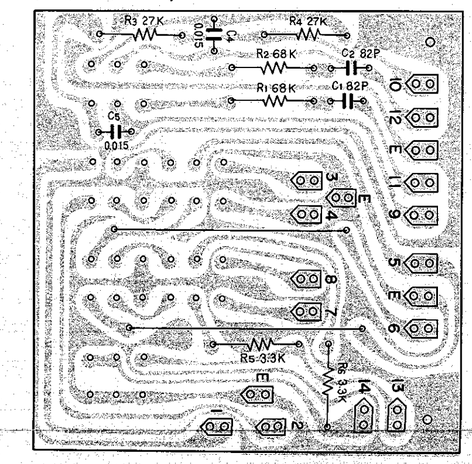
SX-626

FW FVZW KCW KUW NBW

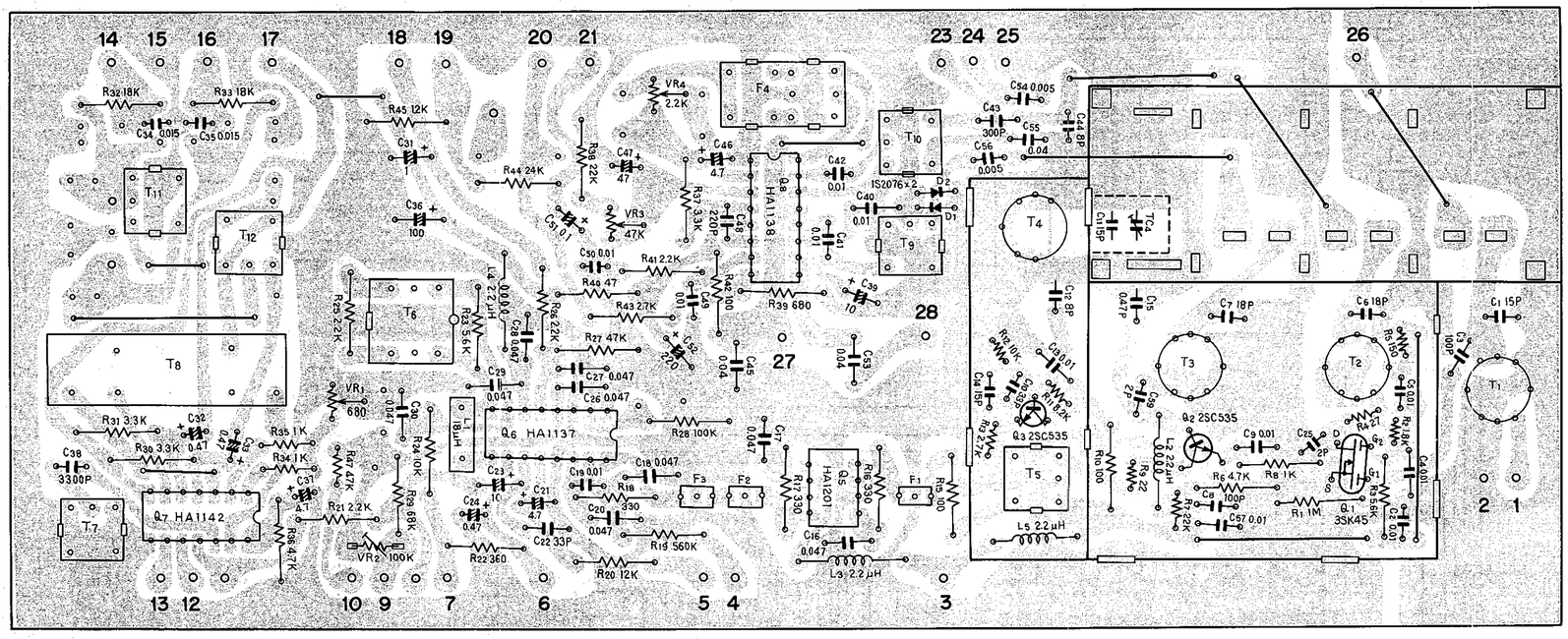
Switch circuit ass'y AWS-013



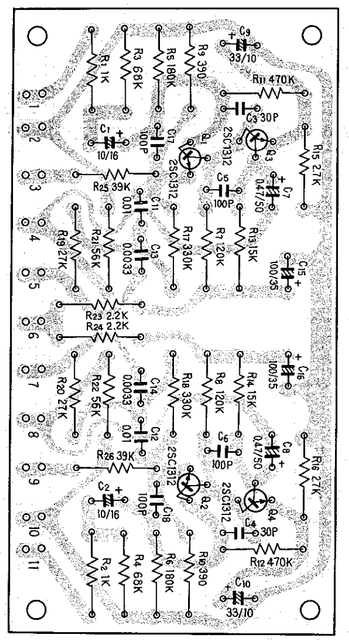
Switch circuit ass'y AWS-014



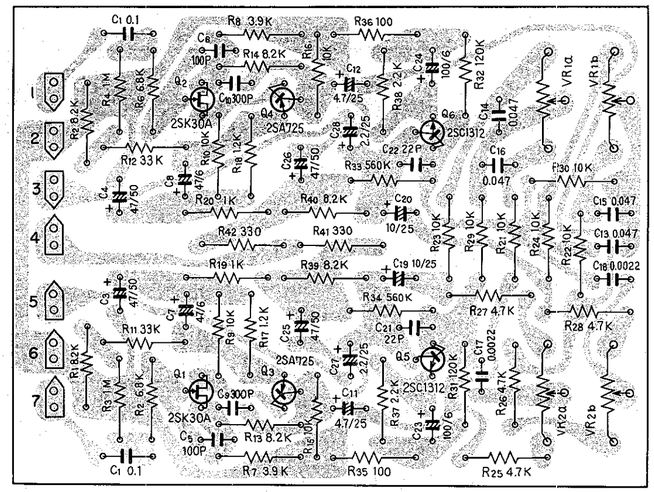
Tuner ass'y AWE-031



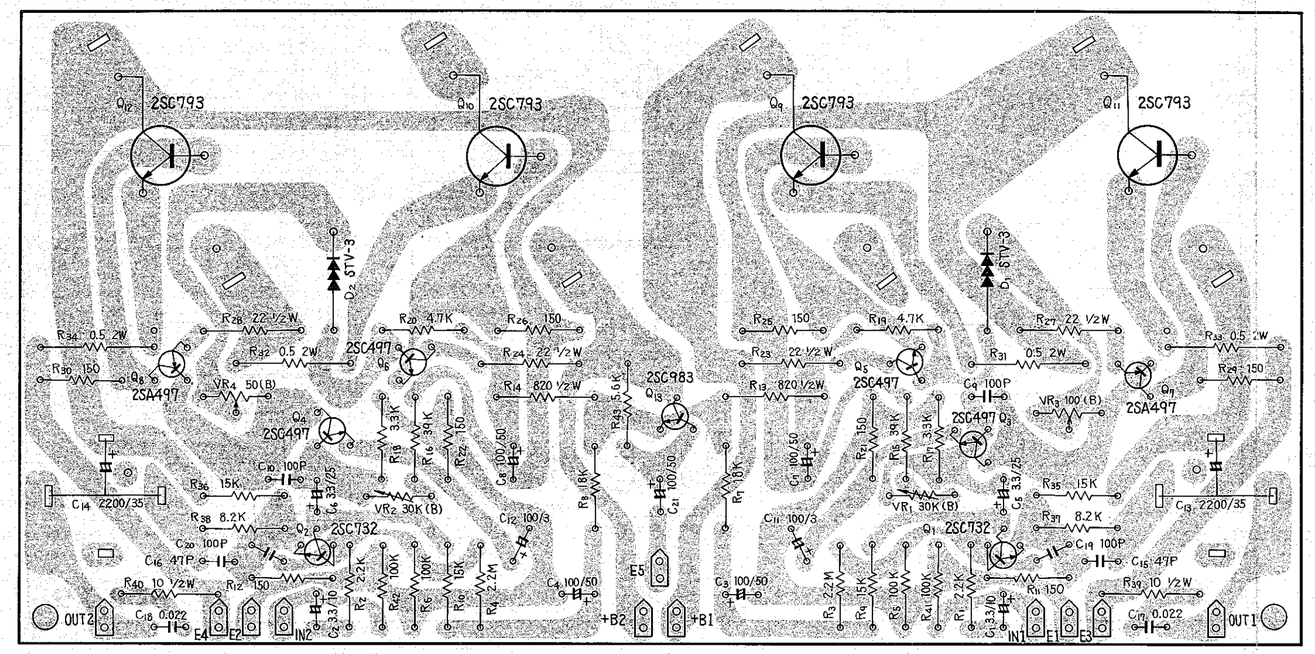
Equalizer amp ass'y W21-004



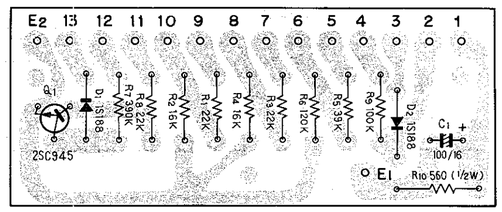
Control amp ass'y AWG-008



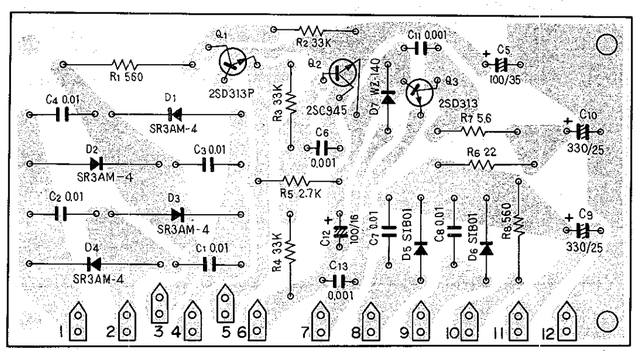
Power amp ass'y AWH-002



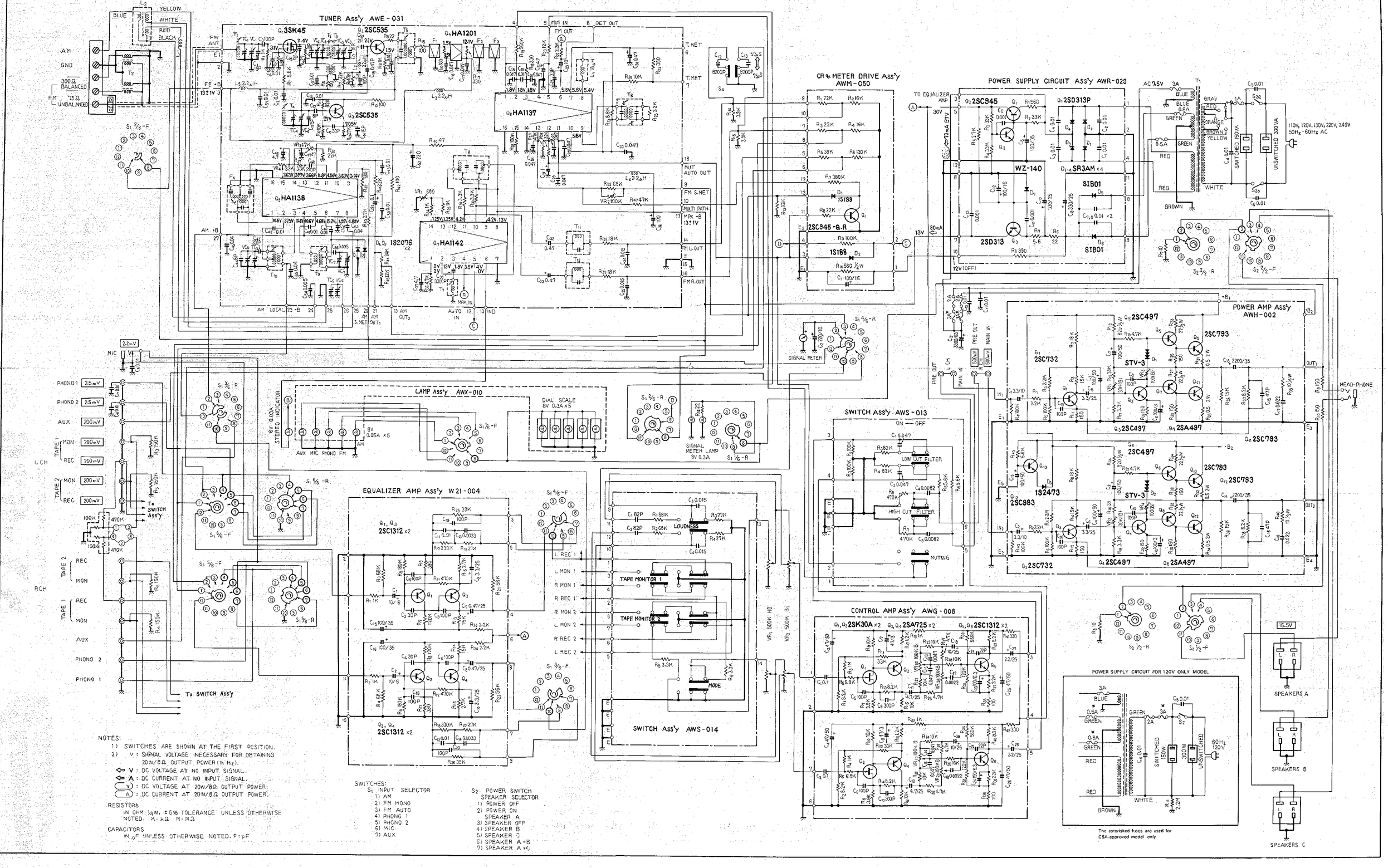
CR, meter drive ass'y AWM-050



Power supply ass'y AWR-029



SX-626



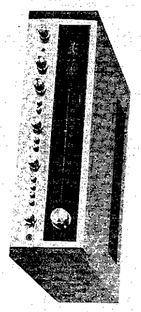
NOTES:
1) SWITCHES ARE SHOWN AT THE FIRST POSITION.
2) V : SIGNAL VOLTAGE NECESSARY FOR OBTAINING 20W/8Ω OUTPUT POWER (1k Hz).
⇦ V : DC VOLTAGE AT NO INPUT SIGNAL.
⇦ A : DC CURRENT AT NO INPUT SIGNAL.
(V) : DC VOLTAGE AT 20W/8Ω OUTPUT POWER.
(A) : DC CURRENT AT 20W/8Ω OUTPUT POWER.

RESISTORS
IN OHM 1/4W, ±5% TOLERANCE UNLESS OTHERWISE NOTED. K: kΩ M: MΩ

CAPACITORS
IN μF UNLESS OTHERWISE NOTED. P: pF

SWITCHES:
S_1 INPUT SELECTOR
1) AM
2) FM MONO
3) FM AUTO
4) PHONO 1
5) PHONO 2
6) MIC
7) AUX

S_2 POWER SWITCH
SPEAKER SELECTOR
1) POWER OFF
2) POWER ON
SPEAKER A
3) SPEAKER OFF
4) SPEAKER B
5) SPEAKER C
6) SPEAKER A+B
7) SPEAKER A+C

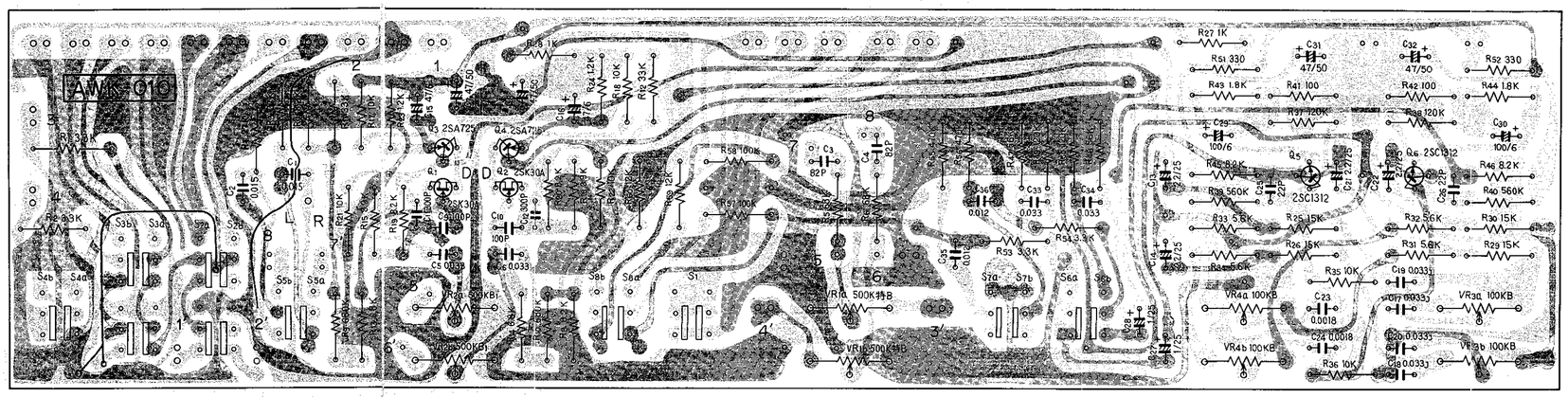


AM/FM STEREO RECEIVER

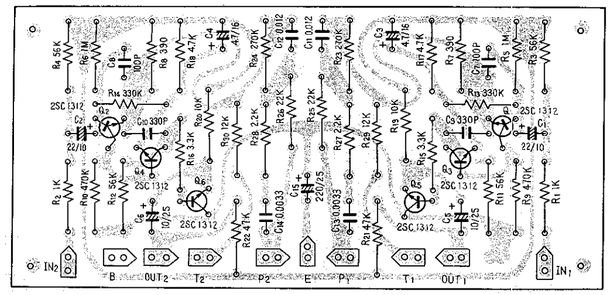
SX-727

FVZW FW KCW KUW

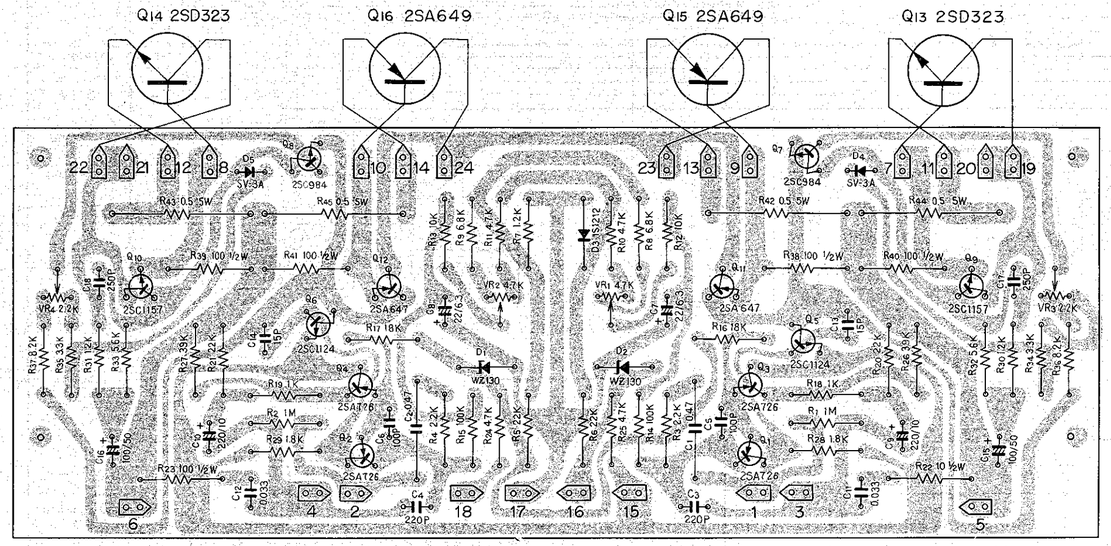
AF amp ass'y AWK-010



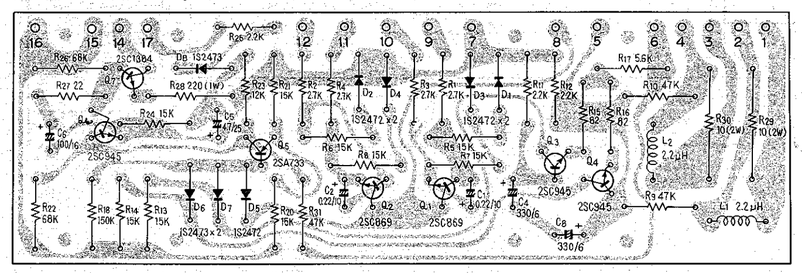
Equalizer amp ass'y W21-002



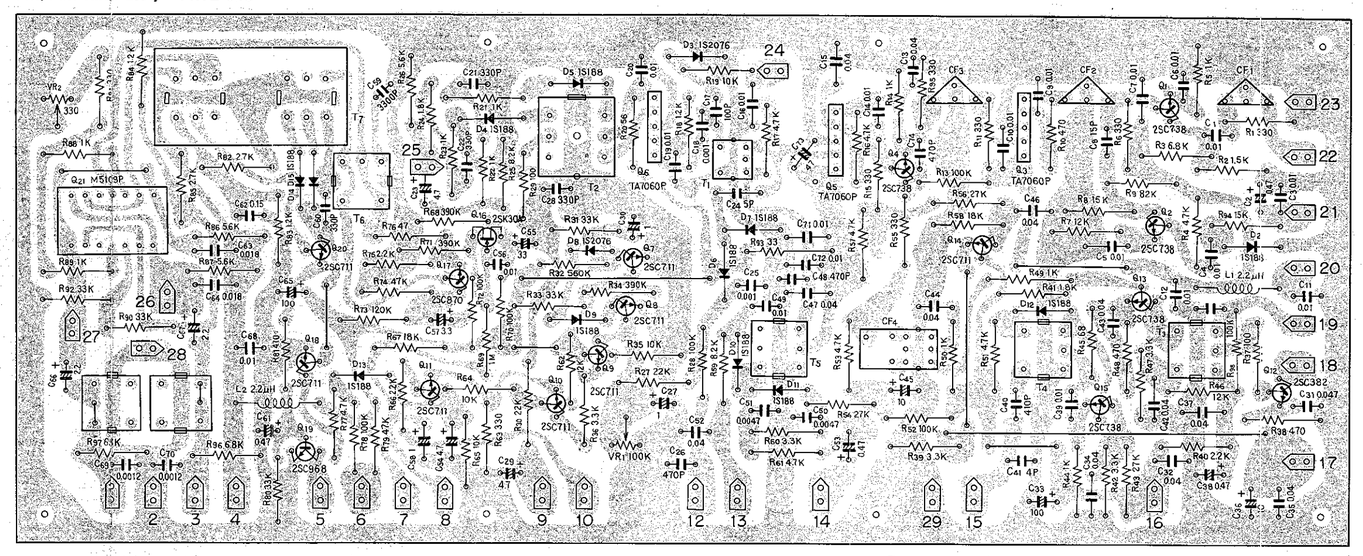
Power amp ass'y AWH-011



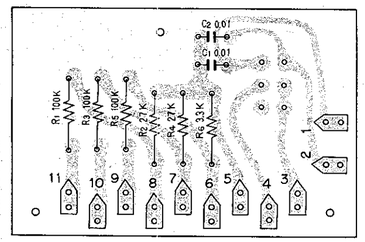
Protection circuit ass'y AWM-027



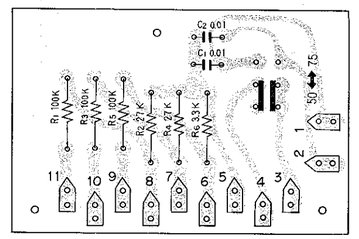
FM, AM tuner ass'y AWE-015



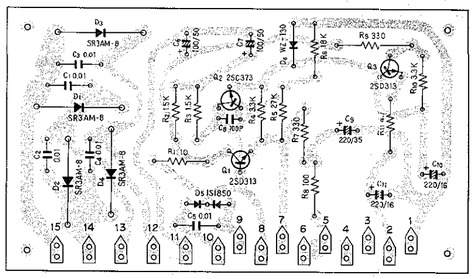
CR ass'y AWX-014 (FVZW, KCW, KUW model)



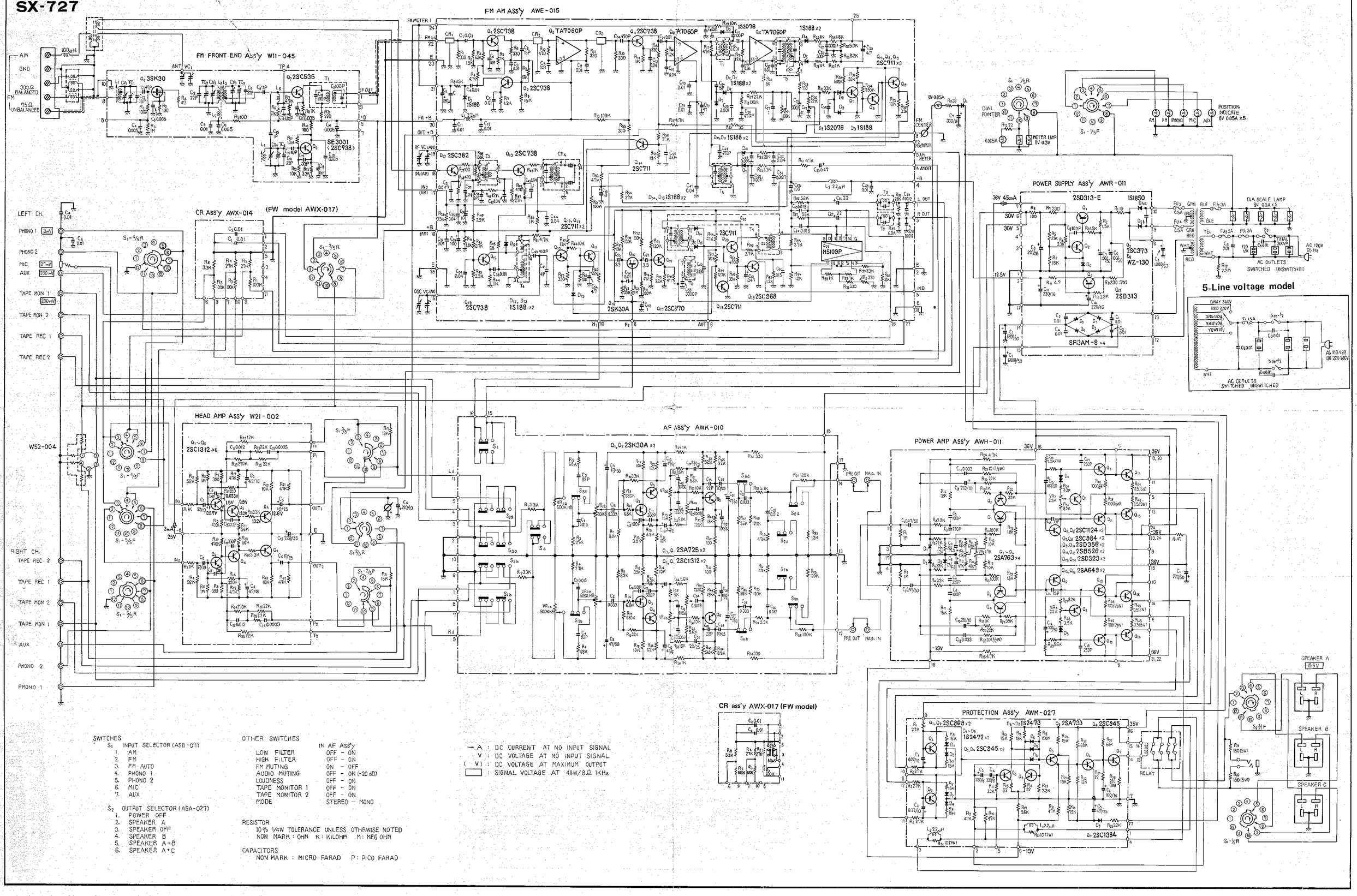
CR ass'y AWX-017 (FW model)



Power supply ass'y AWR-011



SX-727



SWITCHES

S_1 INPUT SELECTOR (ASB-011)
1. AM
2. FM
3. FM AUTO
4. PHONO 1
5. PHONO 2
6. MIC
7. AUX

S_2 OUTPUT SELECTOR (ASA-027)
1. POWER OFF
2. SPEAKER A
3. SPEAKER OFF
4. SPEAKER B
5. SPEAKER A+B
6. SPEAKER A+C

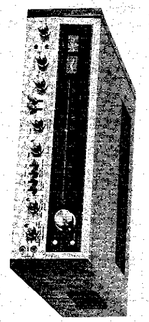
OTHER SWITCHES

	IN AF Ass'y
LOW FILTER	OFF – ON
HIGH FILTER	OFF – ON
FM MUTING	ON – OFF
AUDIO MUTING	OFF – ON (-20 dB)
LOUDNESS	OFF – ON
TAPE MONITOR 1	OFF – ON
TAPE MONITOR 2	OFF – ON
MODE	STEREO – MONO

RESISTOR
10% 1/4W TOLERANCE UNLESS OTHRWISE NOTED
NON MARK : OHM K : KILOHM M : MEG OHM

CAPACITORS
NON MARK : MICRO FARAD P : PICO FARAD

— A : DC CURRENT AT NO INPUT SIGNAL
V : DC VOLTAGE AT NO INPUT SIGNAL
(V) : DC VOLTAGE AT MAXIMUM OUTPUT
▭ : SIGNAL VOLTAGE AT 48W/8Ω 1KHz

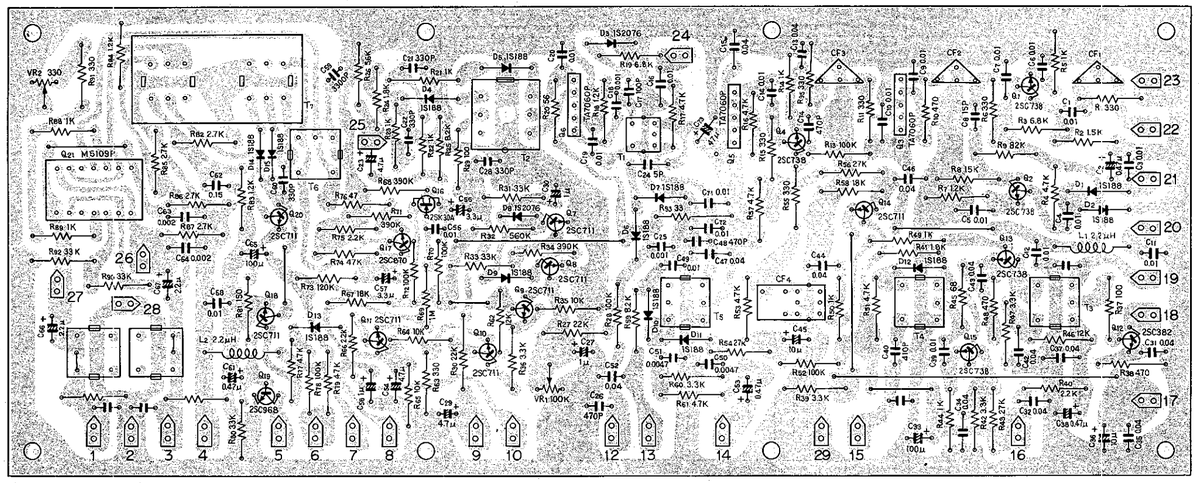


AM/FM STEREO RECEIVER

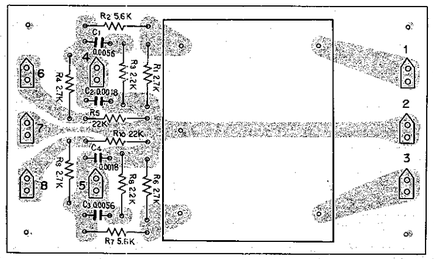
SX-828

FW FVZW KCW KUW

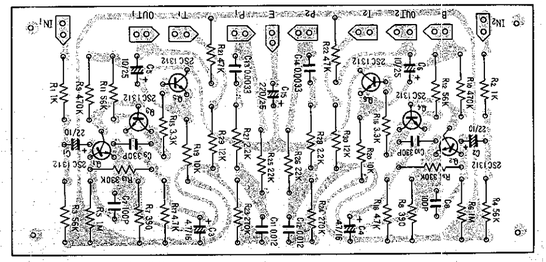
Tuner ass'y AWE-016



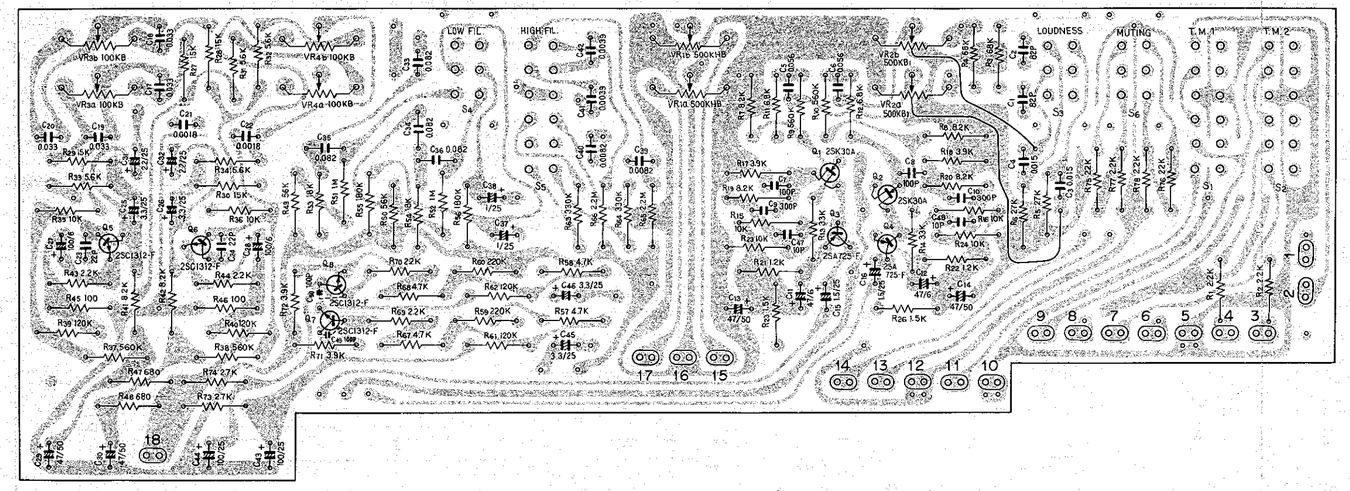
MPX filter ass'y AWX-009



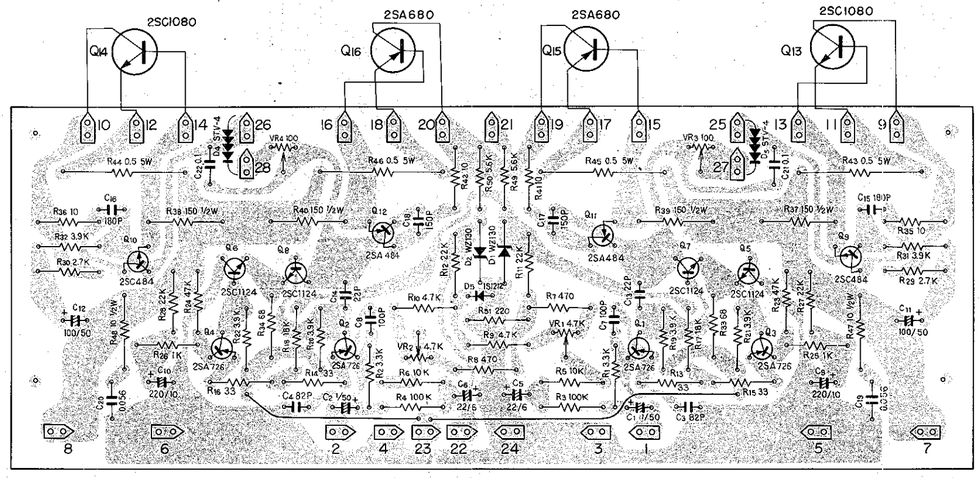
Equalizer amp ass'y W21-002



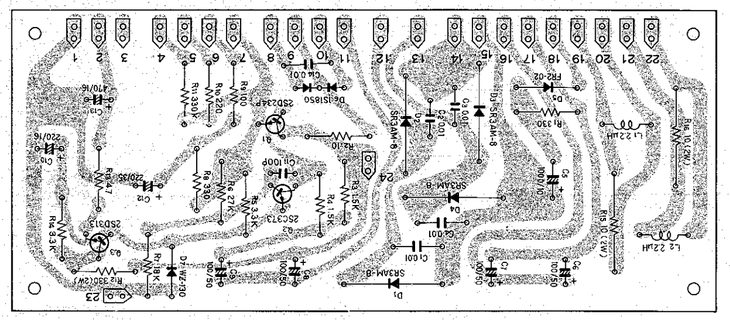
AF amp ass'y AWK-012



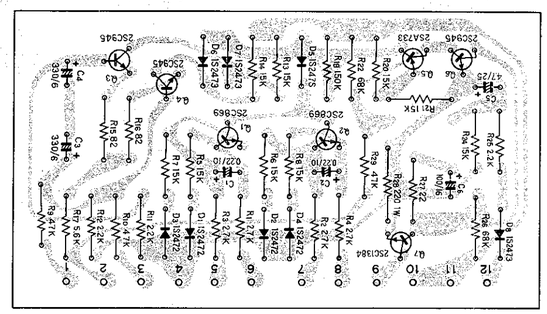
Power amp ass'y AWH-010



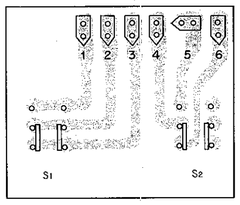
Power supply ass'y AWR-010



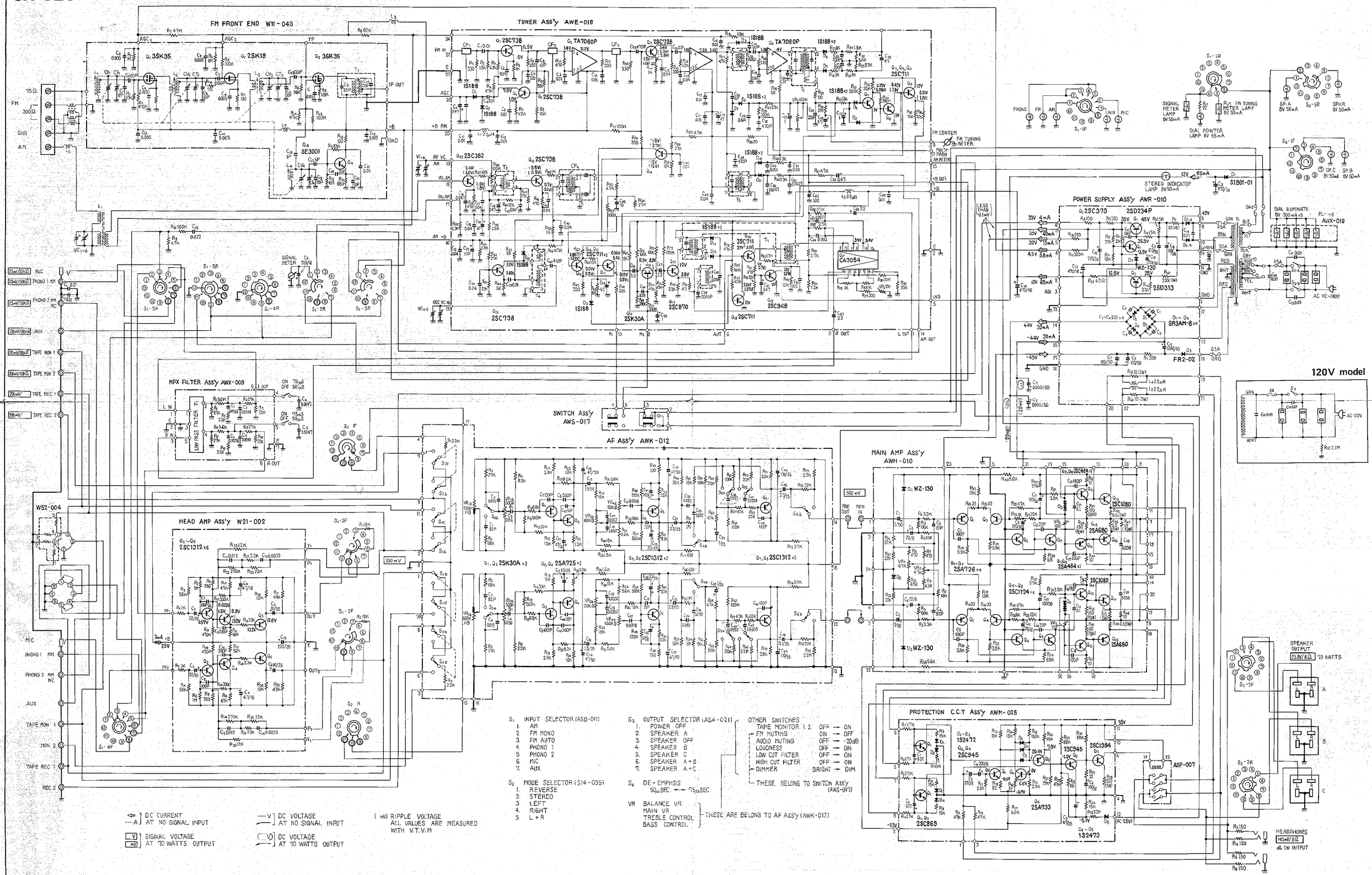
Protection circuit ass'y AWM-025



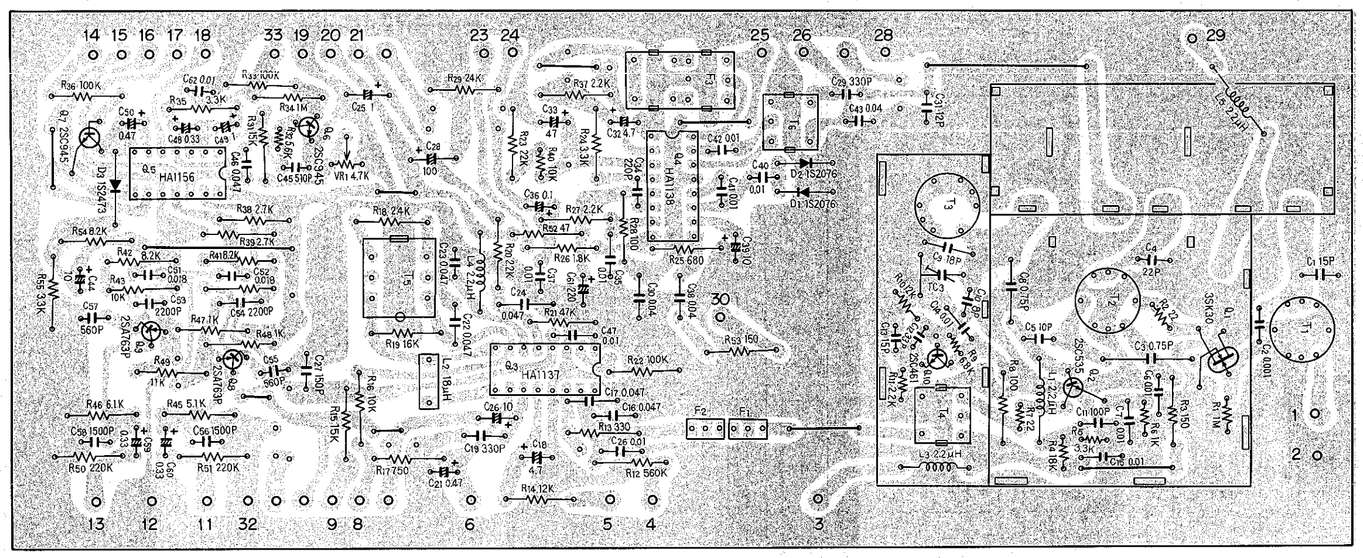
Switch circuit ass'y AWS-017



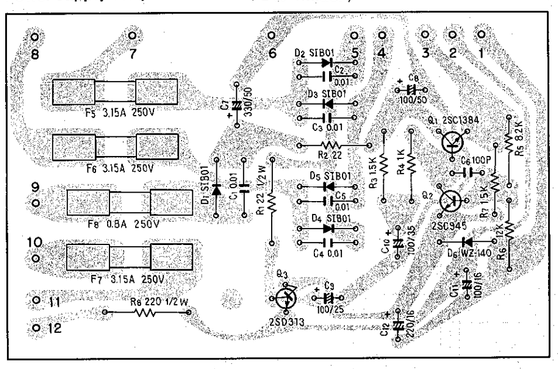
SX-828


FM FRONT END WII-043
TUNER ASS'y AWE-016
POWER SUPPLY ASS'y AWR-010
MAIN AMP ASS'y AWH-010
AF ASS'y AWK-012
HEAD AMP ASS'y W21-002
MPX FILTER ASS'y AWX-009
SWITCH ASS'y AWS-017
PROTECTION C.C.T ASS'y AWM-025
AVX-016
ASP-007
120V model
S1 INPUT SELECTOR (ASB-011)
1. AM
2. FM MONO
3. FM AUTO
4. PHONO 1
5. PHONO 2
6. MIC
7. AUX
S2 MODE SELECTOR (S14-035)
1. REVERSE
2. STEREO
3. LEFT
4. RIGHT
5. L+R
S3 OUTPUT SELECTOR (ASA-021)
1. POWER OFF
2. SPEAKER A
3. SPEAKER OFF
4. SPEAKER B
5. SPEAKER C
6. SPEAKER A+B
7. SPEAKER A+C
S4 DE-EMPHSIS
50μSEC. ⟷ 75μSEC.
VR BALANCE VR
MAIN VR
TREBLE CONTROL
BASS CONTROL
THESE ARE BELONG TO AF ASS'y (AWK-012)
OTHER SWITCHES
TAPE MONITOR 1, 2 OFF → ON
FM MUTING ON → OFF
AUDIO MUTING OFF → -20dB
LOUDNESS OFF → ON
LOW CUT FILTER OFF → ON
HIGH CUT FILTER OFF → ON
DIMMER BRIGHT → DIM
THESE BELONG TO SWITCH ASS'y (AWS-017)
DC CURRENT AT NO SIGNAL INPUT
DC VOLTAGE AT NO SIGNAL INPUT
SIGNAL VOLTAGE AT 10 WATTS OUTPUT
DC VOLTAGE AT 10 WATTS OUTPUT
(mV) RIPPLE VOLTAGE
ALL VALUES ARE MEASURED WITH V.T.V.M

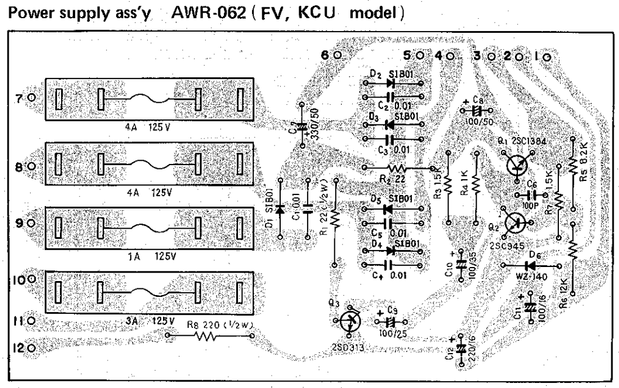
Tuner ass'y AWE-052



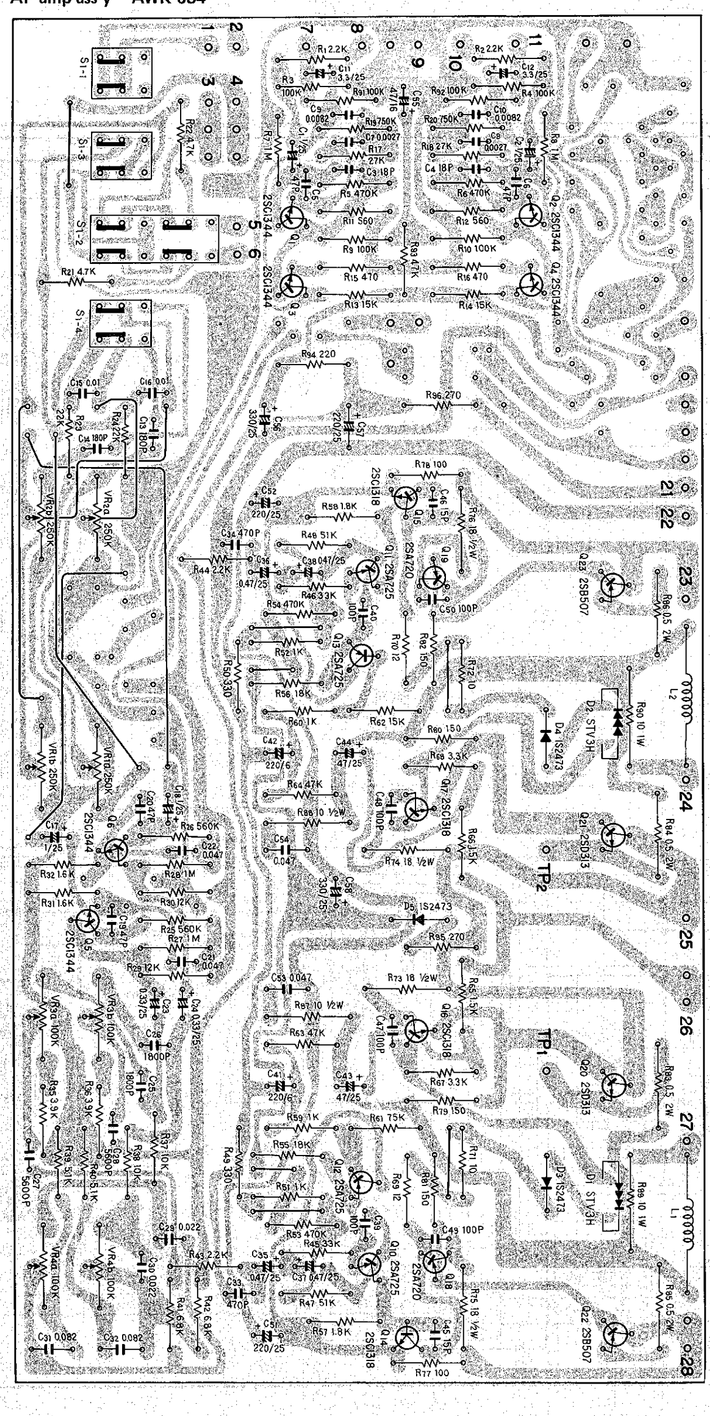
Power supply ass'y AWR-059 (GN model)

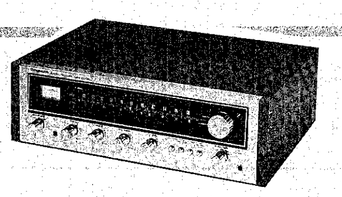


Power supply ass'y AWR-062 (FV, KCU model)



AF amp ass'y AWK-034



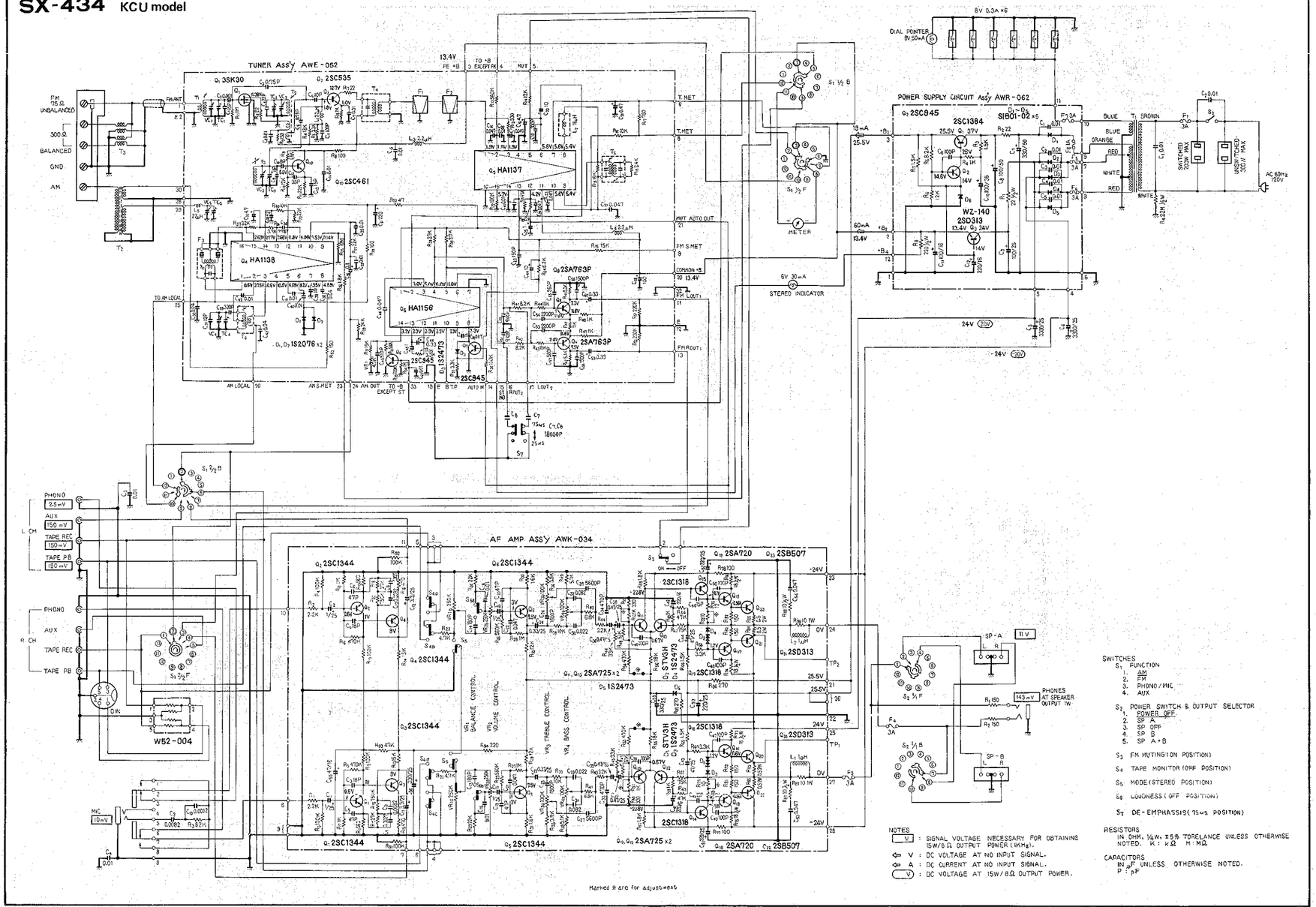


AM/FM STEREO RECEIVER

SX-434

FV GN KCU

SX-434 KCU model



SWITCHES
S_1 FUNCTION
1. AM
2. FM
3. PHONO / MIC
4. AUX

S_2 POWER SWITCH & OUTPUT SELECTOR
1. POWER OFF
2. SP A
3. SP OFF
4. SP B
5. SP A+B

S_3 FM MUTING (ON POSITION)

S_4 TAPE MONITOR (OFF POSITION)

S_5 MODE (STEREO POSITION)

S_6 LOUDNESS (OFF POSITION)

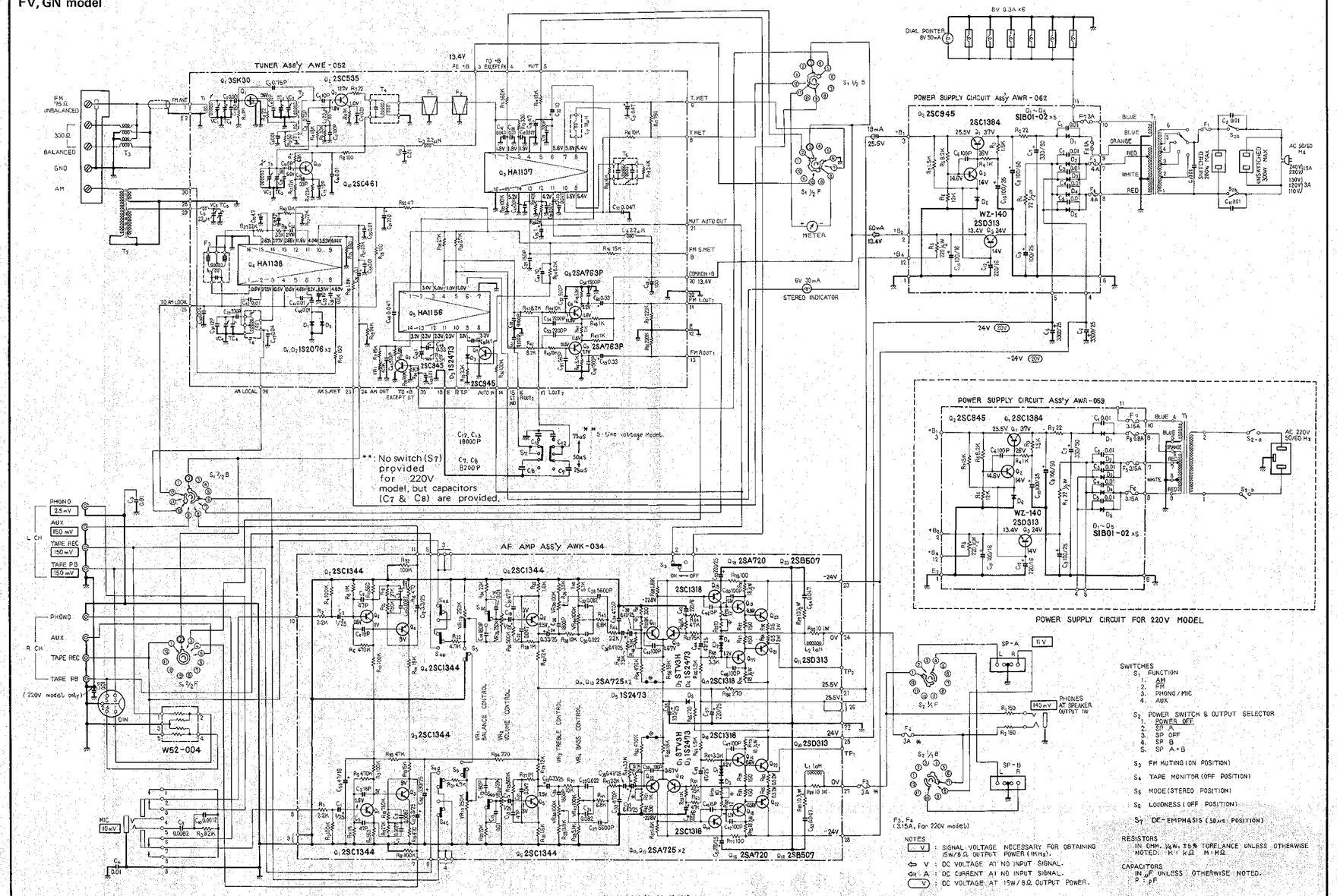
S_7 DE-EMPHASIS (75μs POSITION)

RESISTORS
IN OHM, ¼W, ±5% TORELANCE UNLESS OTHERWISE NOTED. K : kΩ M : MΩ

CAPACITORS
IN μF UNLESS OTHERWISE NOTED.
P : pF

NOTES
(V) : SIGNAL VOLTAGE NECESSARY FOR OBTAINING 15W/8Ω OUTPUT POWER (1kHz).
⇦ V : DC VOLTAGE AT NO INPUT SIGNAL.
⇦ A : DC CURRENT AT NO INPUT SIGNAL.
(V) : DC VOLTAGE AT 15W/8Ω OUTPUT POWER.

FV, GN model



POWER SUPPLY CIRCUIT FOR 220V MODEL

(220V model only)

F_3, F_4 for 220V model)

SWITCHES
S_1 FUNCTION
1. AM
2. FM
3. PHONO / MIC
4. AUX

S_2 POWER SWITCH & OUTPUT SELECTOR
1. POWER OFF
2. SP A
3. SP OFF
4. SP B
5. SP A+B

S_3 FM MUTING (ON POSITION)

S_4 TAPE MONITOR (OFF POSITION)

S_5 MODE (STEREO POSITION)

S_6 LOUDNESS (OFF POSITION)

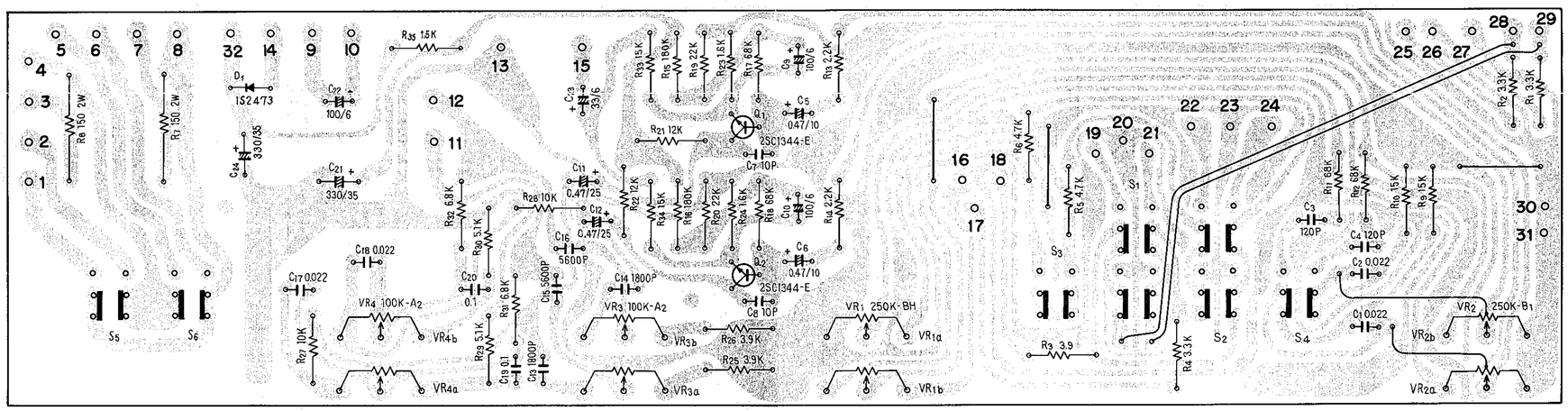
S_7 DE-EMPHASIS (50μs POSITION)

RESISTORS
IN OHM, ¼W, ±5% TORELANCE UNLESS OTHERWISE NOTED. K : kΩ M : MΩ

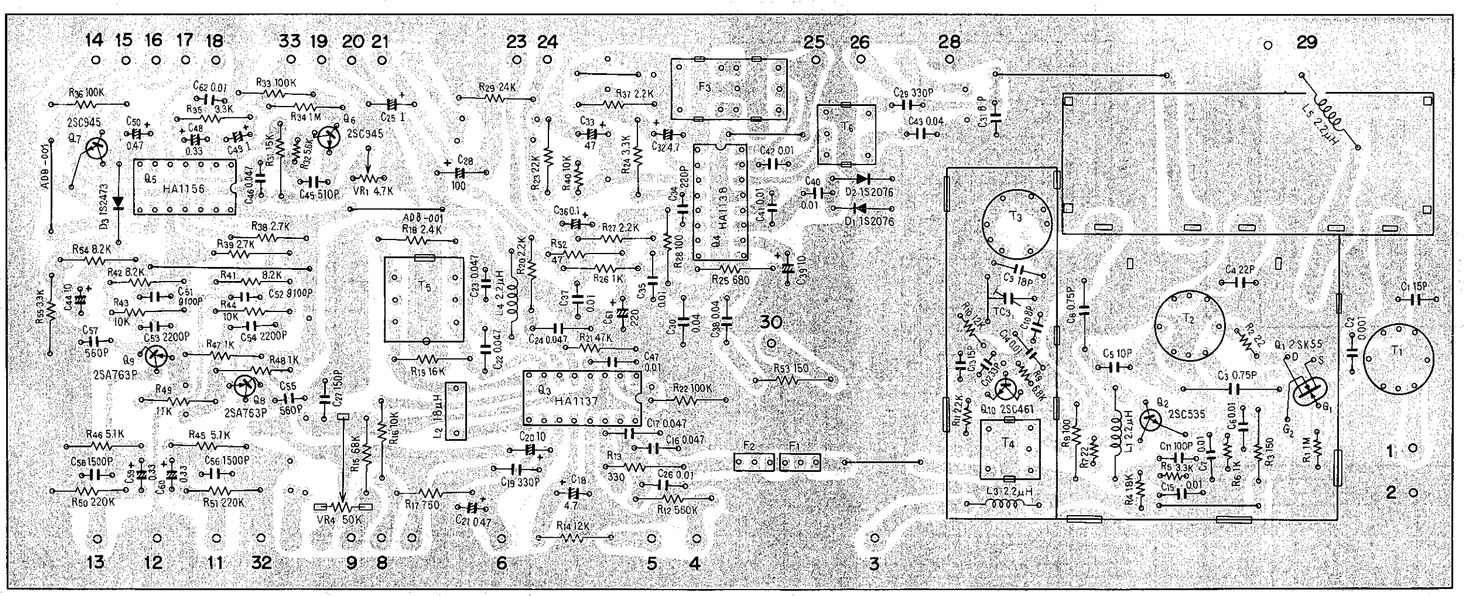
CAPACITORS
IN μF UNLESS OTHERWISE NOTED.
P : pF

NOTES
(V) : SIGNAL VOLTAGE NECESSARY FOR OBTAINING 15W/8Ω OUTPUT POWER (1kHz).
⇦ V : DC VOLTAGE AT NO INPUT SIGNAL.
⇦ A : DC CURRENT AT NO INPUT SIGNAL.
(V) : DC VOLTAGE AT 15W/8Ω OUTPUT POWER.

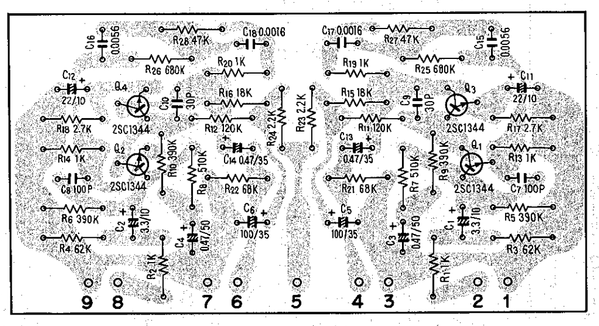
Switch and control ass'y AWM-068



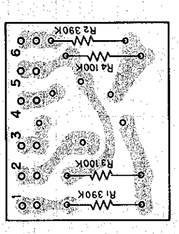
Tuner ass'y AWE-046



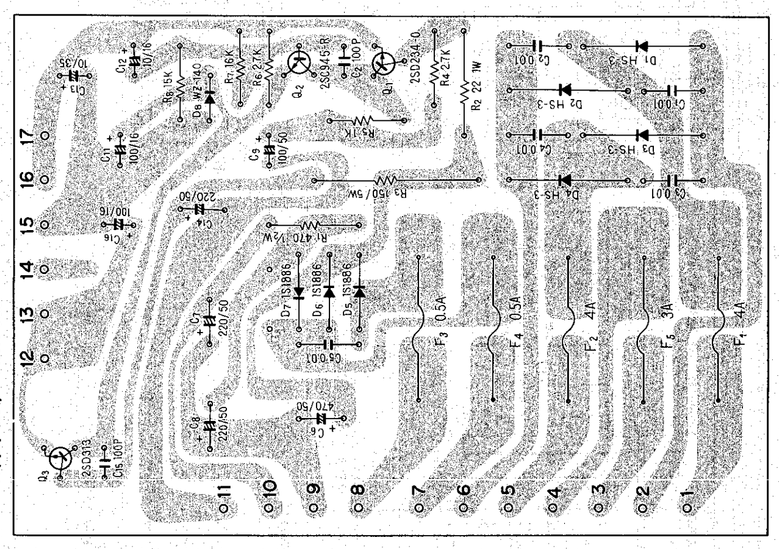
Equalizer amp ass'y AWF-014



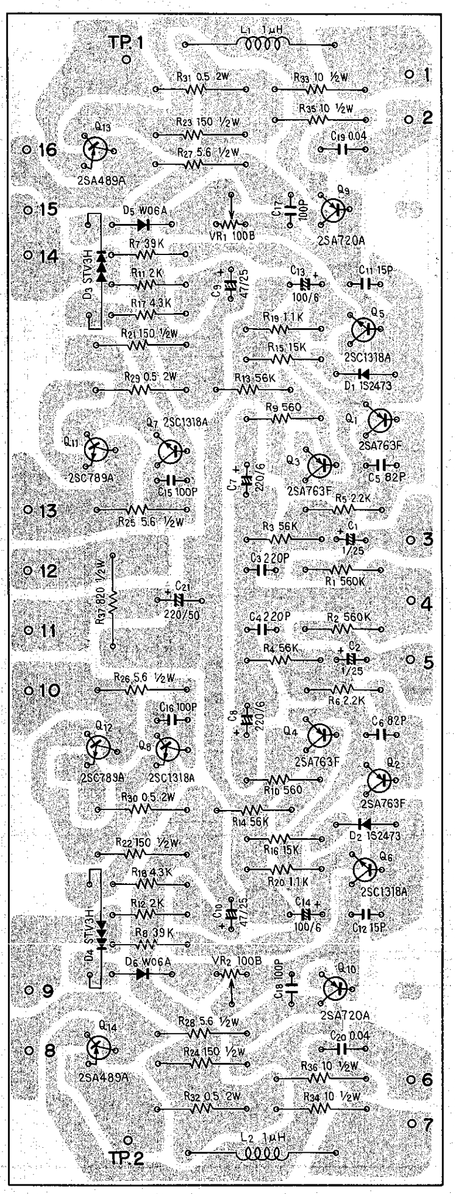
5P connector ass'y AWX-062

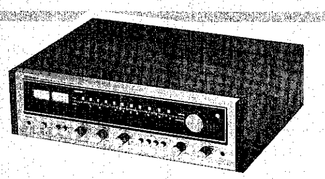


Power supply ass'y AWR-065



Power amp ass'y AWH-035





AM/FM STEREO RECEIVER

SX-535

FV GN KCU

SX-535

TUNER Ass'y AWE-046

POWER SUPPLY CIRCUIT FOR 5-LINE VOLTAGE MODEL

POWER SUPPLY CIRCUIT FOR 220V ONLY MODEL

NOTE:
When using this circuit diagram, note that a 220V only model (identified by part number: AWR-067) is the same as two other models (part numbers: AWR-065 each) except that the 220V only model uses 3.15A fuses (F_2,F_3) and each of the two other uses 3A fuses (F_2,F_3).

LAMP Ass'Y
AWX-072

POWER SUPPLY Ass'y AWR-065

EQUALIZER AMP Ass'y AWF-014

SWITCH & CONTROL Ass'y
AWM-068 1/2

POWER AMP Ass'y AWH-035

AWM-068 2/2

5P CONNECTOR Ass'y AWX-062

SWITCHES

S_1 FUNCTION
1. AM
2. FM (AUTO)
3. PHONO/MIC
4. AUX

S_2 TAPE MON 1
OFF ⟷ ON

S_3 TAPE MON 2
OFF ⟷ ON

S_4 MODE
STEREO ⟷ MONO

S_5 LOUDNESS
OFF ⟷ ON

S_6 SPEAKER A
OFF ⟷ ON

S_7 SPEAKER B
OFF ⟷ ON

S_8 POWER SWITCH
OFF ⟷ ON

S_9 FM MUTING
OFF ⟷ ON

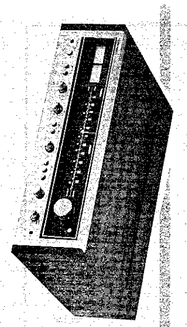
S_{10} FM DE-EMPHASIS
75μs ⟷ 25μs

NOTES
- Neither switch(S_8)nor capacitors (C_1 & C_2)are provided for 220V unit.
- No switch(S_8)is provided for 220V unit but capacitors(C_3 & C_4)are provided.

RESISTOR
1Ω OHM, 1/4W, ±5% TOLERANCE UNLESS OTHERWISE NOTED. K : KΩ M : MΩ

CAPACITORS
1MμF UNLESS OTHERWISE NOTED.
P : pF

NOTES
[V]: SIGNAL VOLTAGE NECESSARY FOR OBTAINING 17W/8Ω OUTPUT POWER (1KHz).
V : DC VOLTAGE AT NO INPUT SIGNAL.
⇦ A : DC CURRENT AT NO INPUT SIGNAL.

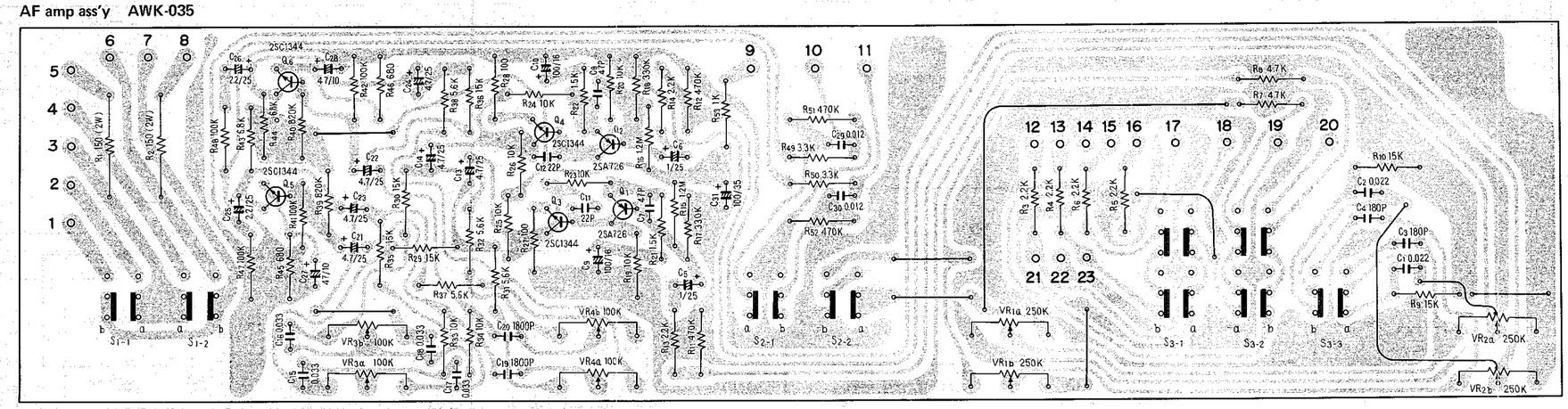


AM/FM STEREO RECEIVER

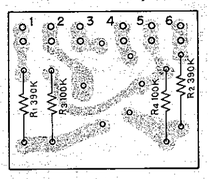
SX-636

FV GN KCU

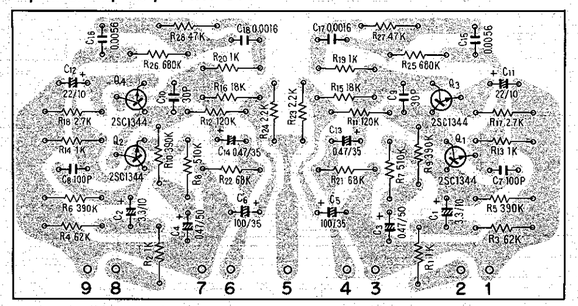
AF amp ass'y AWK-035



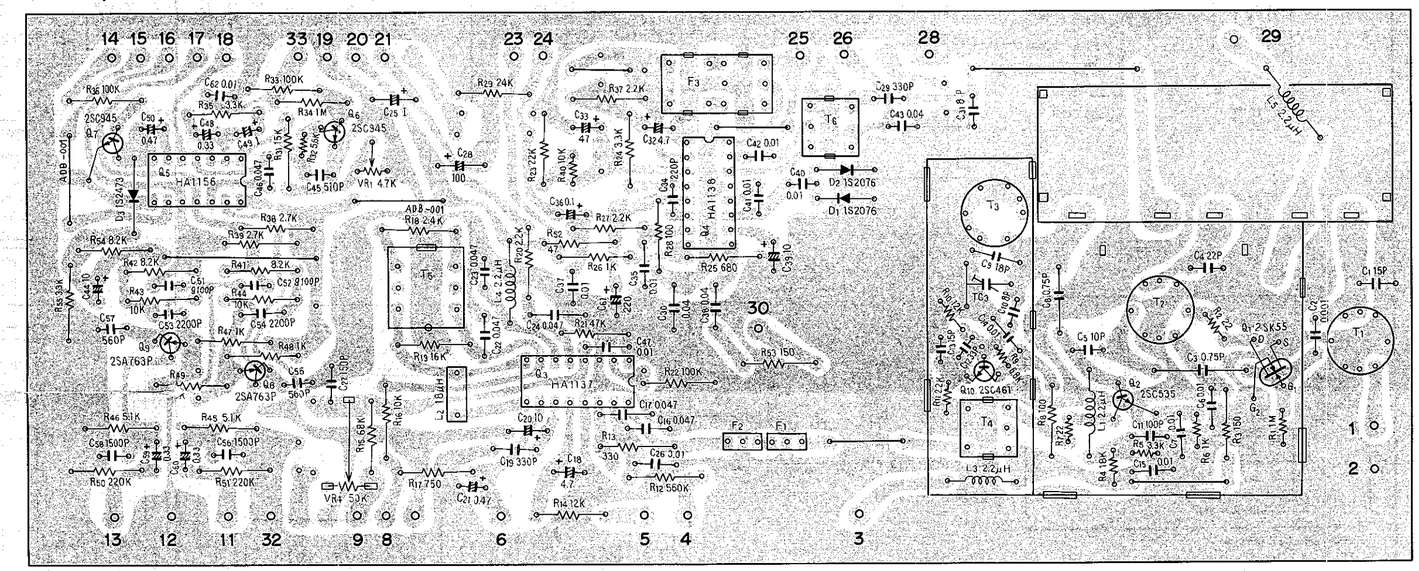
5P connector ass'y AWX-062



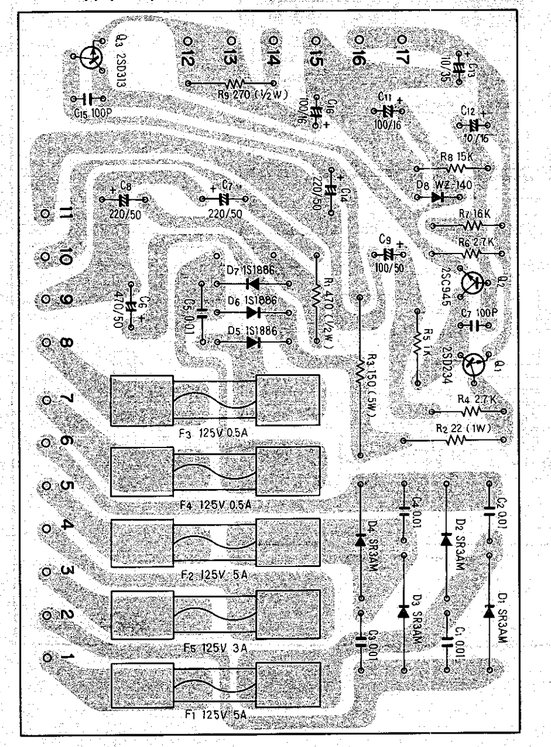
Equalizer amp ass'y AWF-014



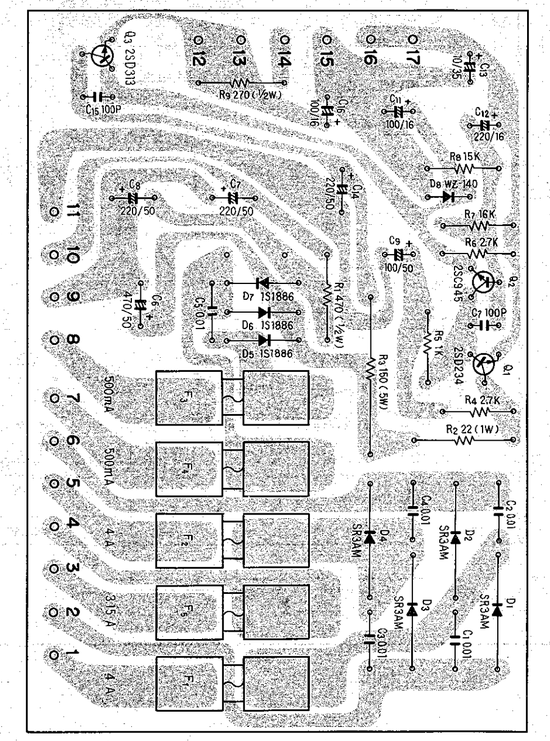
Tuner ass'y AWE-046



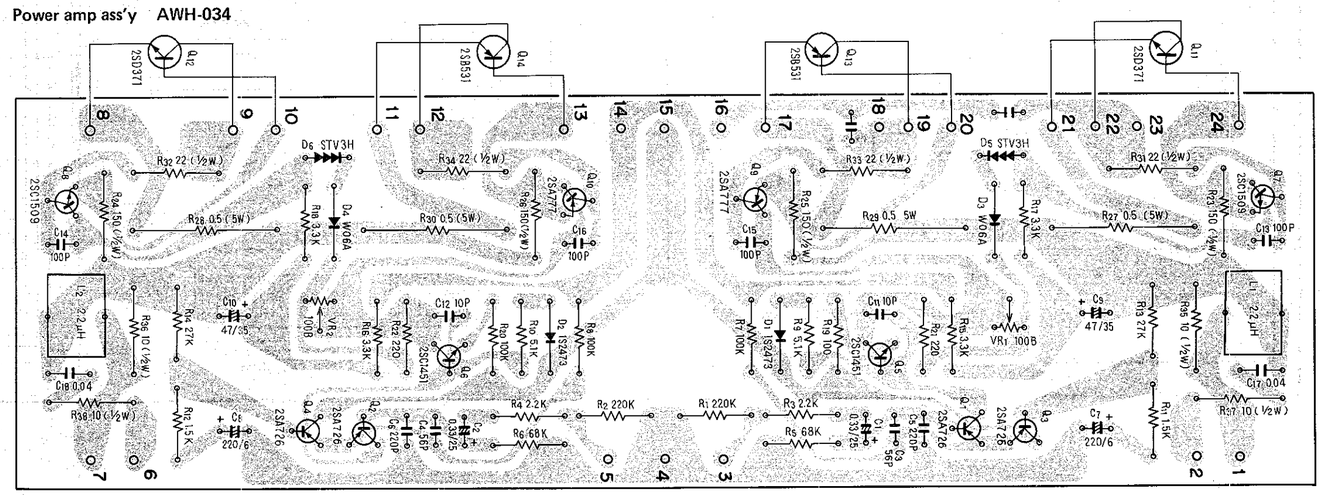
Power supply ass'y AWR-060 (FV, KCU model)



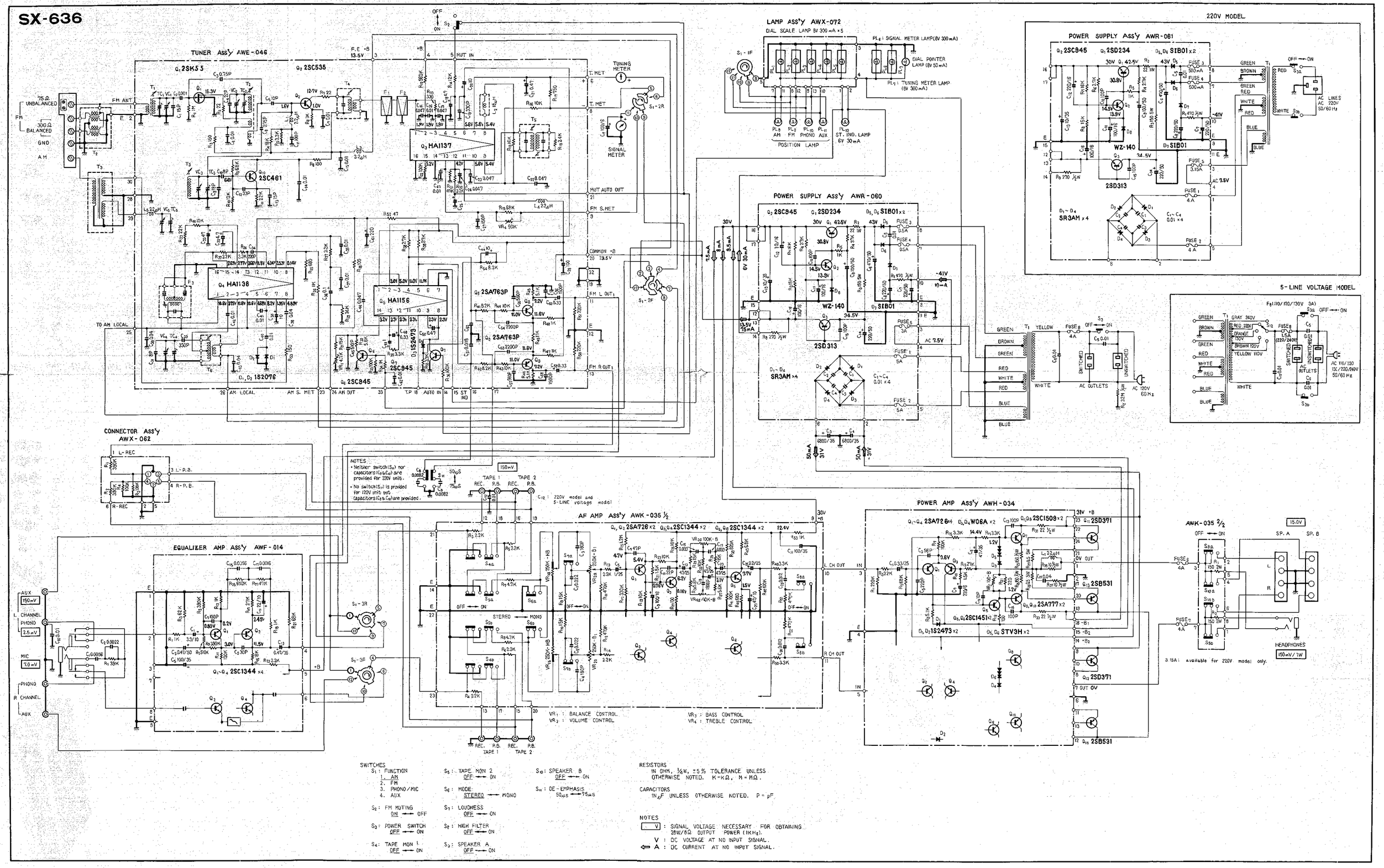
Power supply ass'y AWR-061 (GN model)

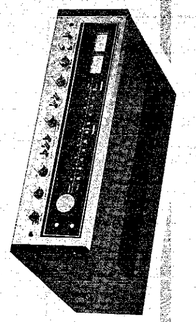


Power amp ass'y AWH-034



SX-636


TUNER Ass'y AWE-046
Q1 2SK55
Q2 2SC535
Q3 HA1137
Q4 HA1138
Q5 HA1156
Q6 2SC945
Q7 2SC461
Q8 2SA763P
Q9 2SA763P
Q10 2SC945
Q11 2SC2473
D1, D2 1S2076
FM ANT
75Ω UNBALANCED
300Ω BALANCED
GND
AM
TUNING METER
SIGNAL METER
T. MET
MUT AUTO OUT
FM S. MET
COMMON +8
FM L OUT
FM R OUT
TO AM LOCAL
AM LOCAL
AM S. MET
AM OUT
T.P. 18
AUTO IN
ST IND
LAMP Ass'y AWX-072
DIAL SCALE LAMP 8V 300 mA ×5
PL6 : SIGNAL METER LAMP(8V 300 mA)
DIAL POINTER LAMP (8V 50 mA)
PL7 : TUNING METER LAMP (8V 300 mA)
PL8 AM
PL9 FM
PL10 PHONO
PL11 AUX
POSITION LAMP
PL12 ST. IND. LAMP 6V 30 mA
POWER SUPPLY Ass'y AWR-060
Q2 2SC945
Q1 2SD234
D5, D6 S1B01 ×2
WZ-140
D7 S1B01
2SD313
D1~D4 SR3AM ×4
220V MODEL
POWER SUPPLY Ass'y AWR-061
5-LINE VOLTAGE MODEL
CONNECTOR Ass'y AWX-062
EQUALIZER AMP Ass'y AWF-014
Q1~Q4 2SC1344 ×4
AF AMP Ass'y AWK-035 ½
Q1, Q2 2SA726 ×2
Q3, Q4 2SC1344 ×2
Q5, Q6 2SC1344 ×2
POWER AMP Ass'y AWH-034
Q1~Q4 2SA726 ×2
D1~D4 W06A ×2
Q11 2SD371
Q12 2SD371
Q13 2SB531
Q14 2SB531
Q5, Q6 2SC1451 ×2
Q7, Q8 STV3H ×2
Q9, Q10 2SA777 ×2
D1, D2 1S2473 ×2
AWK-035 ½
SP. A
SP. B
HEADPHONES
150mV / 1W
AUX
L. CHANNEL
PHONO
MIC
R. CHANNEL
TAPE 1 REC. P.B.
TAPE 2 REC. P.B.
VR1 : BALANCE CONTROL
VR2 : VOLUME CONTROL
VR3 : BASS CONTROL
VR4 : TREBLE CONTROL
NOTES
• Network switch(S11) nor capacitors(C13&C14) are provided for 220V units.
• No switch(S11) is provided for 120V units but capacitors(C13&C14)are provided.
C12 : 220V model and 5-LINE voltage model
SWITCHES
S1 : FUNCTION 1. AM 2. FM 3. PHONO / MIC 4. AUX
S2 : FM MUTING ON ⟷ OFF
S3 : POWER SWITCH OFF ⟷ ON
S4 : TAPE MON 1 OFF ⟷ ON
S5 : TAPE MON 2 OFF ⟷ ON
S6 : MODE: STEREO ⟷ MONO
S7 : LOUDNESS OFF ⟷ ON
S8 : HIGH FILTER OFF ⟷ ON
S9 : SPEAKER A OFF ⟷ ON
S10 : SPEAKER B OFF ⟷ ON
S11 : DE-EMPHASIS 50μs ⟷ 75μs
RESISTORS
IN OHM, ¼W, ±5% TOLERANCE UNLESS OTHERWISE NOTED. K=KΩ, M=MΩ.
CAPACITORS
IN μF UNLESS OTHERWISE NOTED. P=pF
NOTES
[V] : SIGNAL VOLTAGE NECESSARY FOR OBTAINING 28W/8Ω OUTPUT POWER (1KHz).
V : DC VOLTAGE AT NO INPUT SIGNAL.
⇦ A : DC CURRENT AT NO INPUT SIGNAL.

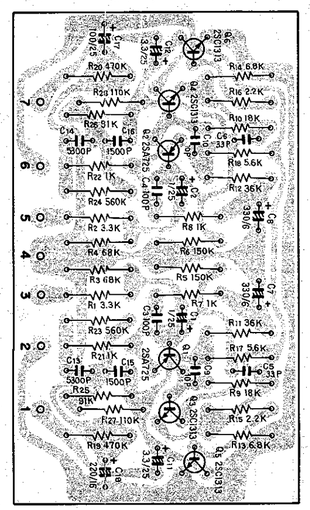


AM/FM STEREO RECEIVER

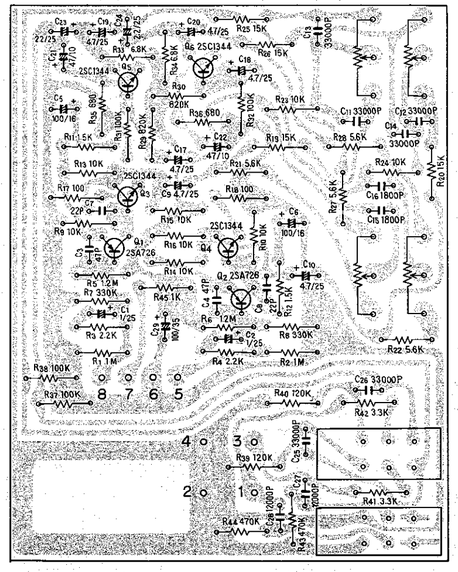
SX-737

F KCU GN

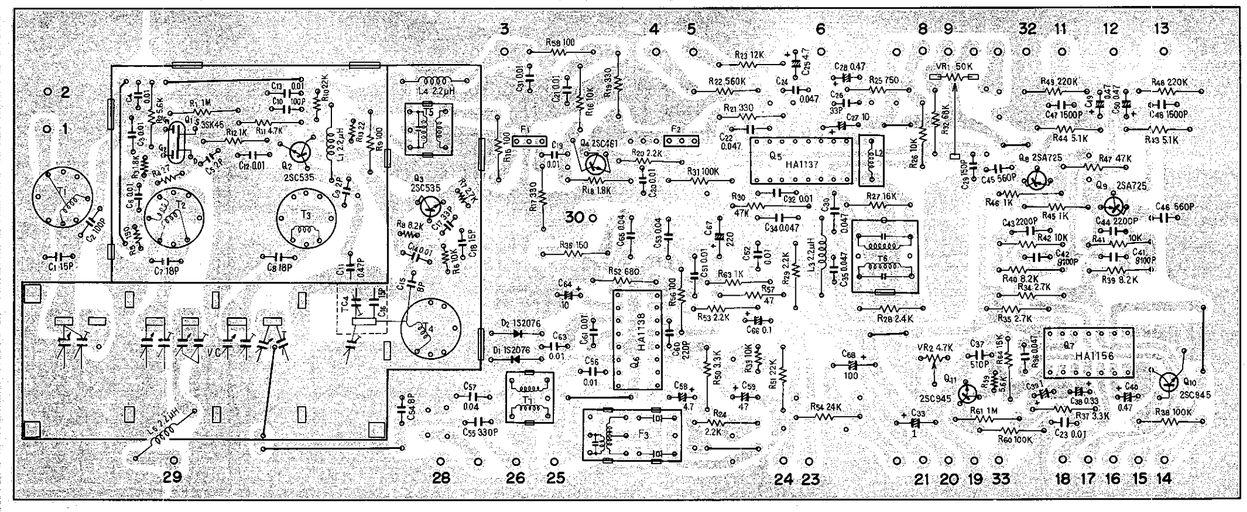
Equalizer amp ass'y AWF-011



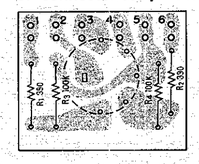
Control amp ass'y AWG-030



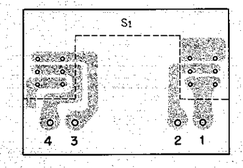
Tuner ass'y AWE-043



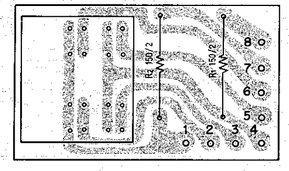
5P connector ass'y AWX-062



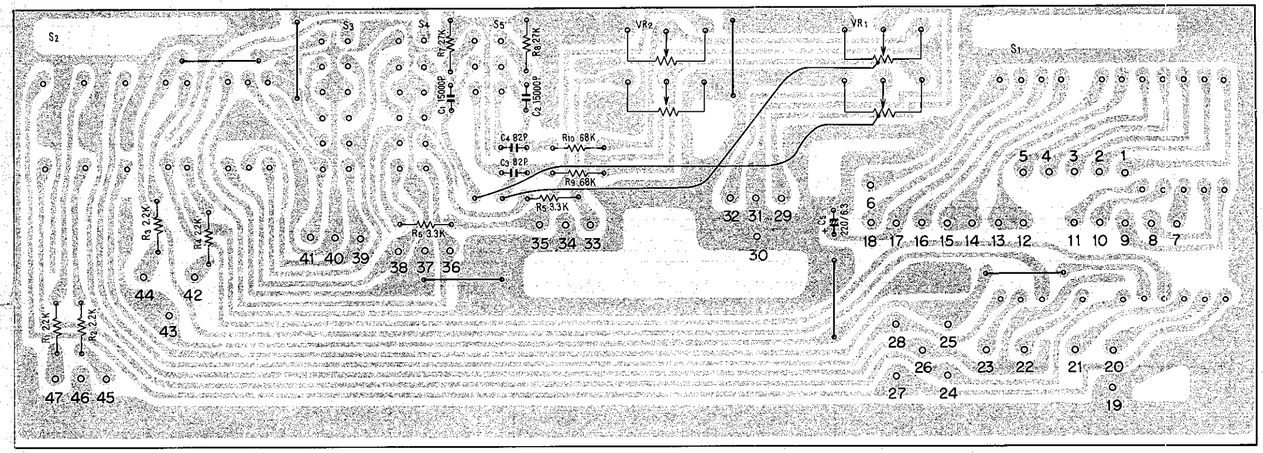
Push switch ass'y AWS-077



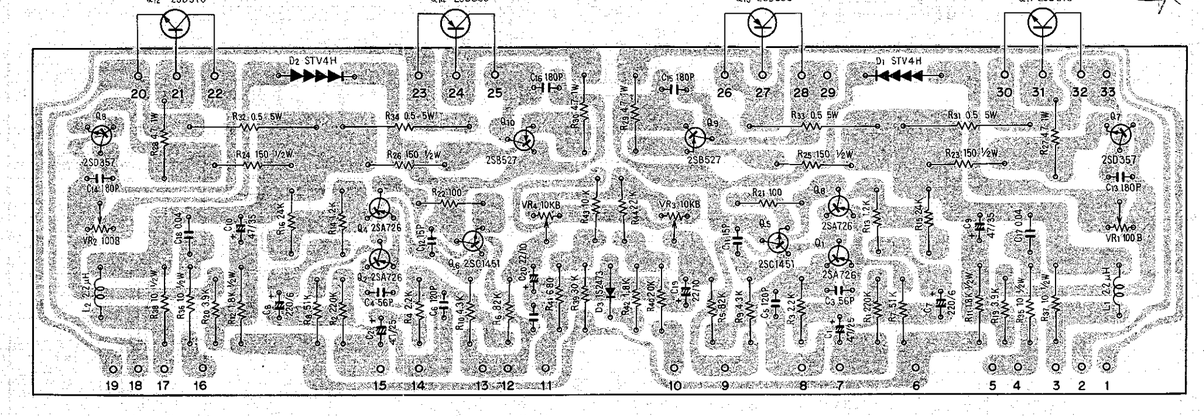
SP switch ass'y AWS-076



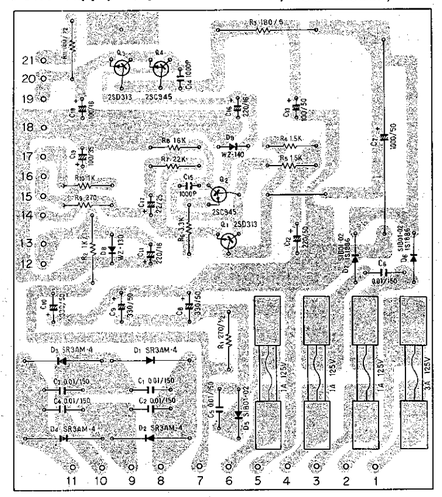
Switch & volume ass'y AWX-071



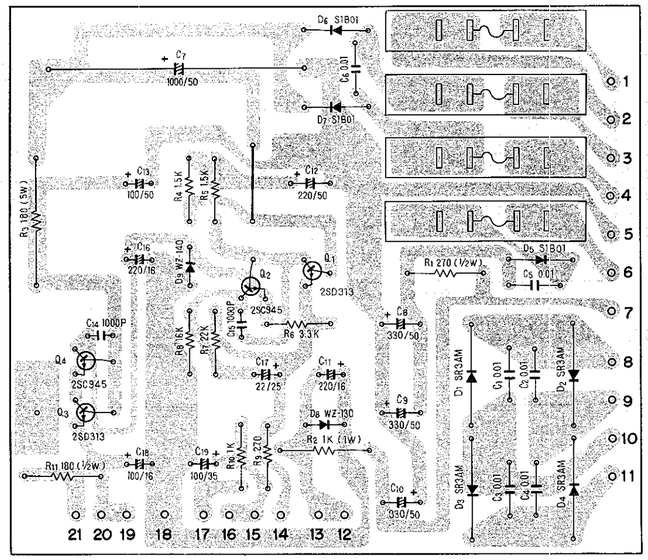
Power amp ass'y AWH-033



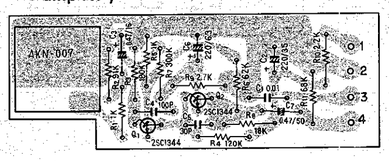
Power supply ass'y AWR-057 (F, KCU model)



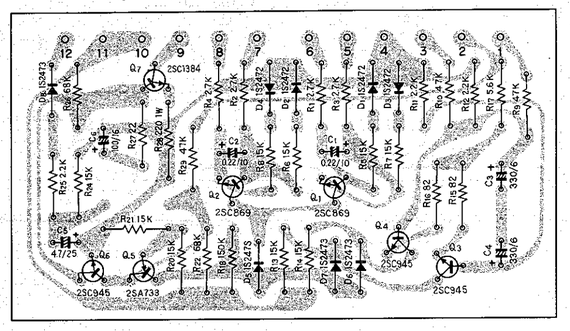
Power supply ass'y AWR-058 (GN model)



Mic amp ass'y AWM-066



Protection ass'y AWM-025



SX-737

TUNER Ass'y AWE-043

AWX-071 1/5

AWX-071 2/5

AWX-071 3/5

AWX-071 5/5

AWS-077 3/2

AWS-077 1/2

LAMP Ass'y AWX-072

POWER SUPPLY CIRCUIT Ass'y AWR-057

5-Line voltage model

220V model

EQUALIZER AMP Ass'y AWF-011

SWITCH & VOLUME Ass'y AWX-071 1/5

MIC AMP Ass'y AWM-066

CONTROL AMP Ass'y AWG-030

POWER AMP Ass'y AWH-033

PROTECTION Ass'y AWM-025

5P CONNECTOR Ass'y AWX-062

SWITCH Ass'y AWS-076

SWITCHES

S_1 FUNCTION
1. AM
2. FM
3. PHONO
4. MIC
5. AUX

S_2 REC SELECTOR
1. FM
2. PHONO
3. SOURCE
4. DUPLICATE

S_3 TAPE MONITOR 1 OFF ⟶ ON

S_4 TAPE MONITOR 2 OFF ⟶ ON

S_5 LOUDNESS OFF ⟶ ON

S_6 LOW FILTER OFF ⟶ ON

S_7 HIGH FILTER OFF ⟶ ON

S_8 MODE STEREO ⟶ MONO

S_9 FM MUTING ON ⟶ OFF

S_{10} SPEAKER A

S_{11} SPEAKER B

S_{12} POWER ON ⟶ OFF

S_{13} RELAY

S_{14} DE EMPHASIS

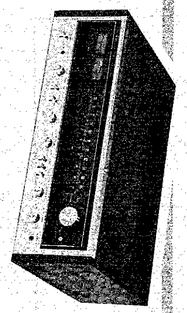
RESISTORS
IN OHM, 1/4W, ±5% TOLERANCE UNLESS OTHERWISE NOTED. K : kΩ M : MΩ

CAPACITORS
IN μF UNLESS OTHERWISE NOTED. P : pF

POTENTIO METER
VR_1 VOLUME
VR_2 BALANCE

NOTES :
- Neither switch (S_{14}) nor capacitors (C_6 & C_7) are provided for 220V units.
- No switch (S_{14}) is provided for 120V unit, but capacitors (C_6 & C_7) are provided.

[V] : SIGNAL VOLTAGE NECESSARY FOR OBTAINING 47W/8Ω OUTPUT POWER (1kHz).
⇦ V : DC VOLTAGE AT NO INPUT SIGNAL.
⇦ A : DC CURRENT AT NO INPUT SIGNAL.
V : DC VOLTAGE AT 47W/8Ω OUTPUT POWER.

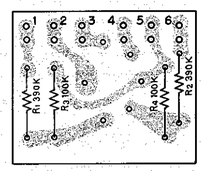


AM/FM STEREO RECEIVER

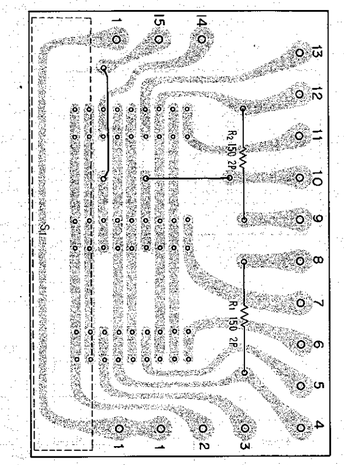
SX-838

F GN KCU

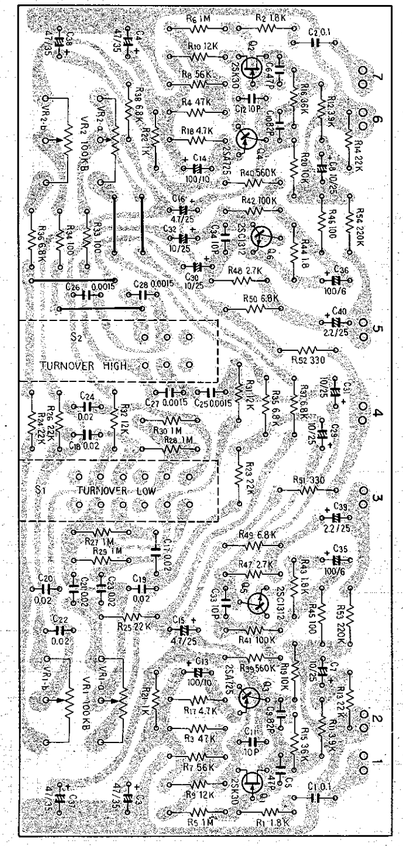
5P connector ass'y AWX-062



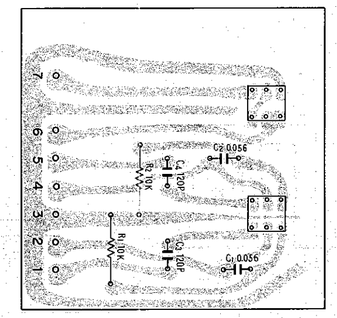
Speaker switch ass'y AWS-074



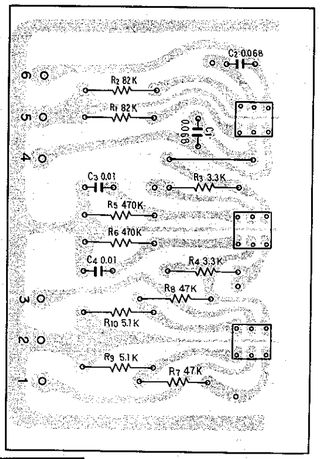
Control amp ass'y AWG-029



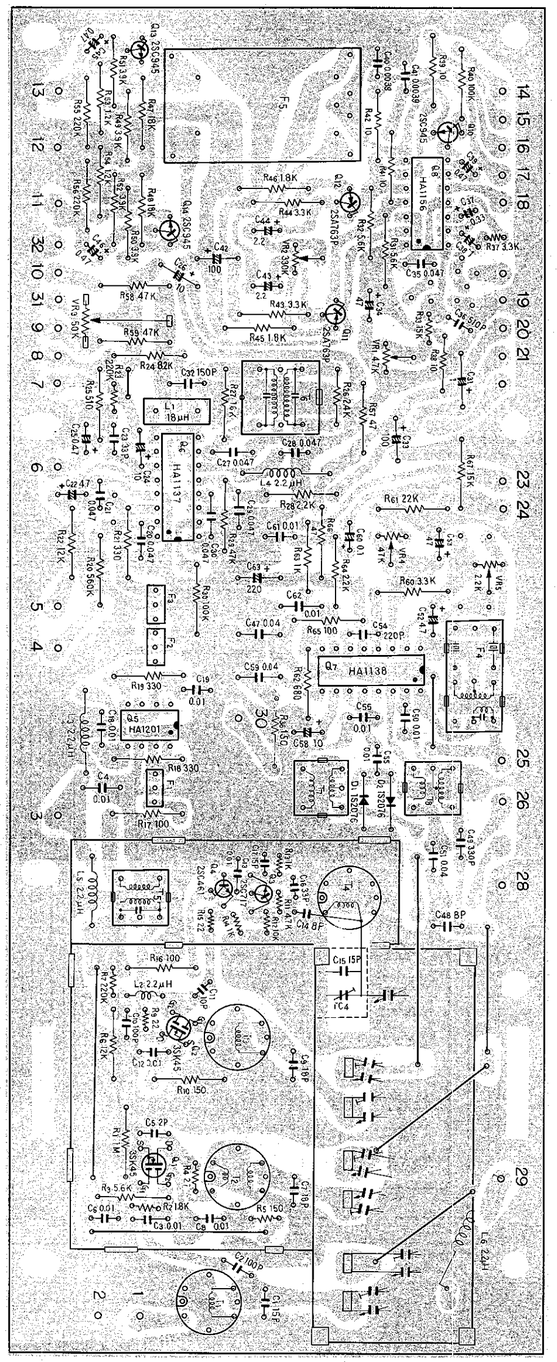
Switch ass'y AWS-065



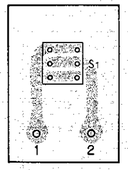
Filter and muting ass'y AWS-066



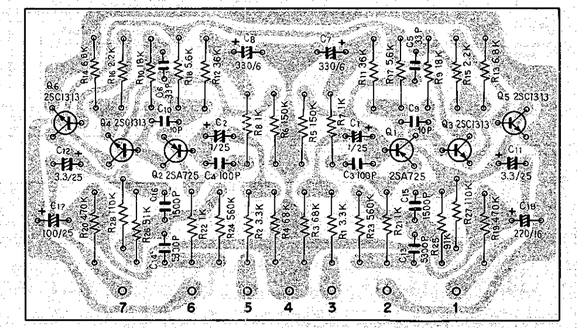
Tuner ass'y AWE-041



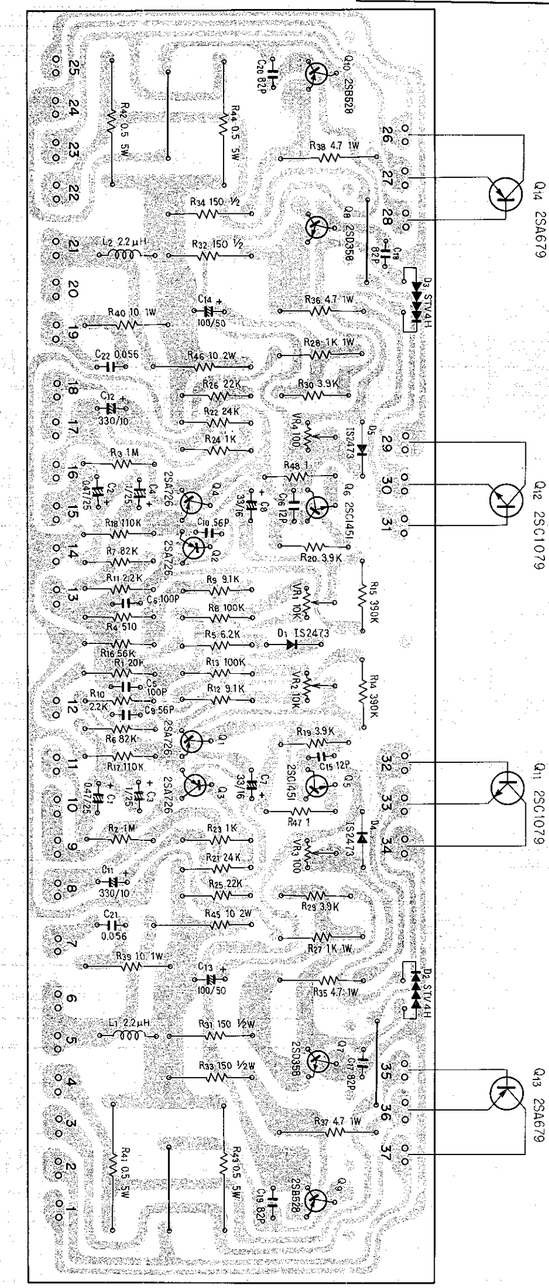
Switch circuit ass'y AWS-075



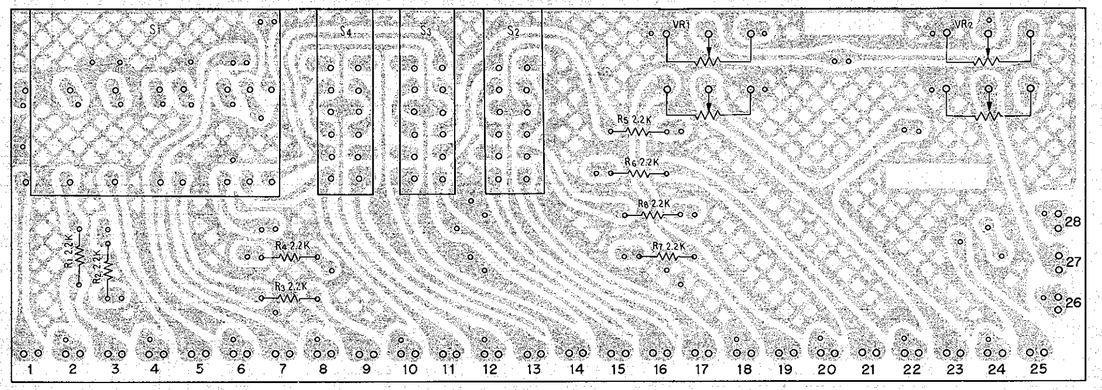
Equalizer amp ass'y AWF-011



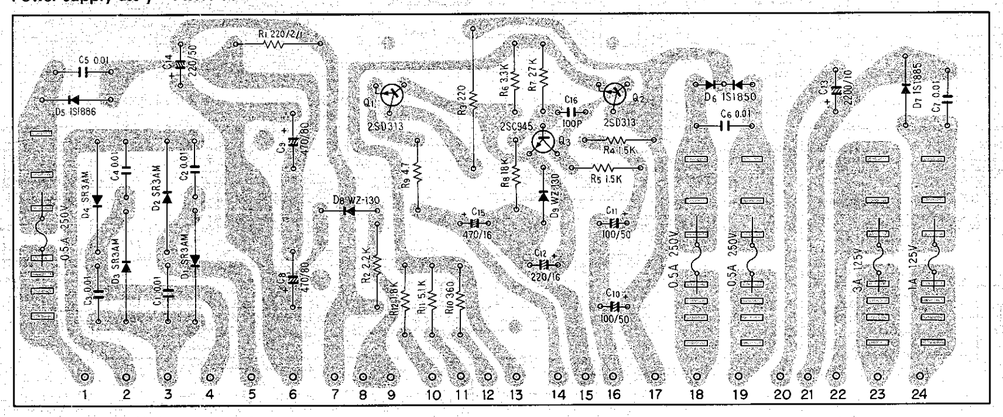
Power amp ass'y AWH-031



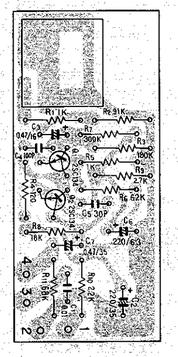
Switch and volume ass'y AWX-070



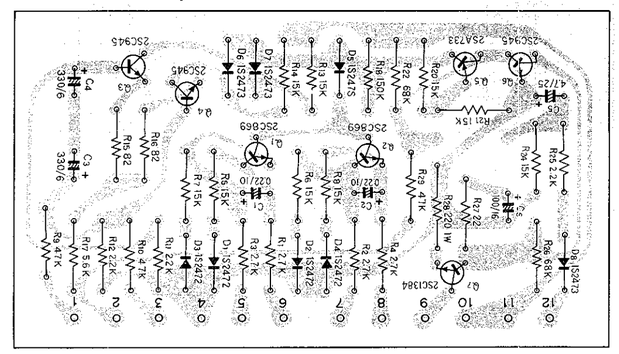
Power supply ass'y AWR-055



MIC amp ass'y AWM-064



Protection circuit ass'y AWM-025



SX-838

TUNER Ass'y AWE-041

FUNCTION SWITCH Ass'y AWS-073 1/3

FUNCTION SWITCH Ass'y AWS-073 2/3

FUNCTION SWITCH Ass'y AWS-073 3/3

SPEAKER SWITCH Ass'y AWS-074 2/2

SPEAKER SWITCH Ass'y AWS-074 1/2

LAMP Ass'y AWX-068 1/3

LAMP Ass'y AWX-068 2/3

LAMP Ass'y AWX-068 3/3

SWITCH Ass'y AWS-075

POWER SUPPLY CIRCUIT Ass'y AWR-055

PROTECTION CIRCUIT Ass'y AWM-025

CONTROL AMP Ass'y AWG-029

SWITCH & VOLUME Ass'y AWX-070

EQUALIZER AMP Ass'y AWF-011

MIC AMP Ass'y AWM-064

SP CONNECTOR Ass'y AWX-062

SWITCH Ass'y AWS-065

FILTER & MUTING Ass'y AWS-086

POWER AMP Ass'y AWH-031

SIGNAL METER

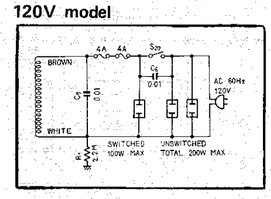
SWITCHES:
FUNCTION S1~S6
- S1 AM
- S2 FM
- S3 PHONO 1
- S4 PHONO 2
- S5 MIC
- S6 AUX

S7 TAPE MON 1
S8 TAPE MON 2
S9 NR ADAPTOR
S10 MONO
S11 LOUDNESS
S12 TURN OVER LOW
S13 TURN OVER HIGH
S14 LOW FILTER
S15 HIGH FILTER
S16 AF MUTING
S17 SPEAKER A
S18 SPEAKER B
S19 SPEAKER C
S20 POWER
S21 RELAY
S22 REC SELECTOR (FM POSITION)
- (1) FM
- (2) PHONO
- (3) SOURCE
- (4) TAPE DUPLICATE

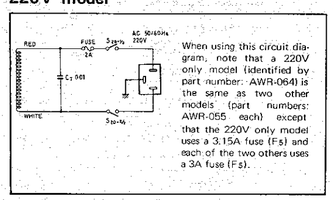
S23 FM MUTING

NOTES:
- Neither switch(S24) nor capacitors(C8 & C9) are provided for FTZ approved unit.
- No switch(S24) is provided for 120V unit, but capacitors(C8 & C9) are provided.

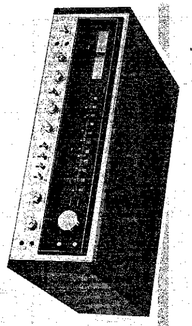
120V model



220V model



When using this circuit diagram, note that a 220V only model (identified by part number: AWR-064) is the same as two other models' (part numbers: AWR-055 each) except that the 220V only model uses a 3.15A fuse (F5) and each of the two others uses a 3A fuse (F5).

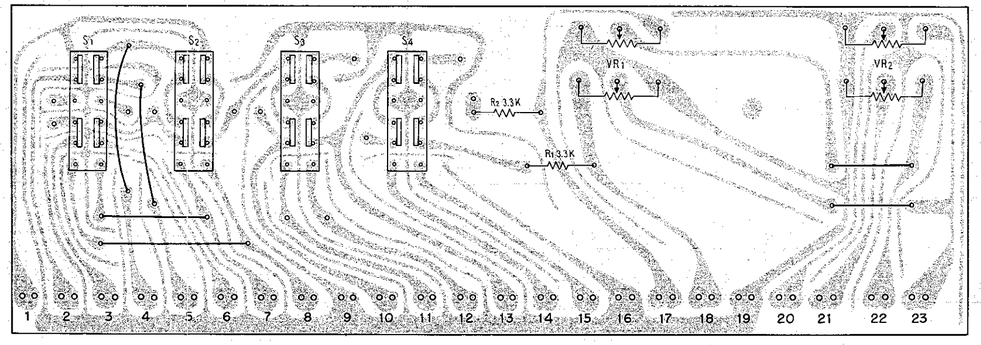


AM/FM STEREO RECEIVER

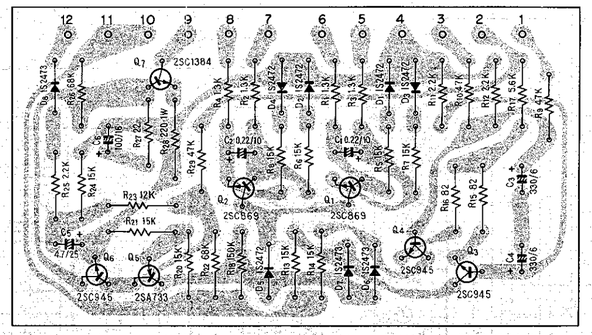
SX-939

F GN KCU

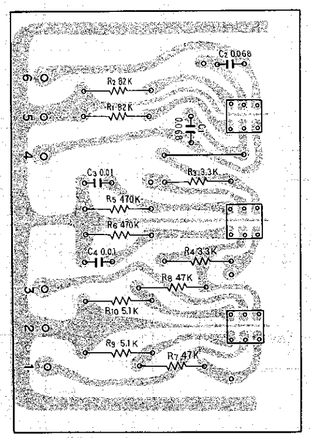
Switch circuit ass'y AWS-067



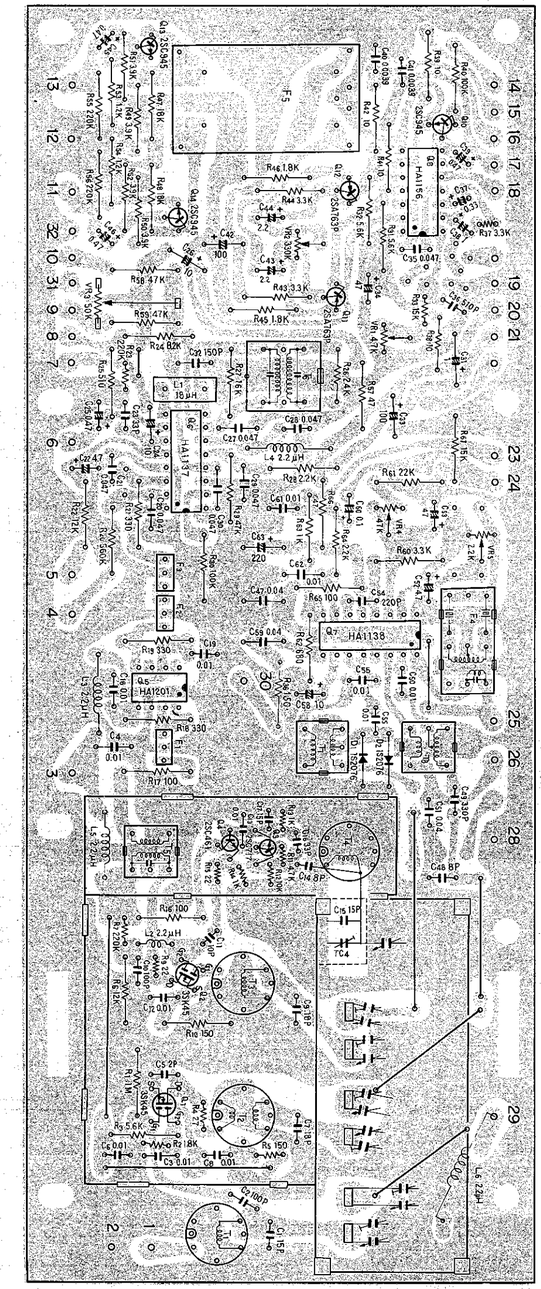
Protection circuit ass'y AWM-062



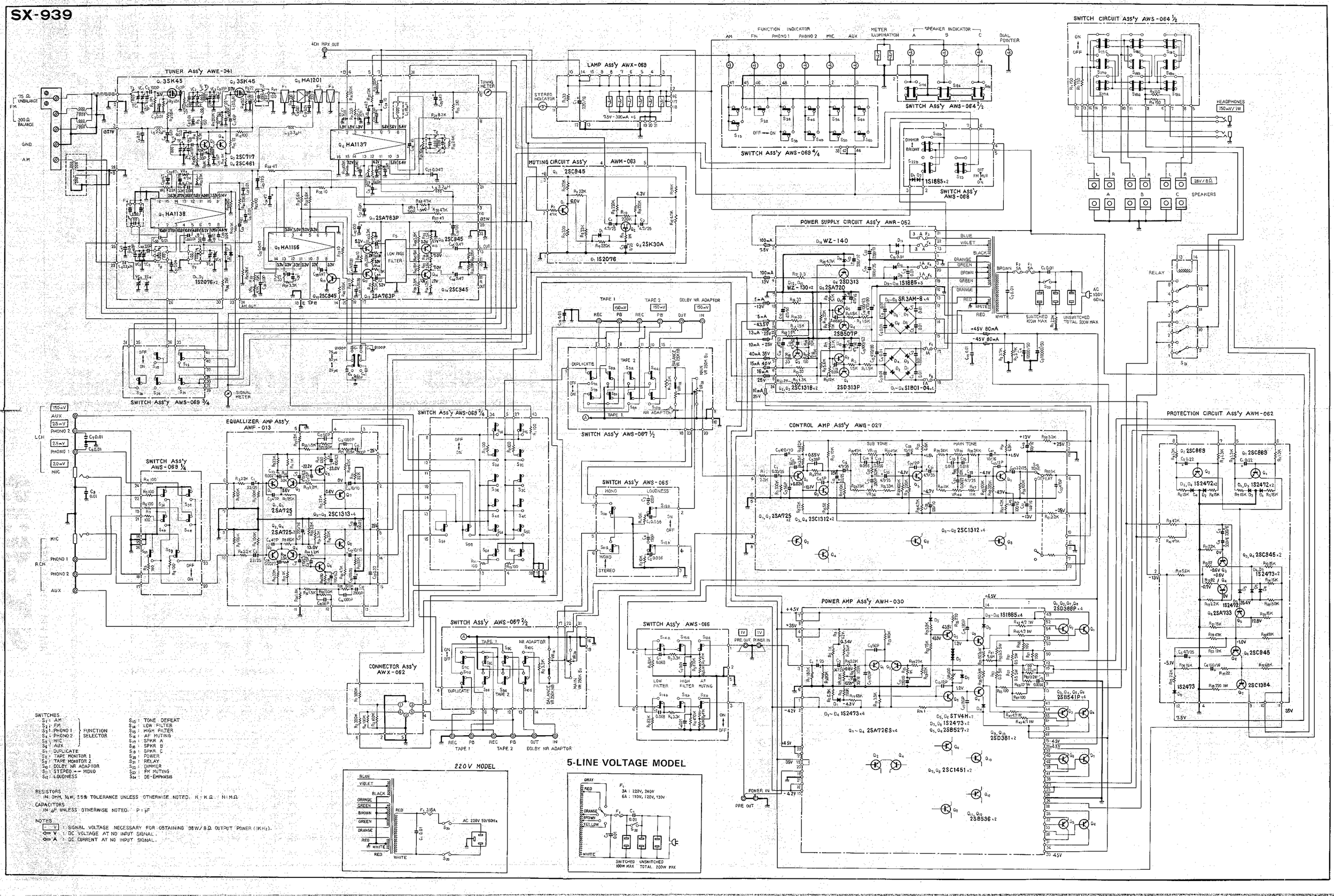
Switch circuit ass'y AWS-066



Tuner ass'y AWE-041



SX-939



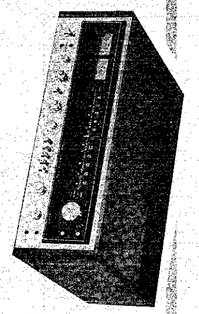
SWITCHES

S_1 : AM	FUNCTION SELECTOR	S_{13} : TONE DEFEAT	
S_2 : FM		S_{14} : LOW FILTER	
S_3 : PHONO 1		S_{15} : HIGH FILTER	
S_4 : PHONO 2		S_{16} : AF MUTING	
S_5 : MIC		S_{17} : SPKR A	
S_6 : AUX		S_{18} : SPKR B	
S_9 : DUPLICATE		S_{19} : SPKR C	
S_{21} : TAPE MONITOR 1		S_{20} : POWER	
S_{22} : TAPE MONITOR 2		S_{21} : RELAY	
S_{23} : DOLBY NR ADAPTOR		S_{22} : DIMMER	
S_{24} : STEREO ⟷ MONO		S_{23} : FM MUTING	
S_{25} : LOUDNESS		S_{24} : DE-EMPHASIS	

RESISTORS
IN OHM, ¼W, ±5% TOLERANCE UNLESS OTHERWISE NOTED. K : KΩ , M : MΩ

CAPACITORS
IN μF UNLESS OTHERWISE NOTED. P : pF

NOTES
V : SIGNAL VOLTAGE NECESSARY FOR OBTAINING 98W/8Ω OUTPUT POWER (1KHz).
⇦ V : DC VOLTAGE AT NO INPUT SIGNAL.
⇦ A : DC CURRENT AT NO INPUT SIGNAL.

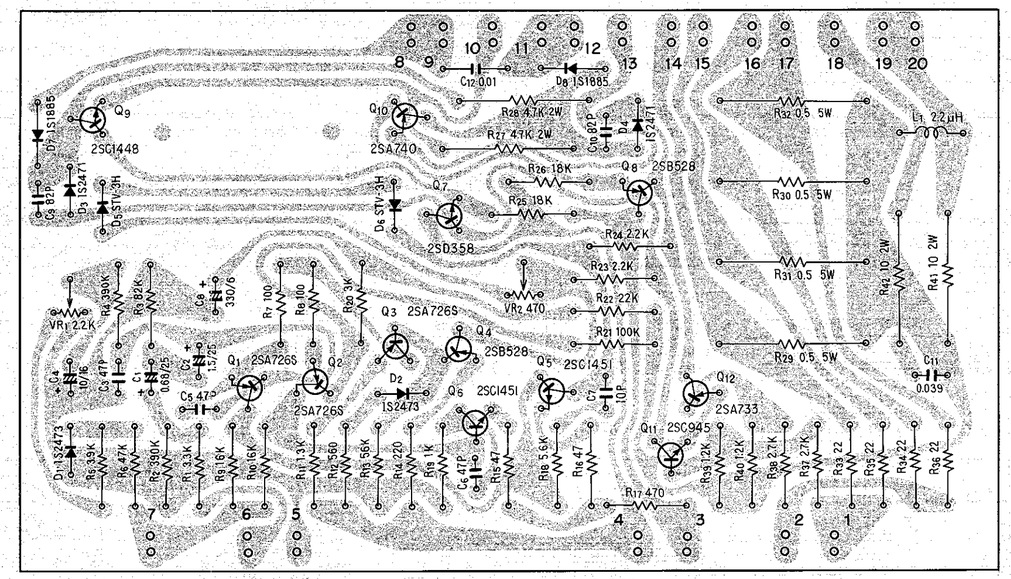


AM/FM STEREO RECEIVER

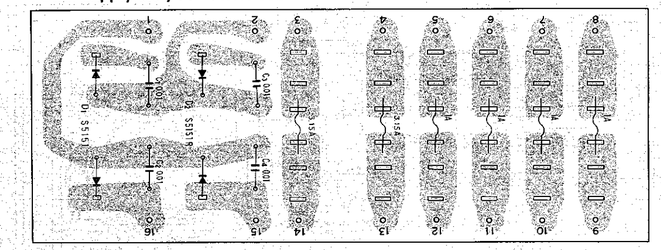
SX-1010

F GN KCU

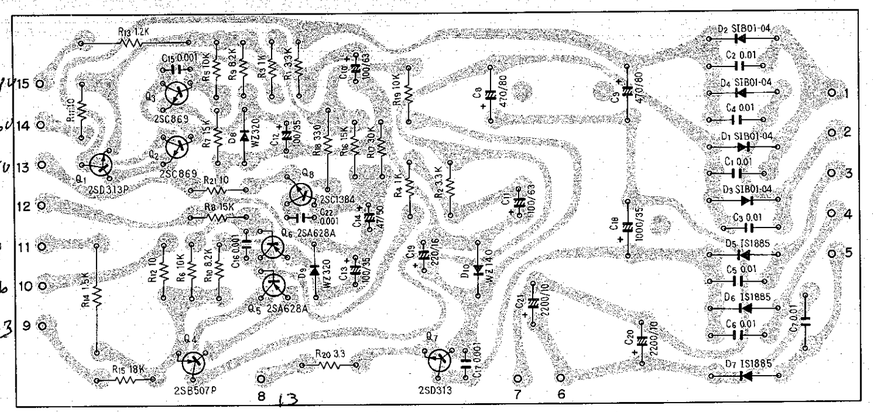
Power amp ass'y AWH-032



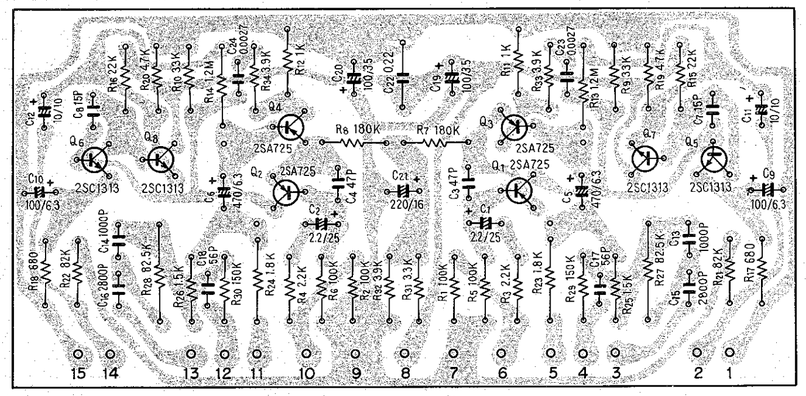
Power supply ass'y A AWR-053



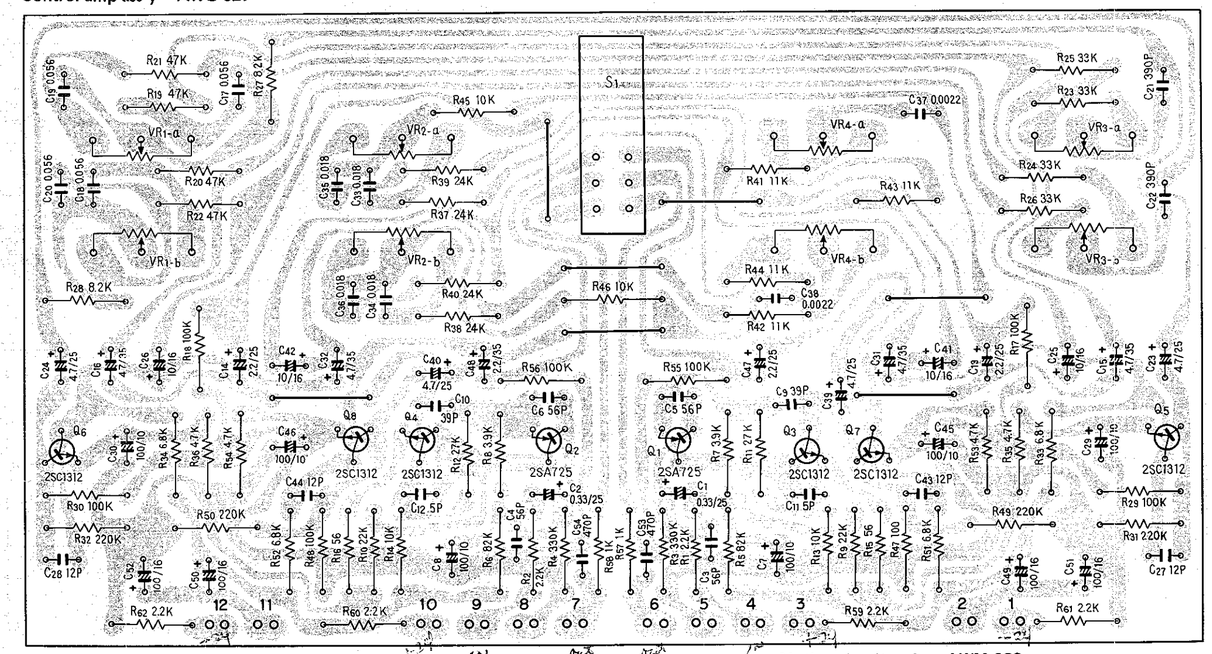
Power supply ass'y B AWR-054



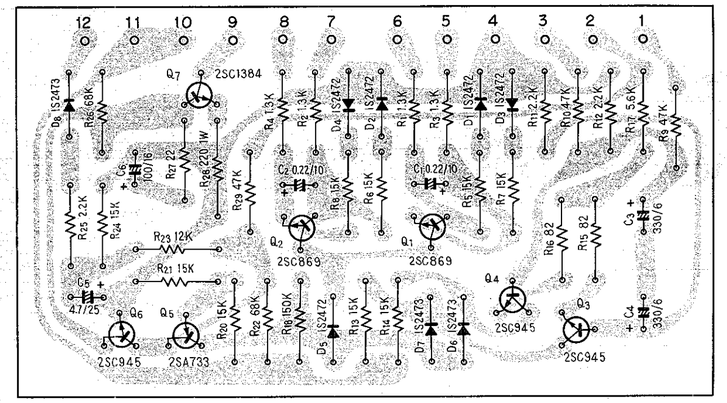
Equalizer amp ass'y AWF-013



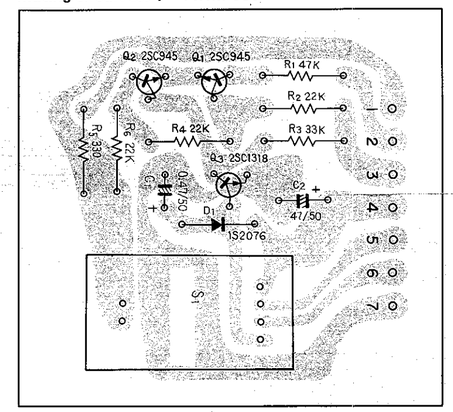
Control amp ass'y AWG-027



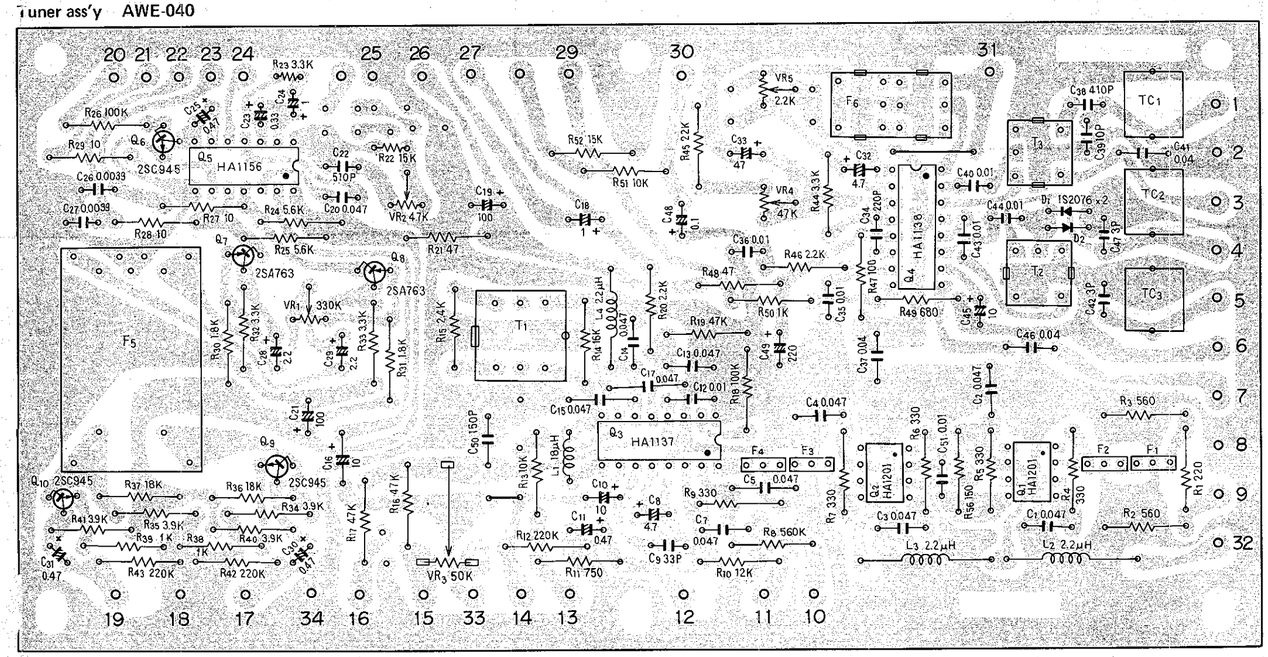
Protection circuit ass'y AWM-062



Muting circuit ass'y AWM-039

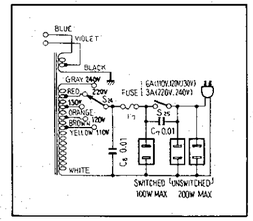


Tuner ass'y AWE-040

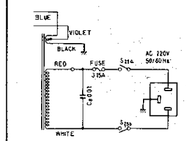


SX-1010

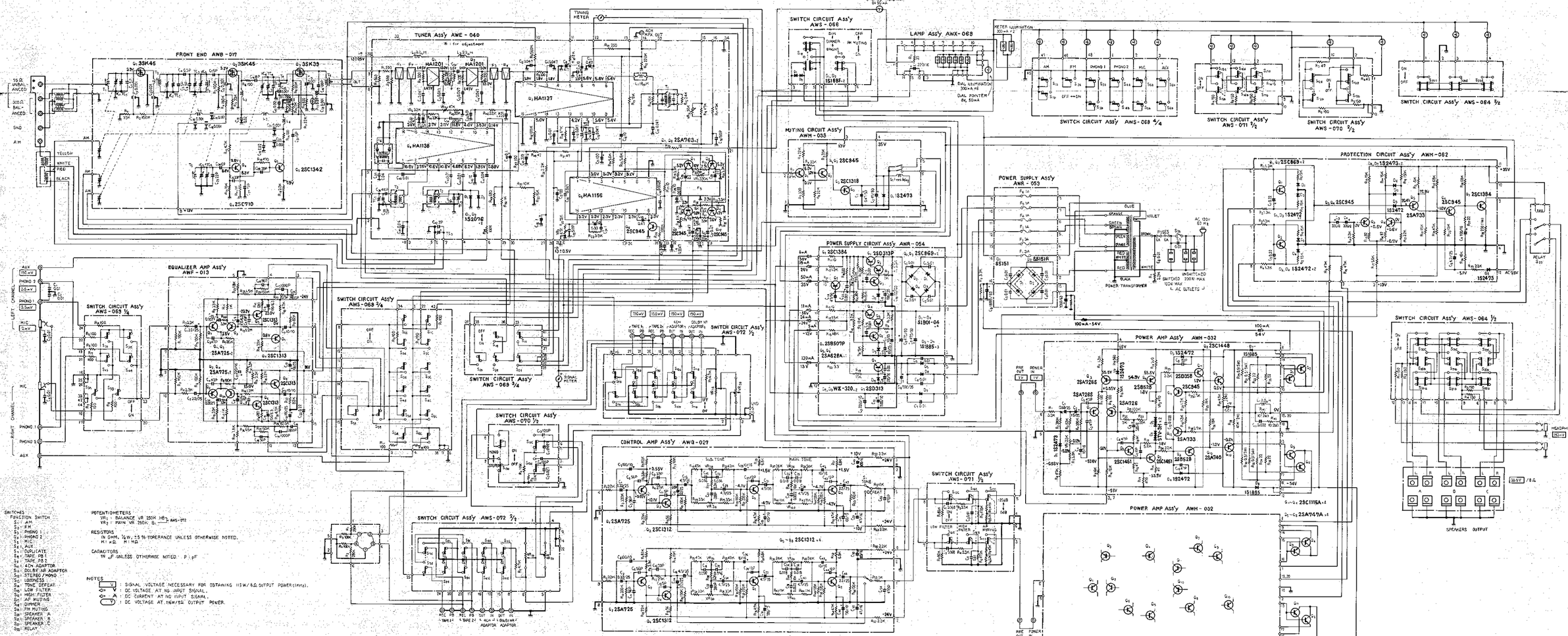
5-LINE VOLTAGE MODEL

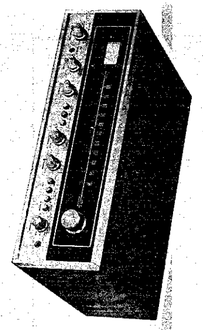


220V model



NOTE:
When using this circuit diagram, note that a 220V only model (identified by part number: AWR-053) is the same as two other models (part numbers: AWR-057 each) except that the 220V only model uses 3.15A fuses (F1 & F2) and each of the two others uses 3A fuses (F1 & F2)



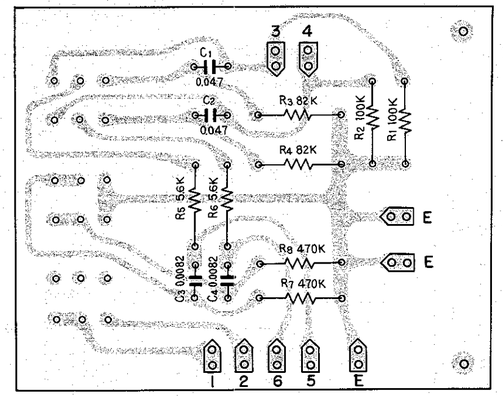


AM/FM STEREO RECEIVER

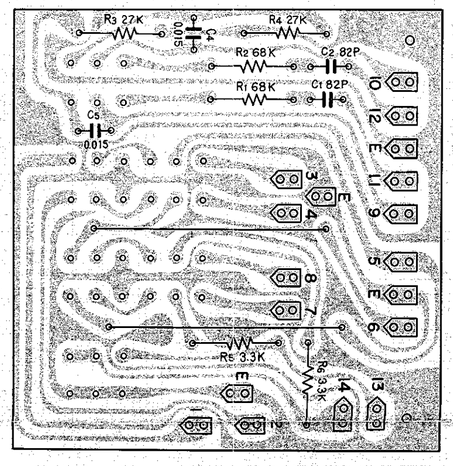
SX-3000

FW

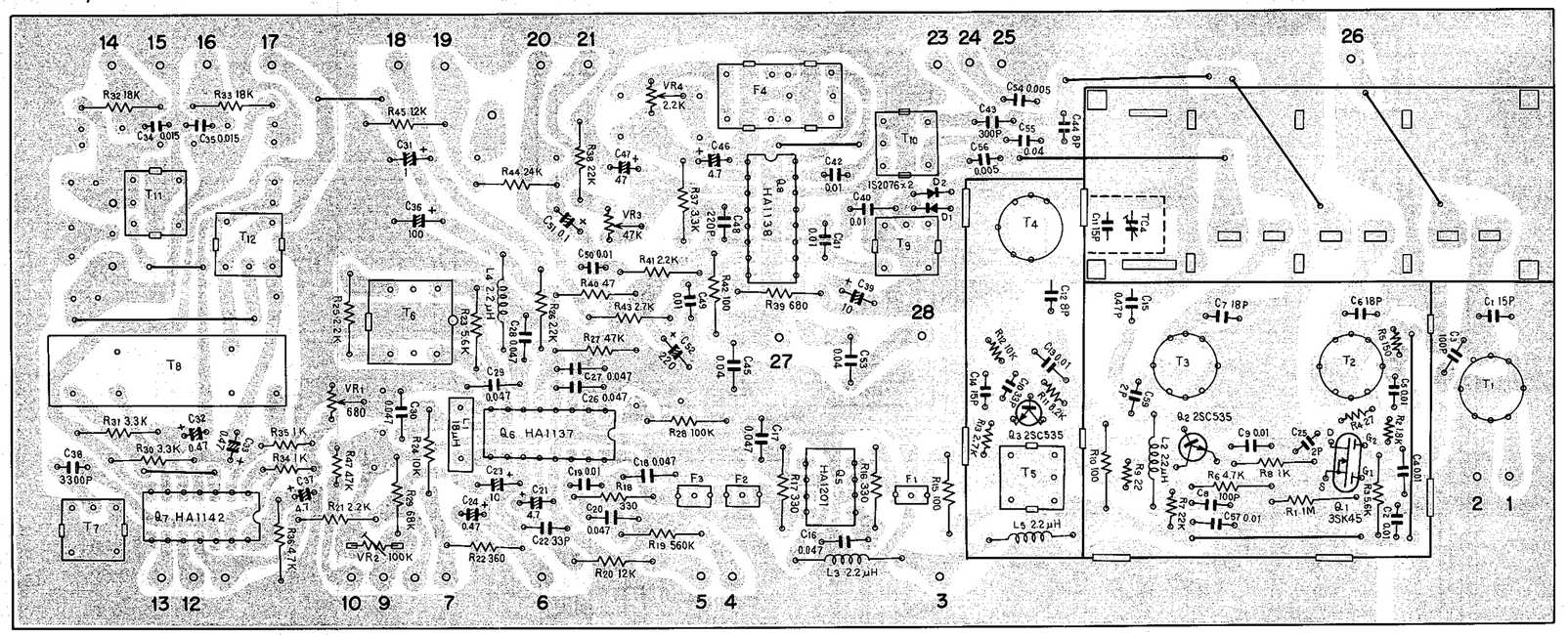
Switch circuit ass'y AWS-013



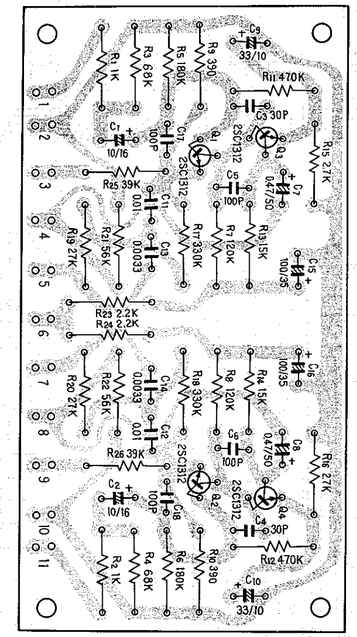
Switch circuit ass'y AWS-014



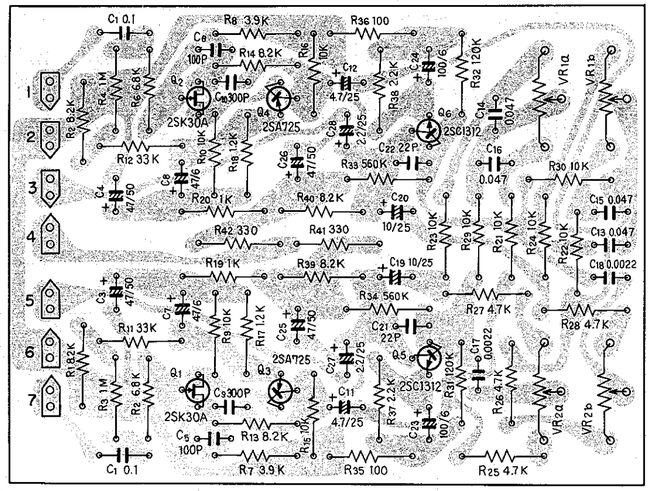
Tuner ass'y AWE-031



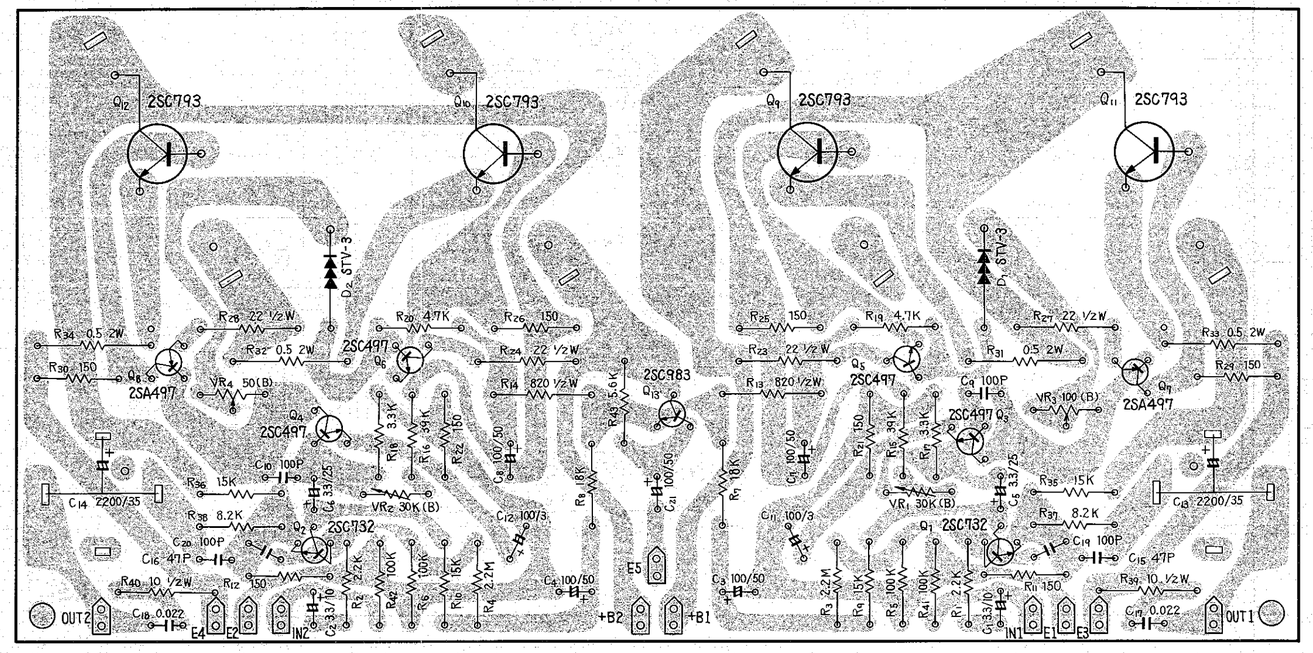
Equalizer amp ass'y W21-004



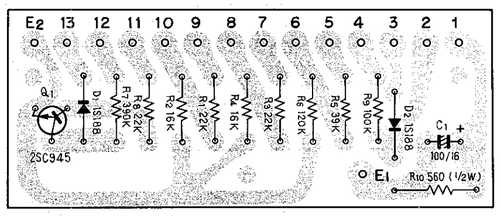
Control amp ass'y AWG-008



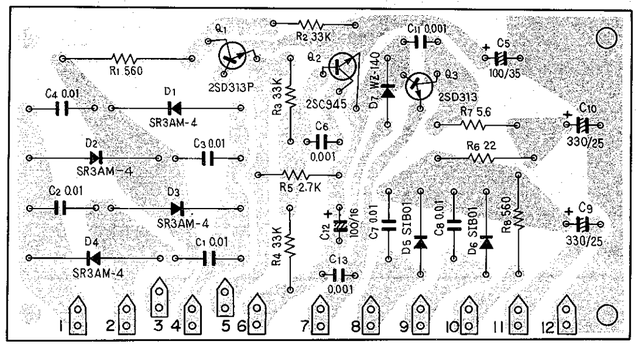
Power amp ass'y AWH-002



CR, meter drive ass'y AWM-050



Power supply ass'y AWR-029



SX-3000

TUNER Ass'y AWE-031

CR & METER DRIVE Ass'y AWM-050

POWER SUPPLY CIRCUIT Ass'y AWR-029

POWER AMP Ass'y AWH-002

LAMP Ass'y AWX-010

SWITCH Ass'y AWS-013

EQUALIZER AMP Ass'y W21-004

SWITCH Ass'y AWS-014

CONTROL AMP Ass'y AWG-008

NOTES:
1) SWITCHES ARE SHOWN AT THE FIRST POSITION.
2) V : SIGNAL VOLTAGE NECESSARY FOR OBTAINING 20W/8Ω OUTPUT POWER (1k Hz).
⇦ V : DC VOLTAGE AT NO INPUT SIGNAL.
⇦ A : DC CURRENT AT NO INPUT SIGNAL.
(V) : DC VOLTAGE AT 20W/8Ω OUTPUT POWER.
(A) : DC CURRENT AT 20W/8Ω OUTPUT POWER.

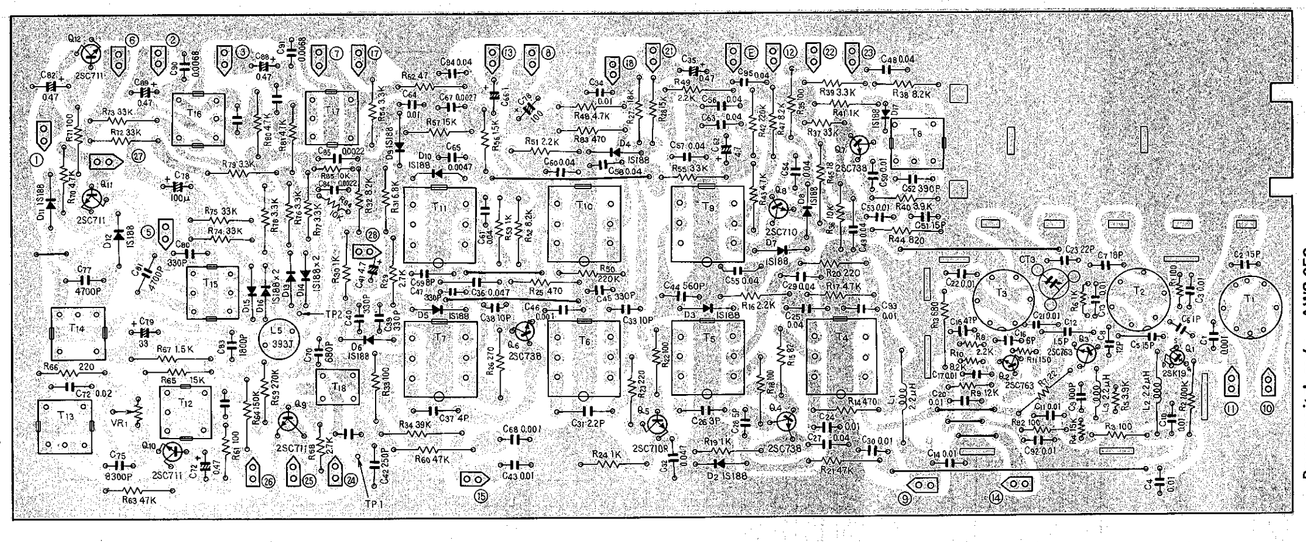
RESISTORS
IN OHM 1/8W, ±5% TOLERANCE UNLESS OTHERWISE NOTED. K: kΩ. M: MΩ

CAPACITORS
IN μF UNLESS OTHERWISE NOTED. P: pF

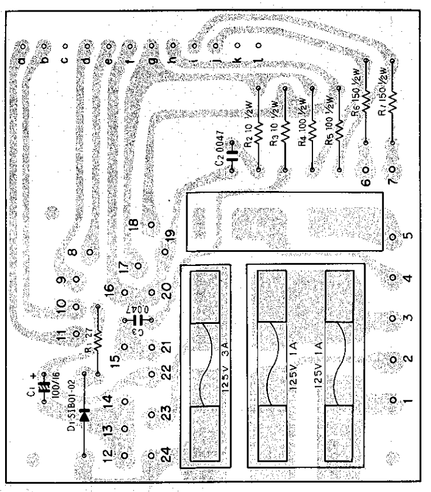
SWITCHES:
S_1 INPUT SELECTOR
1) AM
2) FM MONO
3) FM AUTO
4) PHONO 1
5) PHONO 2
6) MIC
7) AUX

S_2 POWER SWITCH
SPEAKER SELECTOR
1) POWER OFF
2) POWER ON
SPEAKER A
3) SPEAKER OFF
4) SPEAKER B
5) SPEAKER C
6) SPEAKER A+B
7) SPEAKER A+C

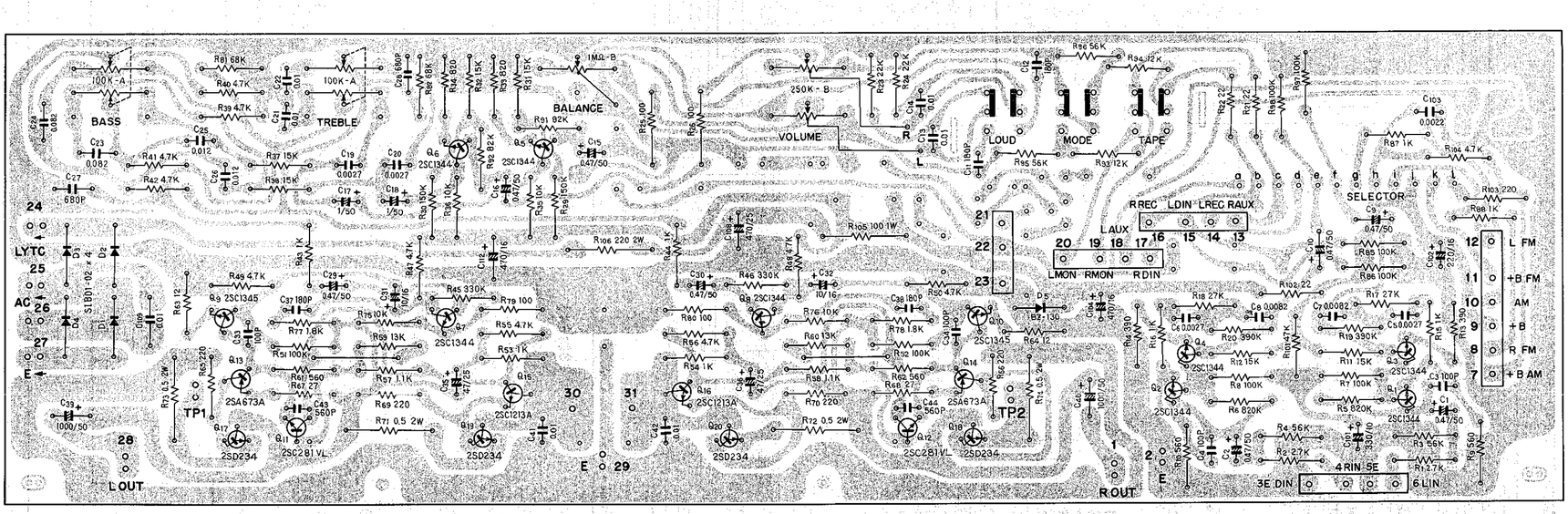
Tuner ass'y AWE-004



Power switch ass'y AWS-053



AF amp ass'y AWK-028





AM/FM STEREO RECEIVER

SOUND PROJECT

BY PIONEER MODEL 300

KCW KUW

MODEL 300

TUNER Ass'y AWE-004

LAMP Ass'y AWX-055

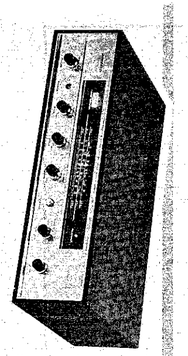
AF AMP Ass'y AWK-028

KUW model

SWITCHES
- S1 TAPE MONITOR (OFF position)
- S2 LOUDNESS (OFF position)
- S3 FUNCTION (AM position)
  - 1 AM
  - 2 FM
  - 3 PHONO
  - 4 AUX
- S4 MODE (STEREO position)
- S5 SPEAKERS (POWER OFF position)
  - 1 POWER OFF
  - 2 A
  - 3 SPEAKER OFF
  - 4 B
  - 5 A+B

POTENTIOMETERS
- VR1 BALANCE
- VR2 VOLUME
- VR3 TREBLE
- VR4 BASS

V : DC VOLTAGE AT NO INPUT SIGNAL
□ : SIGNAL VOLTAGE NECESSARY FOR OBTAINING 8W/8Ω OUTPUT POWER (1k Hz)

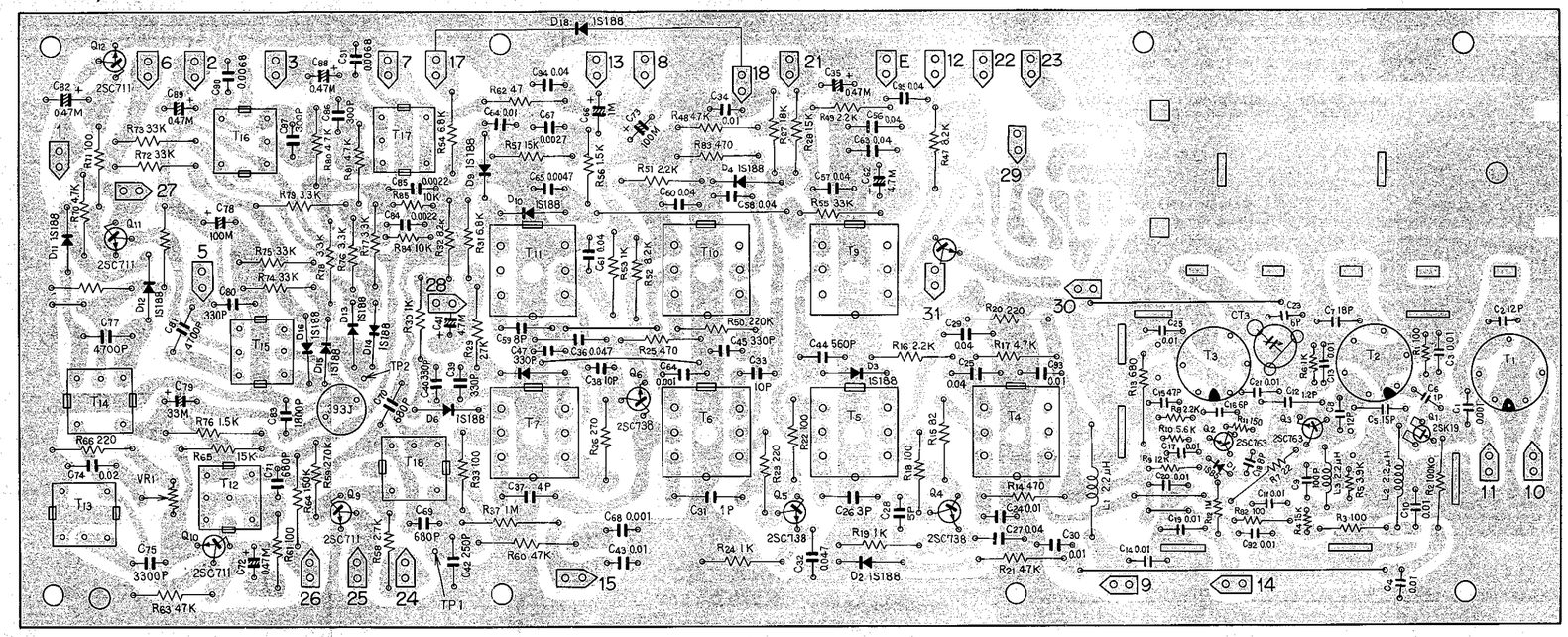


SW/MW/FM STEREO RECEIVER

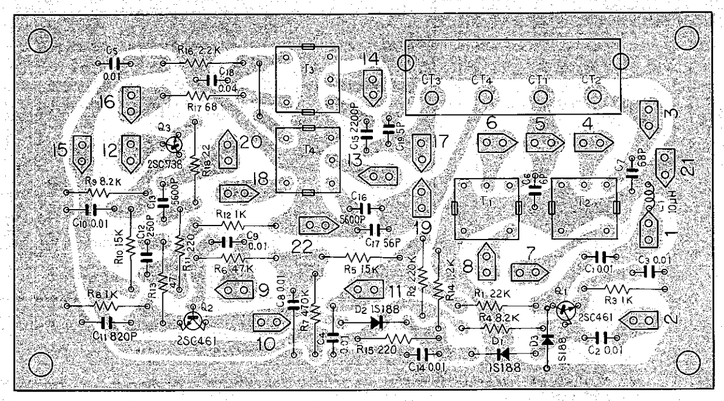
KX-303

FSAW

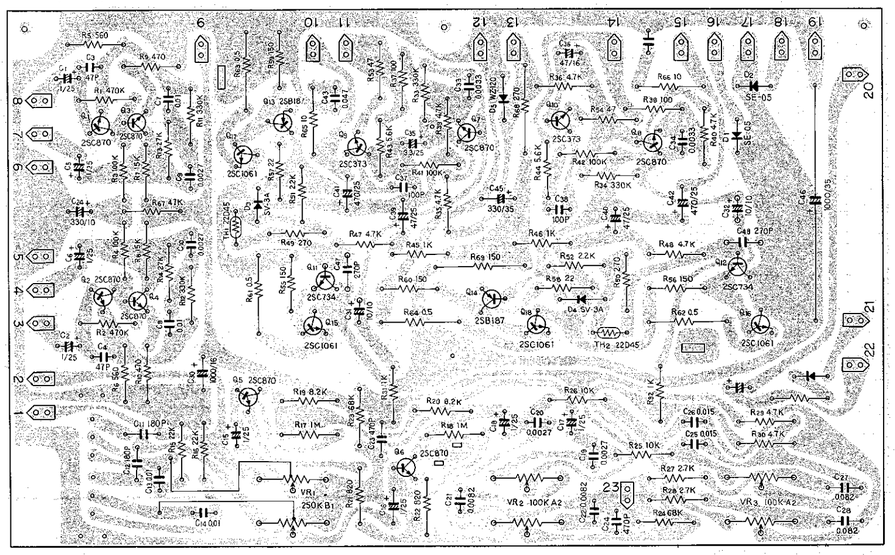
Tuner ass'y AWE-006



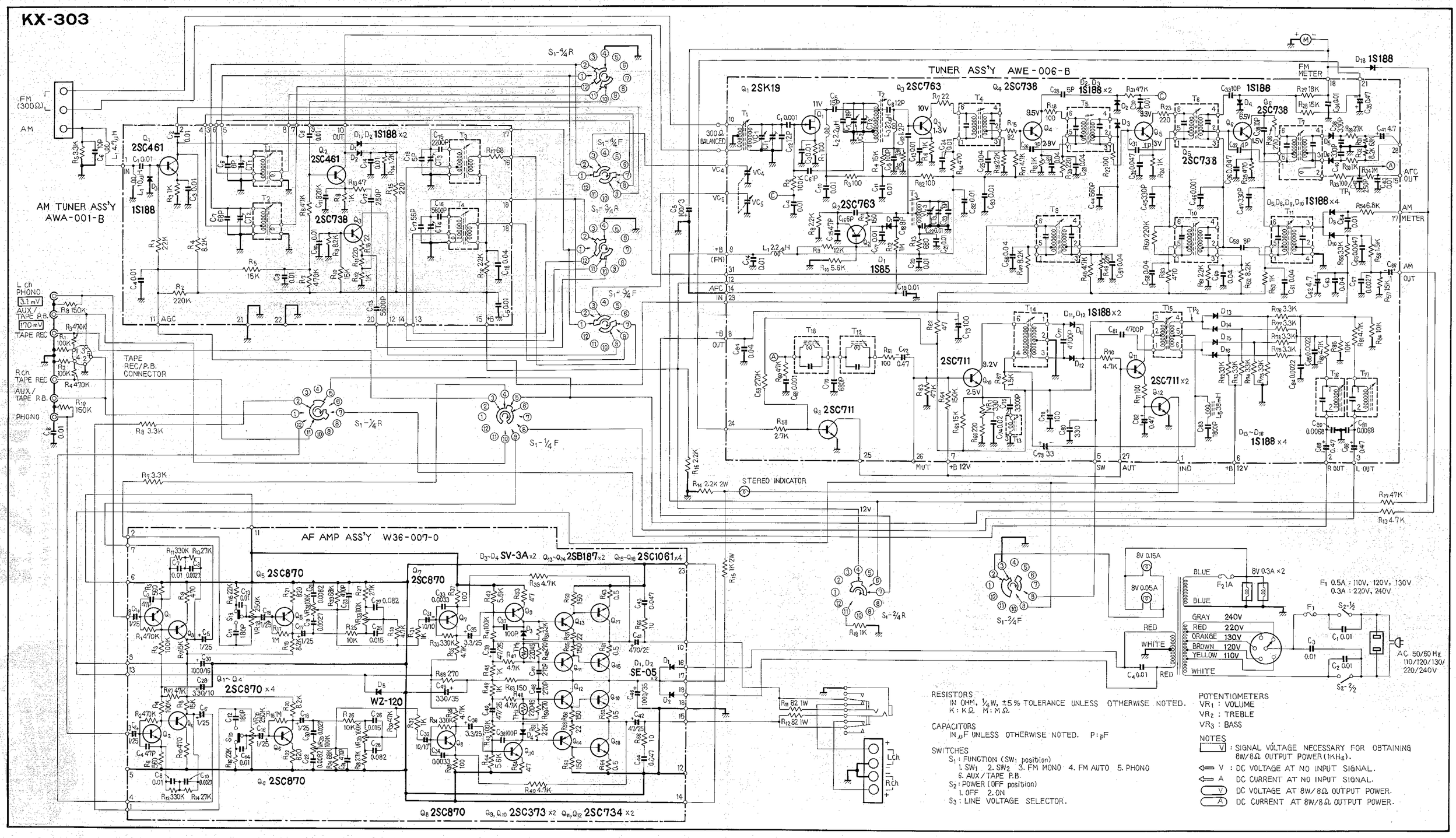
AM front end ass'y AWA-001

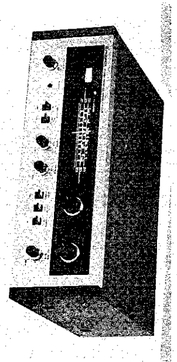


AF amp ass'y W36-007



KX-303


AM TUNER ASS'Y AWA-001-B
TUNER ASS'Y AWE-006-B
AF AMP ASS'Y W36-007-0
TAPE REC/P.B. CONNECTOR
STEREO INDICATOR
FM METER
AM METER
AFC OUT
R OUT
L OUT
AC 50/60 Hz 110/120/130/ 220/240V
F1 0.5A : 110V, 120V, 130V
0.3A : 220V, 240V
GRAY 240V
RED 220V
ORANGE 130V
BROWN 120V
YELLOW 110V
RESISTORS
IN OHM, 1/4W, ±5% TOLERANCE UNLESS OTHERWISE NOTED.
K : KΩ M : MΩ.
CAPACITORS
IN μF UNLESS OTHERWISE NOTED. P : pF
SWITCHES
S1 : FUNCTION (SW1 position)
1. SW1 2. SW2 3. FM MONO 4. FM AUTO 5. PHONO
6. AUX / TAPE P.B.
S2 : POWER (OFF position)
1. OFF 2. ON
S3 : LINE VOLTAGE SELECTOR.
POTENTIOMETERS
VR1 : VOLUME
VR2 : TREBLE
VR3 : BASS
NOTES
V : SIGNAL VOLTAGE NECESSARY FOR OBTAINING 8W/8Ω OUTPUT POWER(1KHz).
V : DC VOLTAGE AT NO INPUT SIGNAL.
A : DC CURRENT AT NO INPUT SIGNAL.
V : DC VOLTAGE AT 8W/8Ω OUTPUT POWER.
A : DC CURRENT AT 8W/8Ω OUTPUT POWER.

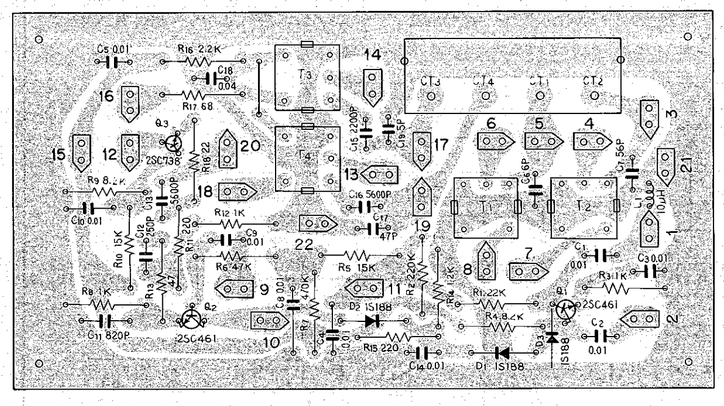


SW/MW/FM STEREO RECEIVER

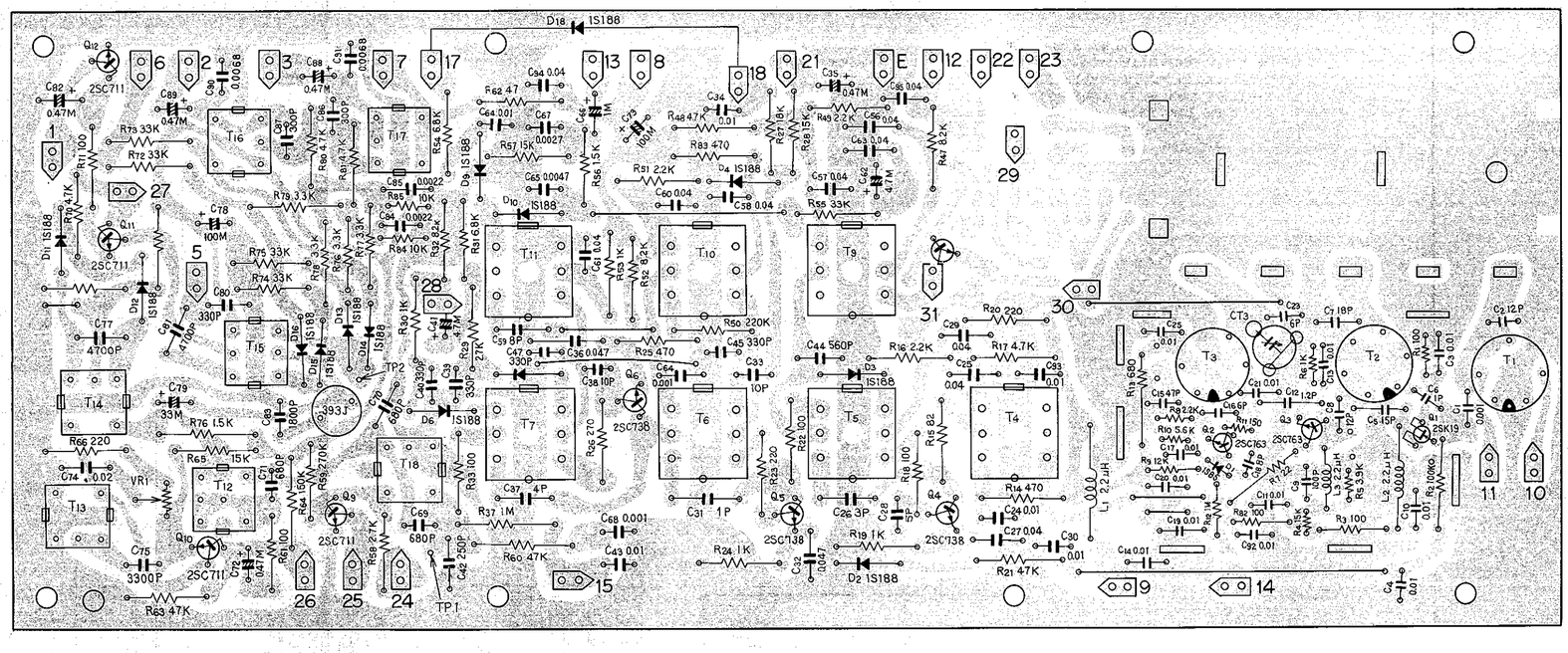
KX-404

FSAW

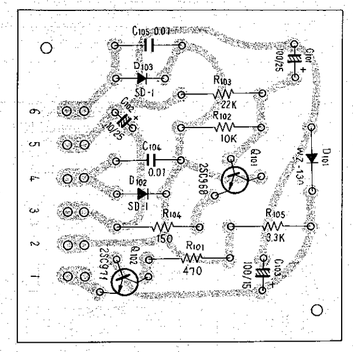
AM front end ass'y AWA-002



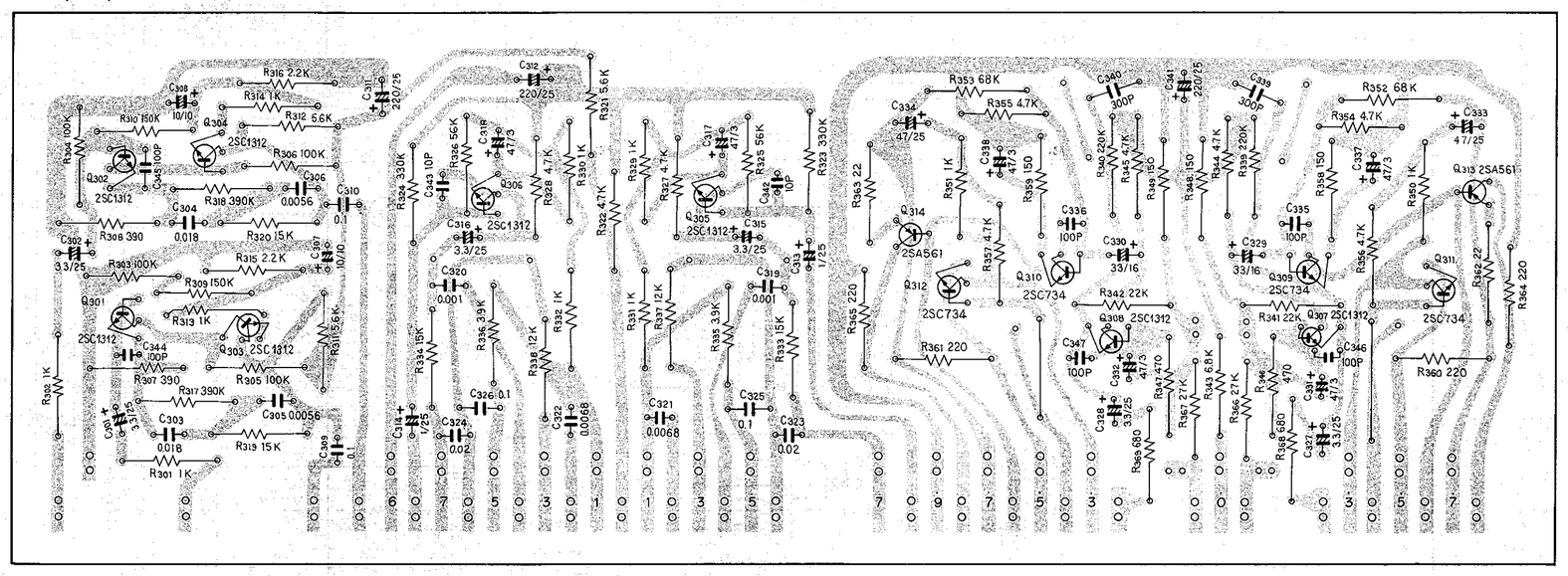
Tuner ass'y AWE-006



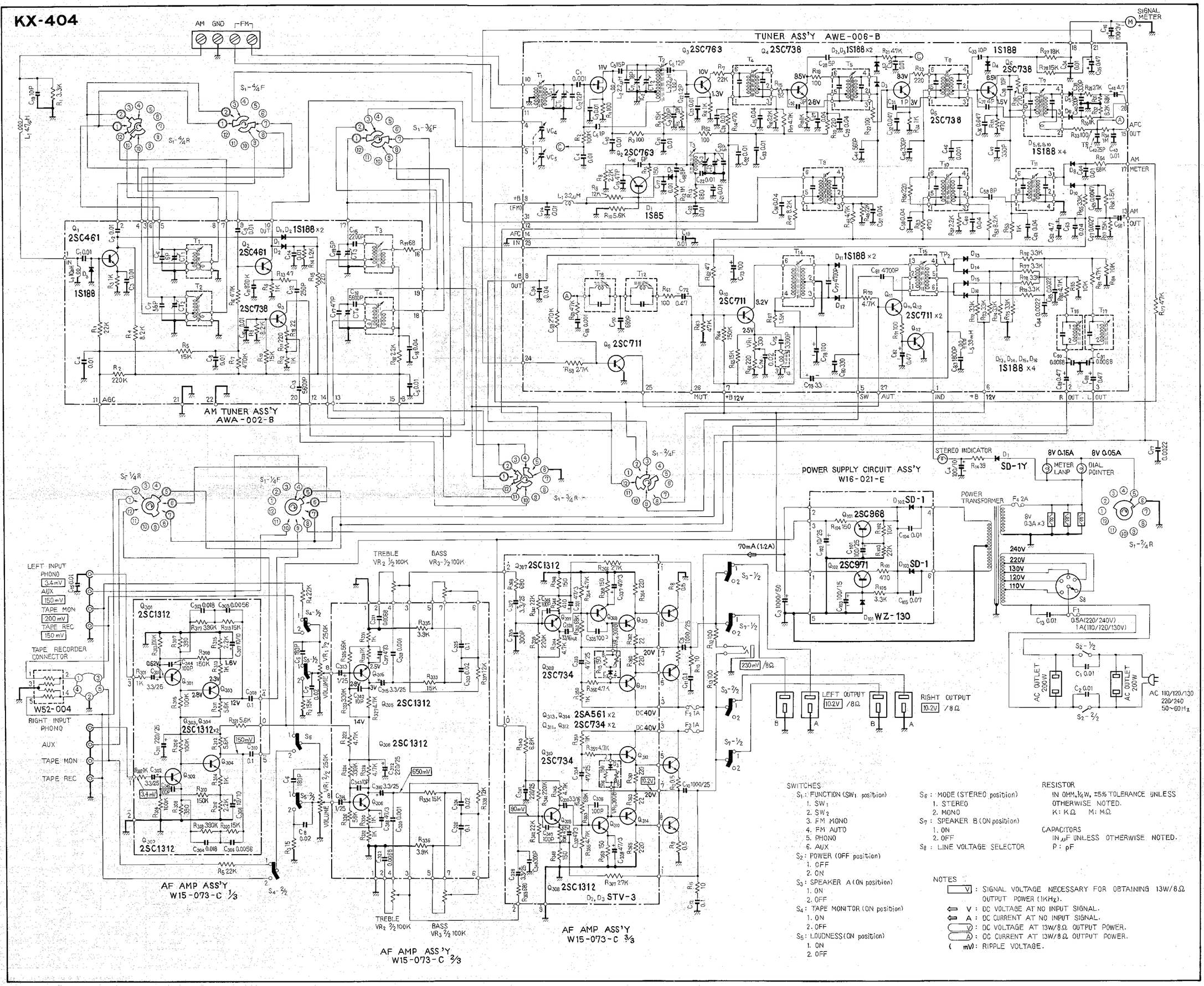
Power supply ass'y W16-021

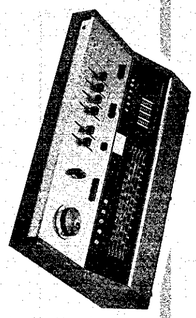


AF amp ass'y W15-073



KX-404


TUNER ASS'Y AWE-006-B
AM TUNER ASS'Y AWA-002-B
POWER SUPPLY CIRCUIT ASS'Y W16-021-E
AF AMP ASS'Y W15-073-C 1/3
AF AMP ASS'Y W15-073-C 2/3
AF AMP ASS'Y W15-073-C 3/3
SIGNAL METER
AM METER
STEREO INDICATOR
METER LAMP
DIAL POINTER
POWER TRANSFORMER
LEFT INPUT
PHONO
AUX
TAPE MON
TAPE REC
TAPE RECORDER CONNECTOR
RIGHT INPUT
W52-004
LEFT OUTPUT
RIGHT OUTPUT
AC OUTLET 200W
AC 110/120/130 220/240 50~60Hz
TREBLE
BASS
VOLUME
70mA (1.2A)
240V
220V
130V
120V
110V
SWITCHES
S1 : FUNCTION (SW1 position)
1. SW1
2. SW2
3. FM MONO
4. FM AUTO
5. PHONO
6. AUX
S2 : POWER (OFF position)
1. OFF
2. ON
S3 : SPEAKER A (ON position)
1. ON
2. OFF
S4 : TAPE MONITOR (ON position)
1. ON
2. OFF
S5 : LOUDNESS (ON position)
1. ON
2. OFF
S6 : MODE (STEREO position)
1. STEREO
2. MONO
S7 : SPEAKER B (ON position)
1. ON
2. OFF
S8 : LINE VOLTAGE SELECTOR
RESISTOR
IN OHM, 1/4W, ±5% TOLERANCE UNLESS OTHERWISE NOTED.
K: KΩ M: MΩ
CAPACITORS
IN μF UNLESS OTHERWISE NOTED.
P : pF
NOTES
V : SIGNAL VOLTAGE NECESSARY FOR OBTAINING 13W/8Ω OUTPUT POWER (1KHz).
V : DC VOLTAGE AT NO INPUT SIGNAL.
A : DC CURRENT AT NO INPUT SIGNAL.
(V) : DC VOLTAGE AT 13W/8Ω OUTPUT POWER.
(A) : DC CURRENT AT 13W/8Ω OUTPUT POWER.
(mV) : RIPPLE VOLTAGE.

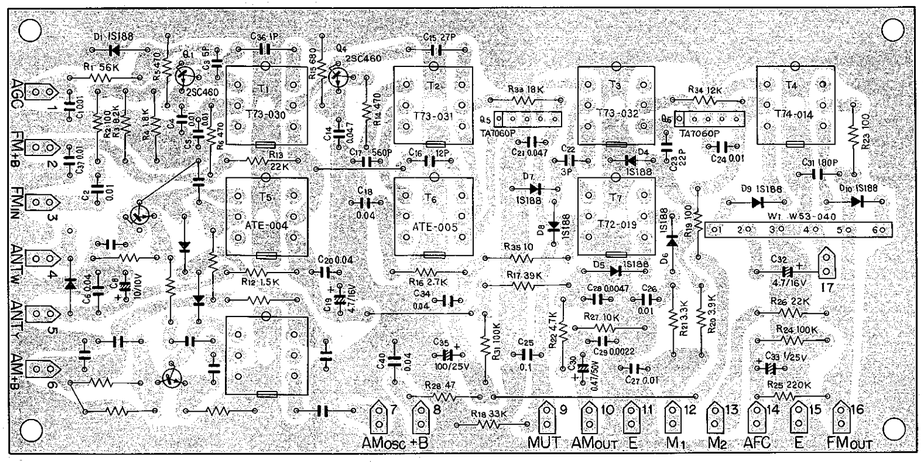


SW/MW/FM STEREO RECEIVER

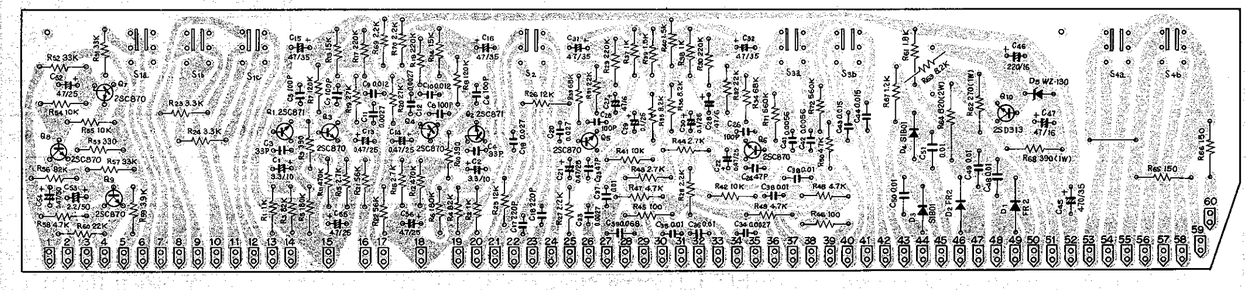
KX-505

FSAW

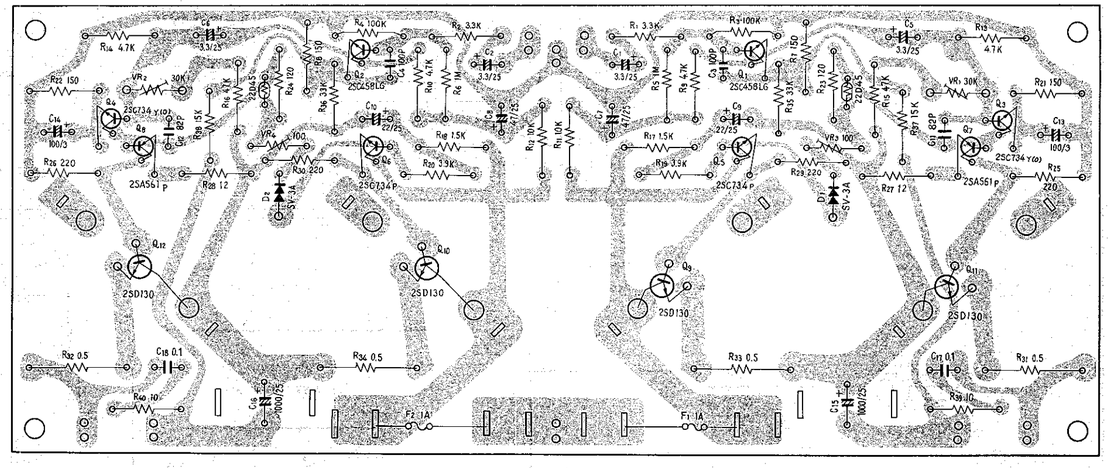
Tuner ass'y AWE-014



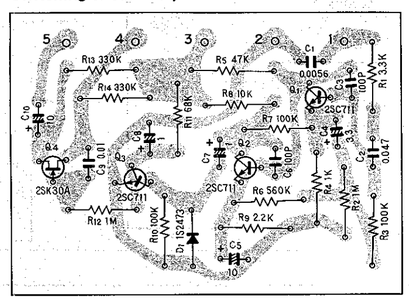
AF amp ass'y AWK-009



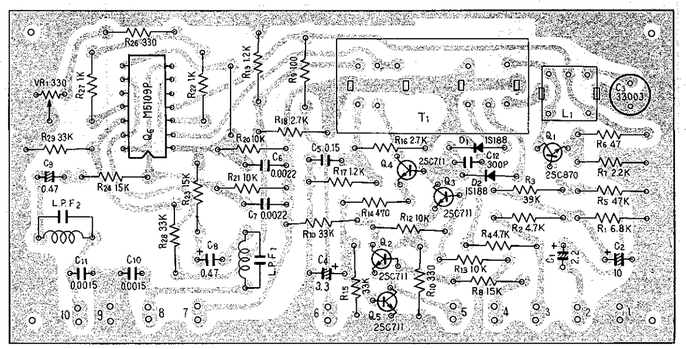
Power amp ass'y W15-055



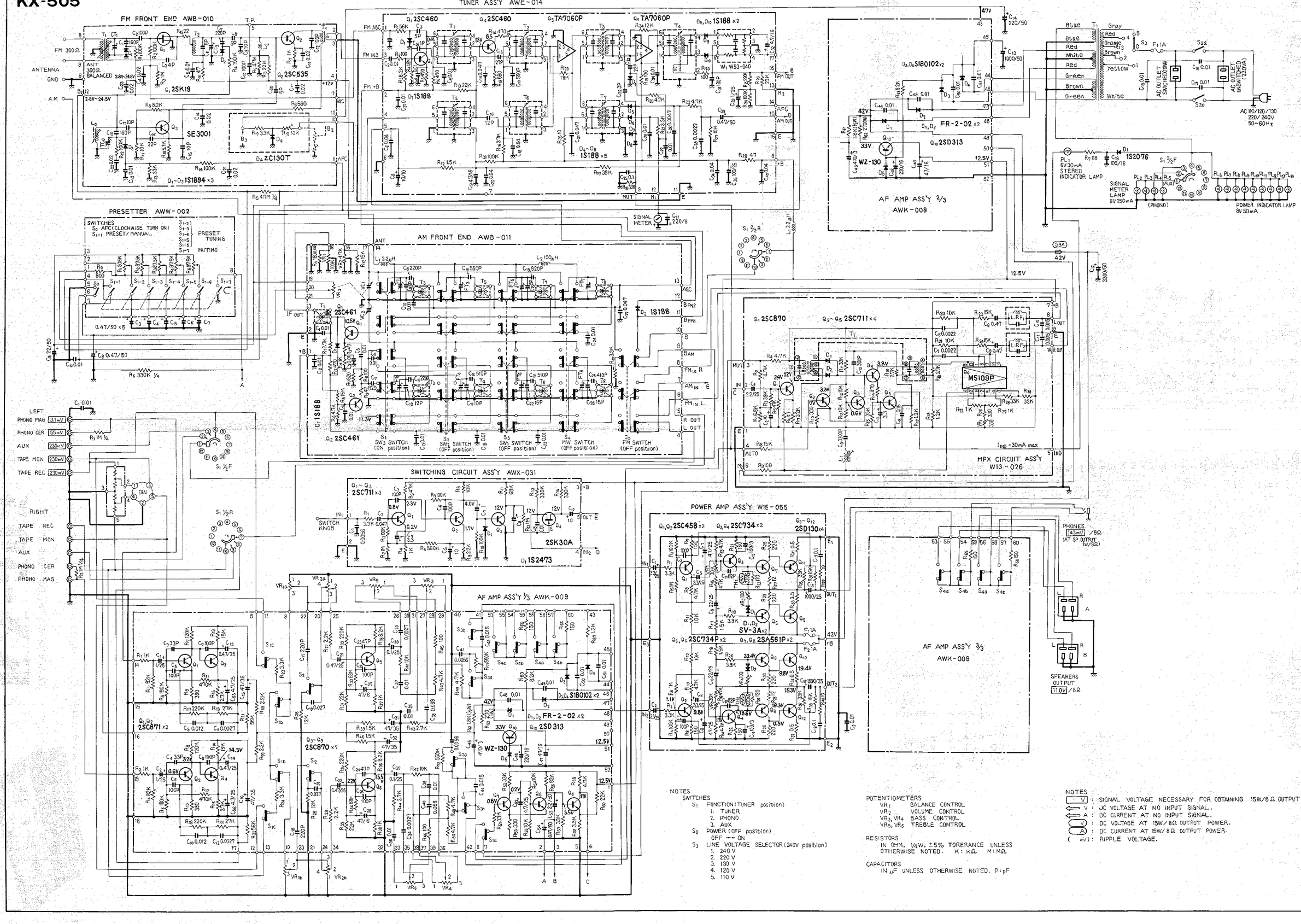
Switching circuit ass'y AWX-031



MPX circuit ass'y W13-026



KX-505



NOTES

SWITCHES

- S_1 FUNCTION (TUNER position)
  1. TUNER
  2. PHONO
  3. AUX
- S_2 POWER (OFF position) OFF ⟷ ON
- S_3 LINE VOLTAGE SELECTOR (240V position)
  1. 240 V
  2. 220 V
  3. 130 V
  4. 120 V
  5. 110 V

POTENTIOMETERS

- VR_1 BALANCE CONTROL
- VR_2 VOLUME CONTROL
- VR_3, VR_4 BASS CONTROL
- VR_5, VR_6 TREBLE CONTROL

RESISTORS

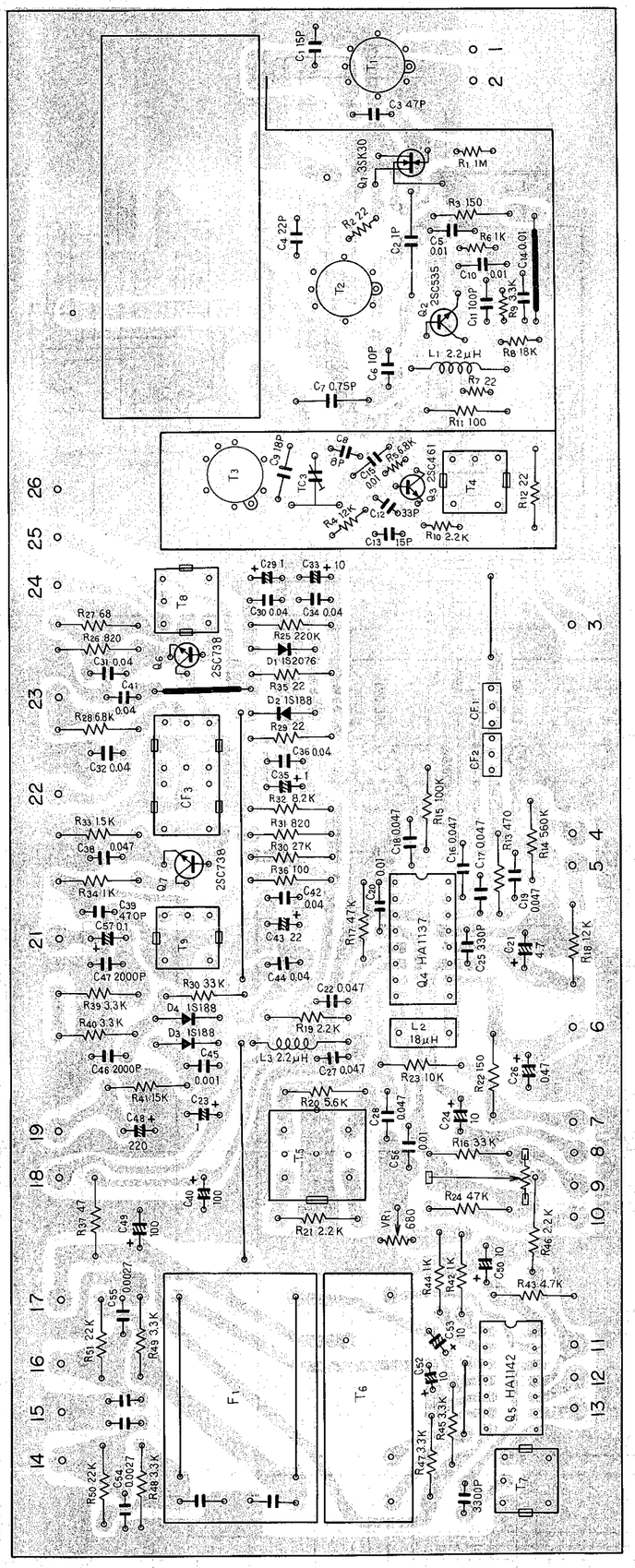
IN OHM, 1/4W, ±5% TORERANCE UNLESS OTHERWISE NOTED. K: kΩ M: MΩ

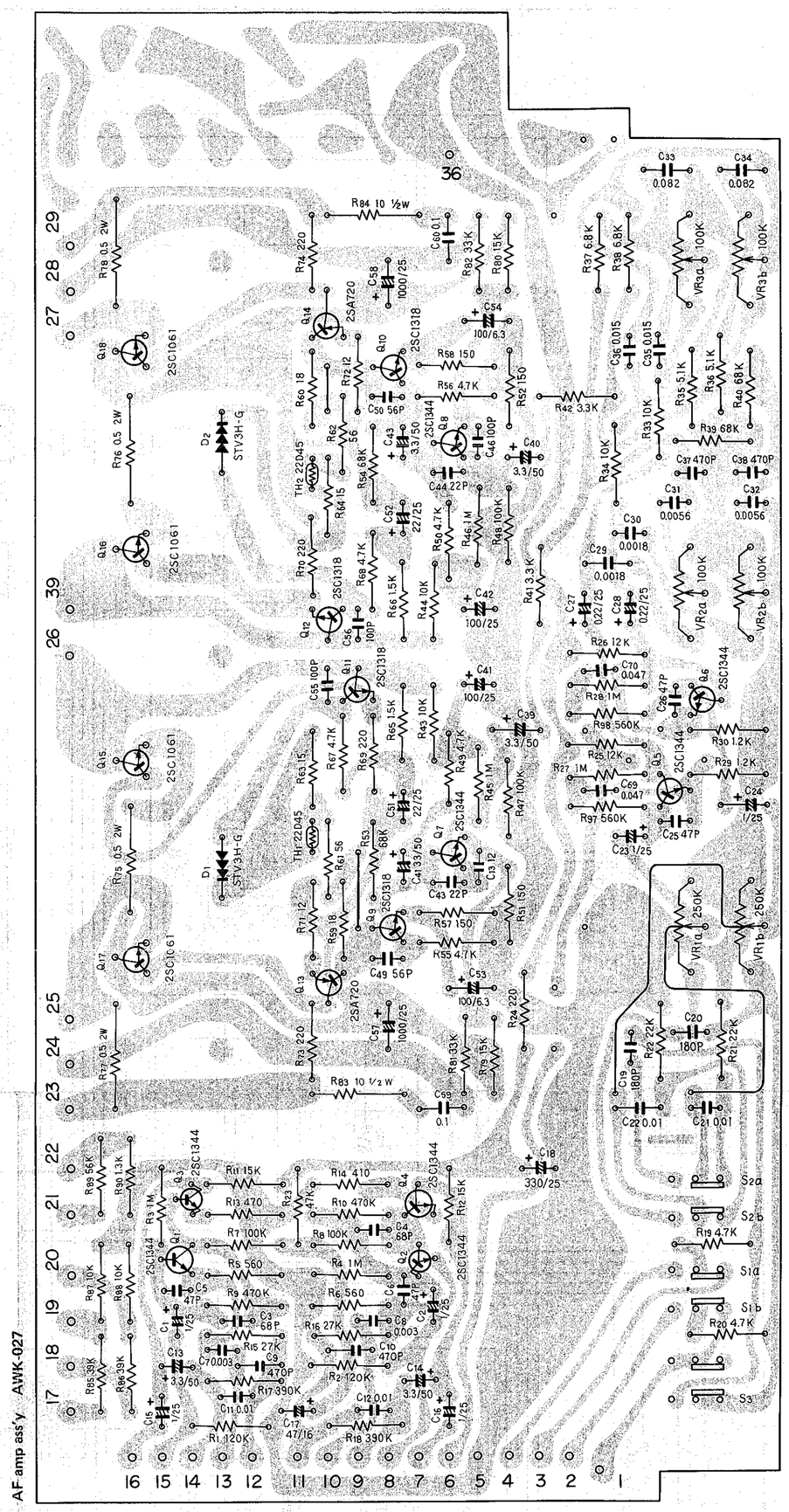
CAPACITORS

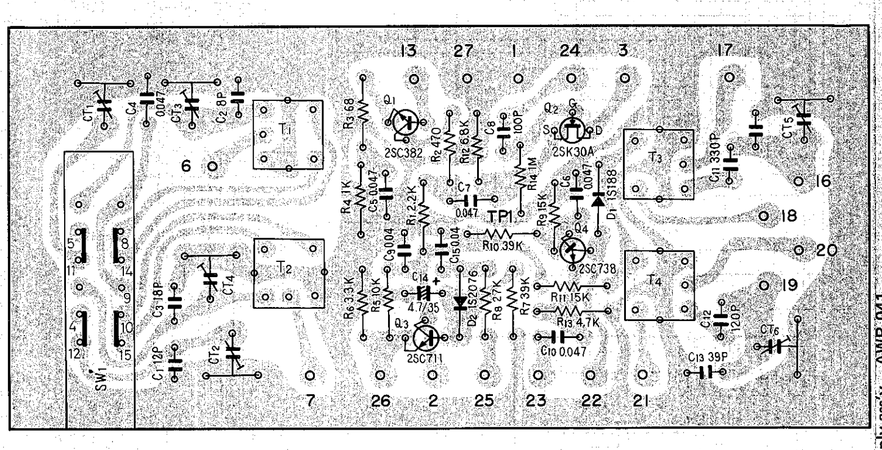
IN μF UNLESS OTHERWISE NOTED. P: pF

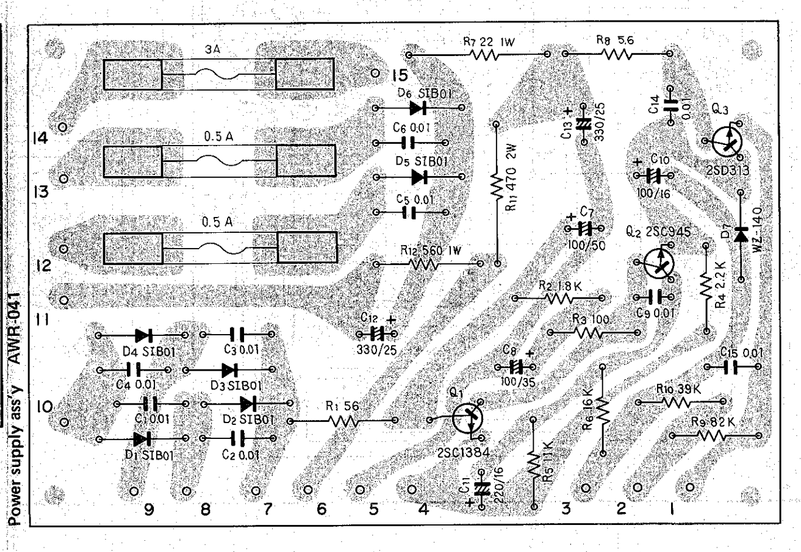
NOTES

- (V) : SIGNAL VOLTAGE NECESSARY FOR OBTAINING 15W/8Ω OUTPUT POWER (1KHz).
- V : DC VOLTAGE AT NO INPUT SIGNAL.
- A : DC CURRENT AT NO INPUT SIGNAL.
- (V) : DC VOLTAGE AT 15W/8Ω OUTPUT POWER.
- (A) : DC CURRENT AT 15W/8Ω OUTPUT POWER.
- (mV) : RIPPLE VOLTAGE.









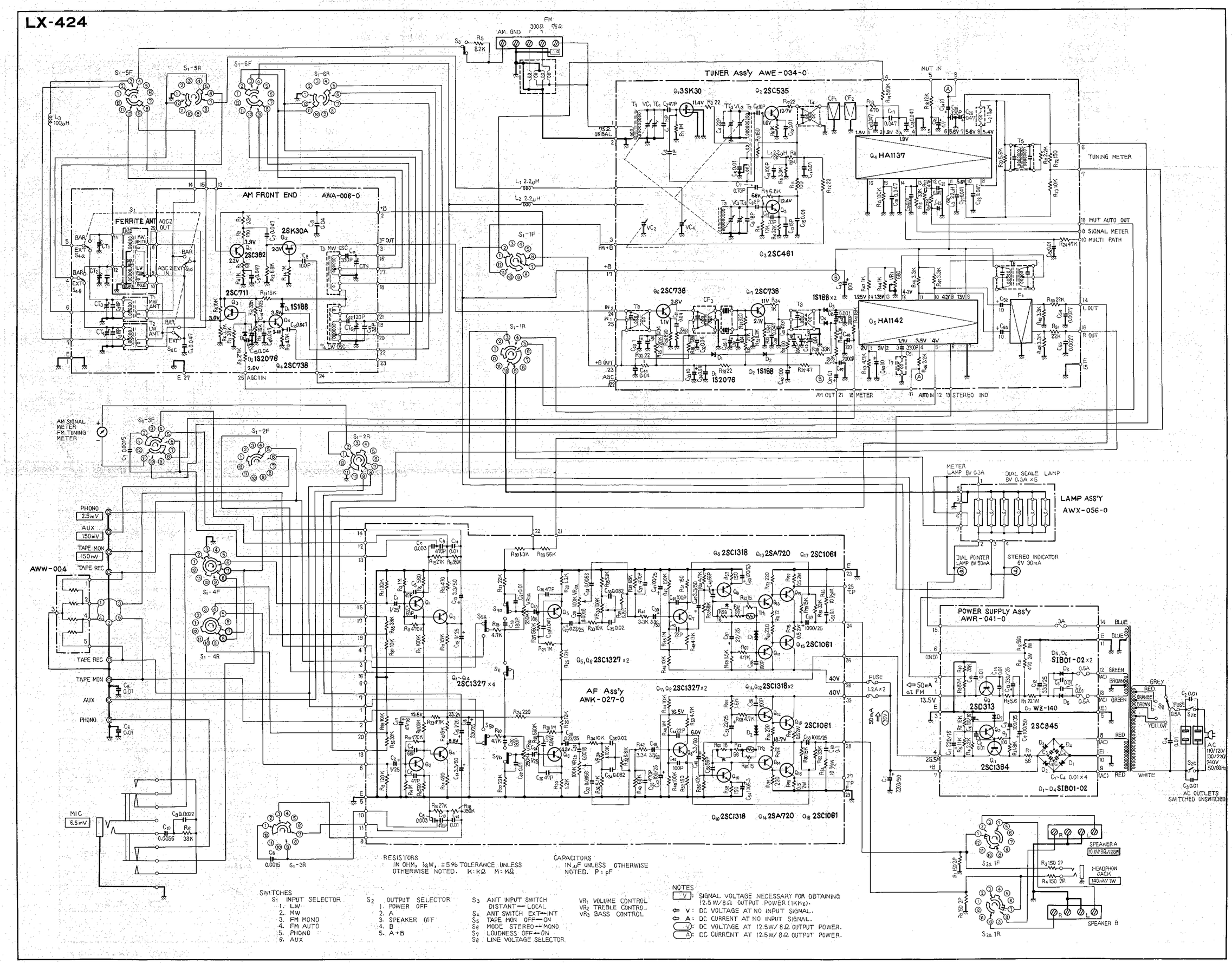


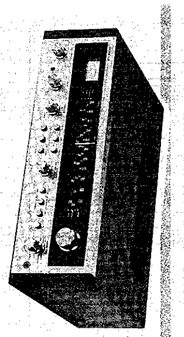
LW/MW/FM STEREO RECEIVER

LX-424

FVW

LX-424


TUNER Ass'y AWE-034-0
AM FRONT END AWA-006-0
AF Ass'y AWK-027-0
POWER SUPPLY Ass'y AWR-041-0
LAMP ASS'Y AWX-056-0
AWW-004
Q1,3SK30
Q2 2SC535
Q3 2SC461
Q4 HA1137
Q5 HA1142
2SK30A
2SC382
2SC711
2SC738
1S188
1S2076
2SC1327 x4
Q5,Q6 2SC1327 x2
Q7,Q9 2SC1327x2
Q8 2SC1318
Q12 2SA720
Q17 2SC1061
Q10 2SC1318
Q14 2SA720
Q18 2SC1061
Q11,Q12 2SC1318x2
Q13 2SA720
Q15 2SC1061
Q16 2SC1061
2SD313
2SC1384
2SC845
SIB01-02 x2
D7 WZ-140
TUNING METER
METER LAMP 8V 0.3A
DIAL SCALE LAMP 8V 0.3A x5
DIAL POINTER LAMP 8V 50mA
STEREO INDICATOR 8V 30mA
SPEAKER A 10.0Ω/8Ω/125W
SPEAKER B
HEADPHON JACK 140mV/1W
AC OUTLETS SWITCHED UNSWITCHED
AM SIGNAL METER FM TUNING METER
PHONO 2.5mV
AUX 150mV
TAPE MON 150mV
TAPE REC
MIC 6.5mV
FM 300Ω 75Ω
AM GND
MUT IN
TUNING METER
MUT AUTO OUT
SIGNAL METER
MULTI PATH
L OUT
R OUT
AM OUT
METER
AUTO IN
STEREO IND
IF OUT
AGC OUT
AGC IN
FM+B
+B OUT
AC 110/120/130/220/240V 50/60Hz
FUSE 1.2A x2
FUSE 0.5A
50mA at FM
13.5V
25.5V
+B
AM AGC OUT
AM AGC IN
AM +B
AM IF OUT
AM MW OSC
AM LW OSC
FERRITE ANT
MW ANT
LW ANT
BAR ANT
EXT ANT
E 27
AGC 2 IN
AGC 2 OUT
75Ω UNBAL
L1 2.2μH
L2 2.2μH
L3 100μH
RESISTORS
IN OHM, ¼W, ±5% TOLERANCE UNLESS OTHERWISE NOTED. K:KΩ M:MΩ
CAPACITORS
IN μF UNLESS OTHERWISE NOTED. P:pF
SWITCHES
S1 INPUT SELECTOR
1. LW
2. MW
3. FM MONO
4. FM AUTO
5. PHONO
6. AUX
S2 OUTPUT SELECTOR
1. POWER OFF
2. A
3. SPEAKER OFF
4. B
5. A+B
S3 ANT INPUT SWITCH
DISTANT ⟷ LOCAL
S4 ANT SWITCH EXT ⟷ INT
S5 TAPE MON OFF ⟷ ON
S6 MODE STEREO ⟷ MONO
S7 LOUDNESS OFF ⟷ ON
S8 LINE VOLTAGE SELECTOR
VR1 VOLUME CONTROL
VR2 TREBLE CONTROL
VR3 BASS CONTROL
NOTES
(V): SIGNAL VOLTAGE NECESSARY FOR OBTAINING 12.5W/8Ω OUTPUT POWER (1KHz).
⇦ V: DC VOLTAGE AT NO INPUT SIGNAL.
⇦ A: DC CURRENT AT NO INPUT SIGNAL.
(V): DC VOLTAGE AT 12.5W/8Ω OUTPUT POWER.
(A): DC CURRENT AT 12.5W/8Ω OUTPUT POWER.

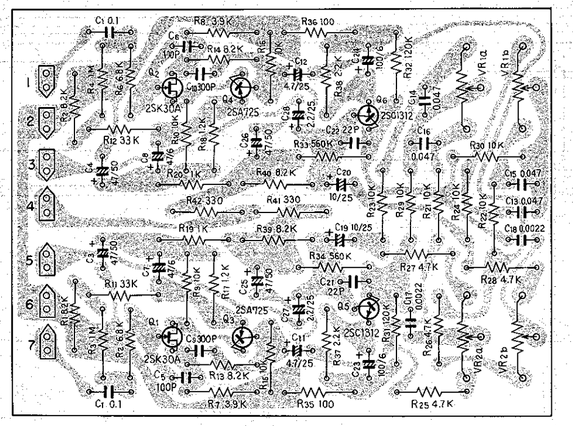


LW/MW/FM STEREO RECEIVER

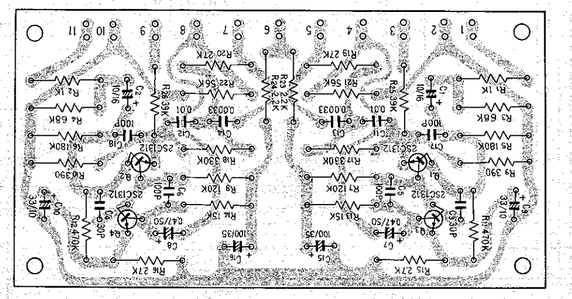
LX-626

FVW

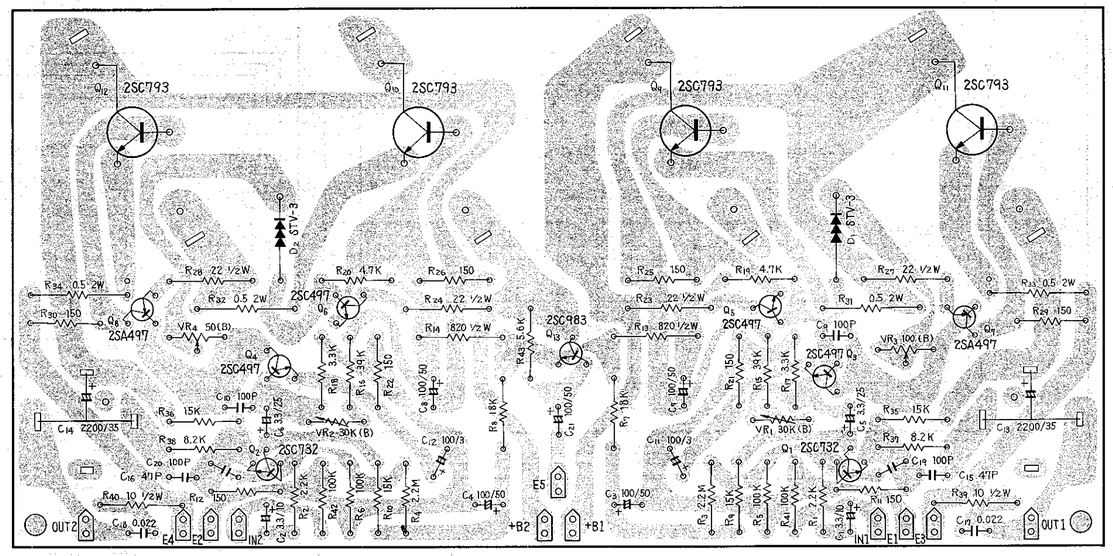
Control amp ass'y AWG-008



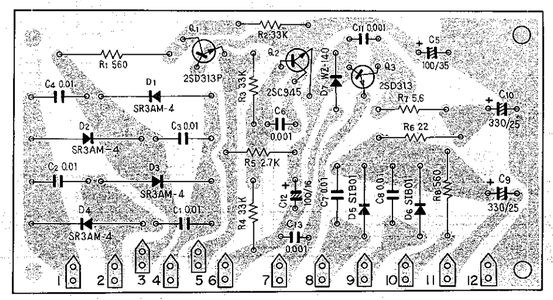
Equalizer amp ass'y W21-004



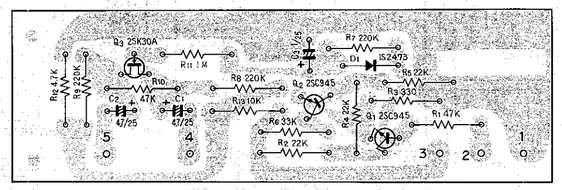
Power amp ass'y AWH-002



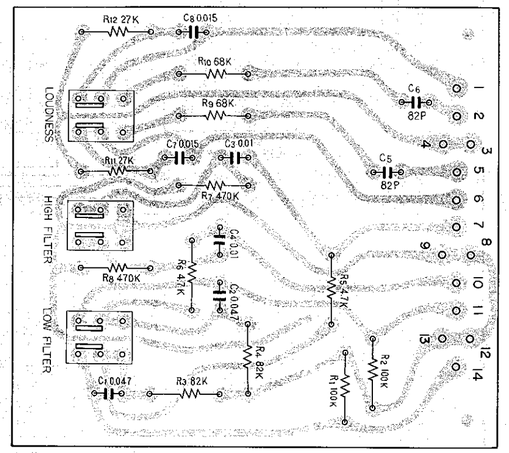
Power supply ass'y AWR-029



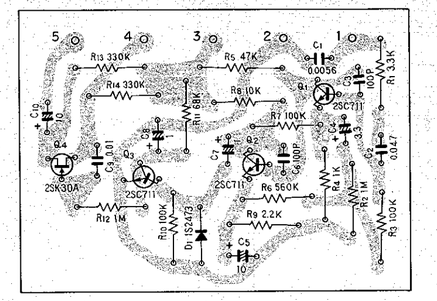
Muting circuit ass'y AWM-040



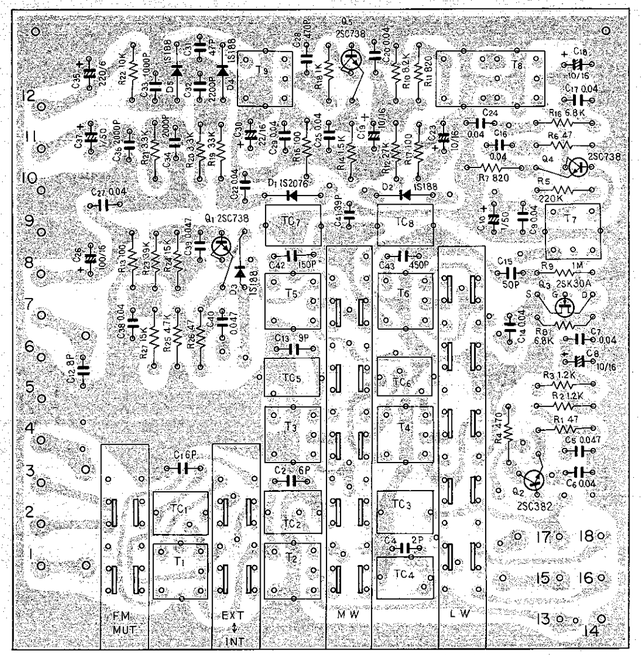
Switch circuit ass'y AWS-034



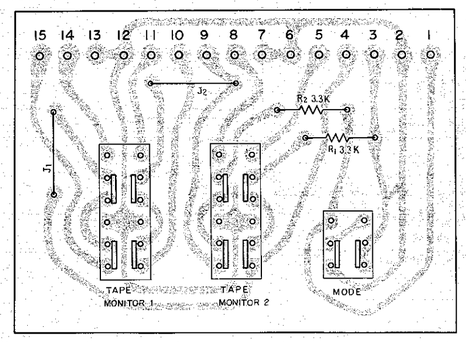
Switching circuit ass'y AWX-031



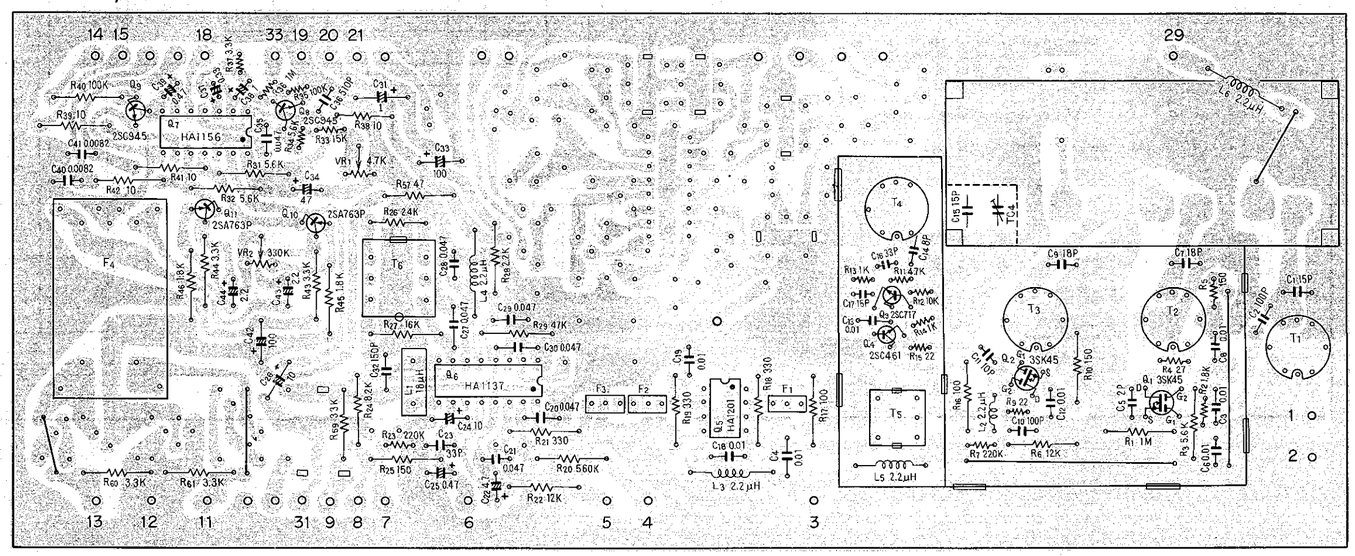
LW, MW tuner ass'y AWA-005



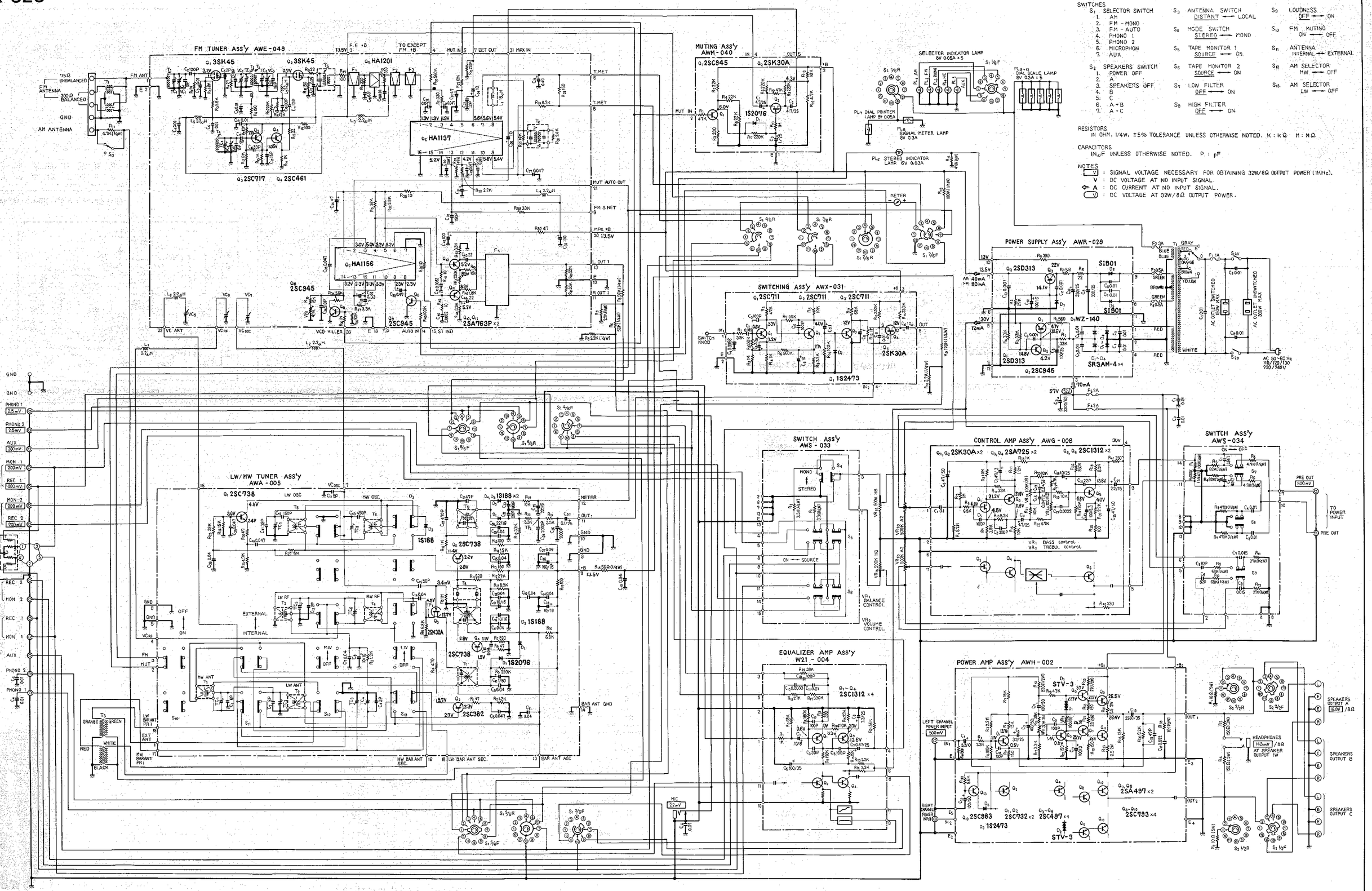
Switch circuit ass'y AWS-033

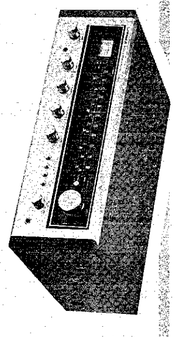


FM tuner ass'y AWE-049



LX-626

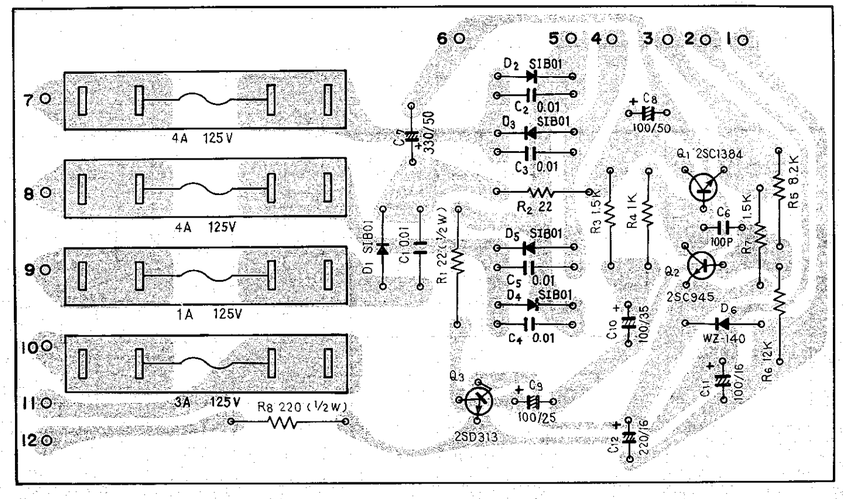

FM TUNER ASS'y AWE-049
MUTING ASS'y AWM-040
SELECTOR INDICATOR LAMP 8V 0.05A x5
DIAL SCALE LAMP 8V 0.3A x5
PL1 DIAL POINTER LAMP 8V 0.05A
PL8 SIGNAL METER LAMP 8V 0.3A
PL6 STEREO INDICATOR LAMP 6V 0.03A
METER
SWITCHING ASS'y AWX-031
POWER SUPPLY ASS'y AWR-029
LW/MW TUNER ASS'y AWA-005
SWITCH ASS'y AWS-033
CONTROL AMP ASS'y AWG-008
SWITCH ASS'y AWS-034
EQUALIZER AMP ASS'y W21-004
POWER AMP ASS'y AWH-002
W52-004
SWITCHES
S1 SELECTOR SWITCH
1. AM
2. FM - MONO
3. FM - AUTO
4. PHONO 1
5. PHONO 2
6. MICROPHON
7. AUX
S2 SPEAKERS SWITCH
1. POWER OFF
2. A
3. SPEAKERS OFF
4. B
5. C
6. A+B
7. A+C
S3 ANTENNA SWITCH DISTANT ⟷ LOCAL
S4 MODE SWITCH STEREO ⟷ MONO
S5 TAPE MONITOR 1 SOURCE ⟷ ON
S6 TAPE MONITOR 2 SOURCE ⟷ ON
S7 LOW FILTER OFF ⟷ ON
S8 HIGH FILTER OFF ⟷ ON
S9 LOUDNESS OFF ⟷ ON
S10 FM MUTING ON ⟷ OFF
S11 ANTENNA INTERNAL ⟷ EXTERNAL
S12 AM SELECTOR MW ⟷ OFF
S13 AM SELECTOR LW ⟷ OFF
RESISTORS
IN OHM, 1/4W, ±5% TOLERANCE UNLESS OTHERWISE NOTED. K : kΩ M : MΩ
CAPACITORS
IN μF UNLESS OTHERWISE NOTED. P : pF
NOTES
V : SIGNAL VOLTAGE NECESSARY FOR OBTAINING 32W/8Ω OUTPUT POWER (1KHz).
V : DC VOLTAGE AT NO INPUT SIGNAL.
A : DC CURRENT AT NO INPUT SIGNAL.
V : DC VOLTAGE AT 32W/8Ω OUTPUT POWER.



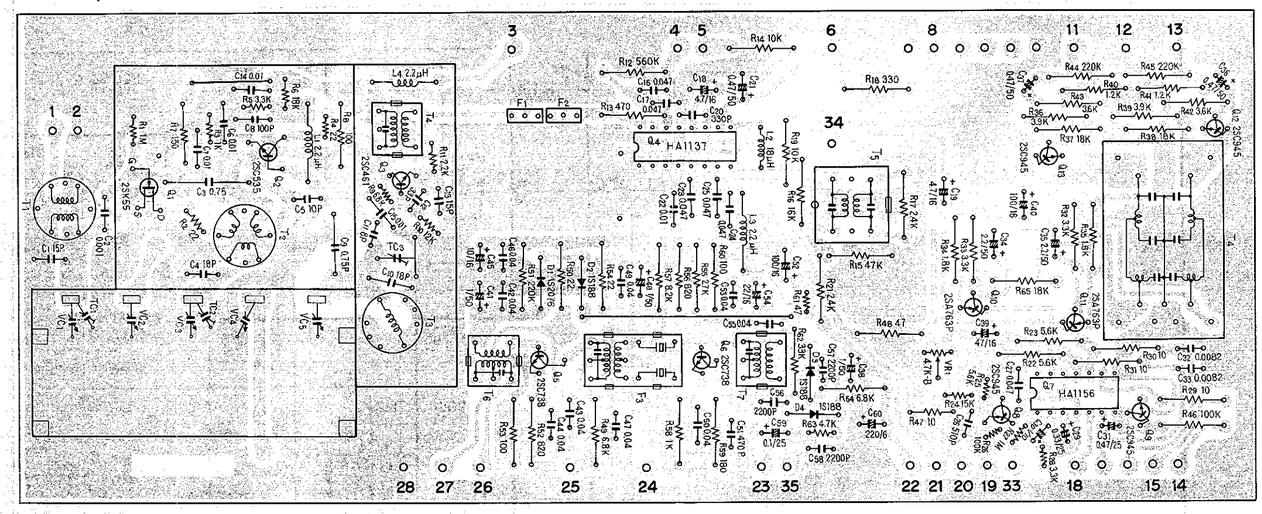
LW/MW/FM STEREO RECEIVER

LX-434 NV

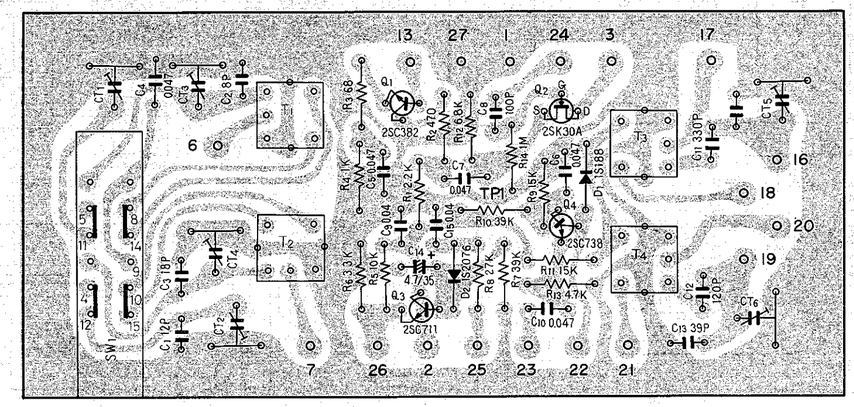
Power supply ass'y AWR-062



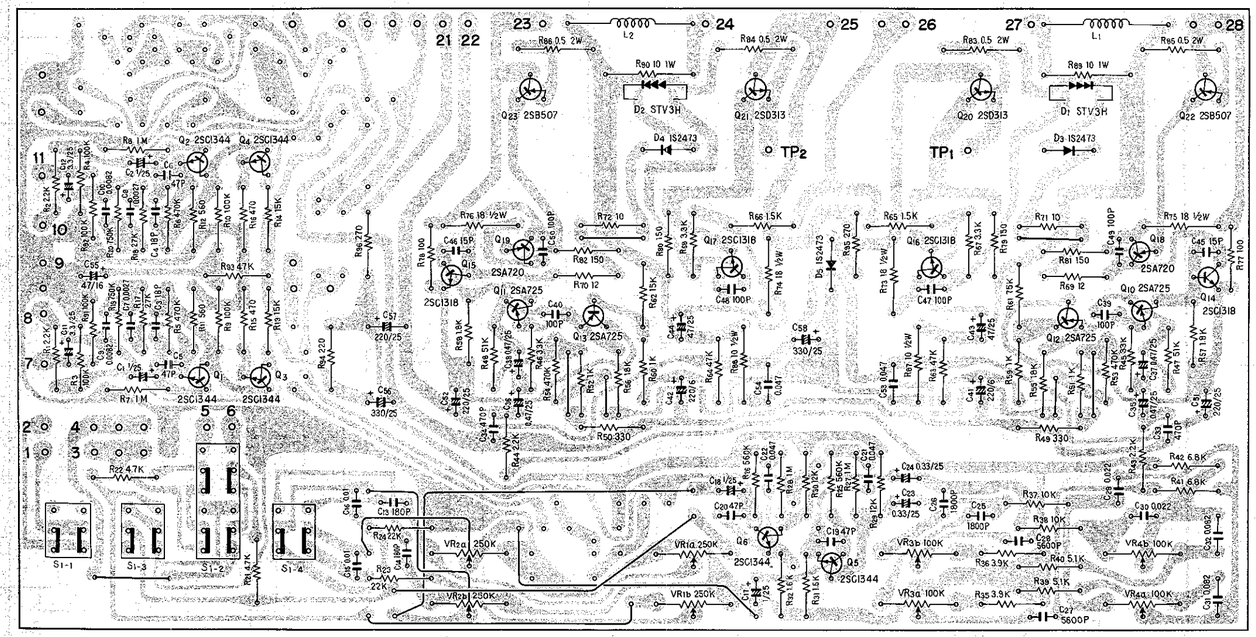
Tuner ass'y AWE-050



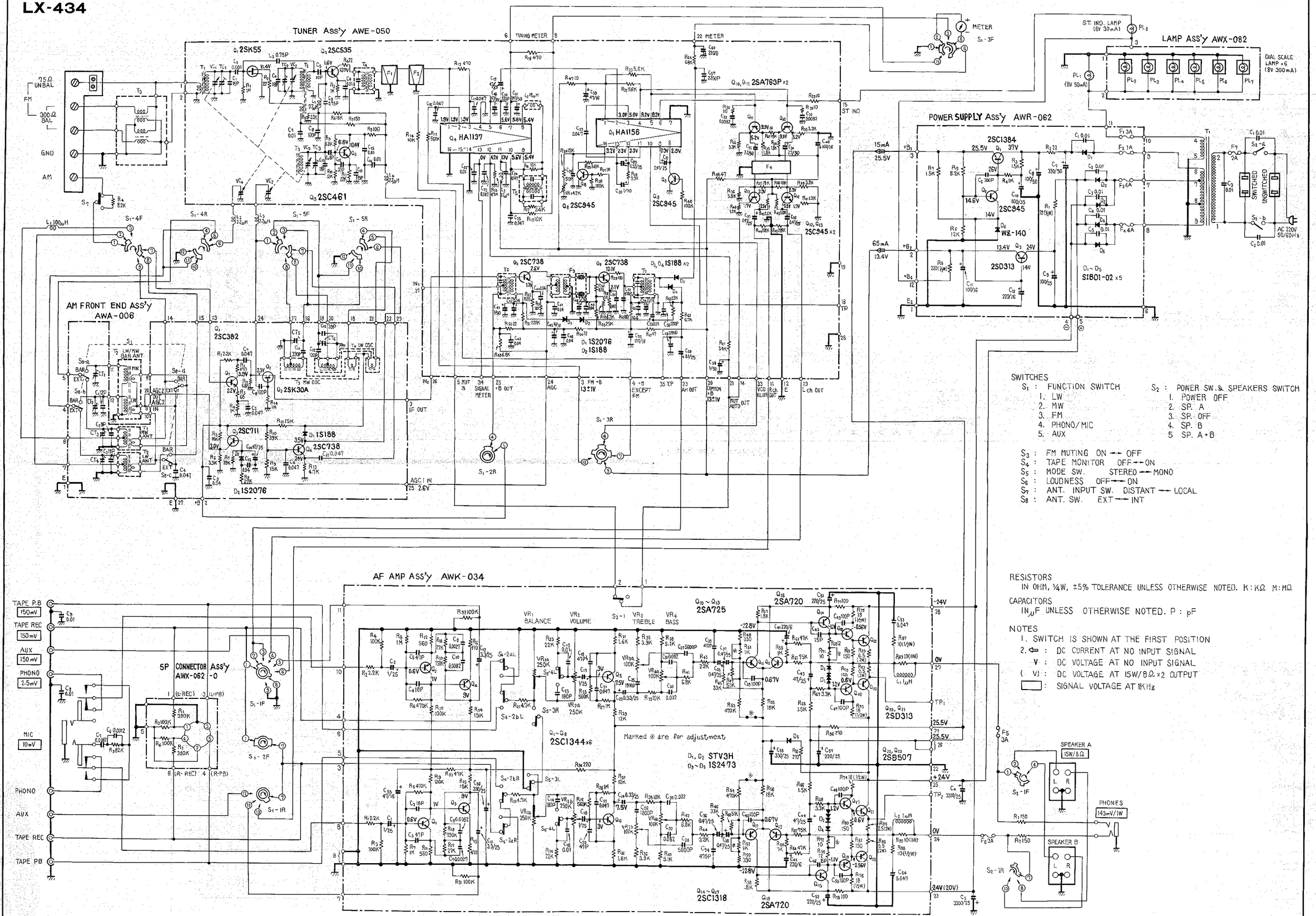
AM front end ass'y AWA-006

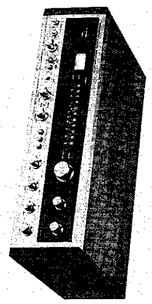


AF amp ass'y AWK-034



LX-434


TUNER Ass'y AWE-050
AM FRONT END Ass'y AWA-006
AF AMP Ass'y AWK-034
POWER SUPPLY Ass'y AWR-062
LAMP Ass'y AWX-082
5P CONNECTOR Ass'y AWX-062-0
METER
S1-3F
ST. IND. LAMP (6V 30mA)
DIAL SCALE LAMP ×5 (8V 300mA)
75Ω UNBAL
FM
300Ω BAL
GND
AM
TAPE P.B 150mV
TAPE REC 150mV
AUX 150mV
PHONO 2.5mV
MIC 10mV
PHONO
AUX
TAPE REC
TAPE PB
Q1 2SK55
Q2 2SC535
Q3 2SC461
Q4 HA1137
Q5 HA1156
Q6 2SC945
Q7 2SC945
Q8 2SC945
Q9, Q11 2SA763P ×2
Q10 2SC945 ×2
Q8 2SC738
Q9 2SC738
D3, D4 1S188 ×2
D1 1S2076
D2 1S188
Q1 2SC382
Q2 2SK30A
Q1 2SC711
Q4 2SC738
D1 1S188
D2 1S2076
Q1 ~ Q8 2SC1344 ×6
Q10 ~ Q13 2SA725
Q14 2SA720
Q15 ~ Q17 2SC1318
Q18 2SA720
Q19, Q21 2SD313
Q20, Q22 2SB507
2SC1384
2SC945
2SD313
WZ-140
D1 ~ D5 S1B01-02 ×5
D1, D2 STV3H
D3 ~ D5 1S2473
Marked ※ are for adjustment
SPEAKER A 15W/8Ω
SPEAKER B
PHONES 143mV/1W
AC 220V 50/60Hz
SWITCHES
S1 : FUNCTION SWITCH
1. LW
2. MW
3. FM
4. PHONO/MIC
5. AUX
S2 : POWER SW. & SPEAKERS SWITCH
1. POWER OFF
2. SP. A
3. SP. OFF
4. SP. B
5. SP. A+B
S3 : FM MUTING ON ⇄ OFF
S4 : TAPE MONITOR OFF ⇄ ON
S5 : MODE SW. STEREO ⇄ MONO
S6 : LOUDNESS OFF ⇄ ON
S7 : ANT. INPUT SW. DISTANT ⇄ LOCAL
S8 : ANT. SW. EXT ⇄ INT
RESISTORS
IN OHM, ¼W, ±5% TOLERANCE UNLESS OTHERWISE NOTED. K:KΩ M:MΩ
CAPACITORS
IN μF UNLESS OTHERWISE NOTED. P : pF
NOTES
1. SWITCH IS SHOWN AT THE FIRST POSITION
2. ⇦ : DC CURRENT AT NO INPUT SIGNAL
V : DC VOLTAGE AT NO INPUT SIGNAL
(V) : DC VOLTAGE AT 15W/8Ω ×2 OUTPUT
▭ : SIGNAL VOLTAGE AT 1KHz

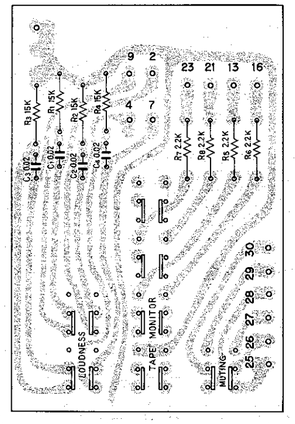


QUADRAPHONIC RECEIVER

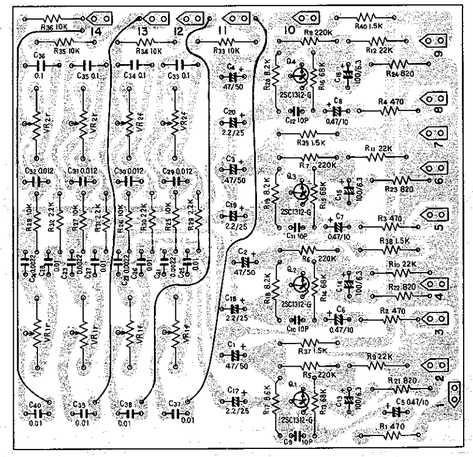
QX-646

FW KCW KUW

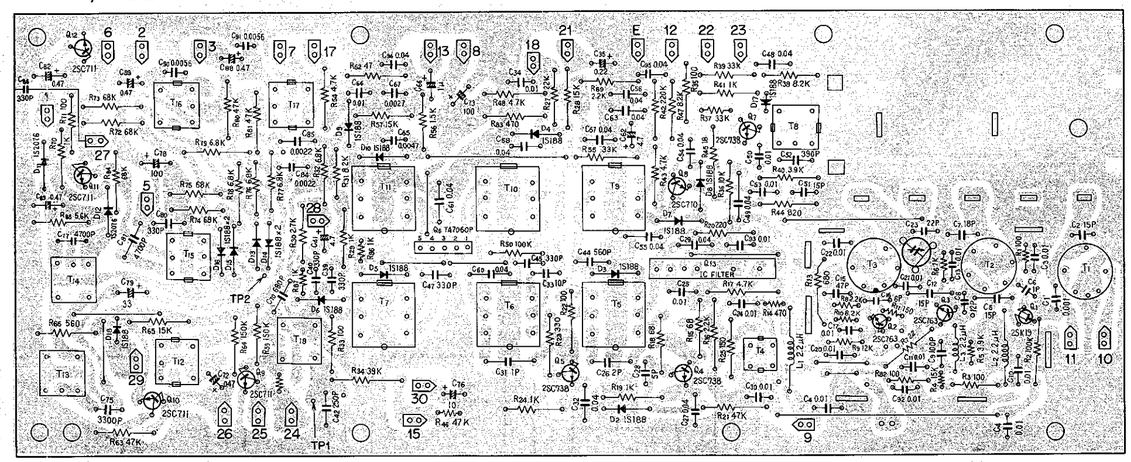
Switch circuit ass'y AWS-023



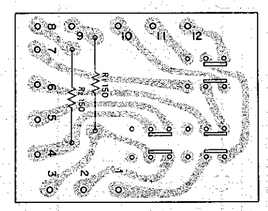
Control amp ass'y AWG-015



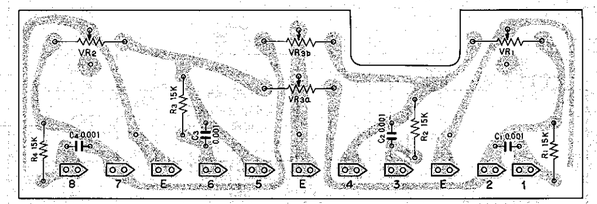
Tuner ass'y AWE-003



SP switch circuit ass'y AWS-024

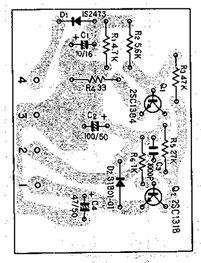


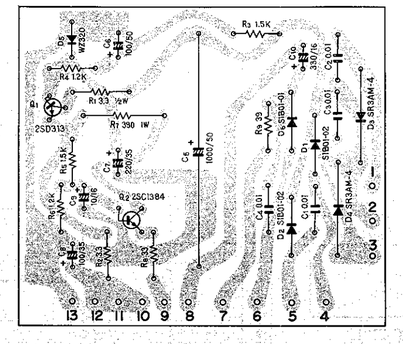
Balance volume ass'y AWX-028



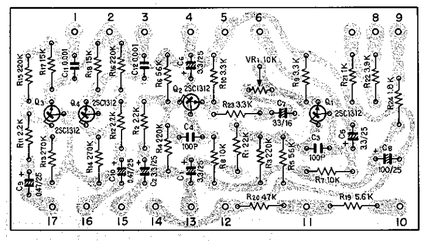
Power supply circuit ass'y AWR-035

Muting ass'y AWM-046

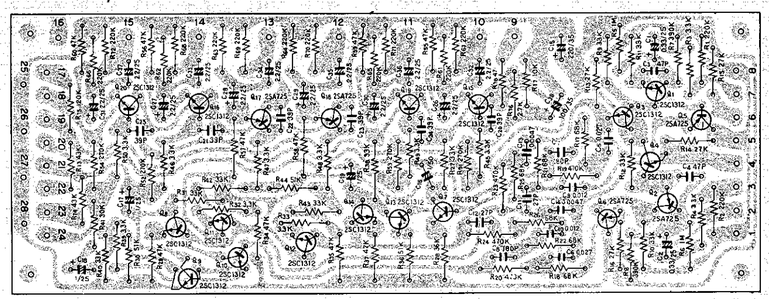




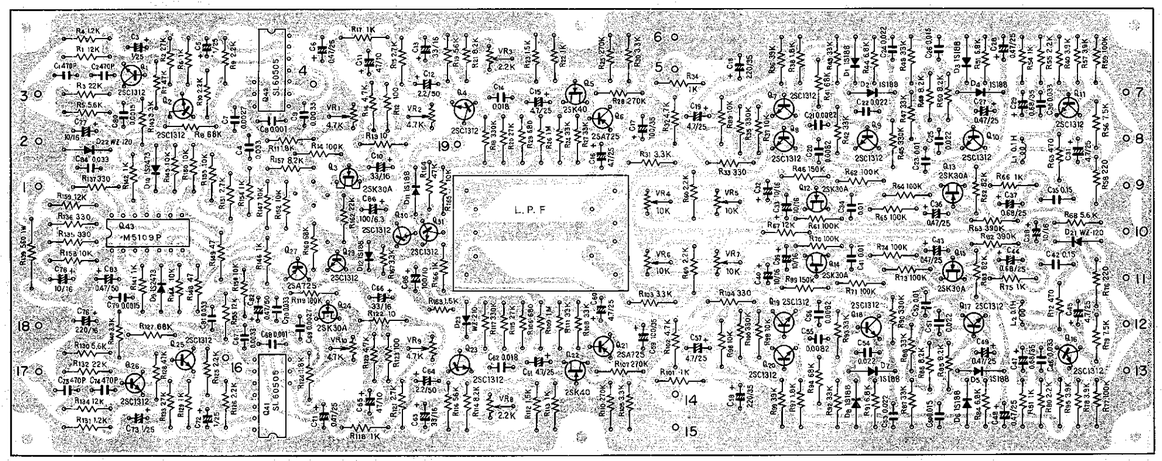
AF amp ass'y AWK-025



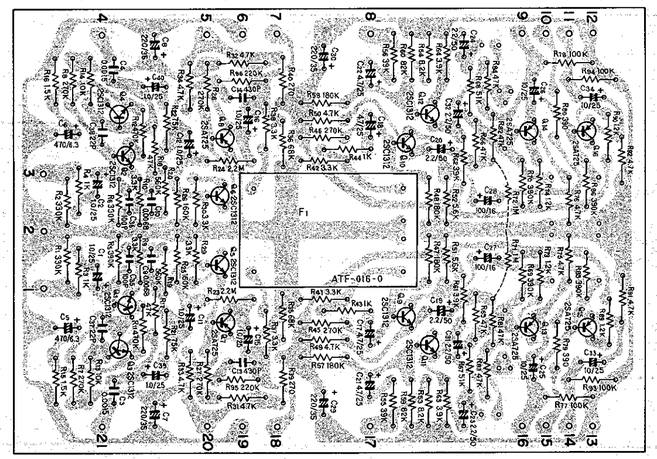
Decoder ass'y AWM-031



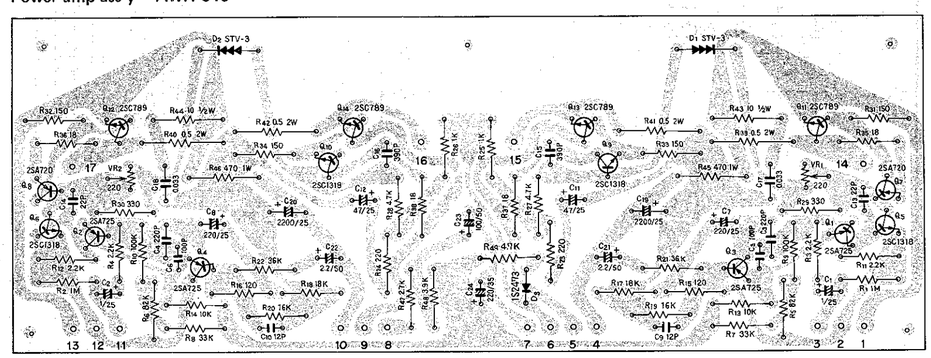
Sub channel circuit ass'y AWX-051



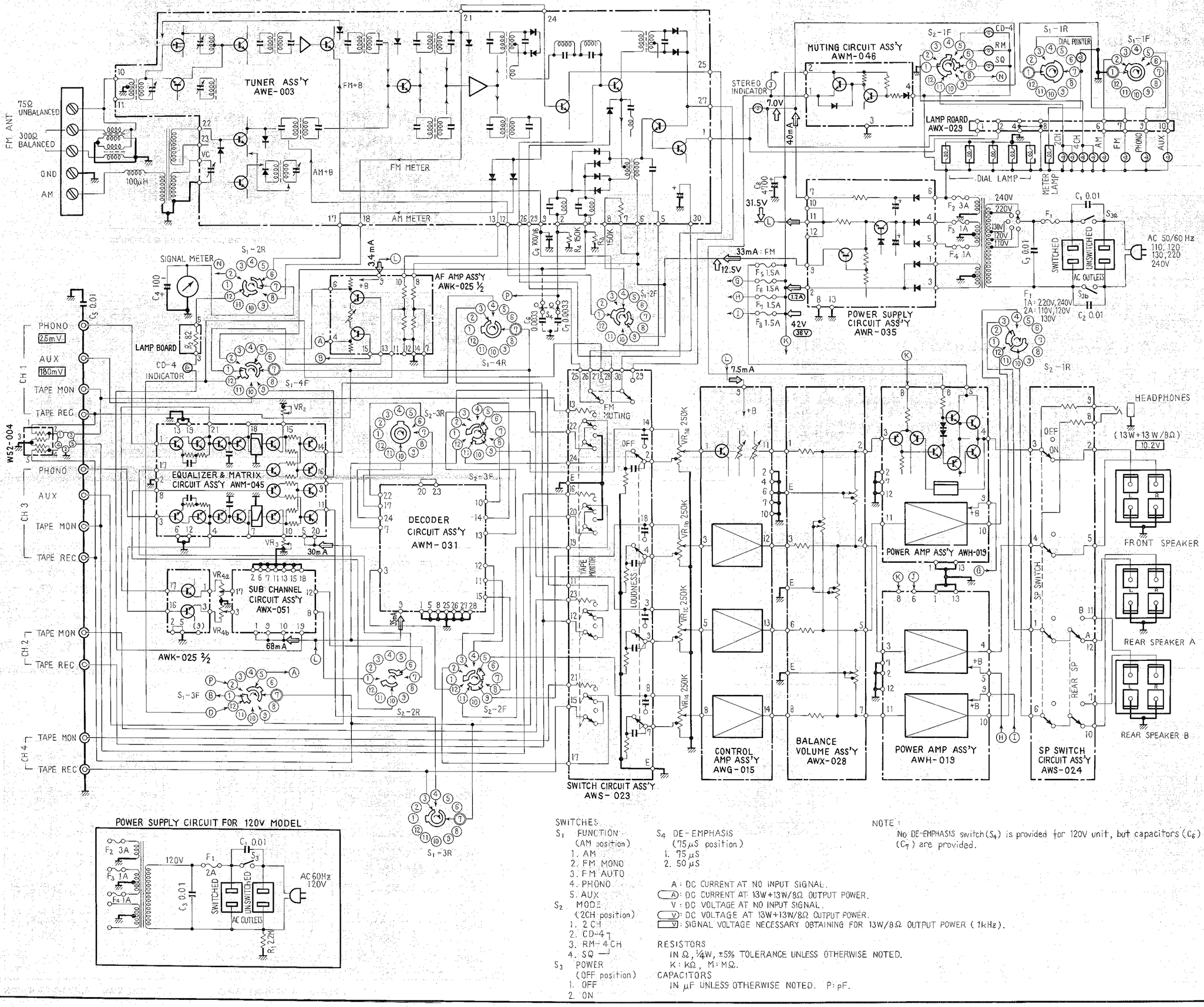
Equalizer & matrix circuit ass'y AWM-045



Power amp ass'y AWH-019



QX-6461



POWER SUPPLY CIRCUIT FOR 120V MODEL

SWITCHES

S_1 FUNCTION (AM position)
1. AM
2. FM MONO
3. FM AUTO
4. PHONO
5. AUX

S_2 MODE (2CH position)
1. 2 CH
2. CD-4
3. RM-4CH
4. SQ

S_3 POWER (OFF position)
1. OFF
2. ON

S_4 DE-EMPHASIS (75μS position)
1. 75μS
2. 50μS

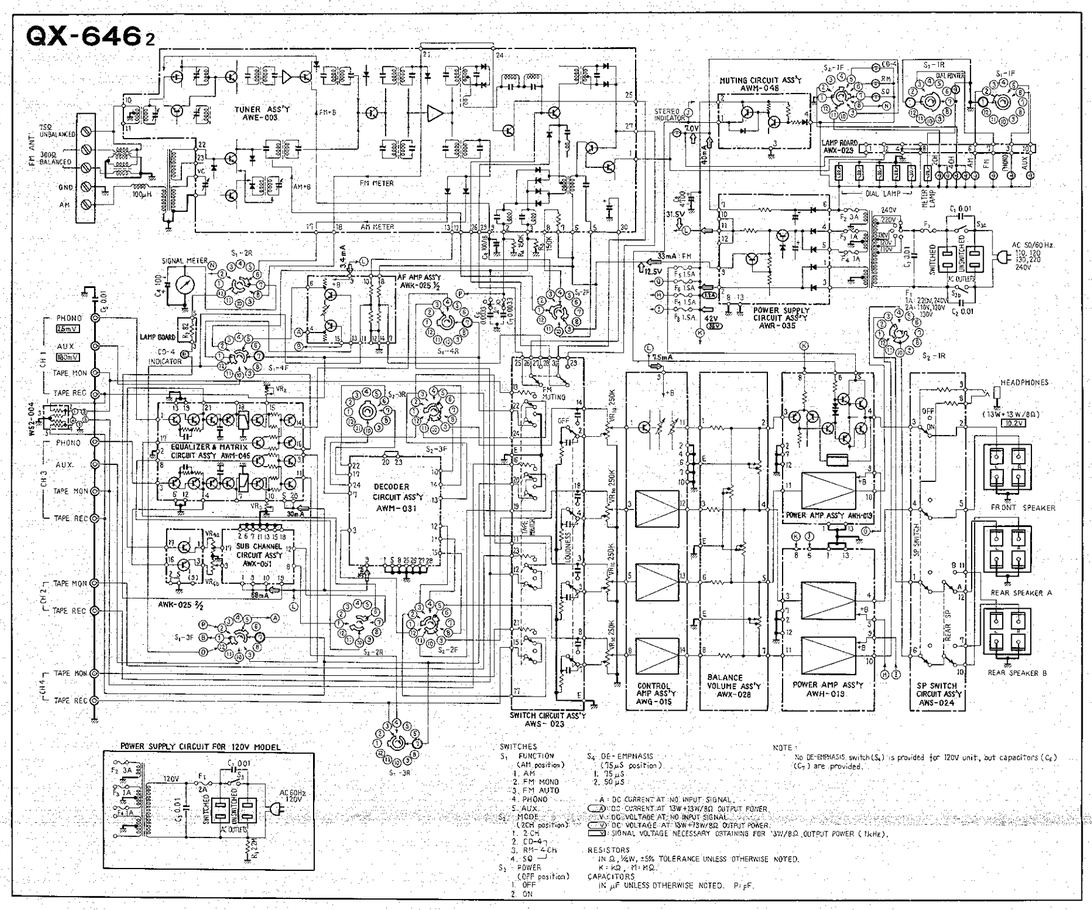
A : DC CURRENT AT NO INPUT SIGNAL.
(A) : DC CURRENT AT 13W+13W/8Ω OUTPUT POWER.
V : DC VOLTAGE AT NO INPUT SIGNAL.
(V) : DC VOLTAGE AT 13W+13W/8Ω OUTPUT POWER.
[V] : SIGNAL VOLTAGE NECESSARY OBTAINING FOR 13W/8Ω OUTPUT POWER (1kHz).

RESISTORS
IN Ω, 1/4W, ±5% TOLERANCE UNLESS OTHERWISE NOTED.
K : KΩ, M : MΩ.

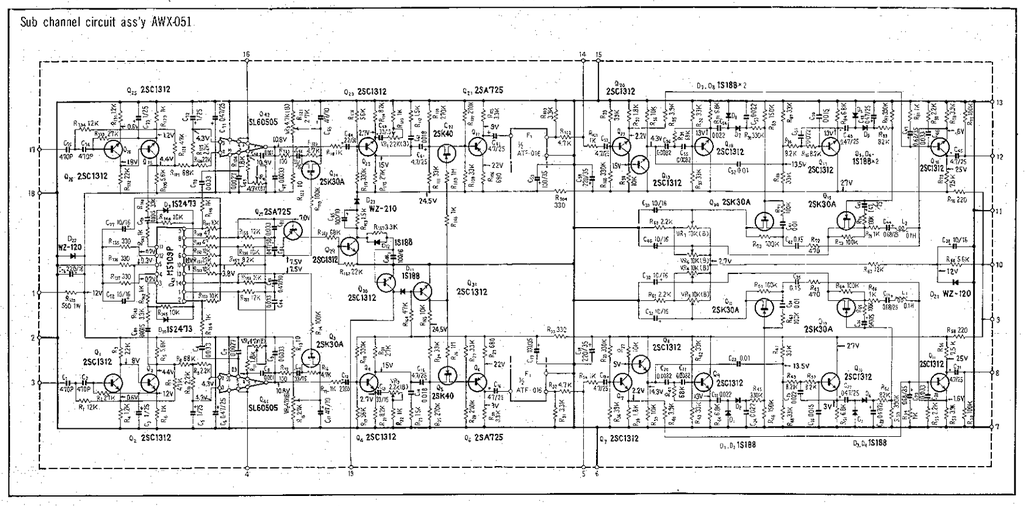
CAPACITORS
IN μF UNLESS OTHERWISE NOTED. P : pF.

NOTE :
No DE-EMPHASIS switch (S_4) is provided for 120V unit, but capacitors (C_6) (C_7) are provided.

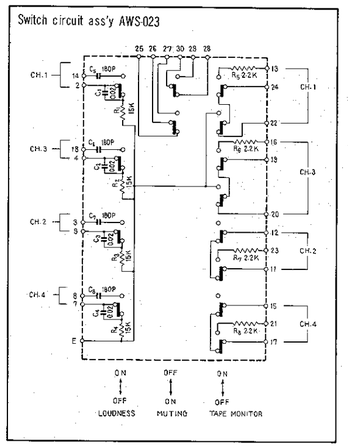
QX-646 2



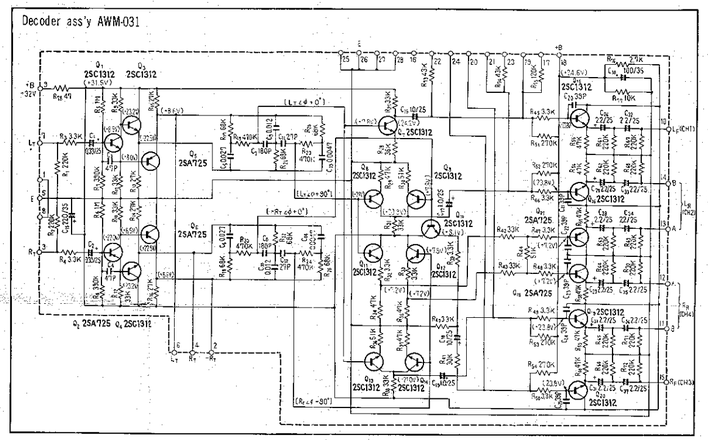
Sub channel circuit ass'y AWX-051



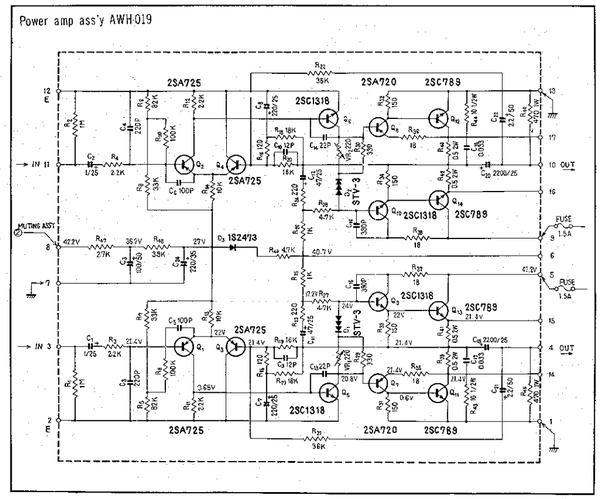
Switch circuit ass'y AWS-023



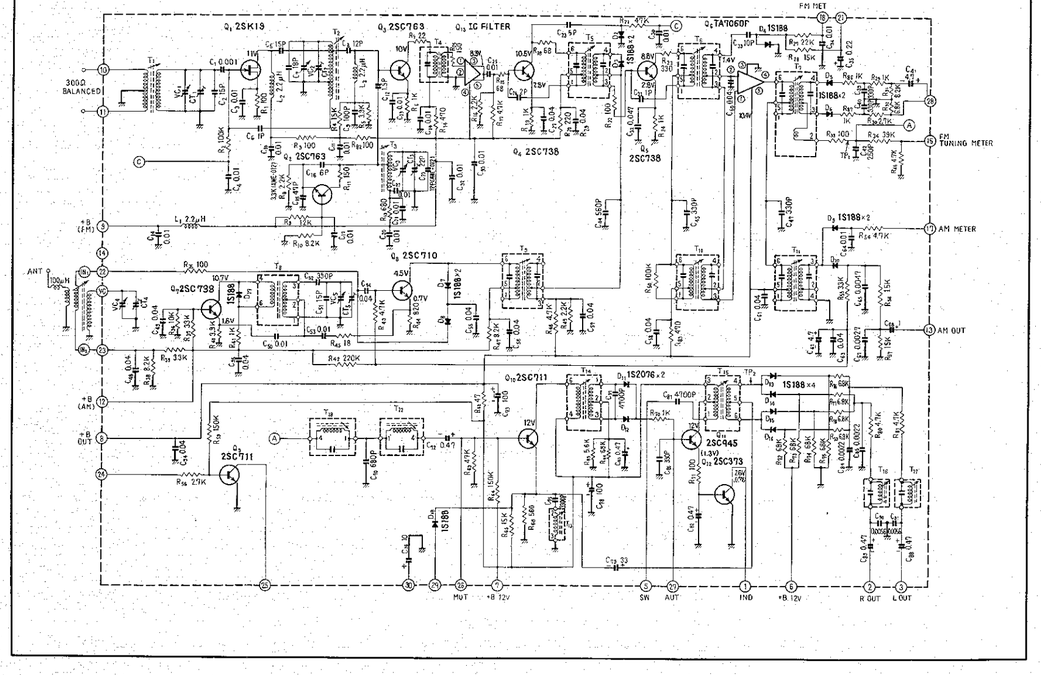
Decoder ass'y AWM-031



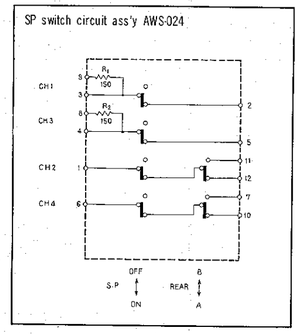
Power amp ass'y AWH-019



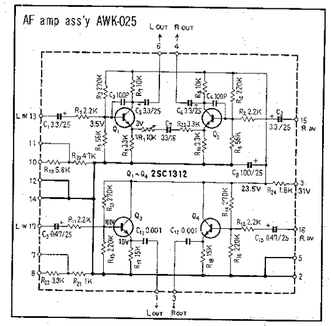
Tuner ass'y AWE-003



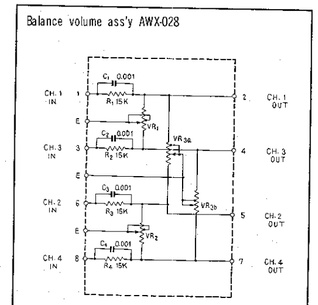
SP switch circuit ass'y AWS-024



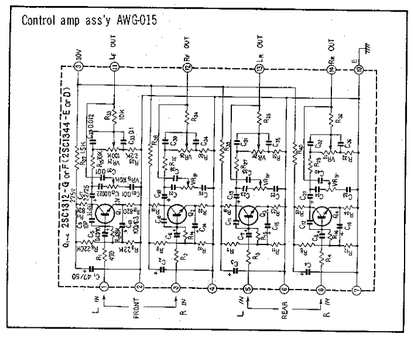
AF amp ass'y AWK-025



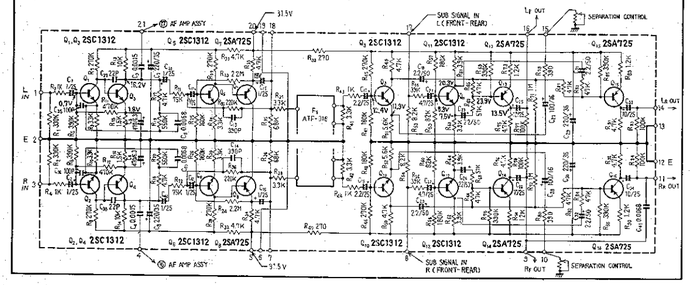
Balance volume ass'y AWX-028



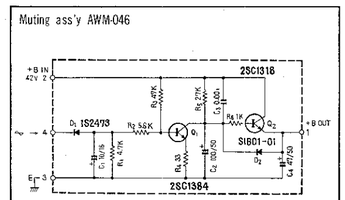
Control amp ass'y AWG-015



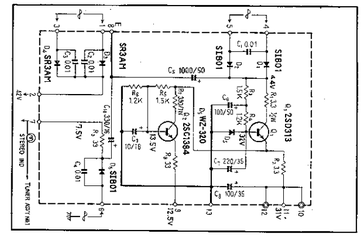
Equalizer & matrix circuit ass'y AWM-045

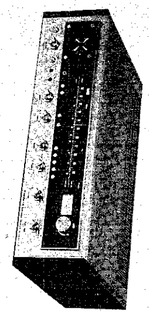


Muting ass'y AWM-046



Power supply circuit ass'y AWR-035



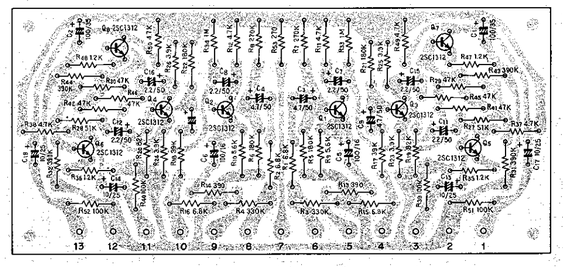


QUADRAPHONIC RECEIVER

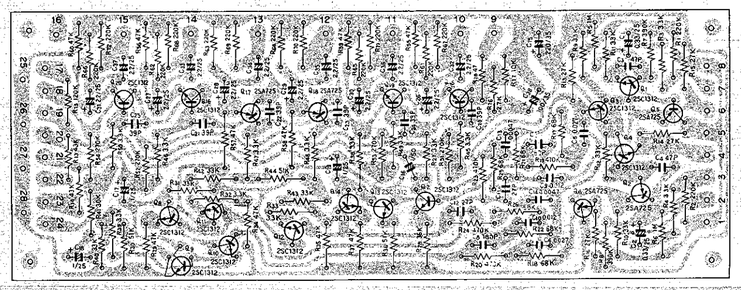
QX-747

FW FCW FUW

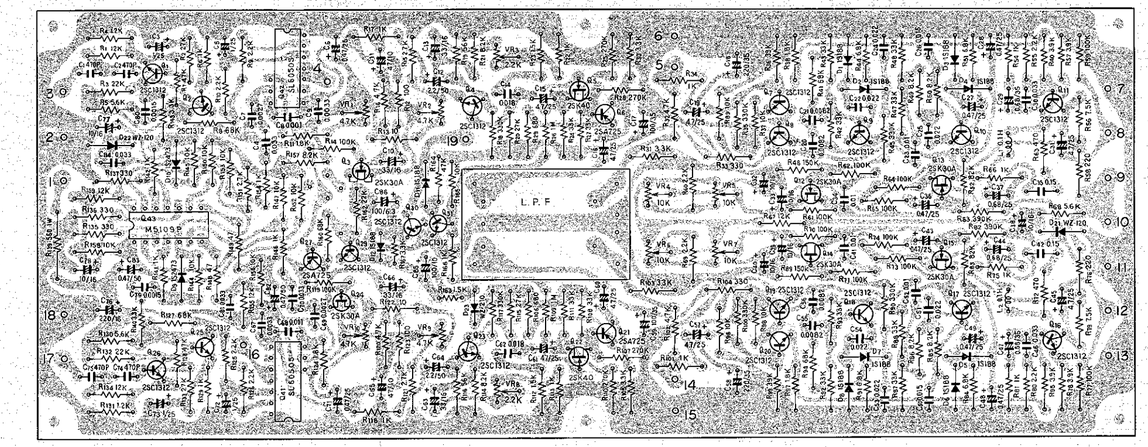
Matrix ass'y AWM-048



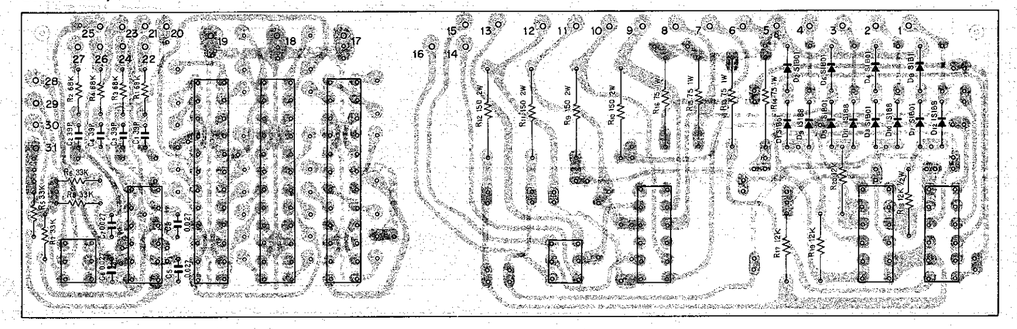
Decoder ass'y AWM-065



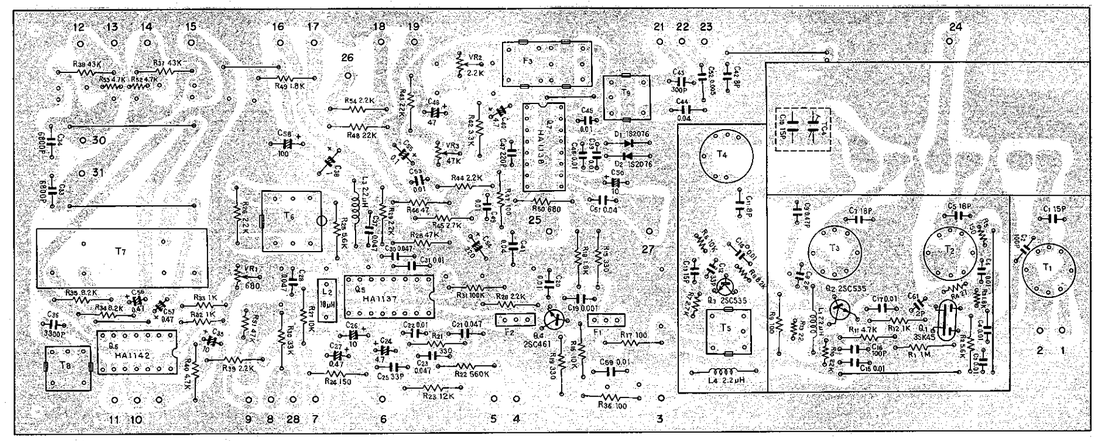
Sub channel circuit ass'y AWX-051



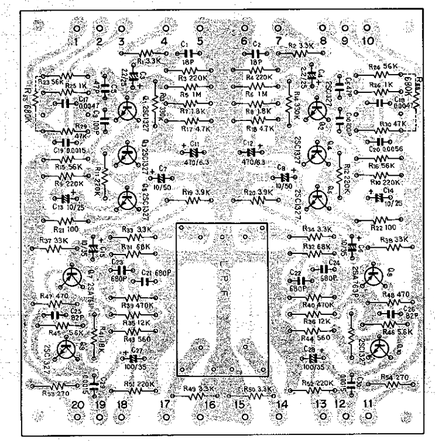
Switch ass'y AWS-049



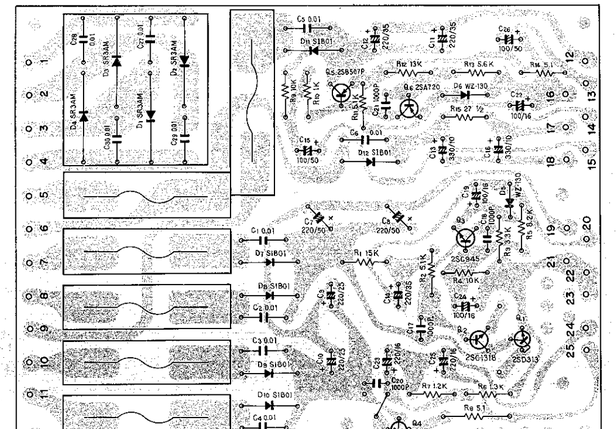
Tuner ass'y AWE-028



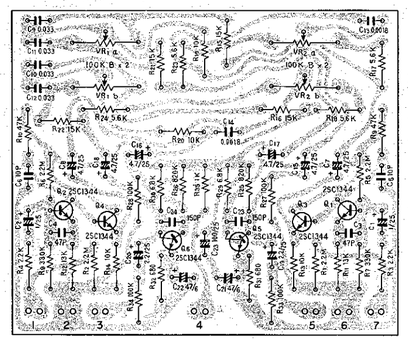
Equalizer amp ass'y AWF-010



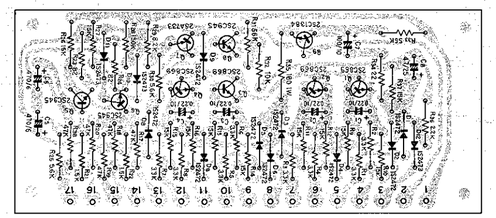
Power supply ass'y AWR-040



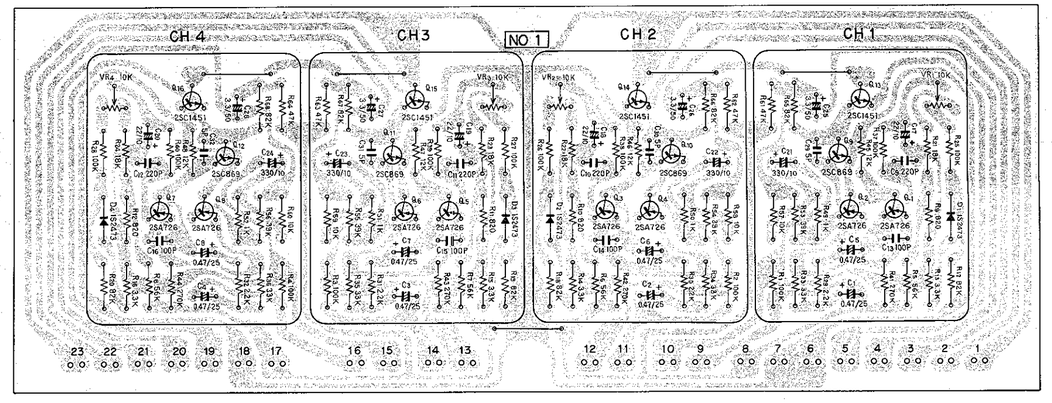
Control amp ass'y AWG-024



Protection circuit ass'y AWM-049



Power amp ass'y AWH-028



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TUNER Ass'y AWE-028

POWER SUPPLY CIRCUIT Ass'y AWR-040

EQUALIZER AMP Ass'y AWF-010

MATRIX Ass'y AWM-048

CONTROL AMP Ass'y AWG-024

POWER AMP Ass'y AWH-028

SWITCH Ass'y AWS-049

PROTECTION Ass'y AWM-049

DECODER Ass'y AWM-065

CD-4 SUB CHANNEL Ass'y AWX-051

LAMP HOLDER Ass'y AWX-052

DIAL POINTER

AWG-024 1/2

AWG-024 2/2

AWS-049 1/2

AWS-049 2/2

NOTES
SWITCHES
S1: FUNCTION (AM position)
1) AM 2) FM MONO 3) FM AUTO
4) PHONO 5) AUX
S2: MODE SELECTOR (2CH position)
1) 2CH 2) CD-4 3) RM 4) SQ
S3: FM DE-EMPHASIS
50μS ⟷ 75μS
S4: 2CH POWER BOOSTING SWITCH
S5: POWER SWITCH
S7: RELAY
S8: MICRO SWITCH

POTENTIOMETERS
VR1: BALANCE V.R.
VR2: MAIN V.R.
VR3,4: CD-4
CHANNEL SEPARATION
VR5: CD-4 CARRIER CONT

RESISTORS
IN OHM, 1/4W, ±5% TOLERANCE UNLESS OTHERWISE NOTED.
K: kΩ M: MΩ

CAPACITORS
IN μF UNLESS OTHERWISE NOTED.
P: pF

NOTES
(V): SIGNAL VOLTAGE NECESSARY FOR OBTAINING 34W/8Ω OUTPUT POWER (1kHz), S4 SET AT 4CH.
(V): SIGNAL VOLTAGE NECESSARY FOR OBTAINING 54W/8Ω OUTPUT POWER (1kHz), S4 SET AT 2CH.
⇦ V : DC VOLTAGE AT NO INPUT SIGNAL, S4 SET AT 4CH.
⇦ A : DC CURRENT AT NO INPUT SIGNAL, S4 SET AT 4CH.
(V) : DC VOLTAGE AT 34W/8Ω OUTPUT POWER.
(A) : DC CURRENT AT 34W/8Ω OUTPUT POWER.
(V) : DC VOLTAGE AT NO INPUT SIGNAL, S4 SET AT 2CH.
(A) : DC CURRENT AT NO INPUT SIGNAL, S4 SET AT 2CH.

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TUNER Ass'y AWE-028

LAMP HOLDER Ass'y AWX-052

AWR-040

SWITCH Ass'y AWS-049 1/2

CONTROL AMP Ass'y AWG-024

EQUALIZER AMP Ass'y AWF-010

MTX-Ass'y AWM-048

SUB CHANNEL CIRCUIT Ass'y AWX-051

DECODER Ass'y AWM-065

PROTECTION Ass'y AWM-049

POWER AMP Ass'y AWH-028 1/2

AWH-028 2/2

SWITCH Ass'y AWS-049 2/2

AWX-054

AWG-024

SWITCHES
- S_1: FUNCTION (AM position) 1) AM 2) FM MONO 3) FM AUTO 4) PHONO 5) AUX
- S_2: MODE SELECTOR (2CH position) 1) 2 CH 2) CD-4 3) RM 4) SQ
- S_4: 2CH POWER BOOSTING SWITCH
- S_5: POWER SWITCH
- S_7: RELAY
- S_8: MICRO SWITCH

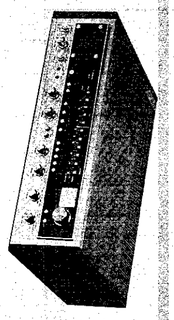
POTENTIOMETERS
- VR_1: BALANCE V.R.
- VR_2: MAIN V.R.
- $VR_{3,4}$: CD-4 CHANNEL SEPARATION.
- VR_5: CD-4 CARRIER CONT.

RESISTORS
IN OHM, 1/4W, ±5% TOLERANCE UNLESS OTHERWISE NOTED. K: KΩ M: MΩ

CAPACITORS
IN μF UNLESS OTHERWISE NOTED. P: pF

NOTES
- (V): SIGNAL VOLTAGE NECESSARY FOR OBTAINING 34W/8Ω OUTPUT POWER (1KHz), S_4 SET AT 4CH.
- V: SIGNAL VOLTAGE NECESSARY FOR OBTAINING 54W/8Ω OUTPUT POWER (1KHz), S_4 SET AT 2CH.

⇦ V : DC VOLTAGE AT NO INPUT SIGNAL, S_4 SET AT 4CH.
⇦ A : DC CURRENT AT NO INPUT SIGNAL, S_4 SET AT 4CH.
(V) : DC VOLTAGE AT 34W/8Ω OUTPUT POWER.
(A) : DC CURRENT AT 34W/8Ω OUTPUT POWER.
(V) : DC VOLTAGE AT NO INPUT SIGNAL, S_4 SET AT 2CH.
(A) : DC CURRENT AT NO INPUT SIGNAL, S_4 SET AT 2CH.

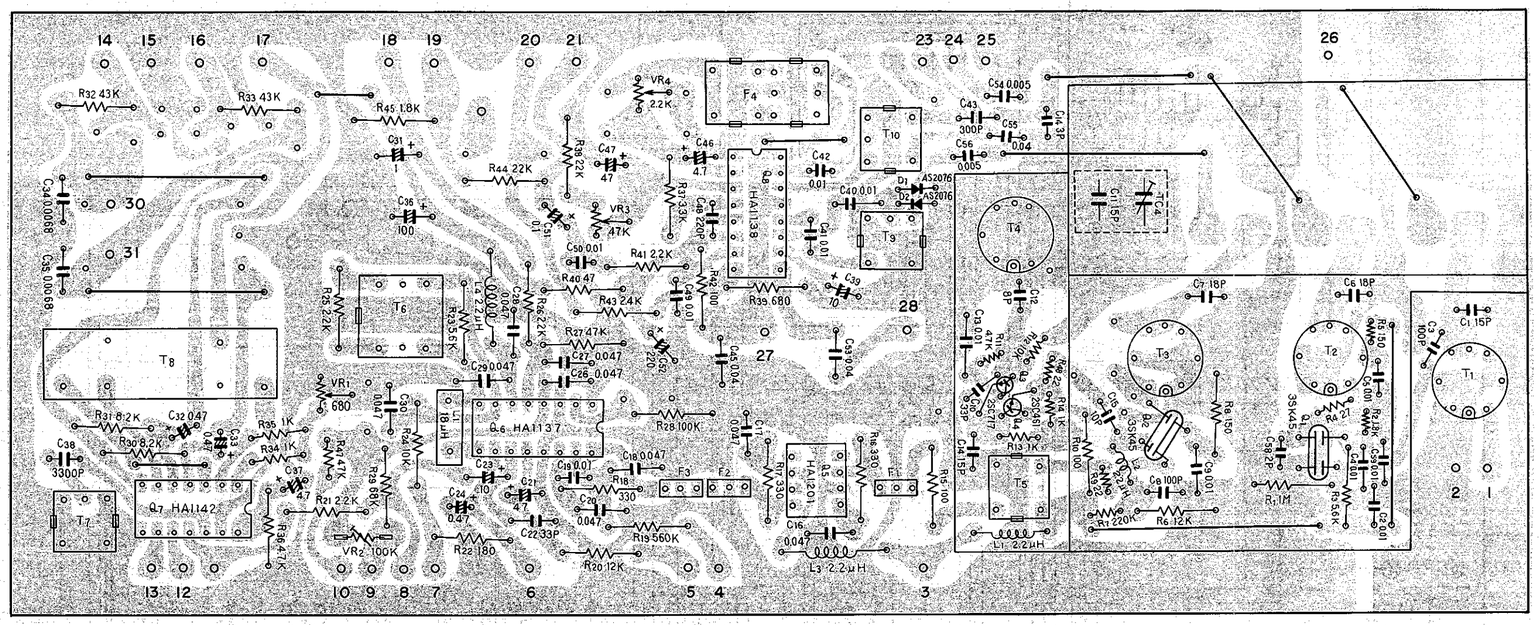


QUADRAPHONIC RECEIVER

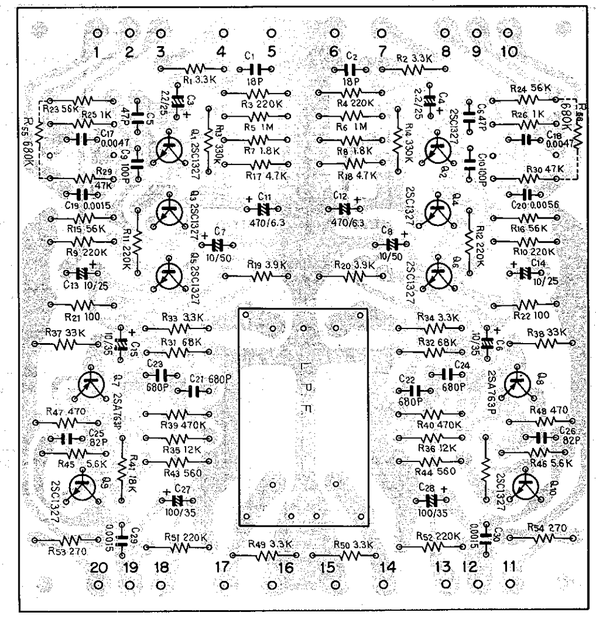
QX-949

FV FUW

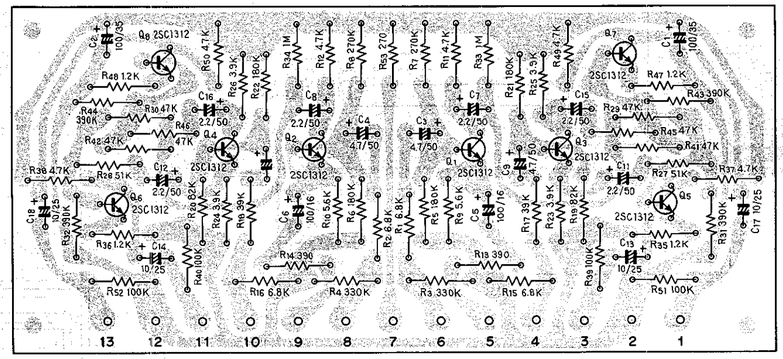
Tuner ass'y AWE-027



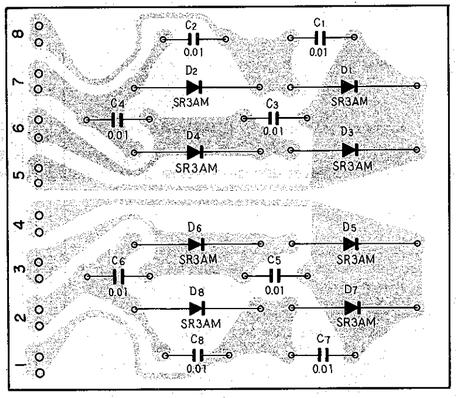
Equalizer amp ass'y AWF-010



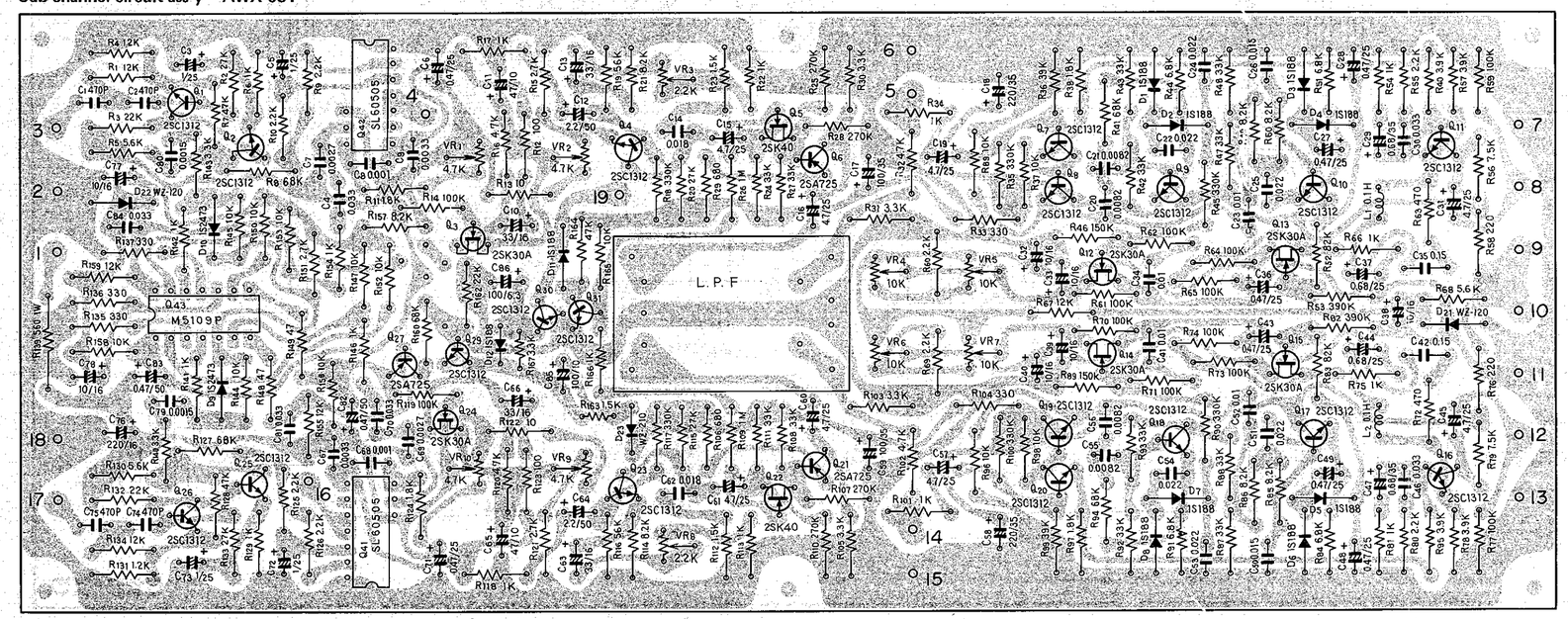
Matrix ass'y AWM-048



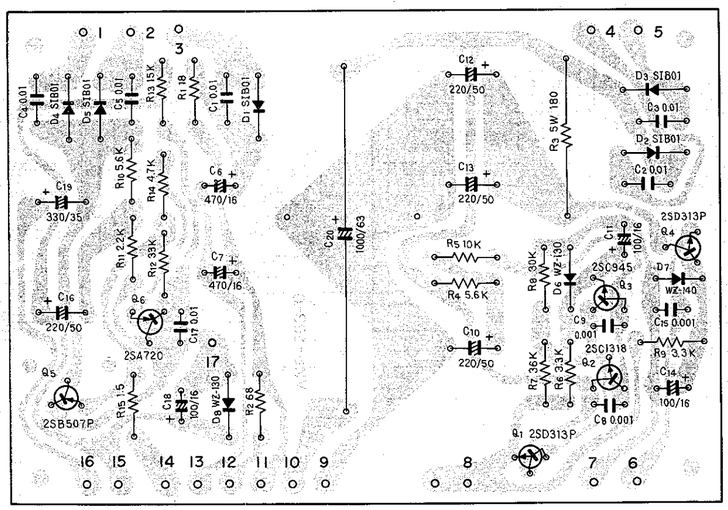
Power supply ass'y B AWR-039



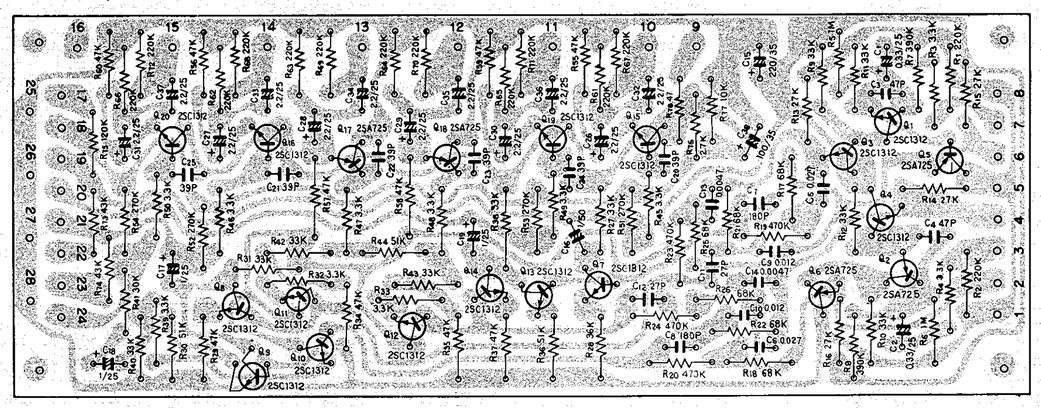
Sub channel circuit ass'y AWX-051



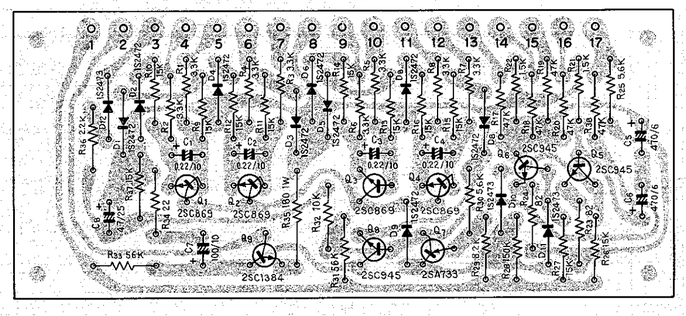
Power supply ass'y A AWR-038



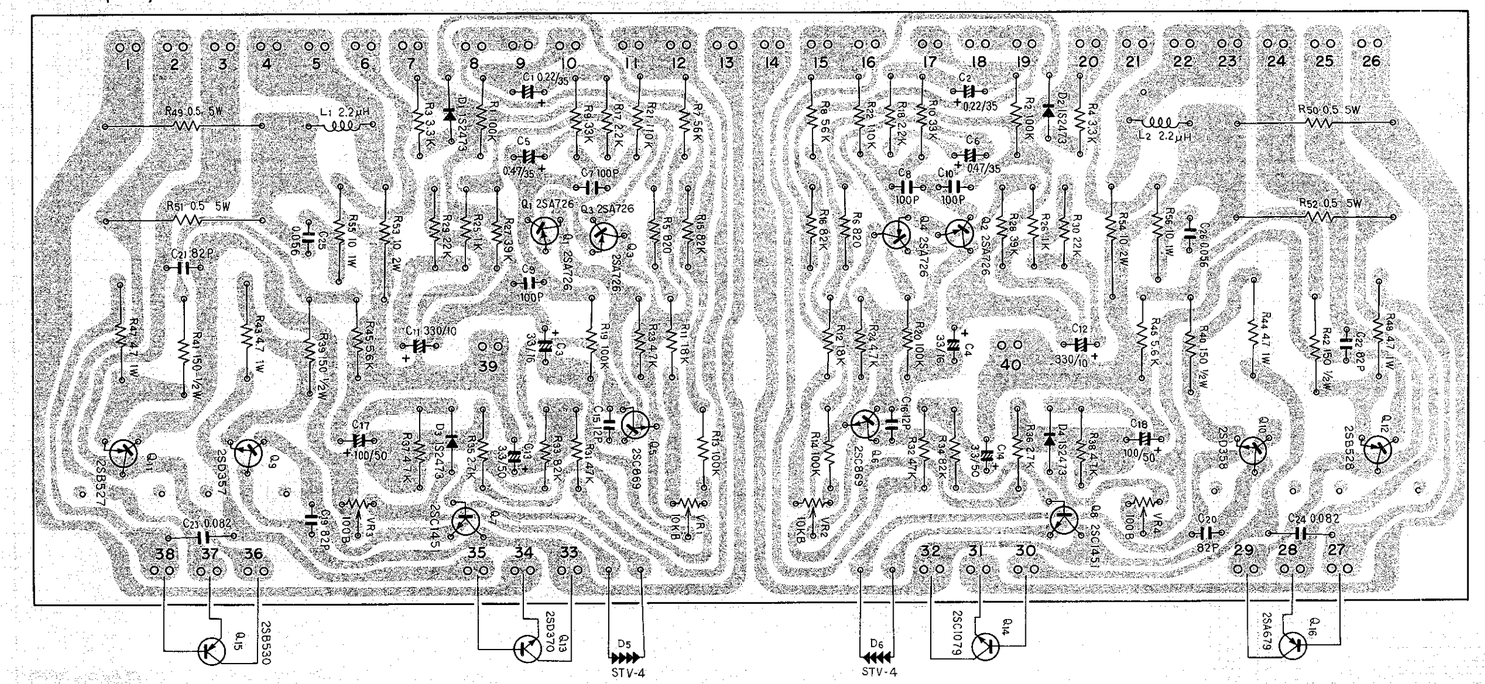
Decoder ass'y AWM-031



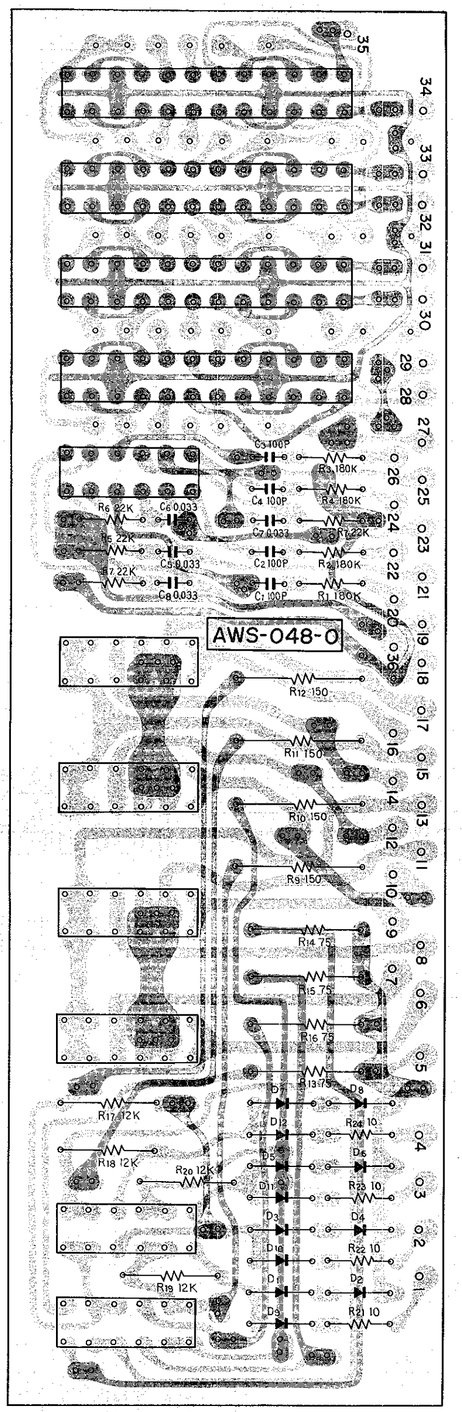
Protection circuit ass'y AWM-049



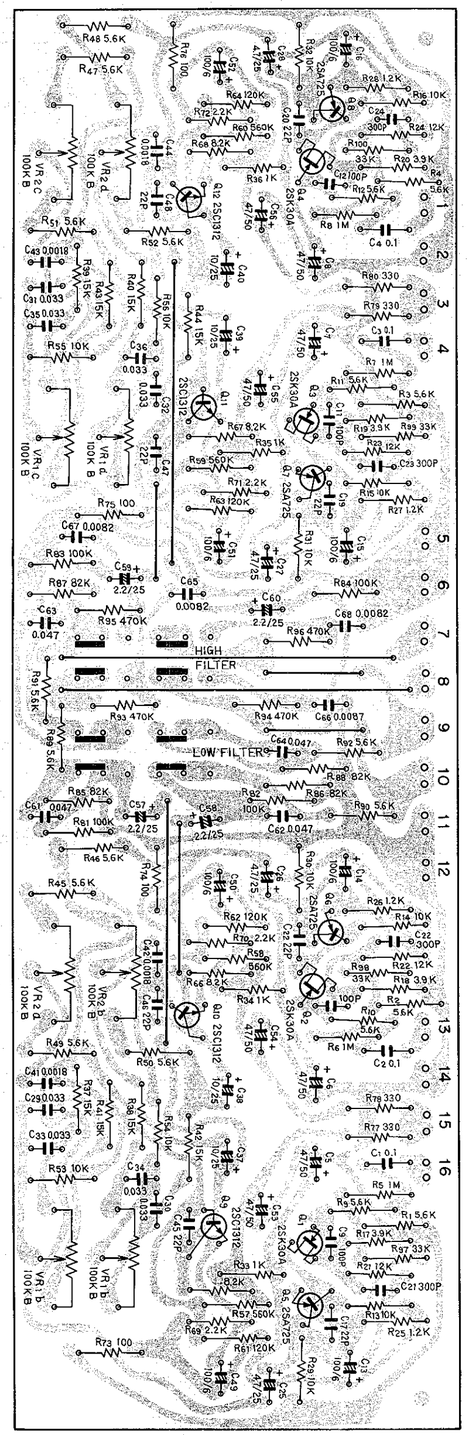
Power amp ass'y AWH-027



Switch ass'y AWS-048



Control amp ass'y AWG-023



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TUNER Ass'y AWE-027

POWER SUPPLY CIRCUIT Ass'y AWR-038

POWER SUPPLY Ass'y AWR-038

FUSE AWX-053

EQUALIZER Ass'y AWF-010 1/2

AWX-051 SUB-CHANNEL CIRCUIT Ass'y

DECODER Ass'y AWM-031

MATRIX Ass'y AWM-048

AWF-010 2/2

SWITCH Ass'y AWS-048

CONTROL AMP Ass'y AWG-023

AWS-048 3/2

POWER AMP Ass'y AWH-027 (A)

AWH-027 (B)

HEADPHONE Ass'y AWX-054

PROTECTION Ass'y AWM-049

LAMP HOLDER AWX-052

FM MPX NOISE FILTER

NOTES

- V : SIGNAL VOLTAGE NECESSARY FOR OBTAINING 50W/8Ω OUTPUT POWER (1KHz), S_8 SET AT 4CH.
- V : SIGNAL VOLTAGE NECESSARY FOR OBTAINING 12W/8Ω OUTPUT POWER (1KHz), S_8 SET AT 2CH.
- ⇦ V : DC VOLTAGE AT NO INPUT SIGNAL, S_8 SET AT 4CH.
- ⇦ A : DC CURRENT AT NO INPUT SIGNAL, S_8 SET AT 4CH.
- (V) : DC VOLTAGE AT 50W/8Ω OUTPUT POWER.
- (A) : DC CURRENT AT 50W/8Ω OUTPUT POWER.
- (V) : DC VOLTAGE AT NO INPUT SIGNAL, S_8 SET AT 2CH.
- (A) : DC CURRENT AT NO INPUT SIGNAL, S_8 SET AT 2CH.

RESISTORS
IN OHM, 1/4W, ±5% TOLERANCE UNLESS OTHERWISE NOTED. K: KΩ M: MΩ

CAPACITORS
IN μF UNLESS OTHERWISE NOTED.
P: pF

S_1 FUNCTION (AM position)
1) AM
2) FM MONO
3) FM AUTO
4) PHONO 1
5) PHONO 2
6) AUX

S_2 MODE (2CH position)
1) 2CH
2) CD-4
3) RM
4) SQ

S_3 FM DE-EMPHASIS (75μS position)
1) 75μS
2) 50μS

S_4 FM MUTING (ON position)
1) ON
2) OFF

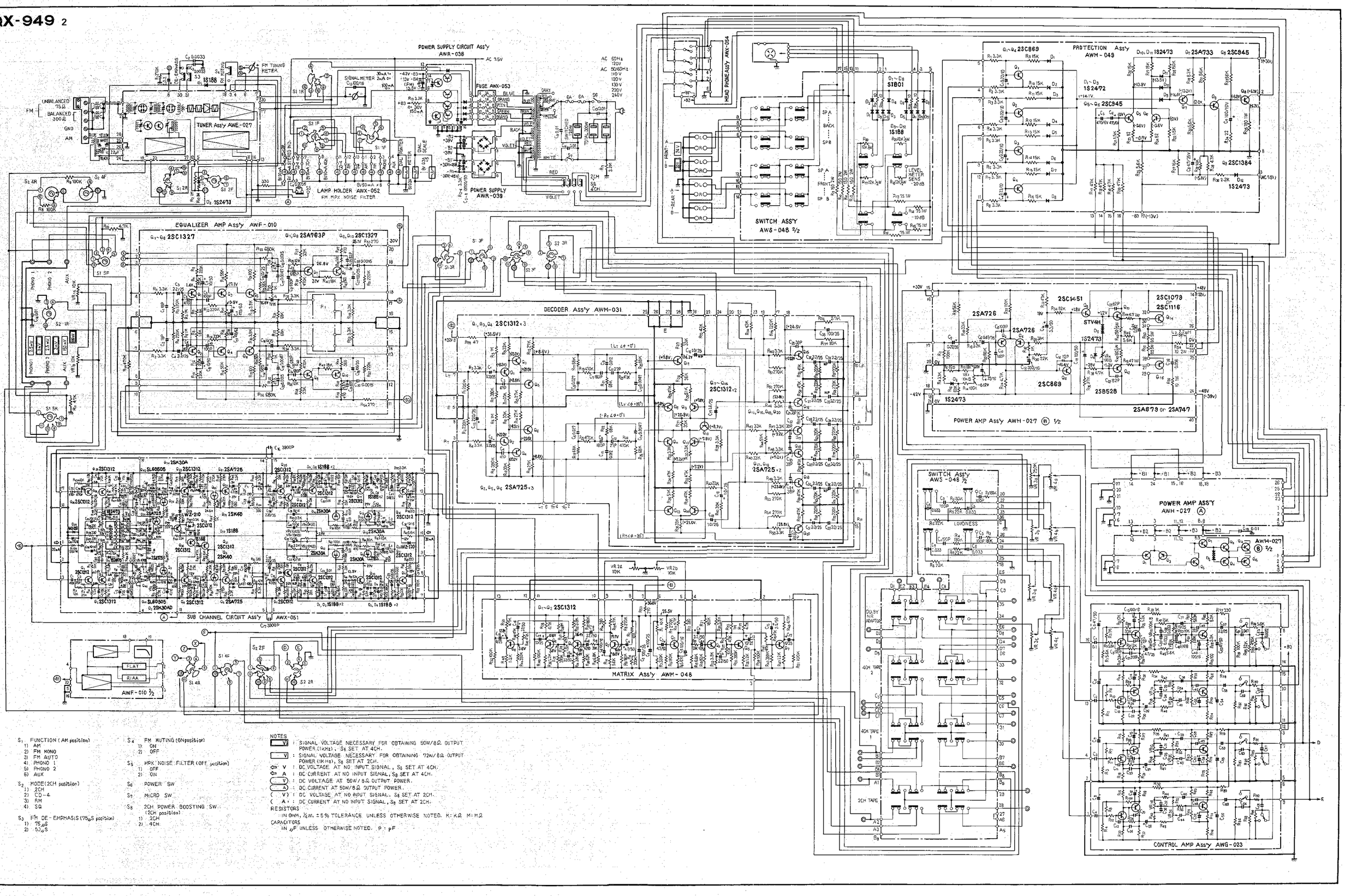
S_5 MPX NOISE-FILTER (OFF position)
1) OFF
2) ON

S_6 POWER SW

S_7 MICRO SW

S_8 2CH POWER BOOSTING SWITCH
1) 2CH
2) 4CH

QX-949 2



S_1 FUNCTION (AM position)
1) AM
2) FM MONO
3) FM AUTO
4) PHONO 1
5) PHONO 2
6) AUX

S_2 MODE (2CH position)
1) 2CH
2) CD-4
3) RM
4) SQ

S_3 FM DE-EMPHASIS (75μS position)
1) 75μS
2) 50μS

S_4 FM MUTING (ON position)
1) ON
2) OFF

S_5 MPX NOISE FILTER (OFF position)
1) OFF
2) ON

S_6 POWER SW

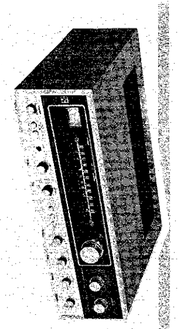
S_7 MICRO SW

S_8 2CH POWER BOOSTING SW (2CH position)
1) 2CH
2) 4CH

NOTES
- (V): SIGNAL VOLTAGE NECESSARY FOR OBTAINING 50W/8Ω OUTPUT POWER (1KHz), S_8 SET AT 4CH.
- (V): SIGNAL VOLTAGE NECESSARY FOR OBTAINING 12W/8Ω OUTPUT POWER (1KHz), S_8 SET AT 2CH.
- ⇦ V: DC VOLTAGE AT NO INPUT SIGNAL, S_8 SET AT 4CH.
- ⇦ A: DC CURRENT AT NO INPUT SIGNAL, S_8 SET AT 4CH.
- (V): DC VOLTAGE AT 50W/8Ω OUTPUT POWER.
- (A): DC CURRENT AT 50W/8Ω OUTPUT POWER.
- (V): DC VOLTAGE AT NO INPUT SIGNAL, S_8 SET AT 2CH.
- (A): DC CURRENT AT NO INPUT SIGNAL, S_8 SET AT 2CH.

RESISTORS
IN OHM, ¼W, ±5% TOLERANCE UNLESS OTHERWISE NOTED. K: KΩ M: MΩ

CAPACITORS
IN μF UNLESS OTHERWISE NOTED. P: pF

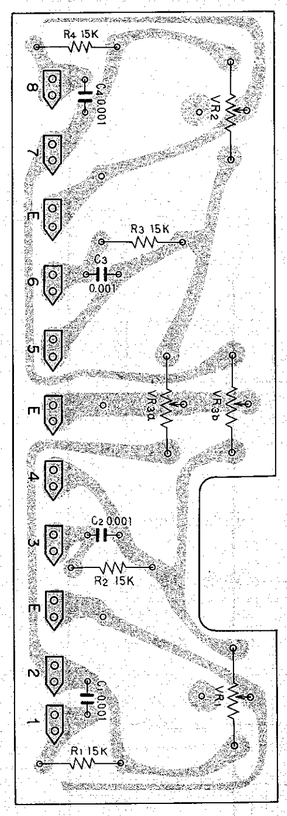


QUADRAPHONIC RECEIVER

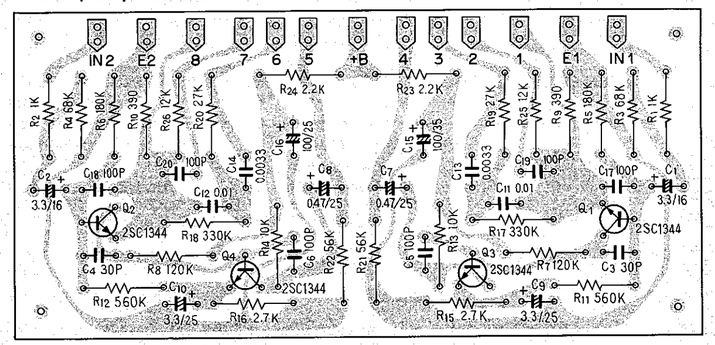
QX-4000

FSAW FW KUW

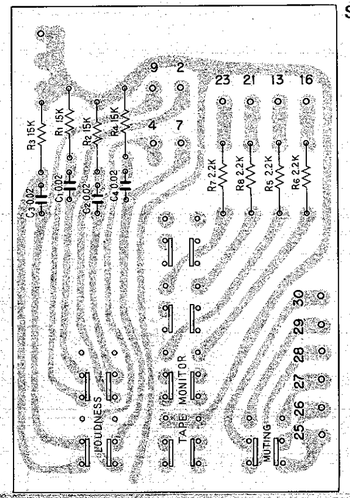
Volume ass'y AWX-028



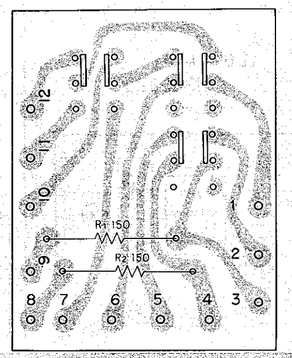
Head amp ass'y AWF-003



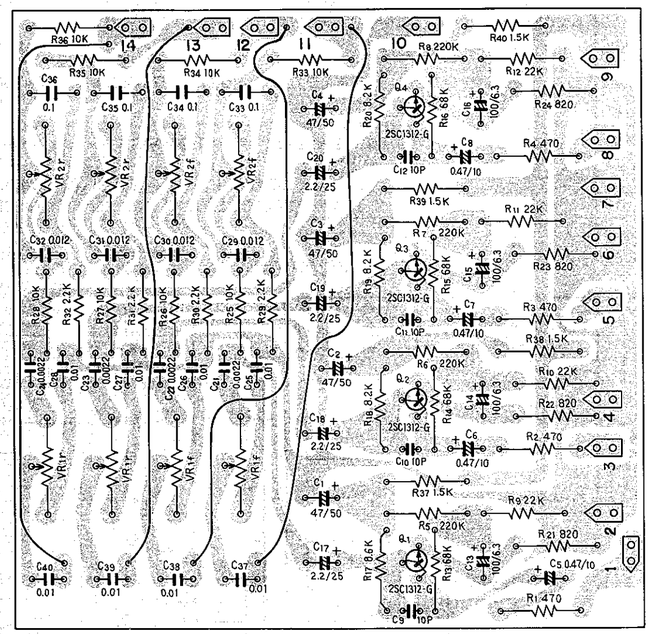
Switch ass'y AWS-023



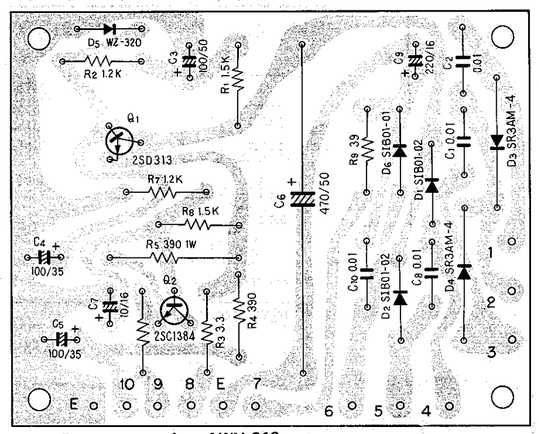
SP switch ass'y AWS-024



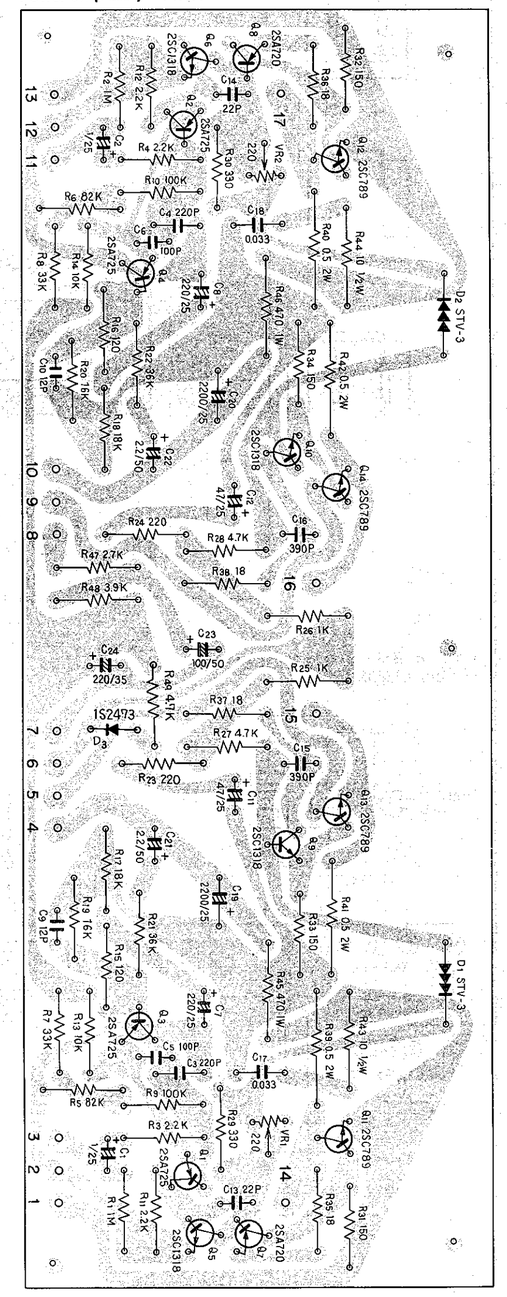
Control amp ass'y AWG-015



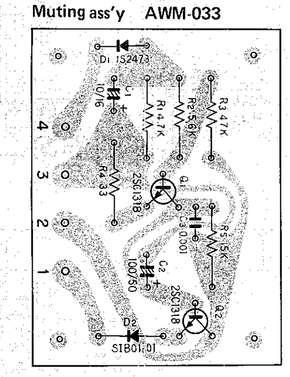
Power supply ass'y AWR-021



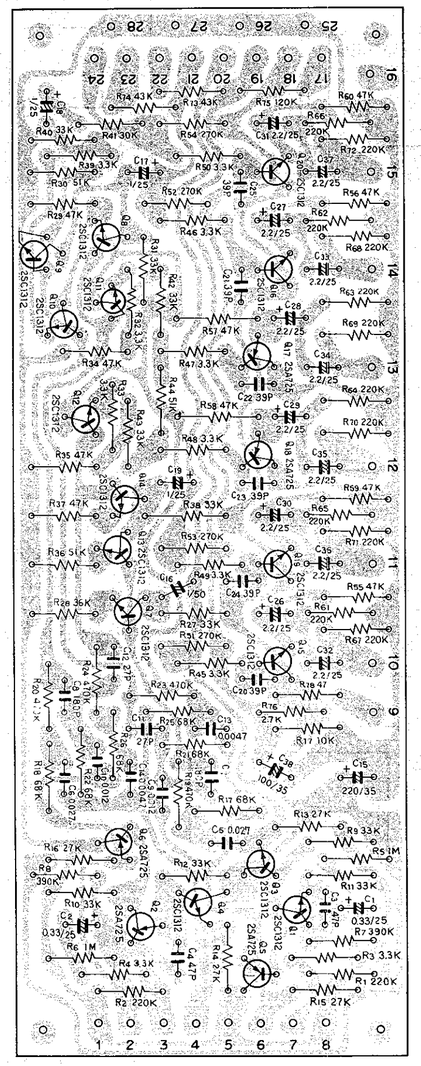
Power amp ass'y AWH-019



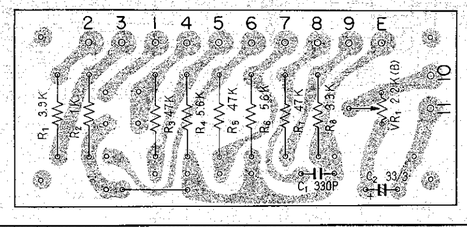
Muting ass'y AWM-033



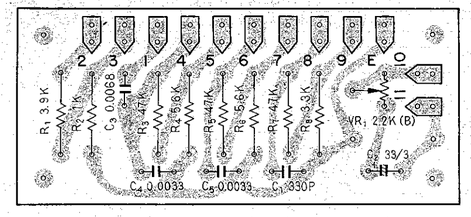
Decoder ass'y AWM-031



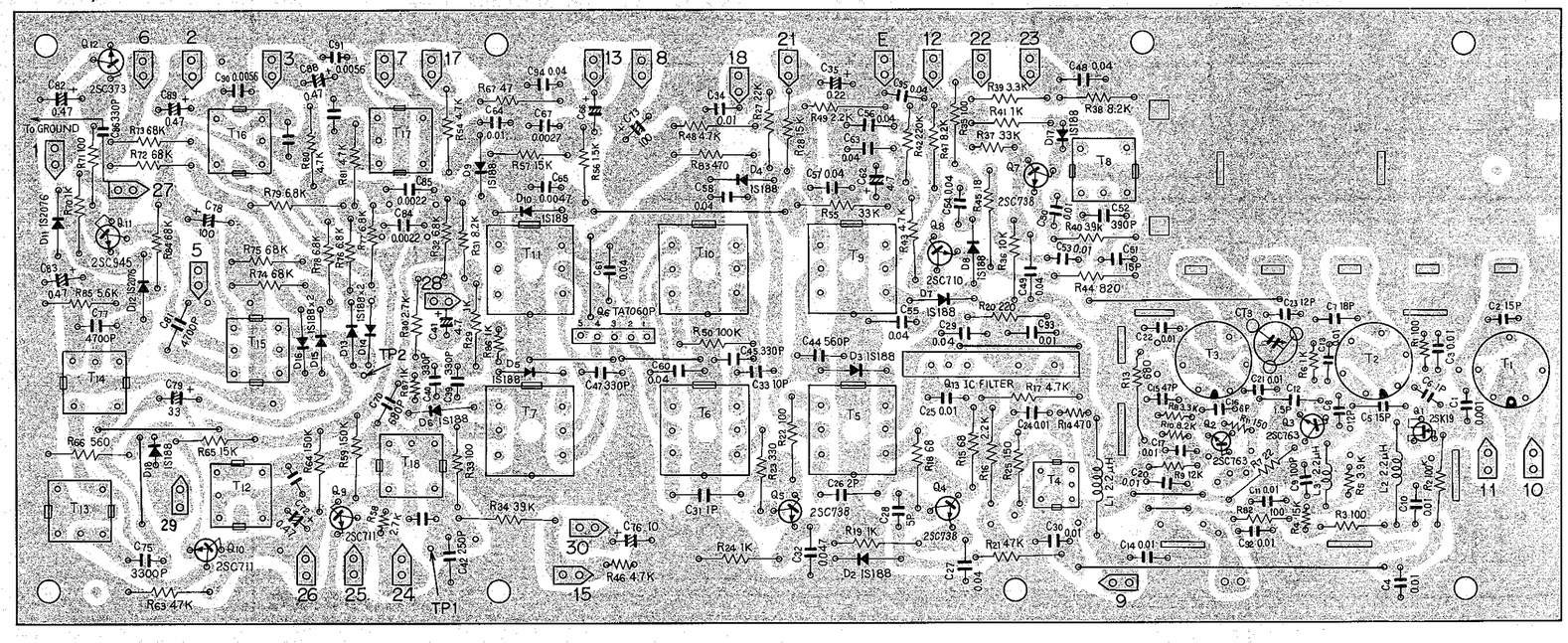
CR ass'y AWX-004 (FSAW, FW model)



CR ass'y AWX-012 (KUW model)



Tuner ass'y AWE-012



QX-4000 1

TUNER AWE - 012

FM ANT

AM GND 300Ω BAL 75Ω UN BAL

100 μH

FM+B

AM+B

FM METER

AM METER

S_1 - 2R

AM OUT

FM LCH OUT

FM RCH OUT

CR AWX-004 (5-line voltage model)

SIGNAL METER

C_4 100

C_5 0.01

C_6 0.0039

C_7 0.0039

S_5 50μ 75μ

S_1 - 4R

S_2 - 3F

S_2 - 3R

S_1 - 2F

S_1 - 5F

S_1 - 3F 1/2

S_1 - 3R

S_1 - 5R

S_1 - 3F 2/2

S_1 - 4F

S_2 - 2F

S_2 - 2R

S_2 - 1F

CH. 1
- PHONO 2.3mV
- AUX 180mV
- TAPE MON
- TAPE REC

CH. 3
- PHONO
- AUX
- TAPE MON
- TAPE REC

CH. 2
- AUX
- TAPE MON
- TAPE REC

CH. 4
- AUX
- TAPE MON
- TAPE REC

W52-004

HEAD AMP

AWF-003 RIAA FLAT

TAPE MONITOR ON

SWITCH AWS-023 1/2

DECODER AWM-031

PHASE-LT (Ψ) SHIFTER LT(Ψ+90°)

PHASE-RT (Ψ) SHIFTER RT(Ψ-90°)

LF L_R-B R_R-A R_R-B R_F R_T R_W

SWITCH AWS-023 2/2

MUTING ON OFF

LOUDNESS

VR_{1a} 250K

VR_{1b} 250K

VR_{1c} 250K

VR_{1d} 250K

BASS TREBLE

CONTROL AMP AWG-015

VOLUME AWX-028

MAIN AMP AWH-019

SP SWITCH AWS-024

SP SWITCH

REAR SP

MUTING AWM-033

stereo Indicator

7V 40mA

LAMP AWX-029

2CH. 4CH. AM FM PHONO AUX

METER LAMP

C_8 4700 31.5V

28V 9mA

33mA:FM

12.5V

42V 36V

POWER SUPPLY AWR-021

F_1 1A

F_2 3A

F_3 1A

F_4 1A

F_5 1.5A

F_6 1.5A

F_7 1.5A

F_8 1.5A

S_4 240V 220V 130V 120V 110V

S_{3a} S_{3b}

C_1 0.01

C_2 0.01

C_3 0.01

AC 50/60Hz

POWER SUPPLY CIRCUIT FOR 5-LINE VOLTAGE MODEL.

HEAD-PHONES

15W/8Ω 11V

FRONT SPEAKER

REAR SPEAKER A

REAR SPEAKER B

---- (bold broken line)
Drawn only for 5-line voltage model excluding FTZ-approved model.

Double-dotted line:
ground wire of SABS-approved model.

S_1, INPUT SELECTOR
1. AM
2. FM MONO
3. FM AUTO
4. PHONO
5. AUX

S_2, MODE SELECTOR
1. 2CH STEREO
2. MATRIX REGULAR
3. MATRIX SQ
4. DISCRETE

(3, 4 → 4CH. STEREO)

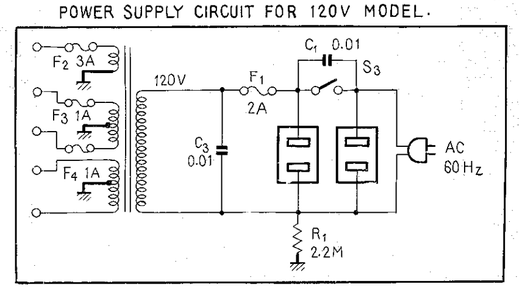
S_3, POWER OFF ↔ ON

S_4, LINE VOLTAGE SELECTOR

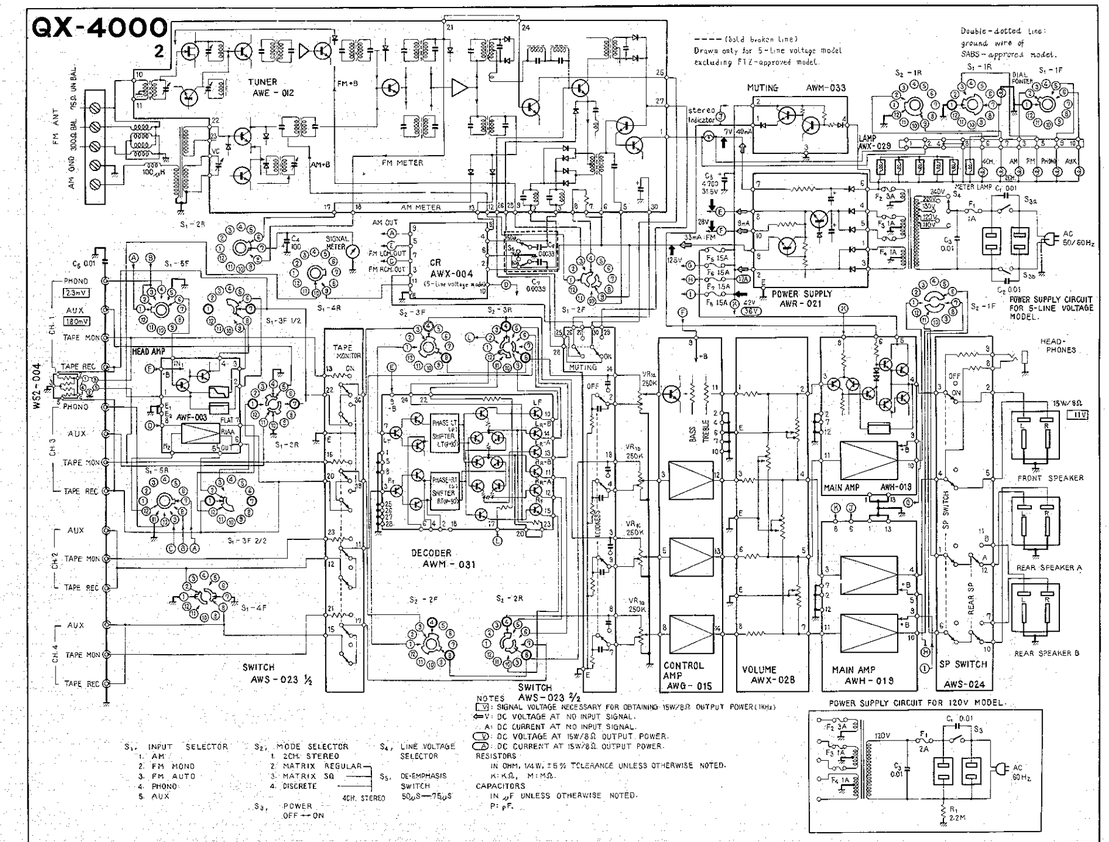
S_5, DE-EMPHASIS SWITCH 50μS ↔ 75μS

NOTES
- V: SIGNAL VOLTAGE NECESSARY FOR OBTAINING 15W/8Ω OUTPUT POWER (1KHz)
- ⇦V: DC VOLTAGE AT NO INPUT SIGNAL.
- A: DC CURRENT AT NO INPUT SIGNAL.
- (V): DC VOLTAGE AT 15W/3Ω OUTPUT POWER.
- (A): DC CURRENT AT 15W/8Ω OUTPUT POWER.
- RESISTORS: IN OHM, 1/4W, ±5% TOLERANCE UNLESS OTHERWISE NOTED. K: KΩ, M: MΩ.
- CAPACITORS: IN μF UNLESS OTHERWISE NOTED. P: pF.

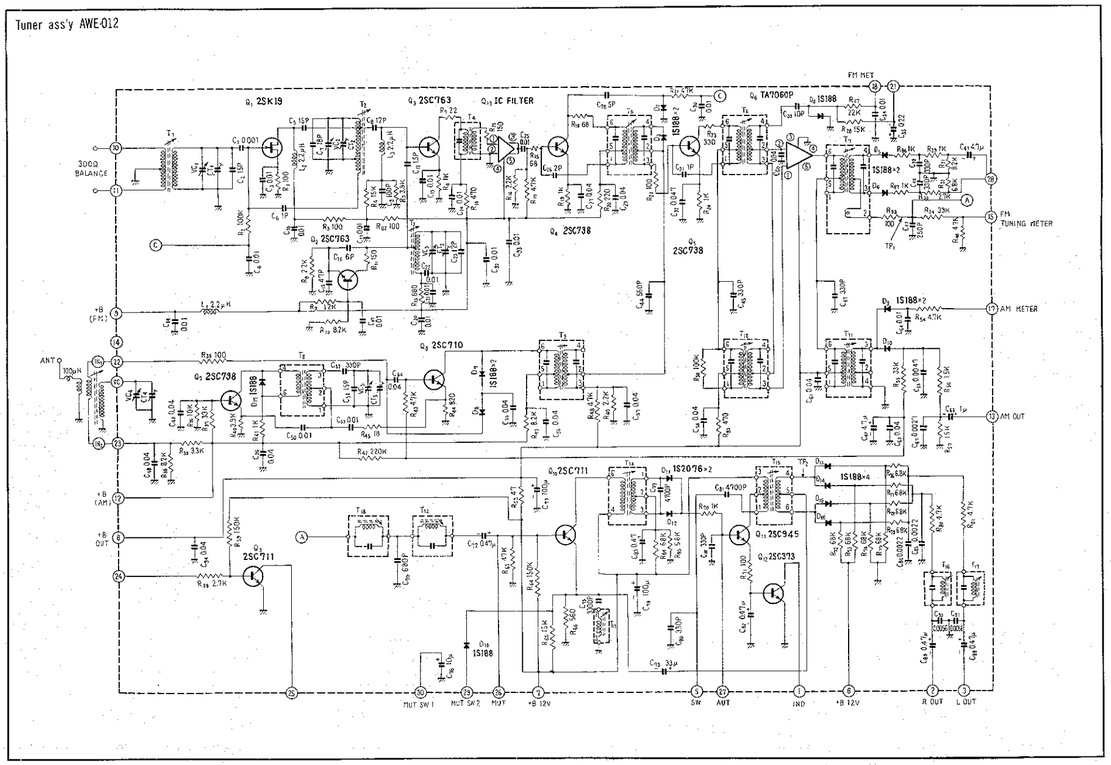
POWER SUPPLY CIRCUIT FOR 120V MODEL.



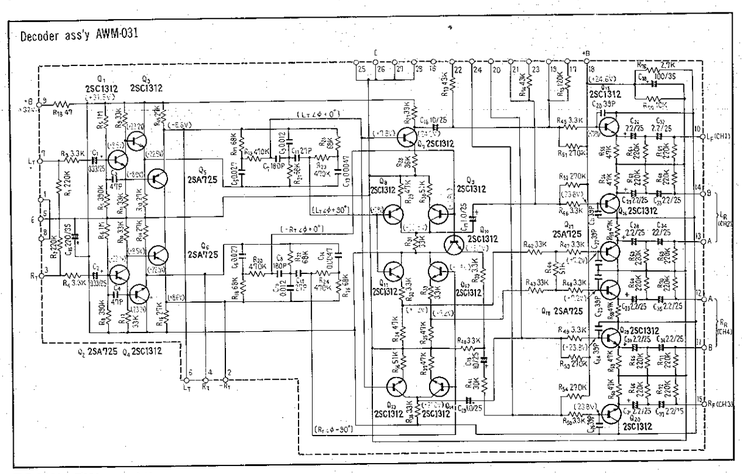
QX-4000



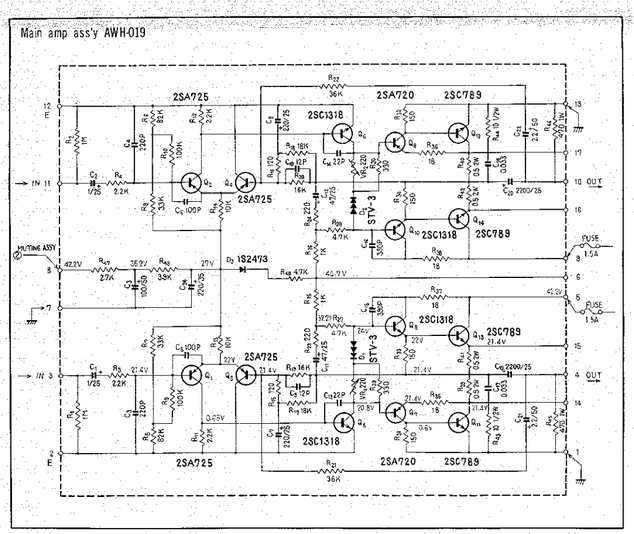
Tuner ass'y AWE-012



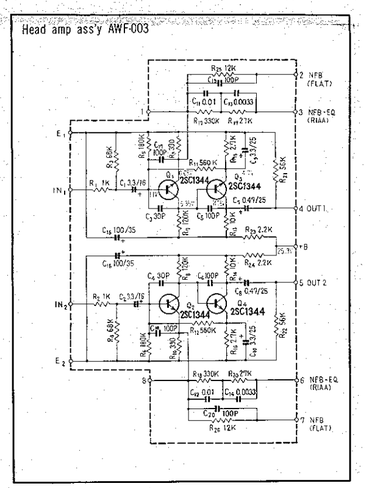
Decoder ass'y AWM-031



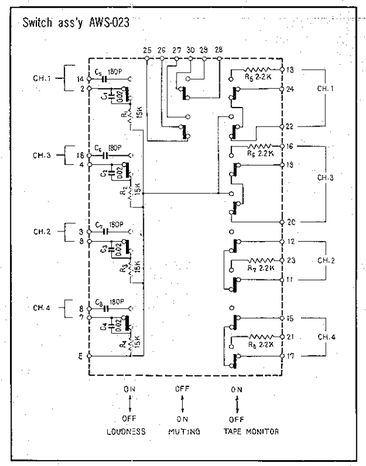
Main amp ass'y AWH-019



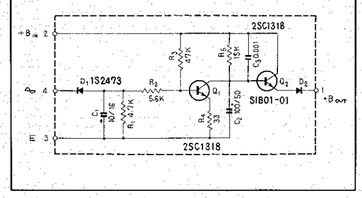
Head amp ass'y AWF-003



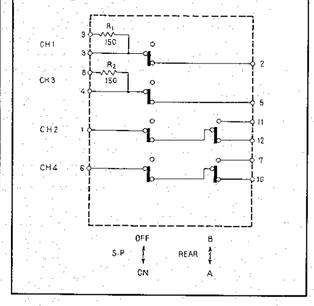
Switch ass'y AWS-023



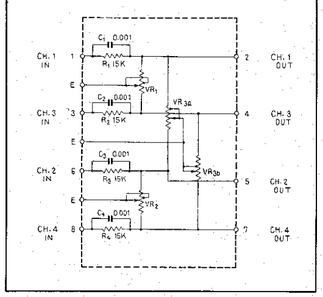
Muting ass'y AWM-033



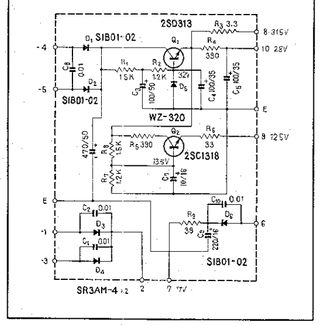
SP switch ass'y AWS-024



Volume ass'y AWX-028

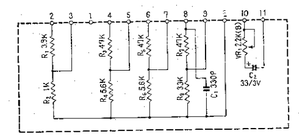


Power supply ass'y AWR-021



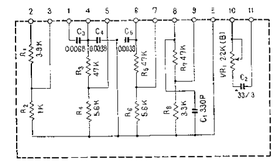
FSAW, FW model

CR ass'y AWX-004 (FSAW FW model)

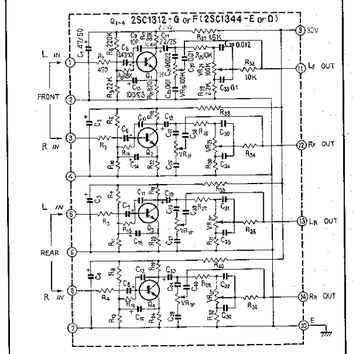


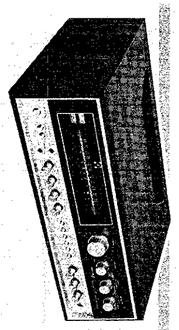
KU model

CR ass'y AWX-012 (KUW model)



Control amp ass'y AWG-015



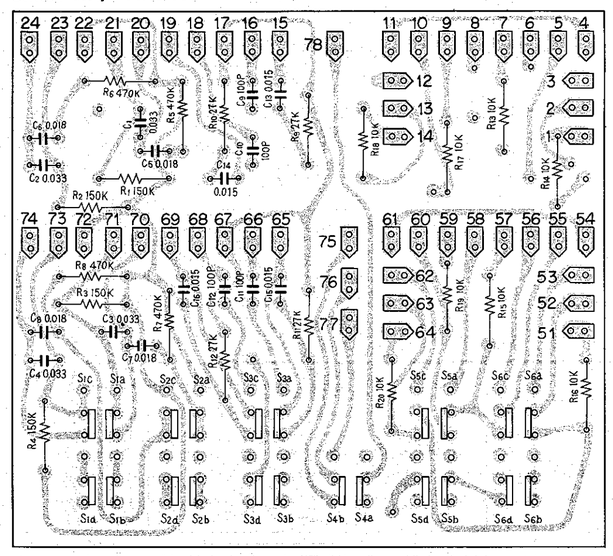


QX-8000A

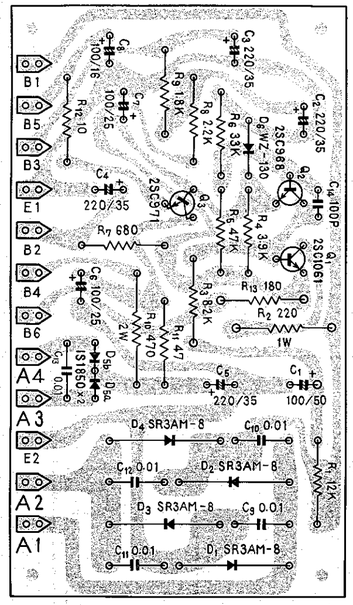
QUADRAPHONIC RECEIVER

FSAW FW KW

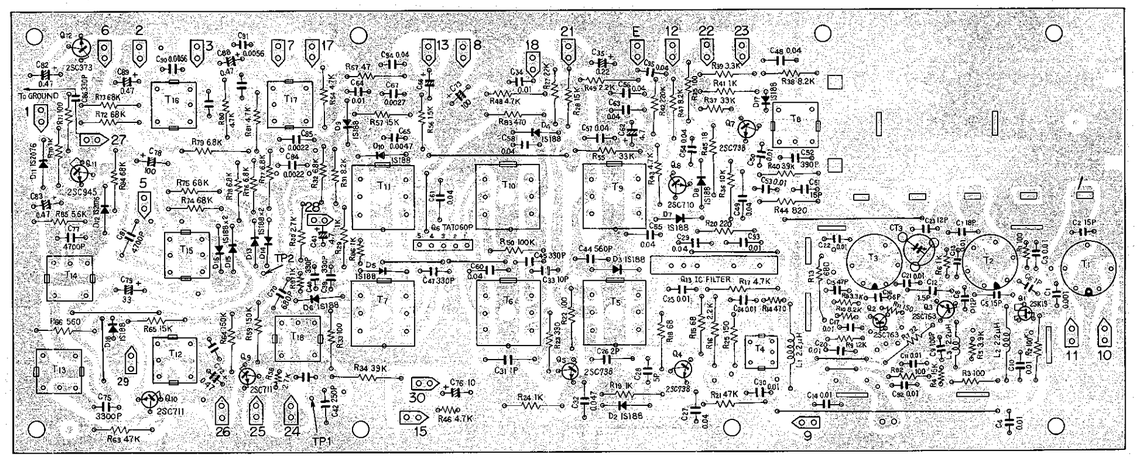
Switch ass'y AWS-004



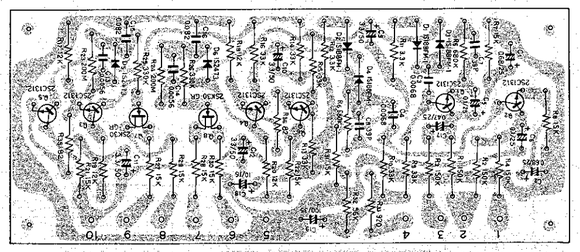
Power supply ass'y AWR-004



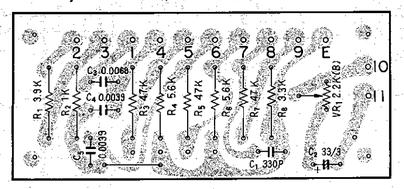
Tuner ass'y AWE-012 (FSAW model)



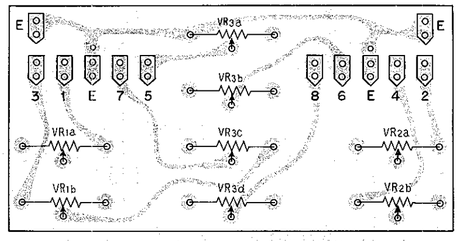
Logic ass'y AWM-032



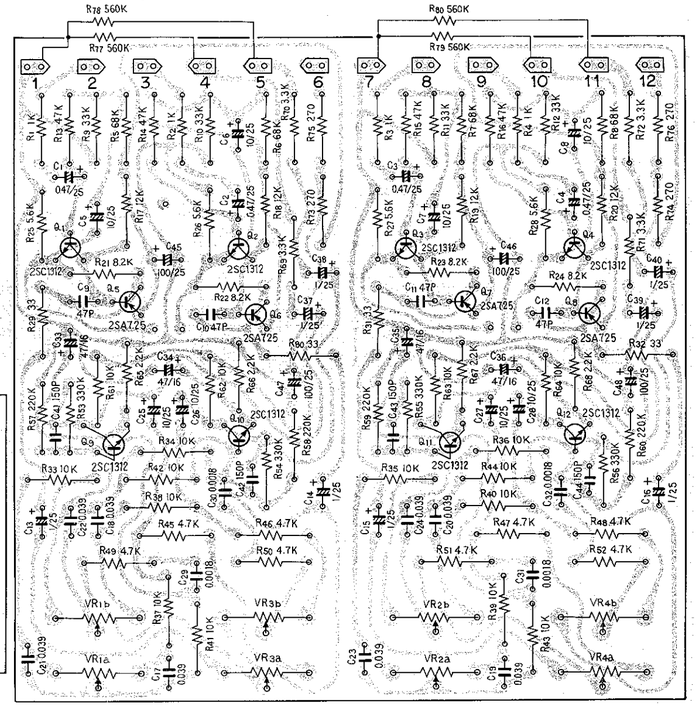
CR ass'y AWX-012 (KW model)



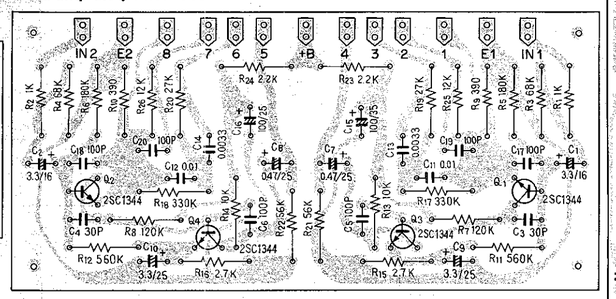
VR ass'y AWX-002



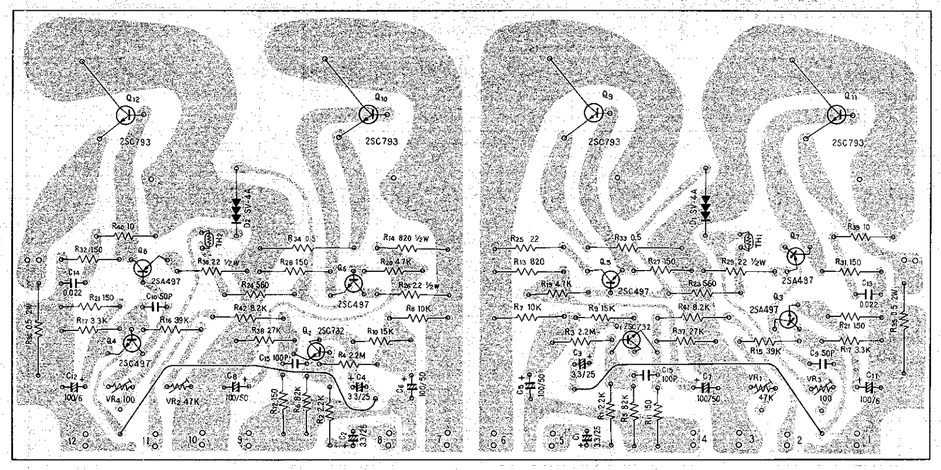
Control amp ass'y AWG-003



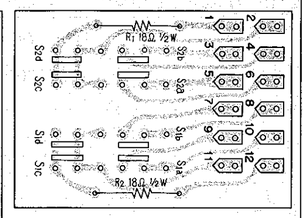
Head amp ass'y AWF-003



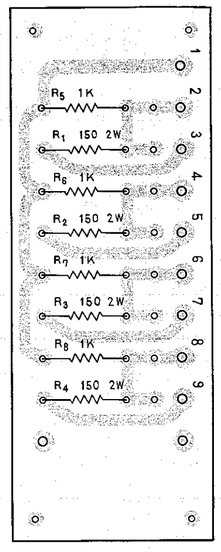
Main amp ass'y W23-007



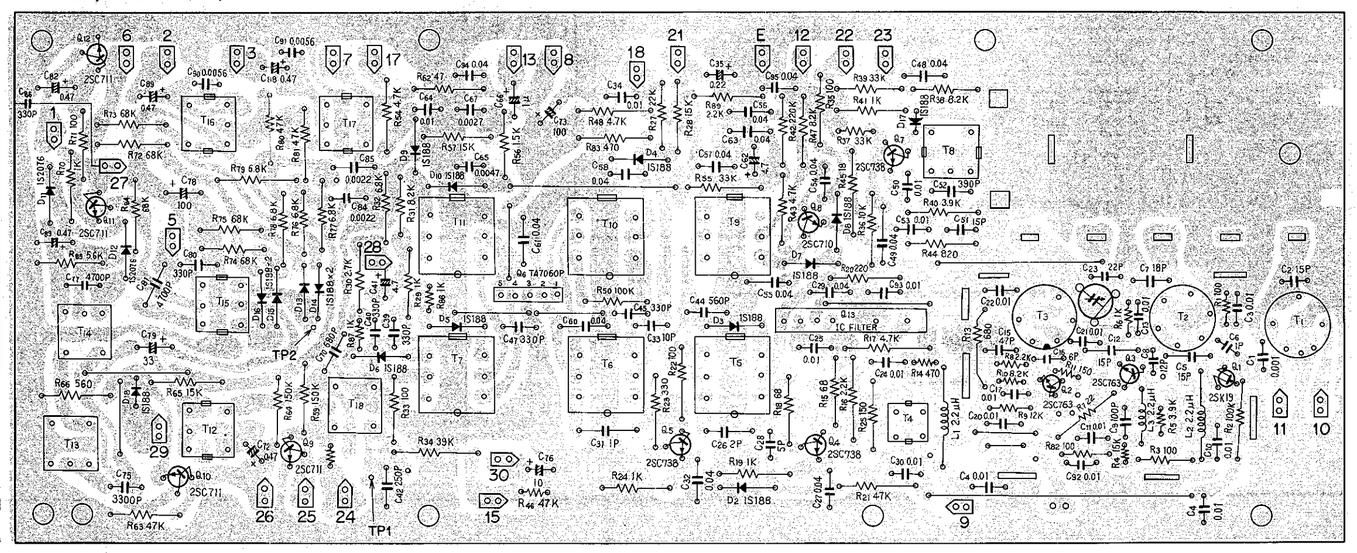
Switch ass'y AWS-005



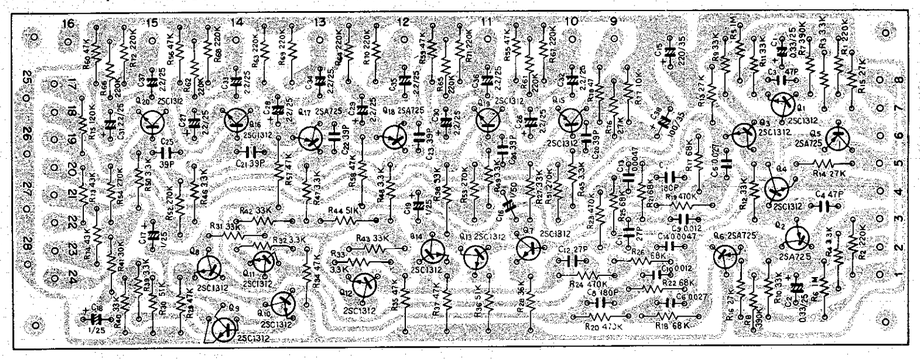
CR ass'y AWX-003 (FSAW, FW model)



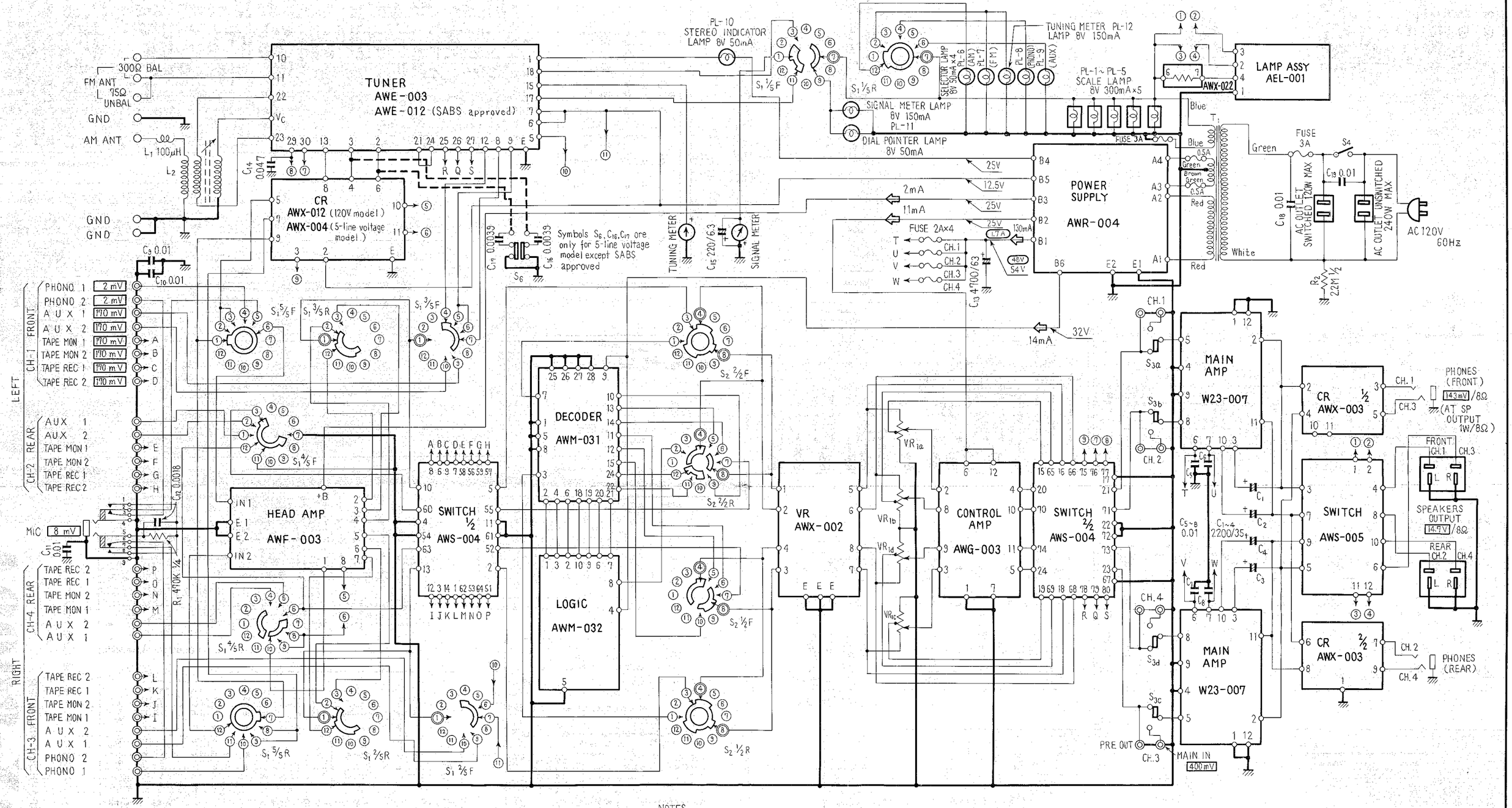
Tuner ass'y AWE-003 (FW, KW model)



Decoder ass'y AWM-031



QX-8000A 1



S_1 SELECTOR SWITCH
- 1 AM
- 2 FM MONO
- 3 FM AUTO
- 4 PHONO 1
- 5 PHONO 2
- 6 AUX 1
- 7 AUX 2

S_2 MODE SWITCH
- 1 2 CH STEREO
- 2 REGULAR ┐
- 3 SQ — MATRIX ┘ 4 CH STEREO
- 4 DISCRETE ──┘

S_3 PRE & MAIN SWITCH
INTERCOUPLED ↔ SEPARATED

S_4 POWER SWITCH
OFF ↔ ON

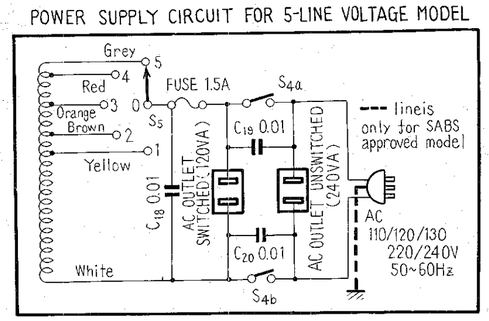
S_5 LINE VOLTAGE SELECTOR

S_6 DE-EMPHASIS SWITCH
75μs ↔ 50μs

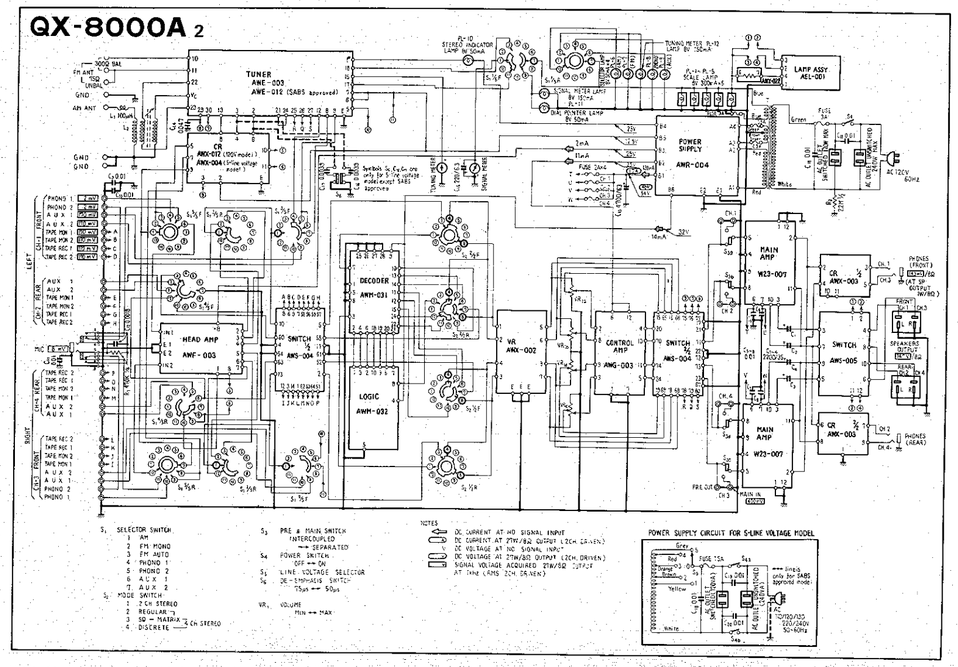
VR_1 VOLUME
MIN ↔ MAX

NOTES
- ⇦ DC CURRENT AT NO SIGNAL INPUT
- (A) DC CURRENT AT 27W/8Ω OUTPUT (2CH. DRIVEN)
- V DC VOLTAGE AT NO SIGNAL INPUT
- (V) DC VOLTAGE AT 27W/8Ω OUTPUT (2CH. DRIVEN)
- [V] SIGNAL VOLTAGE ACQUIRED 27W/8Ω OUTPUT AT 1kHz (RMS 2CH. DRIVEN)

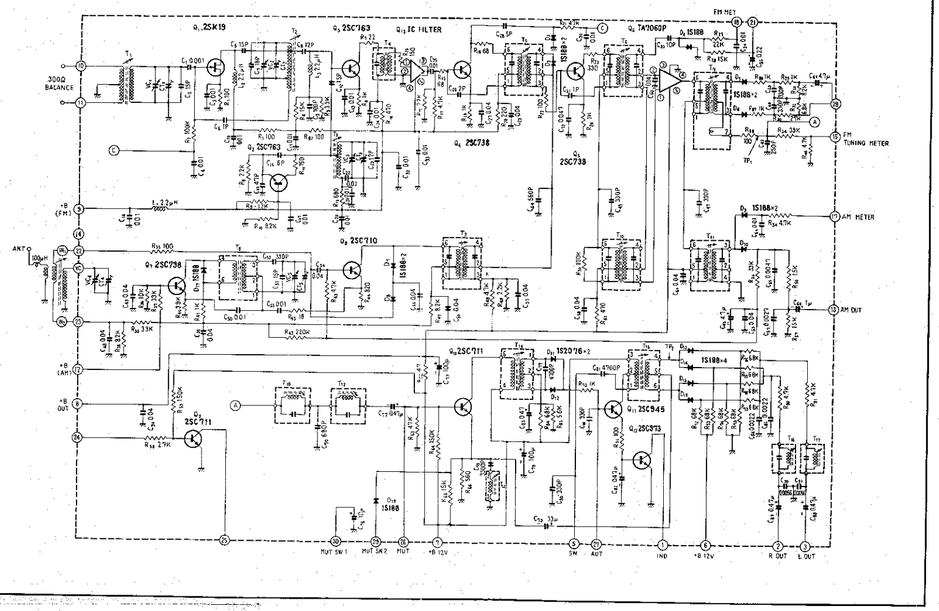
POWER SUPPLY CIRCUIT FOR 5-LINE VOLTAGE MODEL



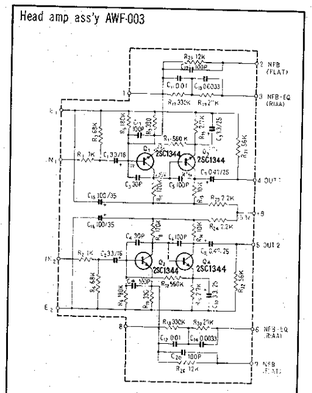
QX-8000A 2



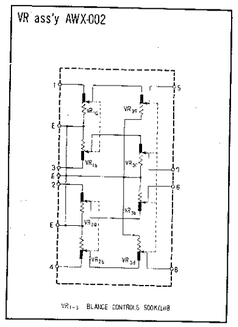
Tuner ass'y AWE-012 (FSAW model)



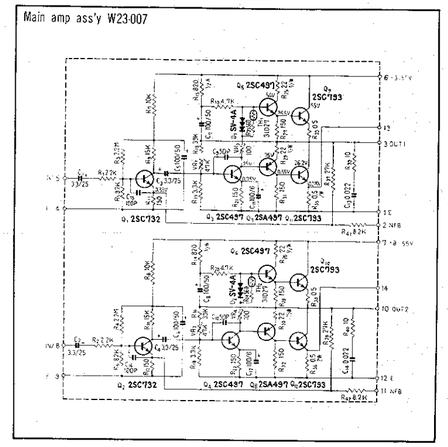
Head amp ass'y AWF-003



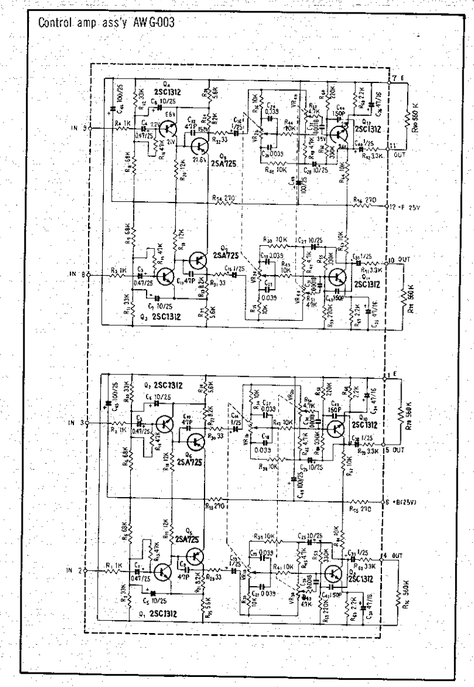
VR ass'y AWX-002



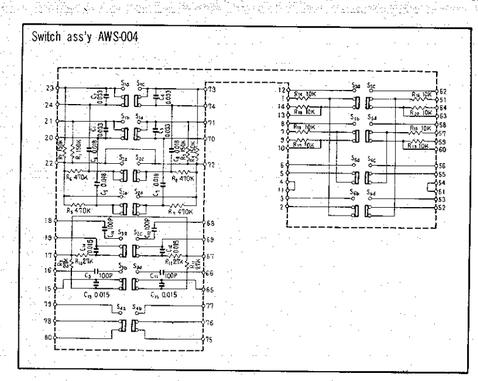
Main amp ass'y W23-007



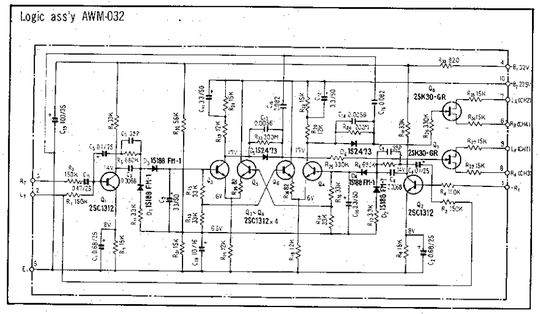
Control amp ass'y AWG-003



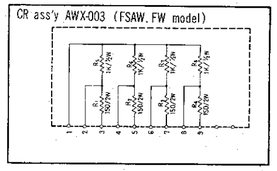
Switch ass'y AWS-004



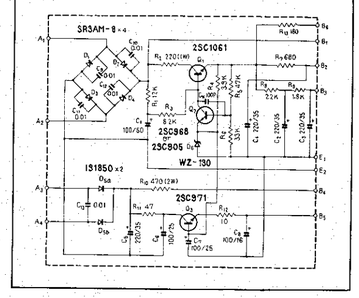
Logic ass'y AWM-032



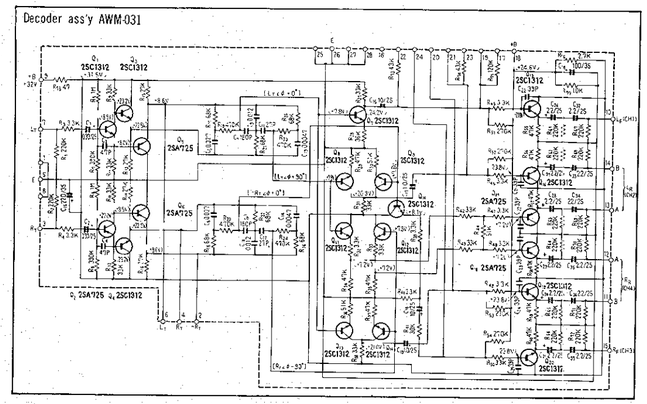
CR ass'y AWX-003 (FSAW, FW model)



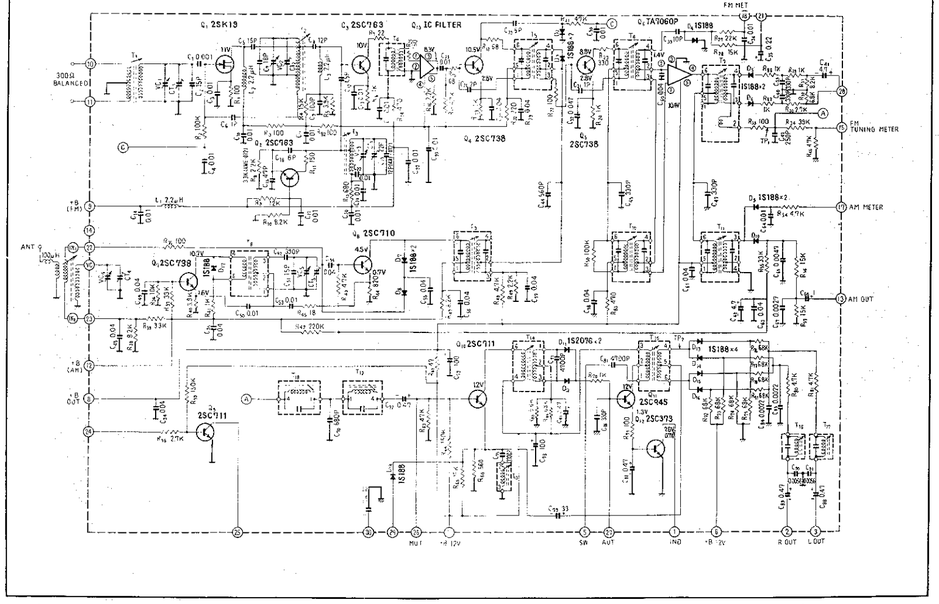
Power supply ass'y AWR-004



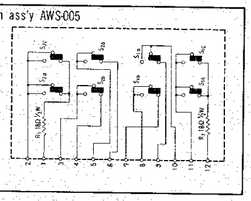
Decoder ass'y AWM-031



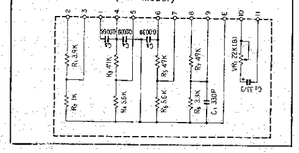
Tuner ass'y AWE-003 (FW, KW model)

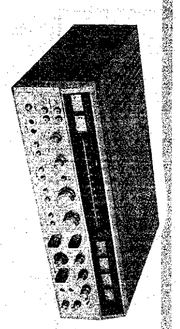


Switch ass'y AWS-005



CR ass'y AWX-012 (KW model)



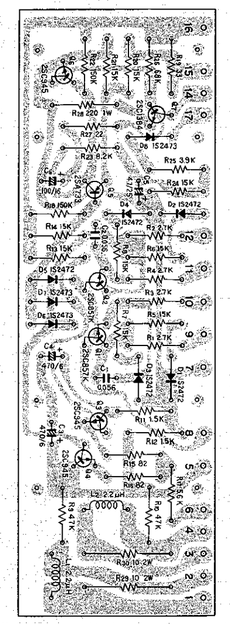


QX-9900

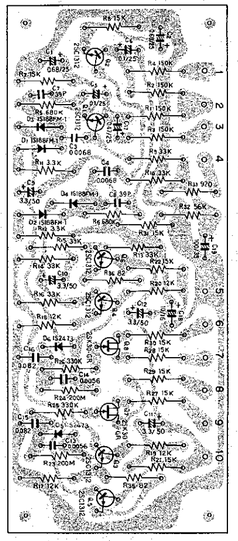
QUADRAPHONIC RECEIVER

FW

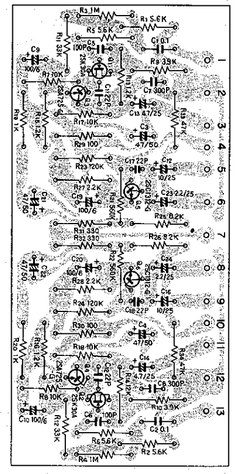
Protection ass'y AWM-028



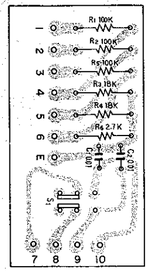
Logic ass'y AWM-032

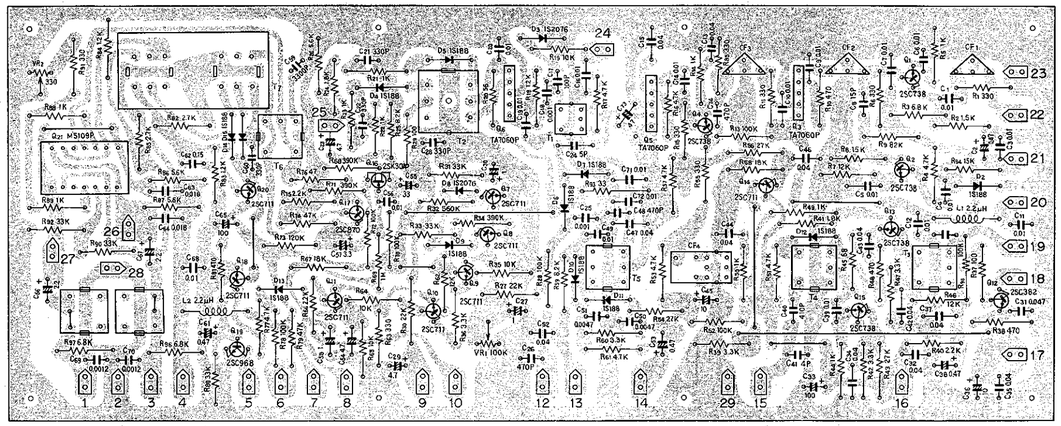


Control amp ass'y AWG-013

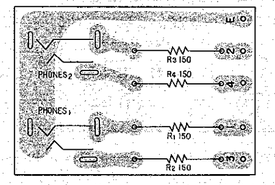


CR ass'y AWX-037 AM, FM ass'y AWE-015

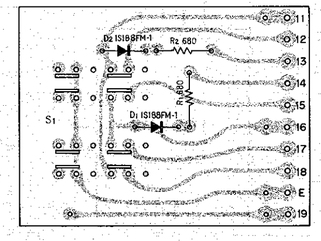




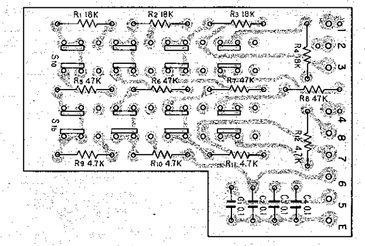
Headphone ass'y AWX-036



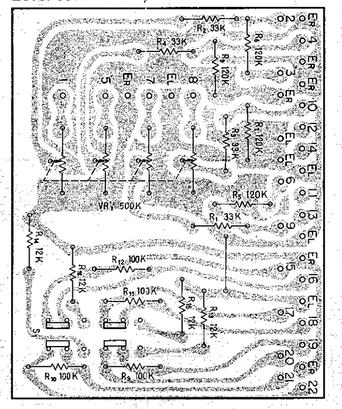
SP switch ass'y B AWS-042



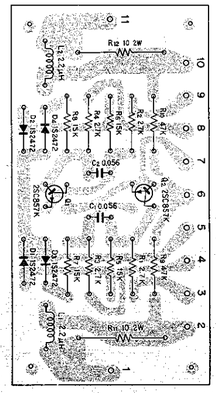
Level meter switch ass'y AWS-028



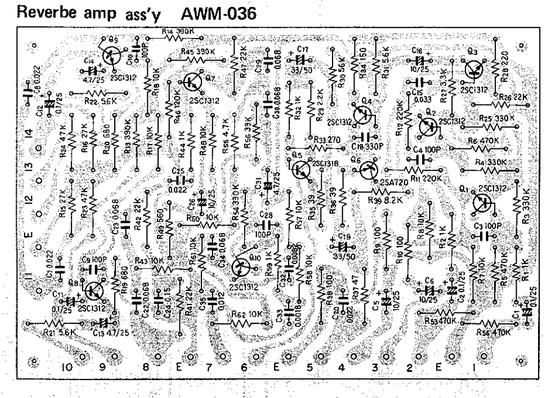
Level control ass'y AWX-034



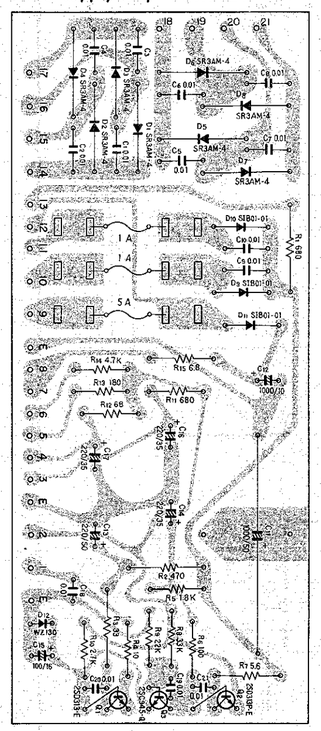
Protection ass'y AWM-029



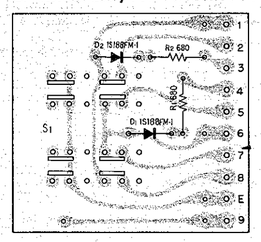
Reverbe amp ass'y AWM-036



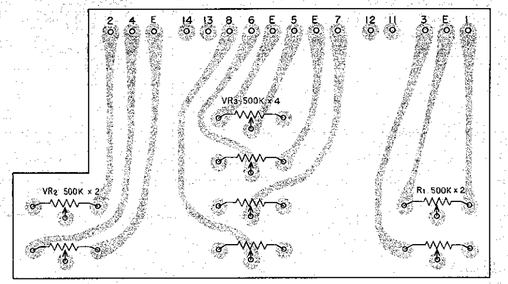
Power supply ass'y AWR-024



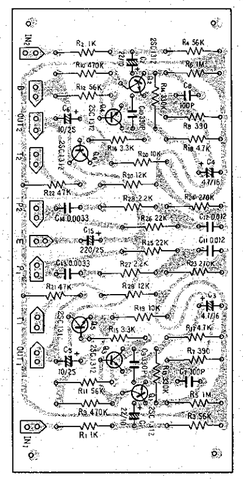
SP switch ass'y A AWS-041



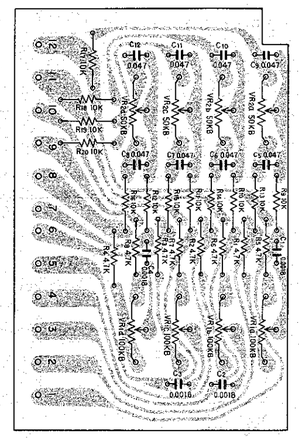
Balance volume ass'y AWX-035



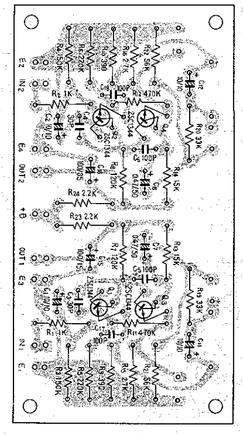
Head amp ass'y W21-002



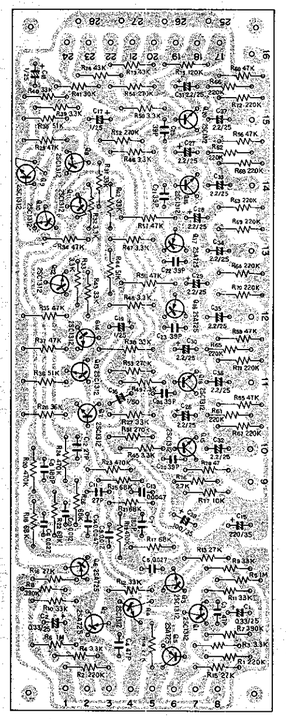
Tone control ass'y AWG-014



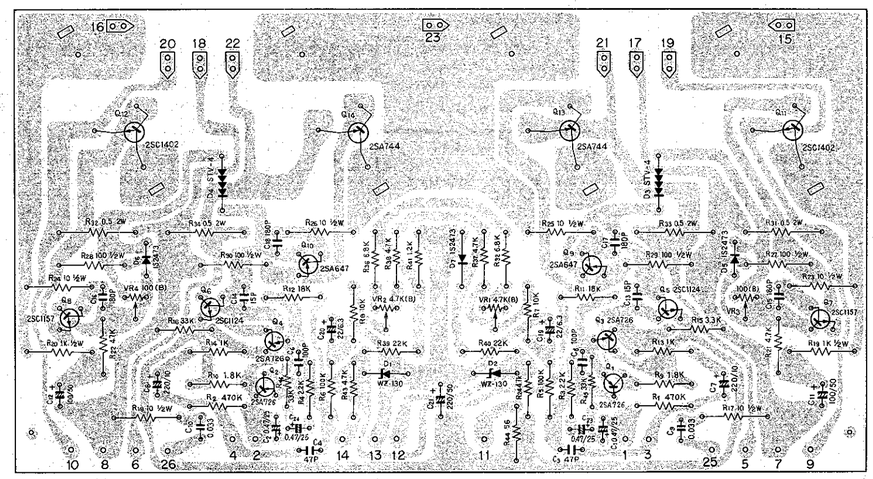
MIC amp ass'y W21-003



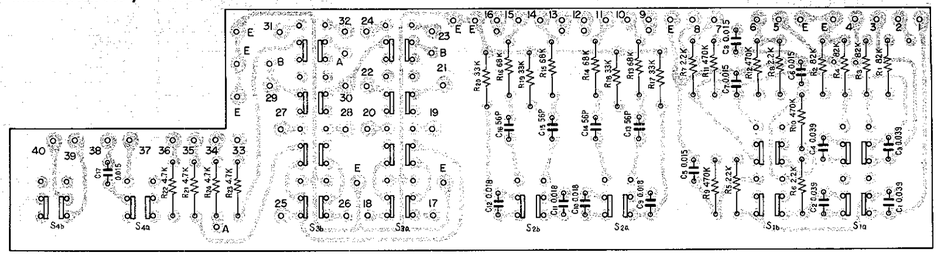
Decoder ass'y AWM-031



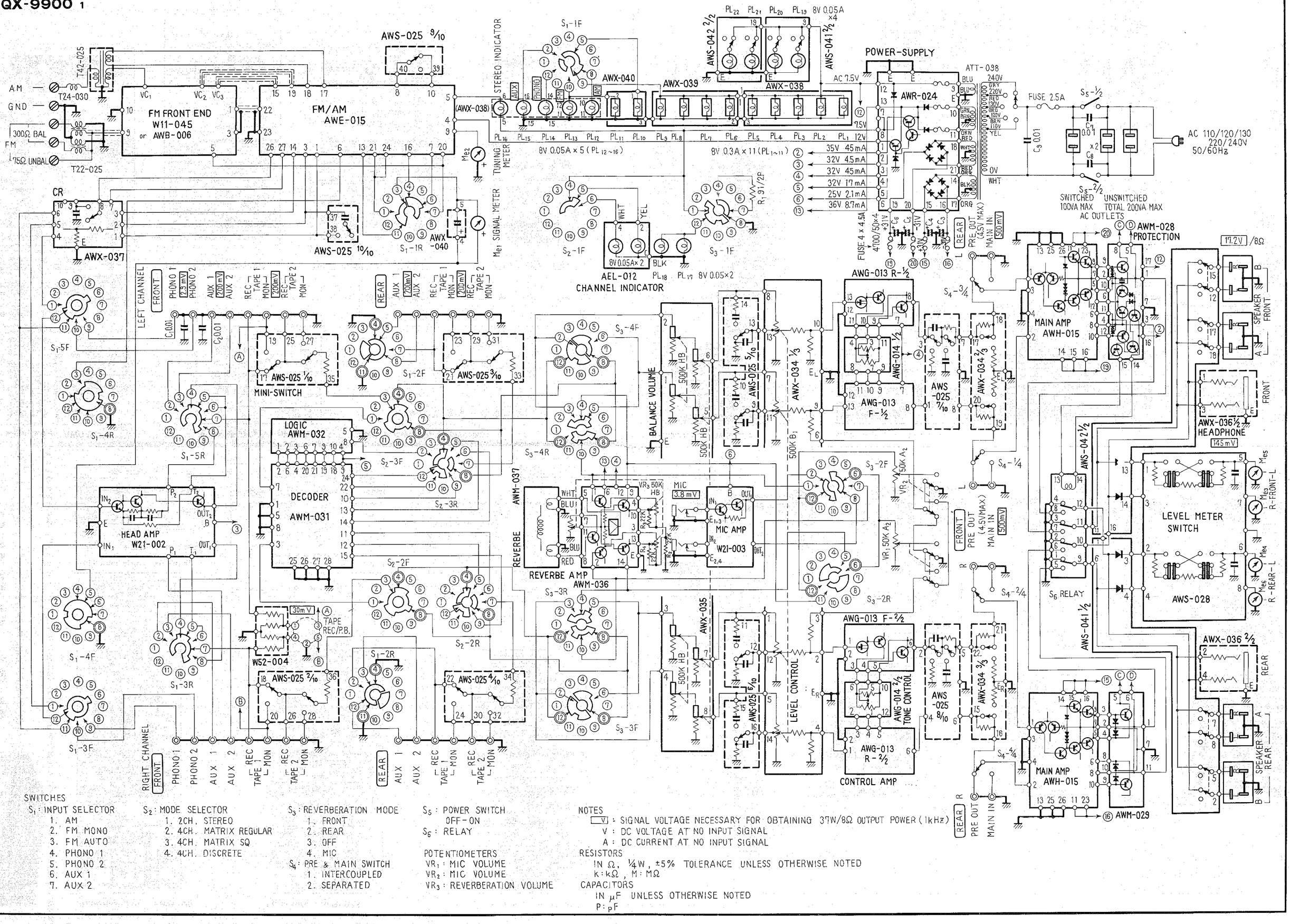
Main amp ass'y AWH-015



Mini switch ass'y AWS-025



QX-9900 1



SWITCHES

S_1 : INPUT SELECTOR
1. AM
2. FM MONO
3. FM AUTO
4. PHONO 1
5. PHONO 2
6. AUX 1
7. AUX 2

S_2 : MODE SELECTOR
1. 2CH. STEREO
2. 4CH. MATRIX REGULAR
3. 4CH. MATRIX SQ
4. 4CH. DISCRETE

S_3 : REVERBERATION MODE
1. FRONT
2. REAR
3. OFF
4. MIC

S_4 : PRE & MAIN SWITCH
1. INTERCOUPLED
2. SEPARATED

S_5 : POWER SWITCH
OFF-ON

S_6 : RELAY

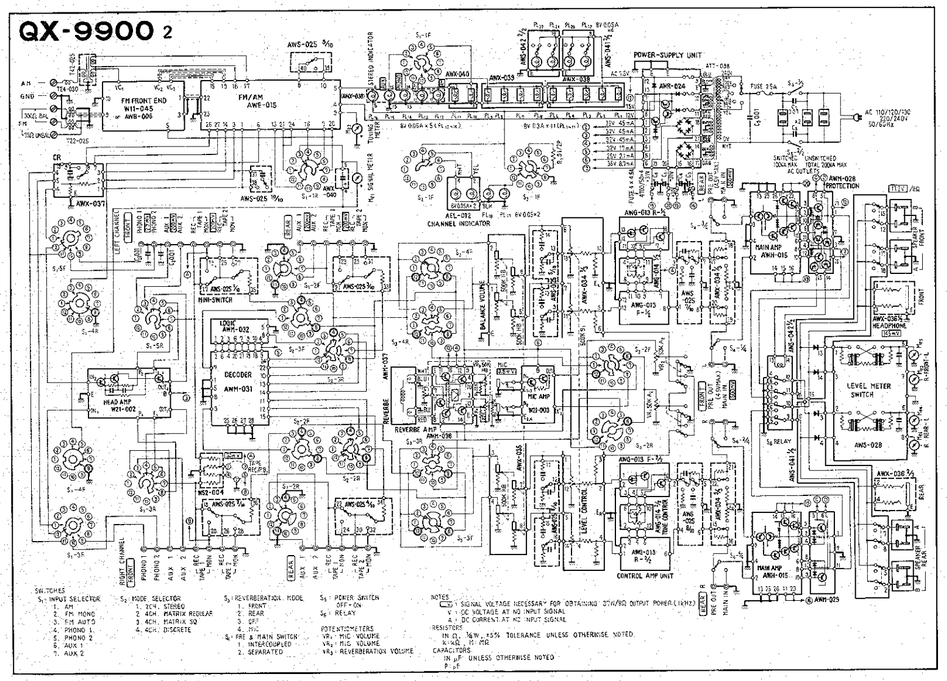
POTENTIOMETERS
VR_1 : MIC VOLUME
VR_2 : MIC VOLUME
VR_3 : REVERBERATION VOLUME

NOTES
[V] : SIGNAL VOLTAGE NECESSARY FOR OBTAINING 37W/8Ω OUTPUT POWER (1kHz)
V : DC VOLTAGE AT NO INPUT SIGNAL
A : DC CURRENT AT NO INPUT SIGNAL

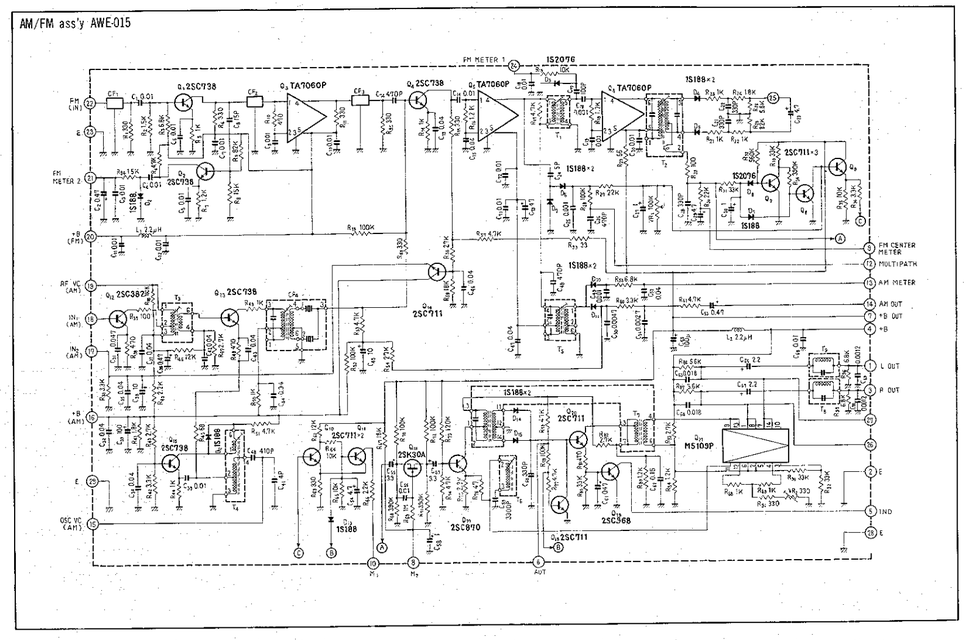
RESISTORS
IN Ω, 1/4W, ±5% TOLERANCE UNLESS OTHERWISE NOTED
k : kΩ, M : MΩ

CAPACITORS
IN μF UNLESS OTHERWISE NOTED
P : pF

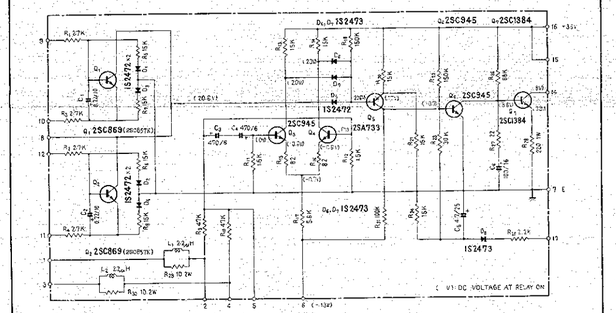
QX-9900 2



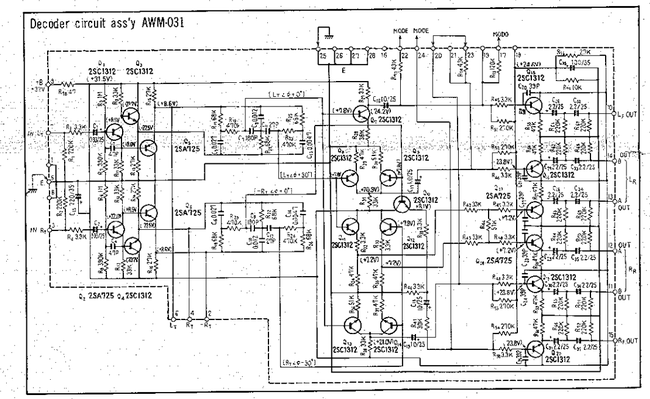
AM/FM ass'y AWE-015



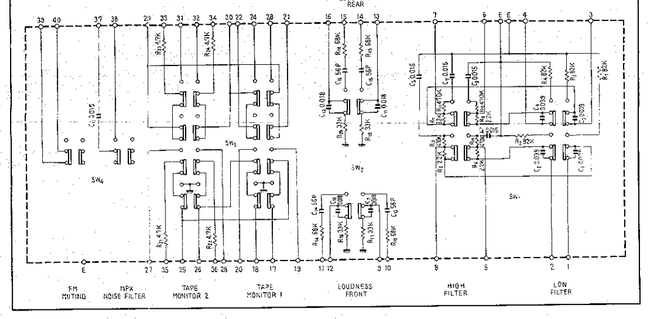
Protection ass'y AWM-028



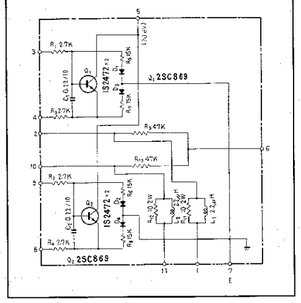
Decoder circuit ass'y AWM-031



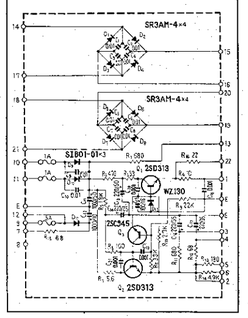
Mini switch ass'y AWS-025



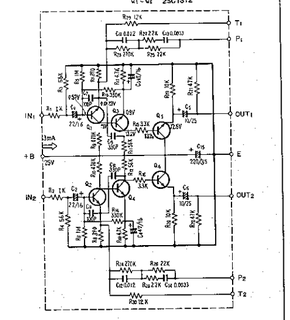
Protection ass'y AWM-029



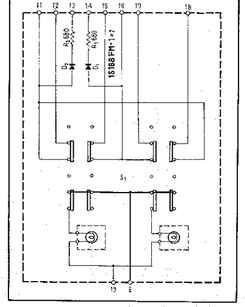
Power supply ass'y AWR-024



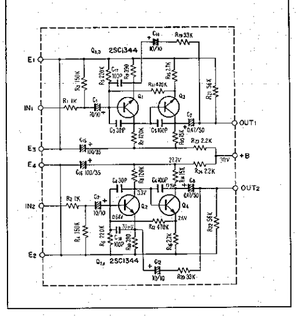
Head amp ass'y W21-002



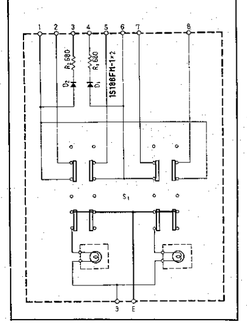
SP switch ass'y B AWS-042



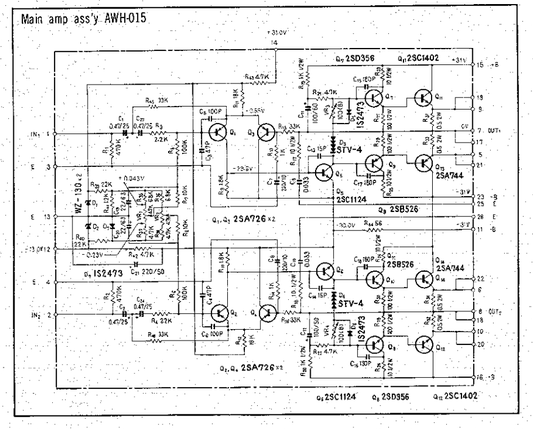
Mic amp ass'y W21-003



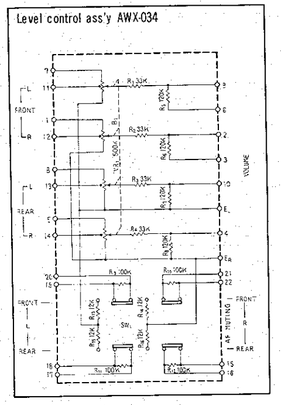
SP switch ass'y A AWS-041



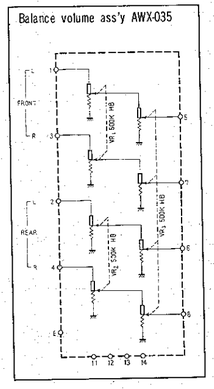
Main amp ass'y AWH-015



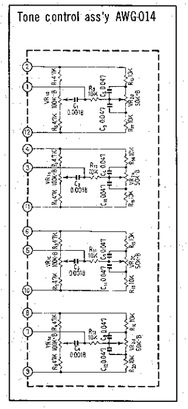
Level control ass'y AWX-034



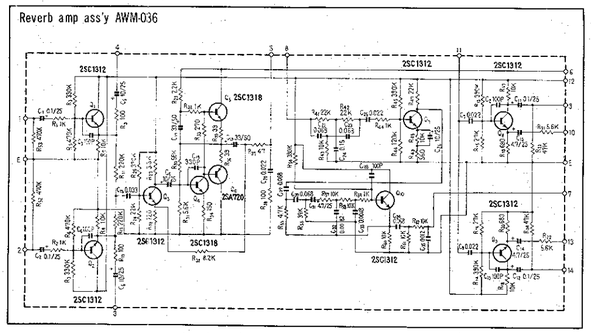
Balance volume ass'y AWX-035



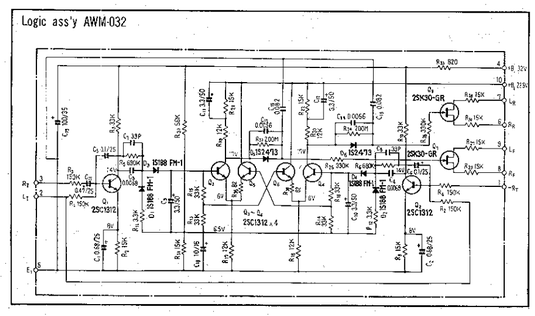
Tone control ass'y AWG-014



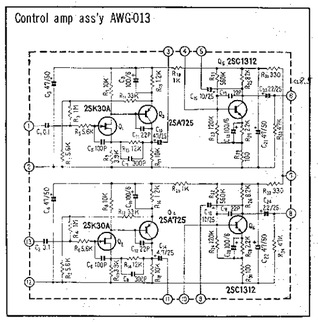
Reverb amp ass'y AWM-036



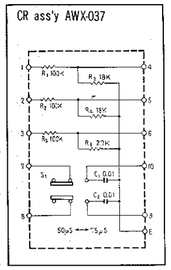
Logic ass'y AWM-032



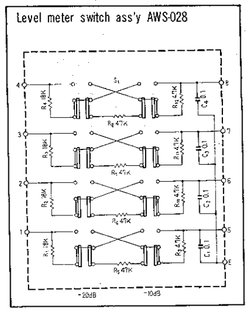
Control amp ass'y AWG-013



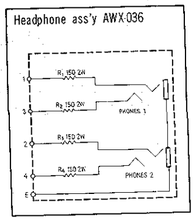
CR ass'y AWX-037



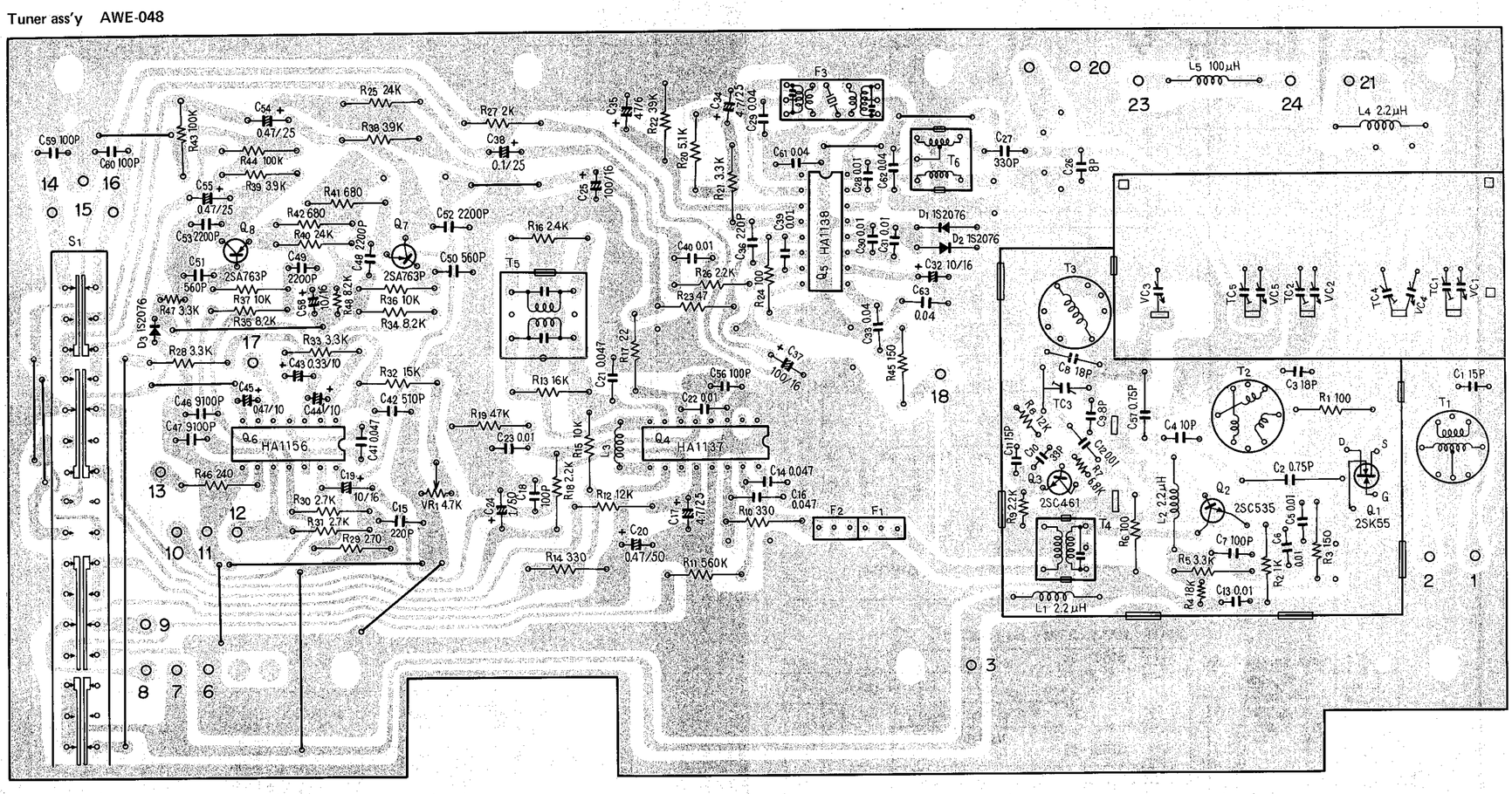
Level meter switch ass'y AWS-028



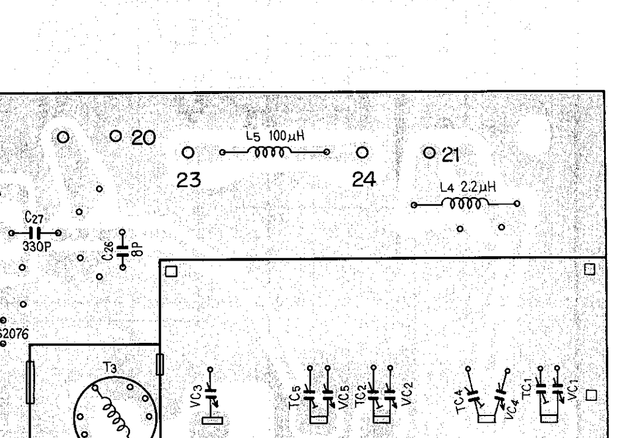
Headphone ass'y AWX-036



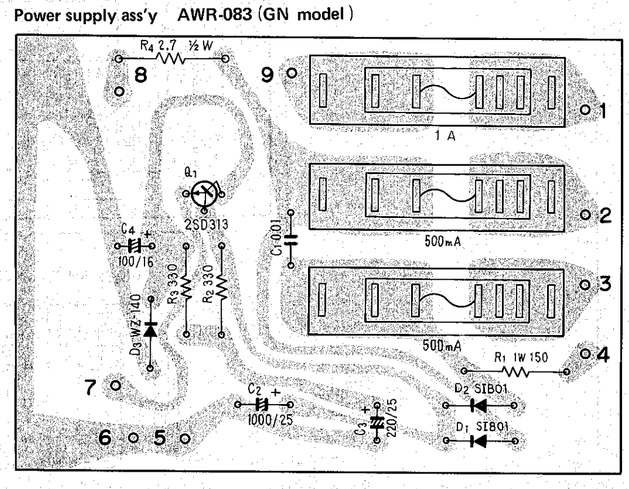
Tuner ass'y AWE-048

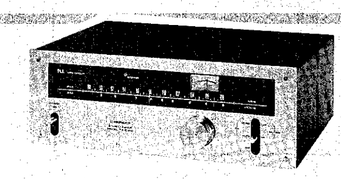


Power supply ass'y AWR-079 (FV model)



Power supply ass'y AWR-083 (GN model)





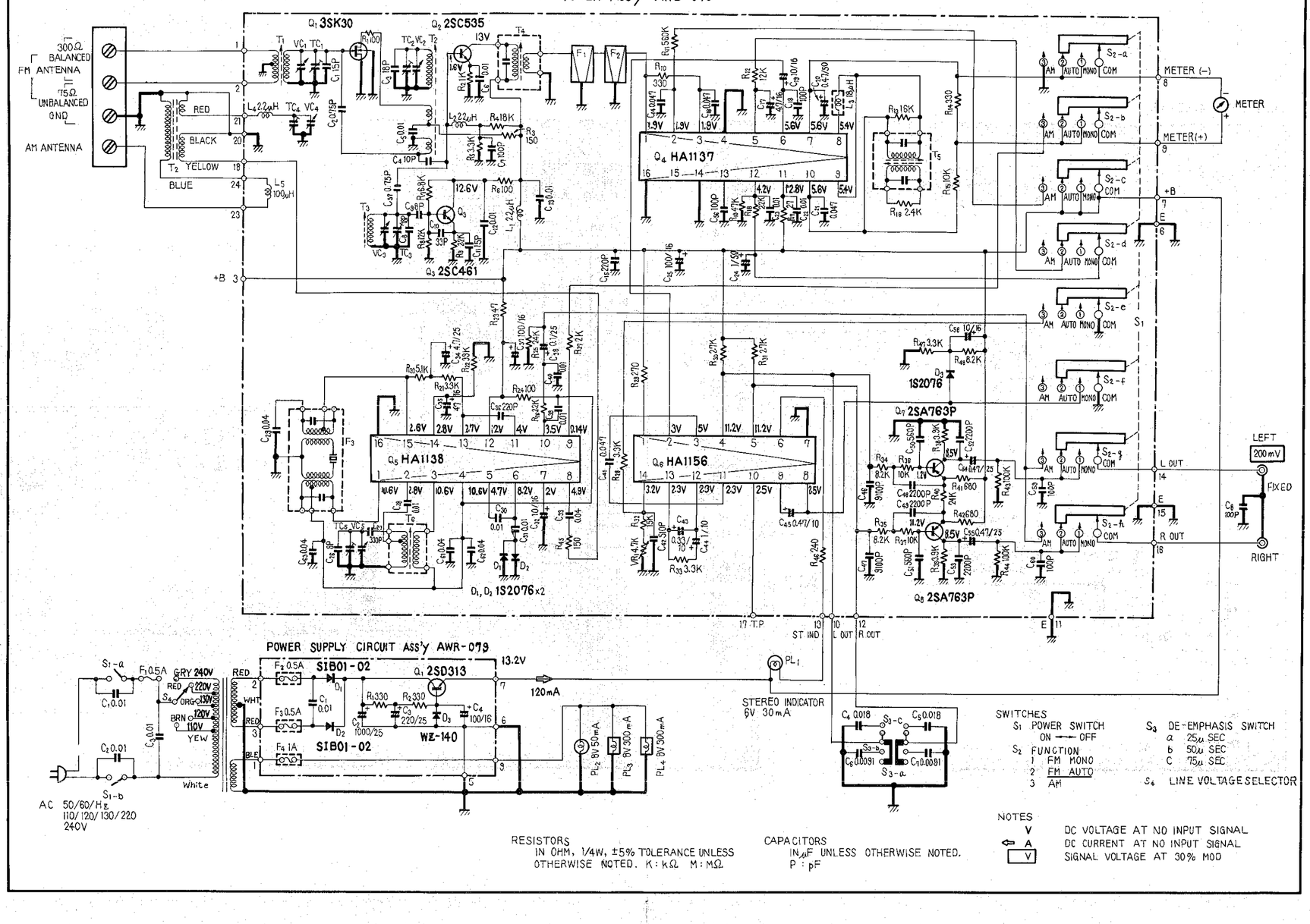
AM/FM STEREO TUNER

TX-5300

FV GN

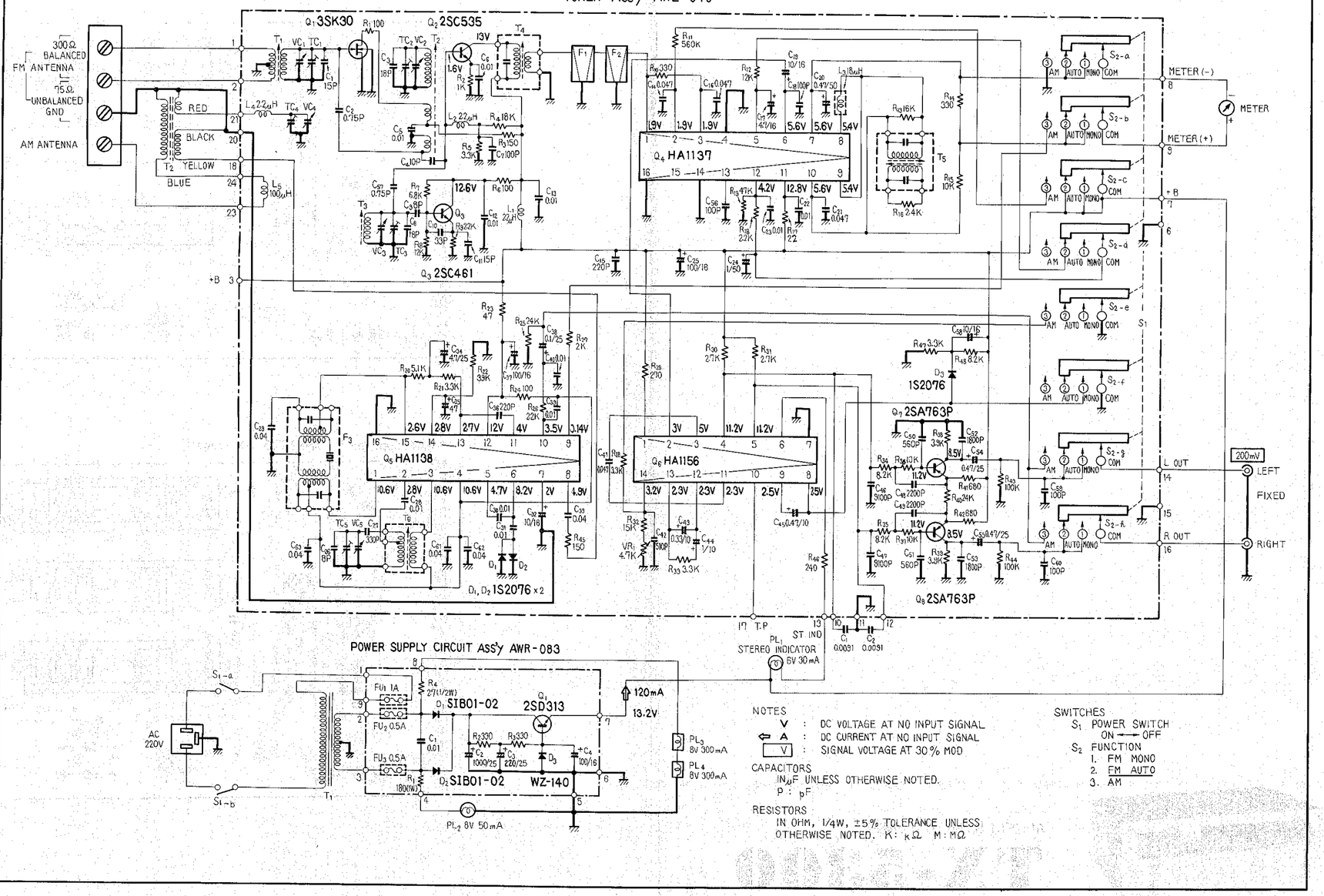
TX-5300 FV model

TUNER ASS'y AWE-048

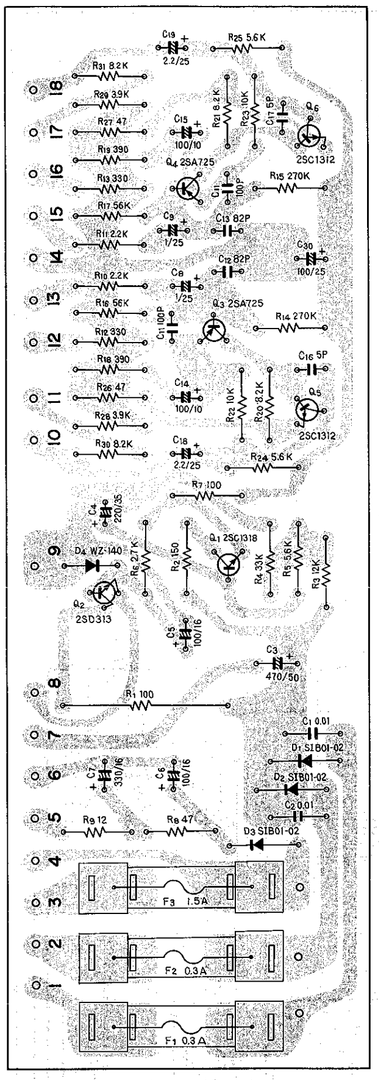


TX-5300 GN model

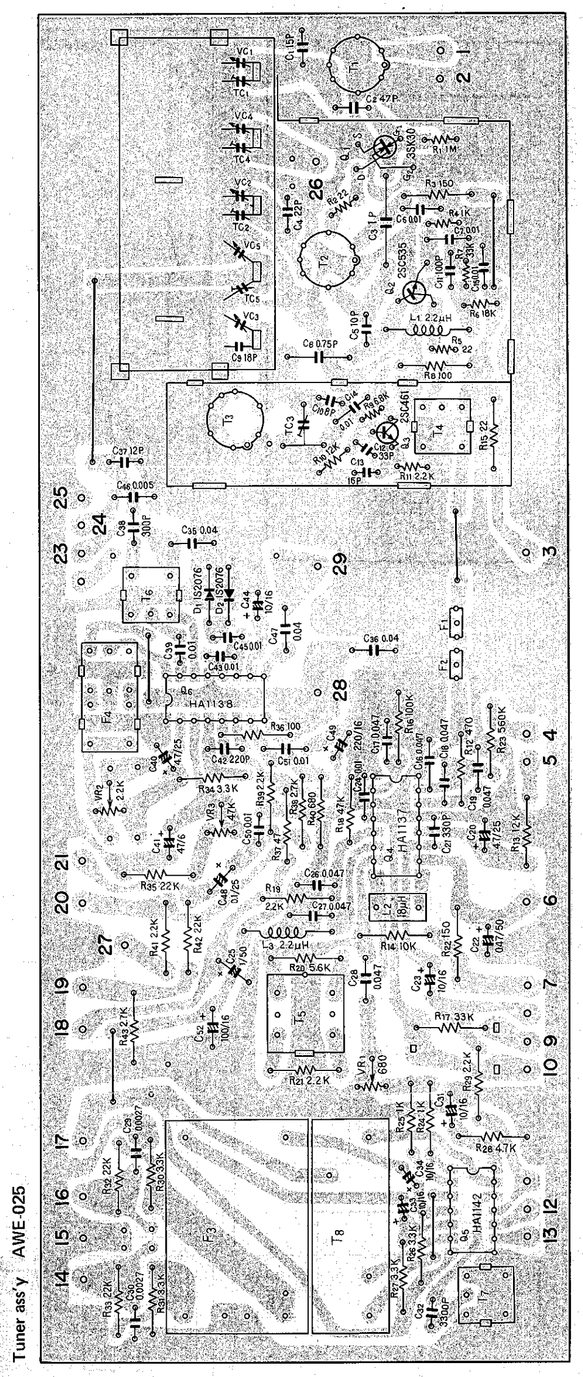
TUNER ASS'y AWE-048

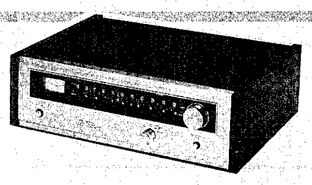


AF amp ass'y AWK-023



Tuner ass'y AWE-025





AM/FM STEREO TUNER

TX-6200

F FVZ KC KU NB

TX-6200

TUNER ASS'y AWE-025

Q1 3SK30 Q2 2SC535 Q3 2SC461 Q4 HA1137 Q5 HA1142 Q6 HA1138

75Ω UNBALANCE
FM
300Ω BALANCE
GND
AM

FM S METER
MULTIPATH
FM TUNING METER
AM SIGNAL METER
S3-1R
S3-2F
S3-2R
VR2 FM R-CH
VR1 AM
L-CH FM
50μS ⟷ 75μS

+B AM
AM METER 2
AM METER 1
AM OUT 2
AM OUT 1
FM +B
MUTING
+B

PUSH OFF
S2
ON
S3-3F
S3-1F
S3-3R
13.5V
(at FM MONO) 75mA ⇦ 55mA (at AM)
STEREO IND LAMP 0.03A 6V

LAMP ASS'y AWX-046
0.1A 8V LAMP x6
DIAL POINTER LAMP

FUSE : 110, 120, 130V ···· 1A
220, 240V ····· 0.5A
AC 110/120/130 220/240V 50/60 Hz 12W
AC OUTLET UNSWITCHED 500W MAX
S1-a S1-b S4 FUSE
240V 220V 130V 120V 110V
0V
GREEN BROWN GREEN BLUE BLUE

Q3, Q4 2SA725 x2
Q5 2SC1312
Q6 2SC1312
AF AMP ASS'y AWK-023
SIB01-02
WZ-140
Q1 2SC1318
Q2 2SD313

580 mV
L-CH FIXED.
R-CH
L-CH OUTPUT
R-CH
1.8 V at VR MAX

120V MODEL

AC 120V 60Hz 12W
AC OUTLET UNSWITCHED 500W MAX
S1 FUSE 1A
C3 0.01
C4 0.01
R4 2.2M
T1 GREEN BROWN GREEN BLUE BLUE WHITE

220V model

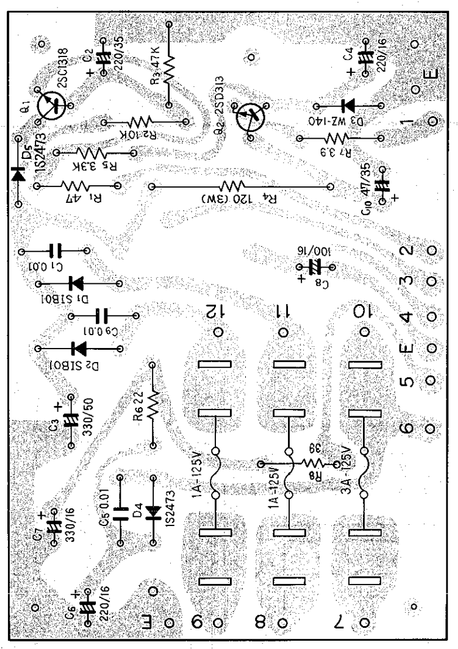
AC 220V 50/60Hz
S1a RED
S1b WHITE

* POWER TRANSFORMER PLIMARY
- 240 V GRAY
- 220 V RED
- 130 V ORANGE
- 120 V BROWN
- 110 V YELLOW
- 0 V WHITE

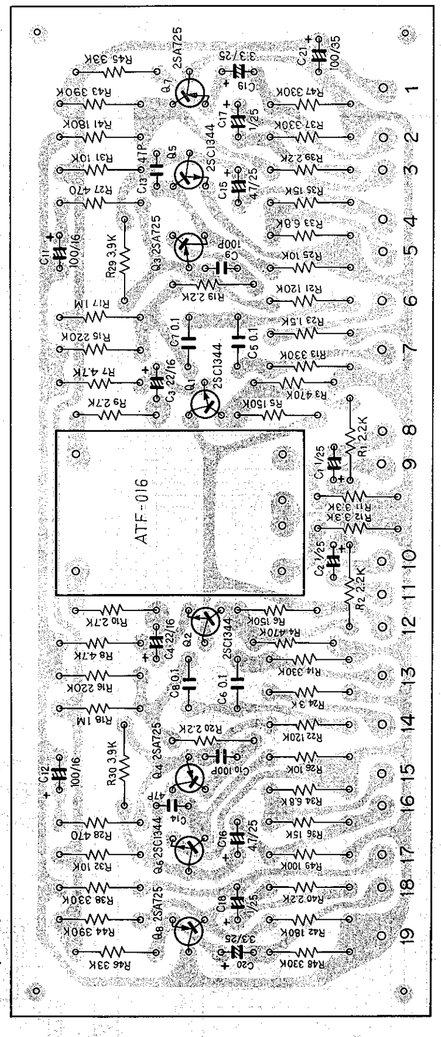
SWITCHES
- S1 POWER SWITCH ON ⟷ OFF
- S2 MUTING OFF ⟷ ON
- S3 FUNCTION
  1. AM
  2. FM AUTO
  3. MPX NOISE FILTER
  4. MONO
- S4 VOLTAGE SELECTOR
- S5 DE-EMPHASIS SWITCH 75μS ⟷ 50μS

NOTES
- ⇦ A. DC CURRENT
- ⬭ V. DC VOLTAGE
- ▭ SIGNAL VOLTAGE AT 100% MOD.

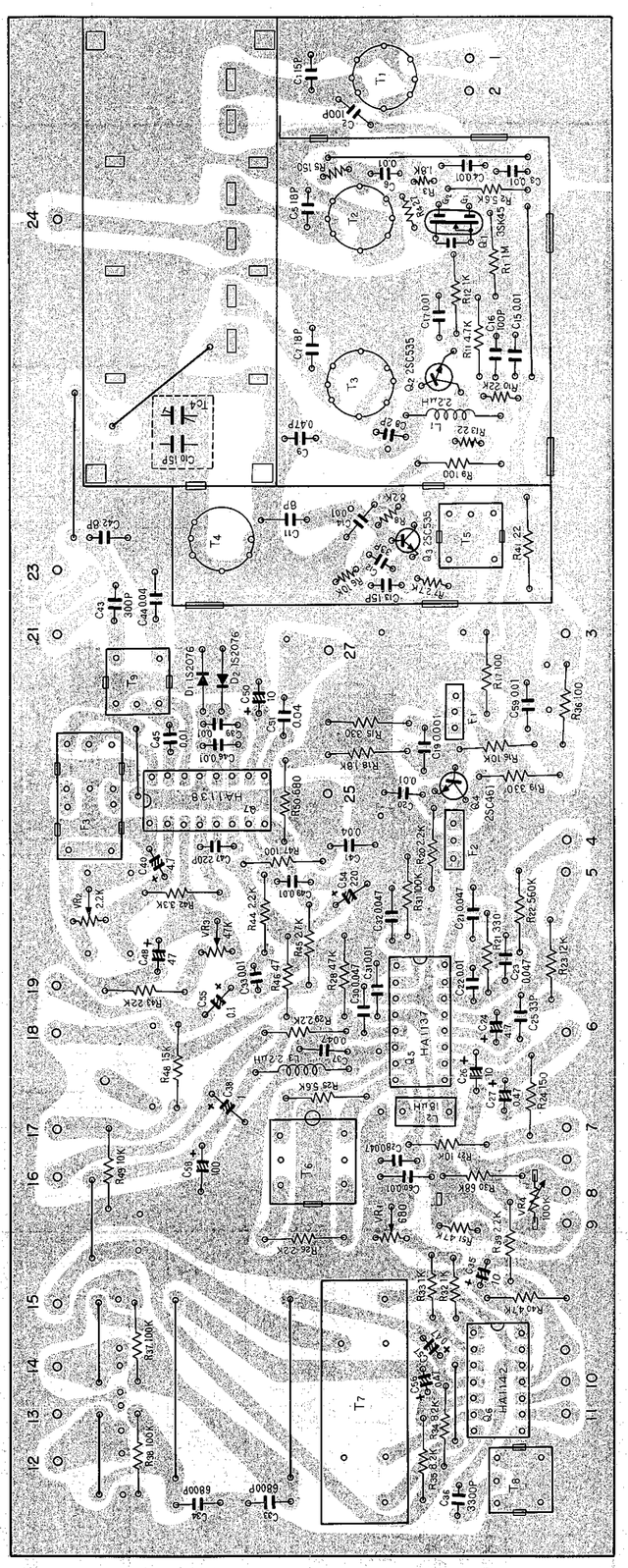
Power supply ass'y AWR-027



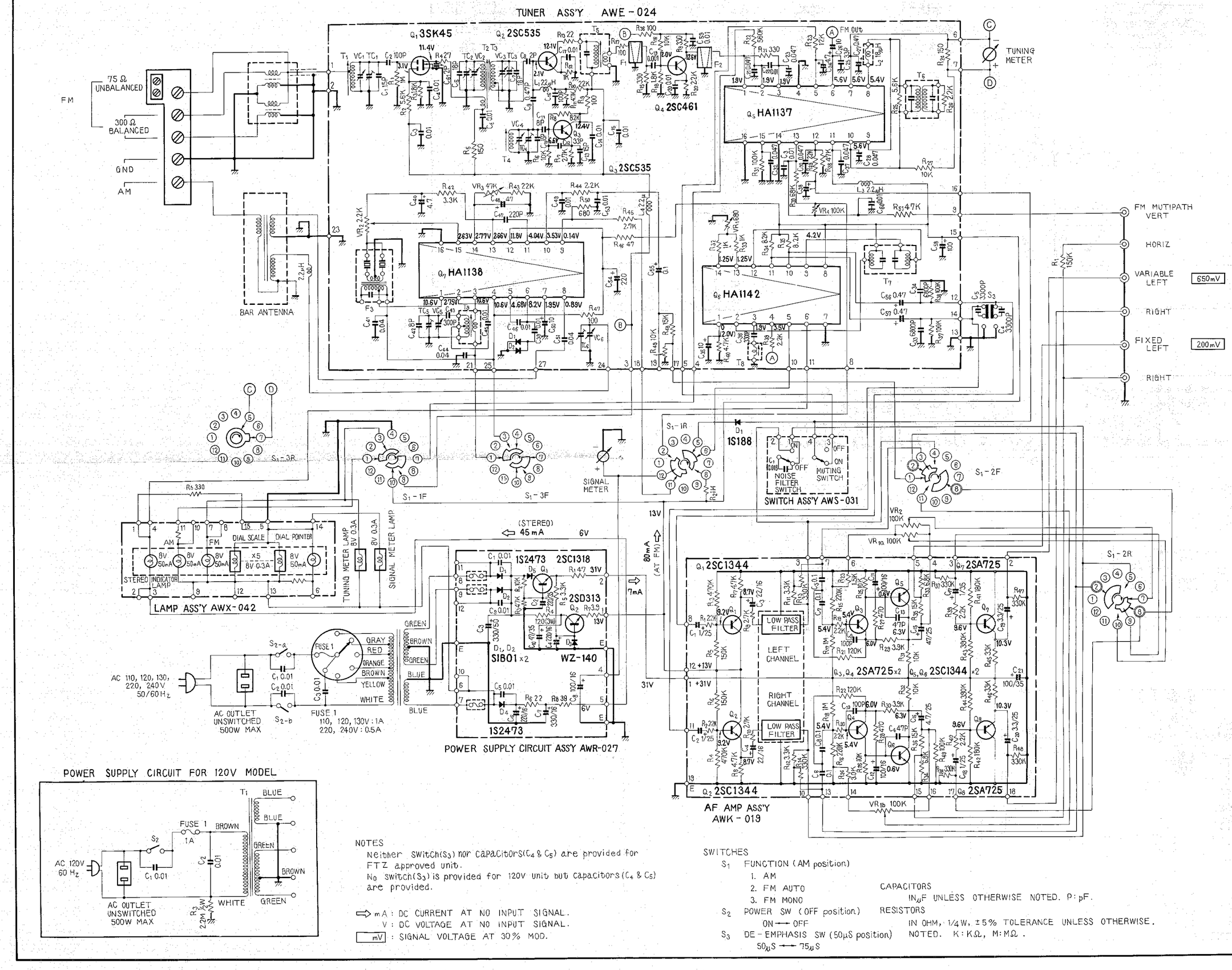
AF amp ass'y AWK-019



Tuner ass'y AWE-024



TX-7100



NOTES

Neither SWitch(S_3) nor CapaCitOrS(C_4 & C_5) are provided for FTZ approved unit.

No SWitch(S_3) is provided for 120V unit but capacitors(C_4 & C_5) are provided.

⇨ mA : DC CURRENT AT NO INPUT SIGNAL.
V : DC VOLTAGE AT NO INPUT SIGNAL.
mV : SIGNAL VOLTAGE AT 30% MOD.

SWITCHES

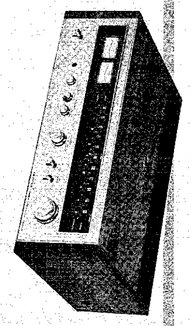
S_1 FUNCTION (AM position)
1. AM
2. FM AUTO
3. FM MONO

S_2 POWER SW (OFF position)
ON ⟷ OFF

S_3 DE-EMPHASIS SW (50μS position)
50μS ⟷ 75μS

CAPACITORS
IN μF UNLESS OTHERWISE NOTED. P: pF.

RESISTORS
IN OHM, 1/4W, ±5% TOLERANCE UNLESS OTHERWISE NOTED. K: KΩ, M: MΩ.

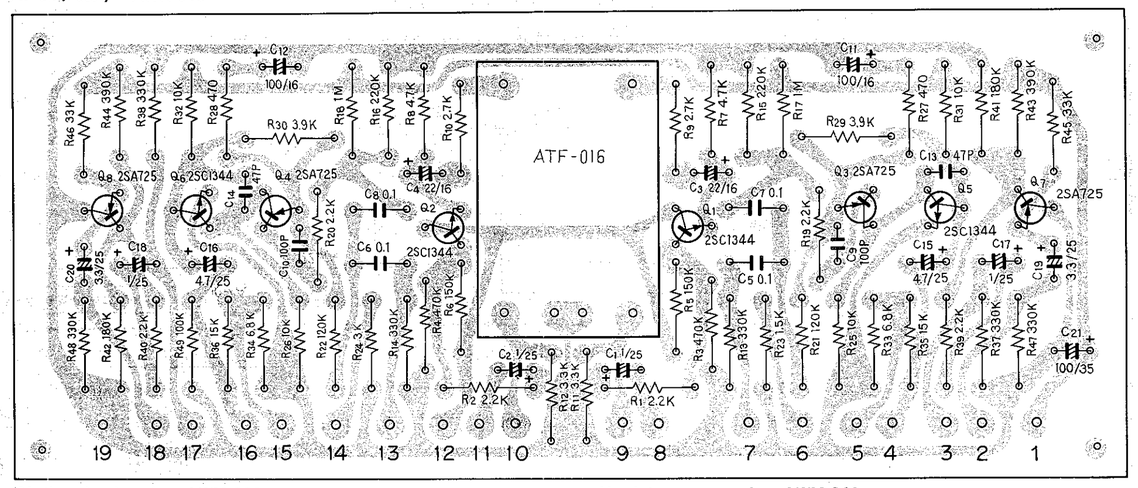


AM/FM STEREO TUNER

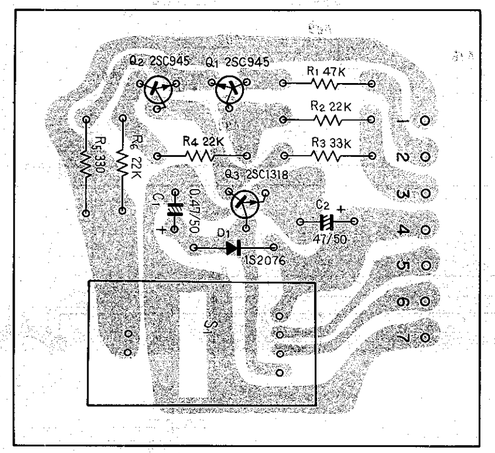
TX-8100

FVZW FW KCW KUW

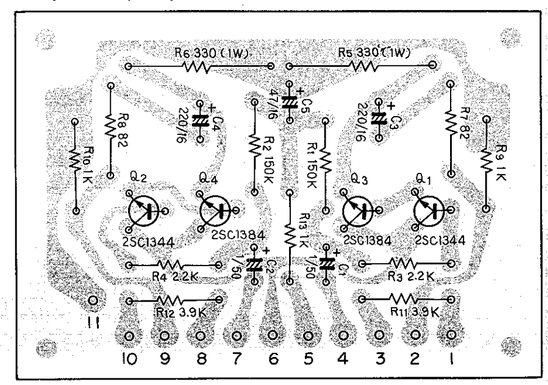
AF amp ass'y AWK-019



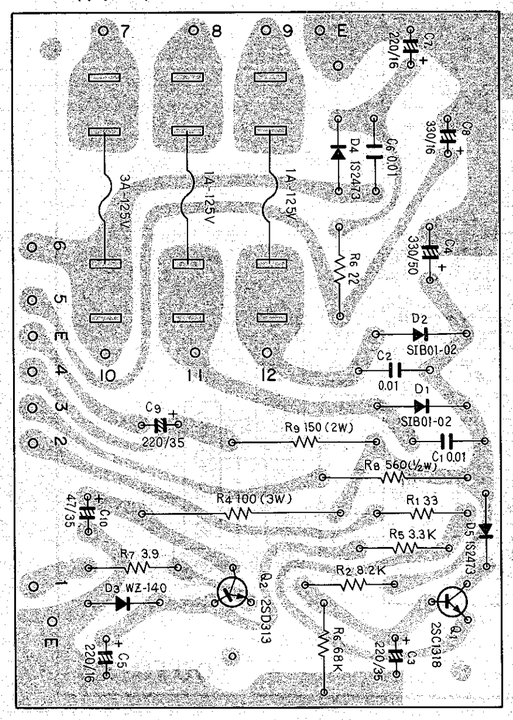
Muting circuit ass'y AWM-039



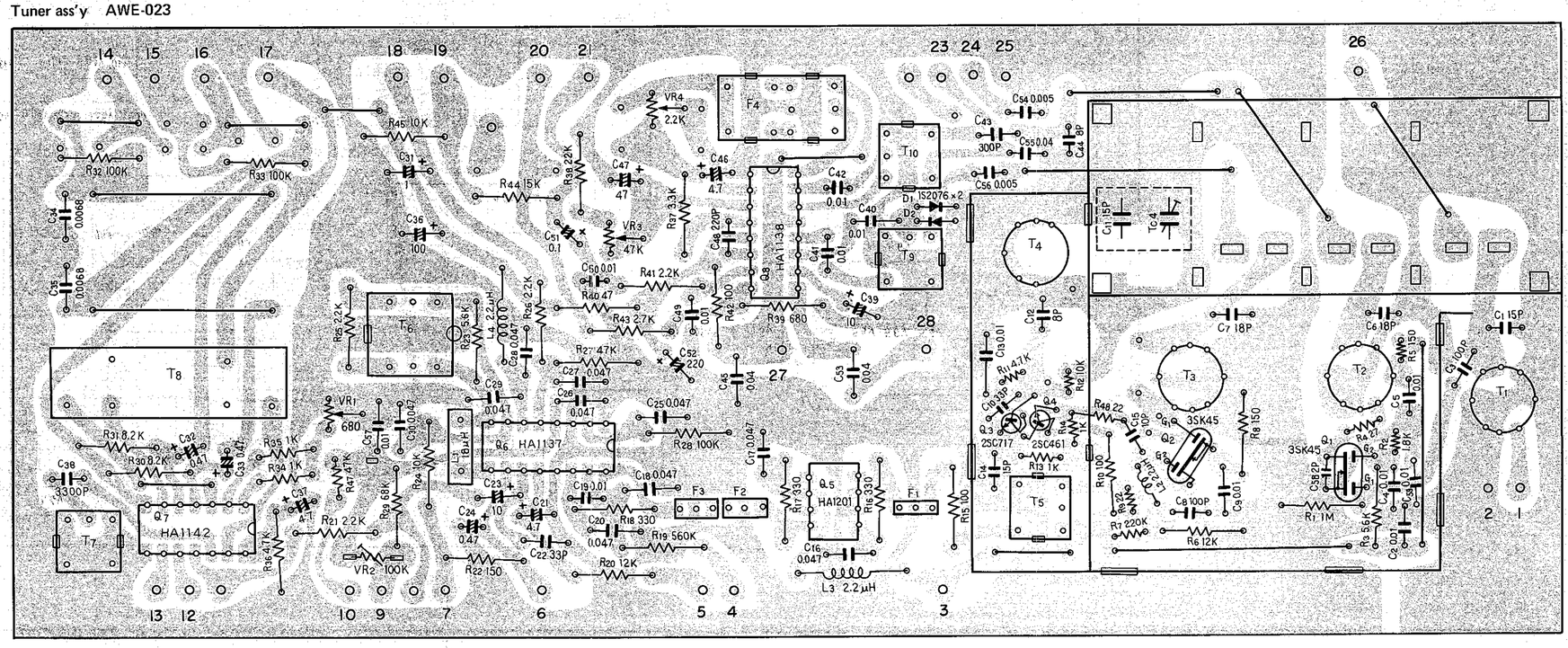
Headphone amp ass'y AWM-041



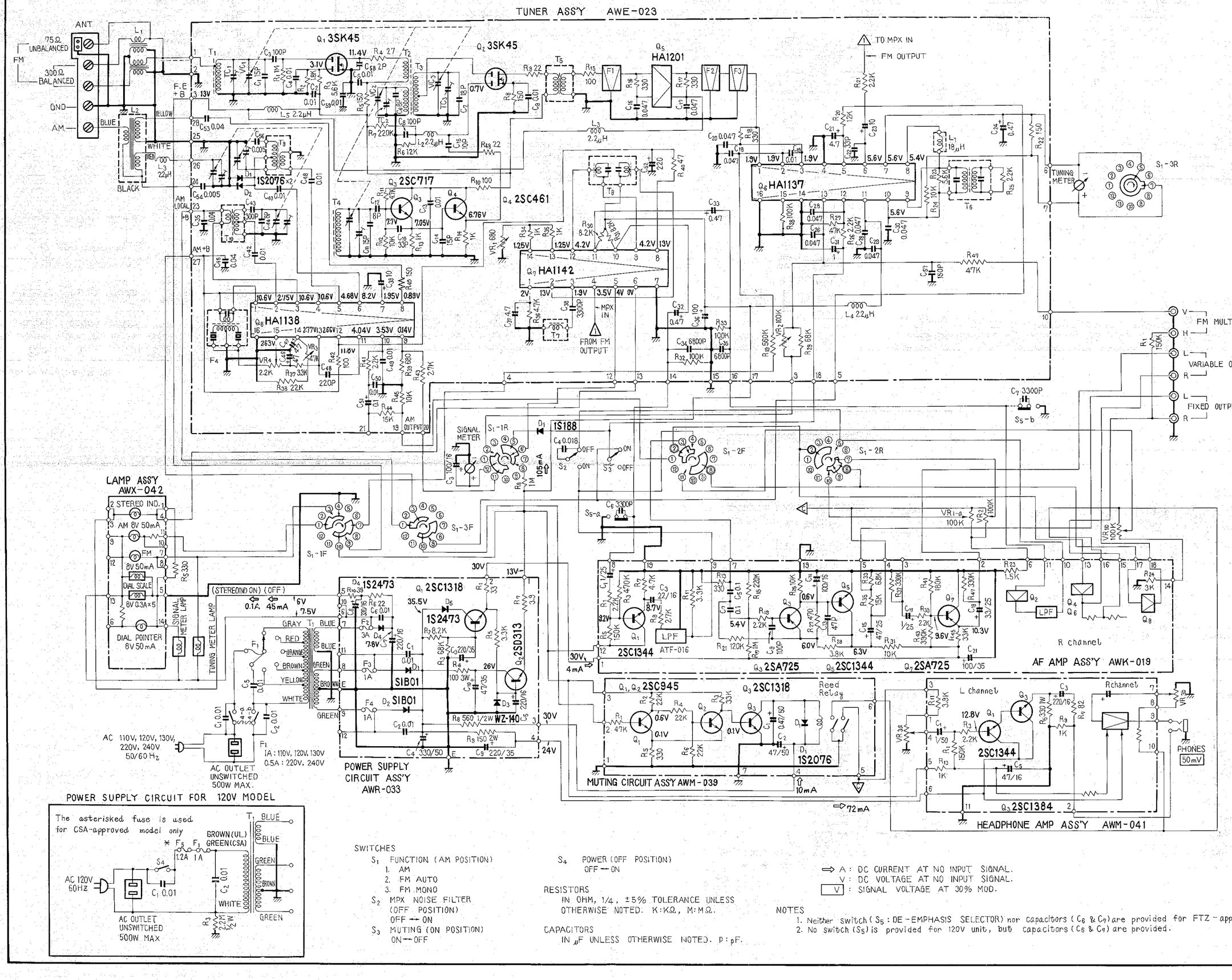
Power supply ass'y AWR-033



Tuner ass'y AWE-023



TX-8100



SWITCHES

- S_1 FUNCTION (AM POSITION)
  1. AM
  2. FM AUTO
  3. FM MONO
- S_2 MPX NOISE FILTER (OFF POSITION) OFF → ON
- S_3 MUTING (ON POSITION) ON → OFF
- S_4 POWER (OFF POSITION) OFF → ON

RESISTORS

IN OHM, 1/4, ±5% TOLERANCE UNLESS OTHERWISE NOTED. K:KΩ, M:MΩ.

CAPACITORS

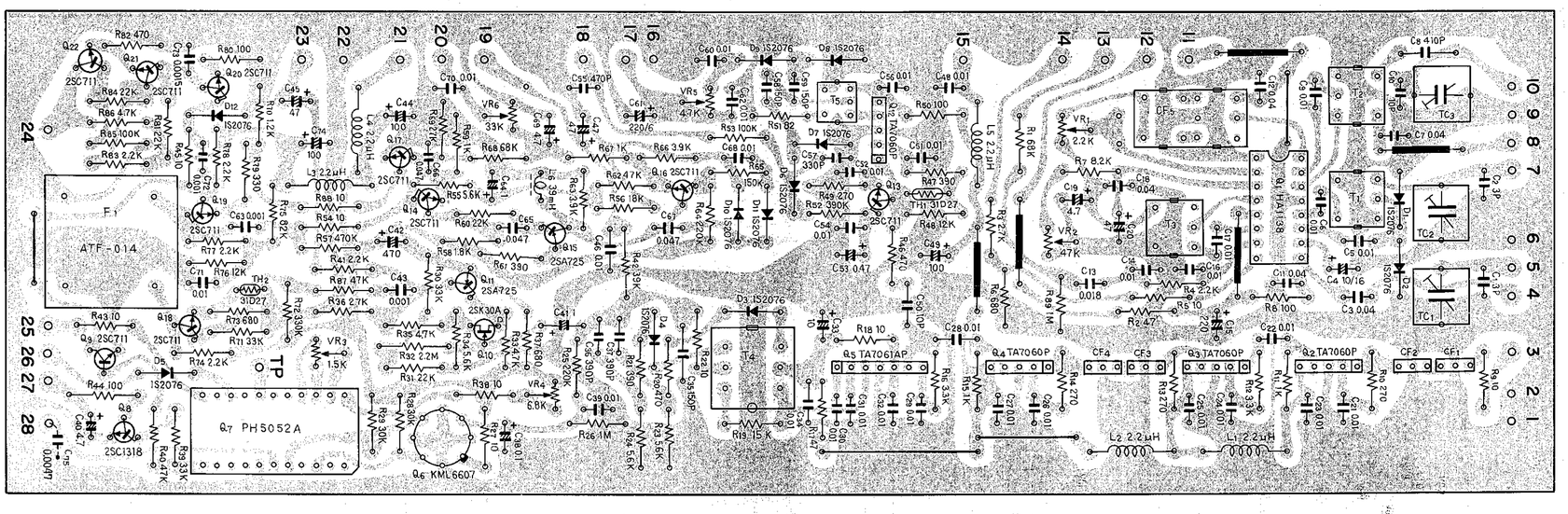
IN μF UNLESS OTHERWISE NOTED. P:pF.

⇨ A : DC CURRENT AT NO INPUT SIGNAL.
V : DC VOLTAGE AT NO INPUT SIGNAL.
[V] : SIGNAL VOLTAGE AT 30% MOD.

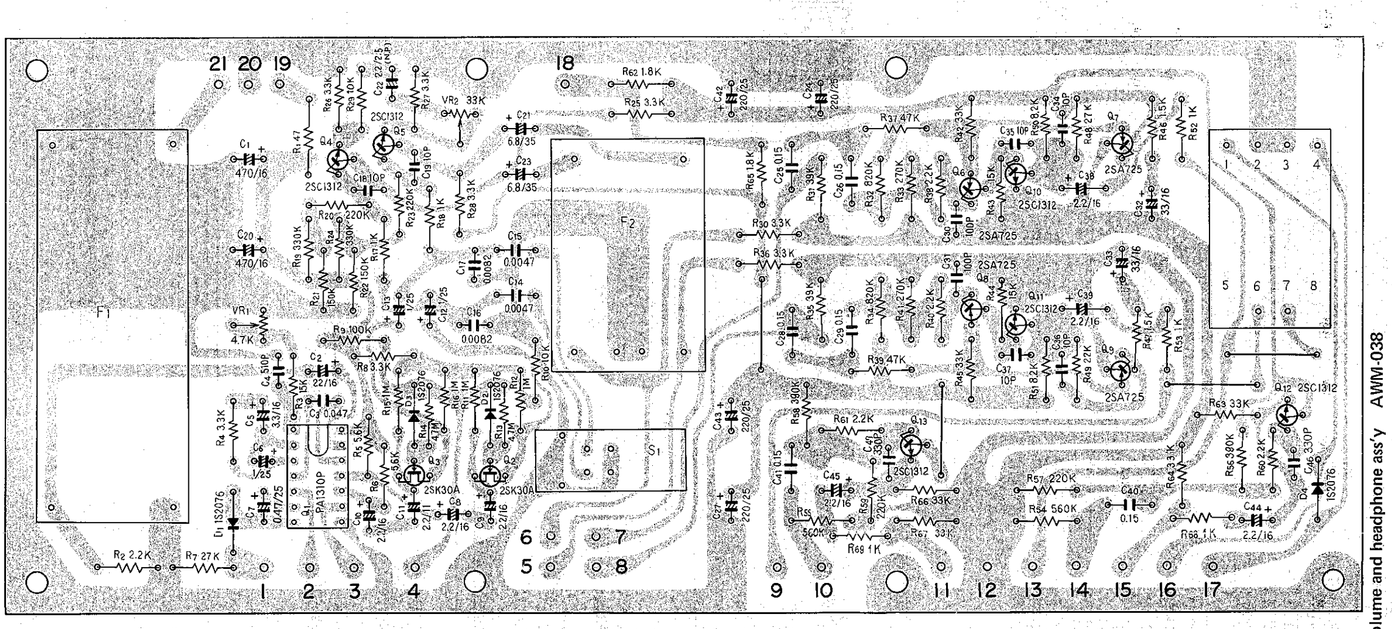
NOTES

1. Neither switch (S_5 : DE-EMPHASIS SELECTOR) nor capacitors (C_6 & C_7) are provided for FTZ-approved unit.
2. No switch (S_5) is provided for 120V unit, but capacitors (C_6 & C_7) are provided.

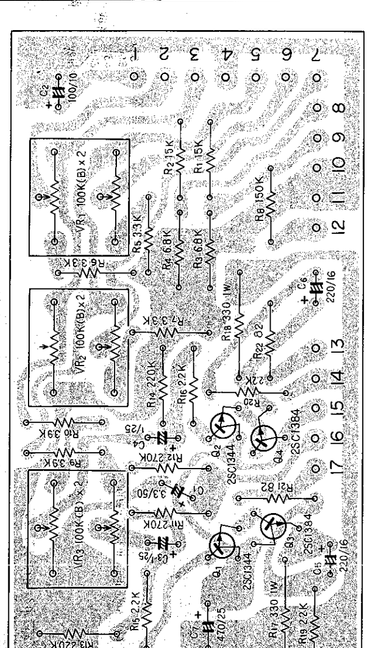
AM, FM IF ass'y AWE-026



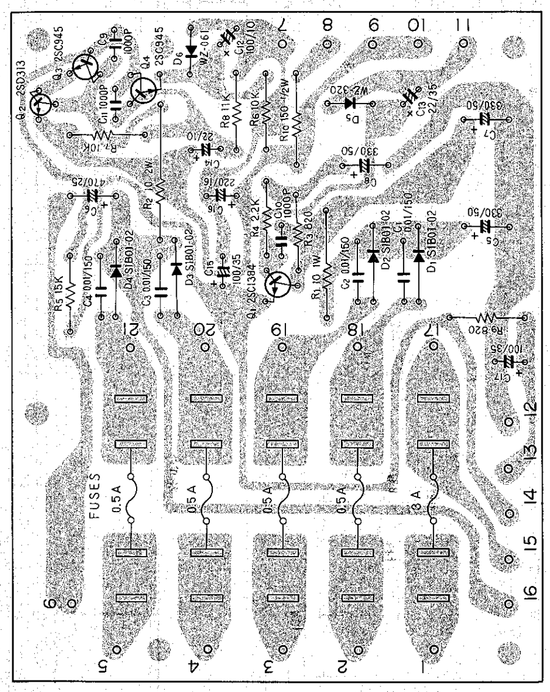
MPX, AF amp ass'y AWD-002



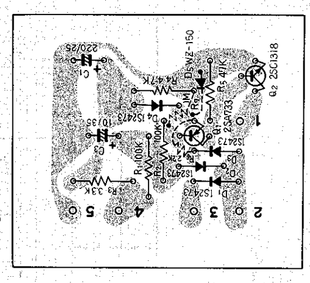
Volume and headphone ass'y AWM-038



Power supply ass'y AWR-028



Muting circuit ass'y AWM-044



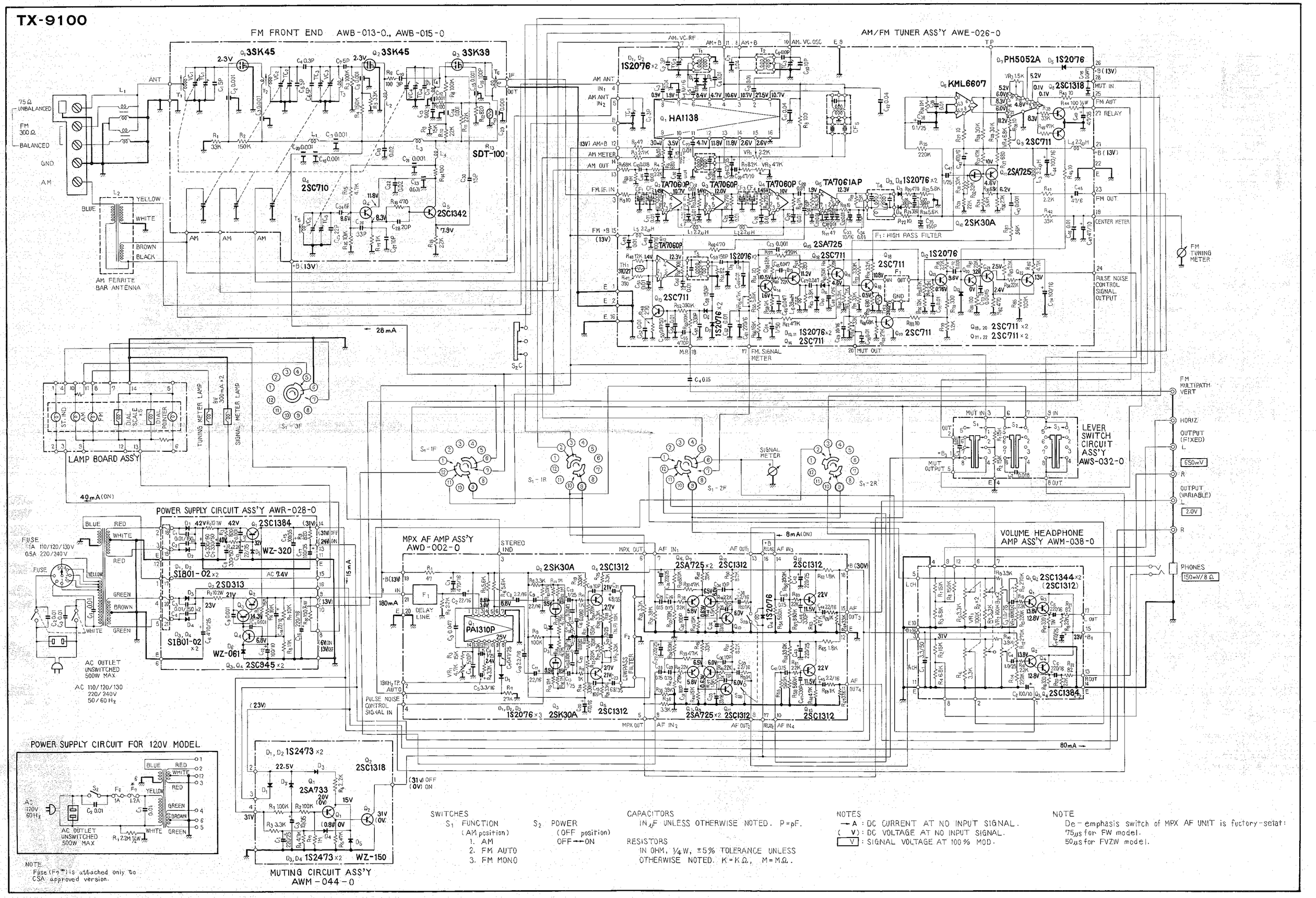


AM/FM STEREO TUNER

TX-9100

FW FVZW KCW KUW

TX-9100



NOTE
Fuse(F1*)is attached only to CSA approved version.

SWITCHES
S_1 FUNCTION (AM position)
1. AM
2. FM AUTO
3. FM MONO

S_2 POWER (OFF position) OFF→ON

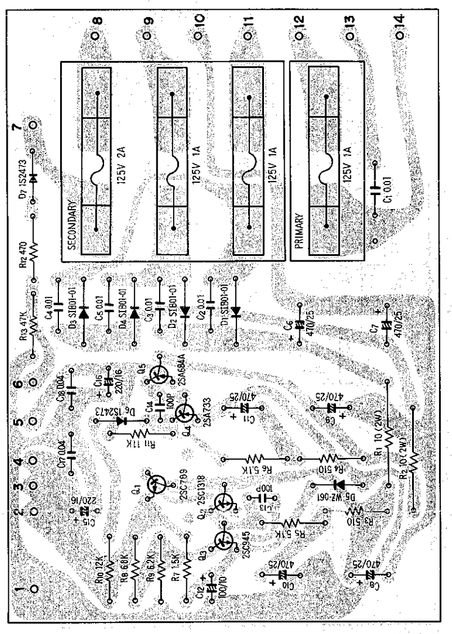
CAPACITORS
IN μF UNLESS OTHERWISE NOTED. P=pF.

RESISTORS
IN OHM, 1/4W, ±5% TOLERANCE UNLESS OTHERWISE NOTED. K=KΩ, M=MΩ.

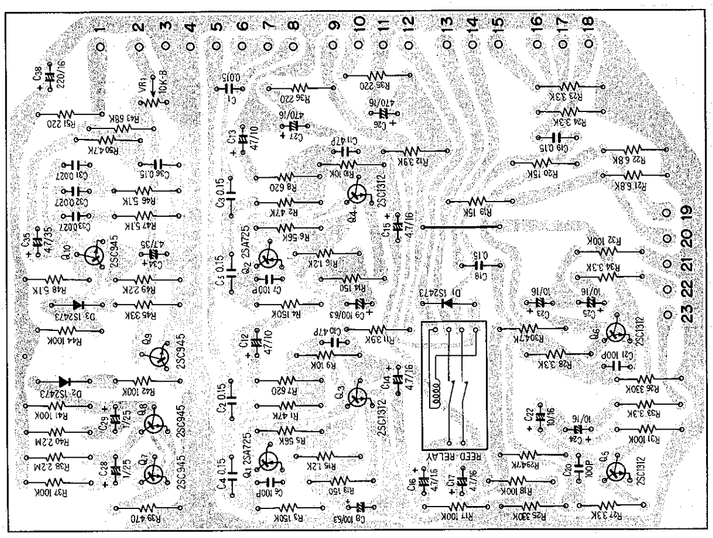
NOTES
→A : DC CURRENT AT NO INPUT SIGNAL.
(V) : DC VOLTAGE AT NO INPUT SIGNAL.
[V] : SIGNAL VOLTAGE AT 100% MOD.

NOTE
De-emphasis switch of MPX AF UNIT is factory-setat:
75μs for FW model.
50μs for FVZW model.

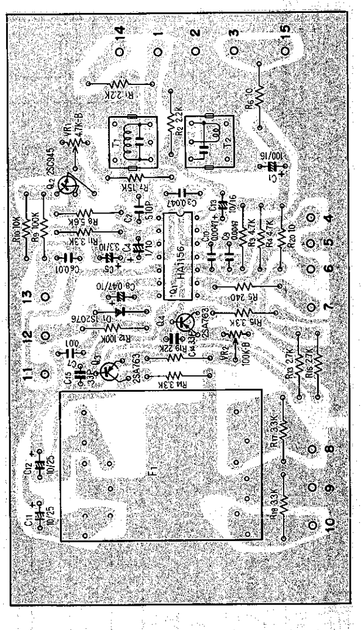
Power supply ass'y AWR-078



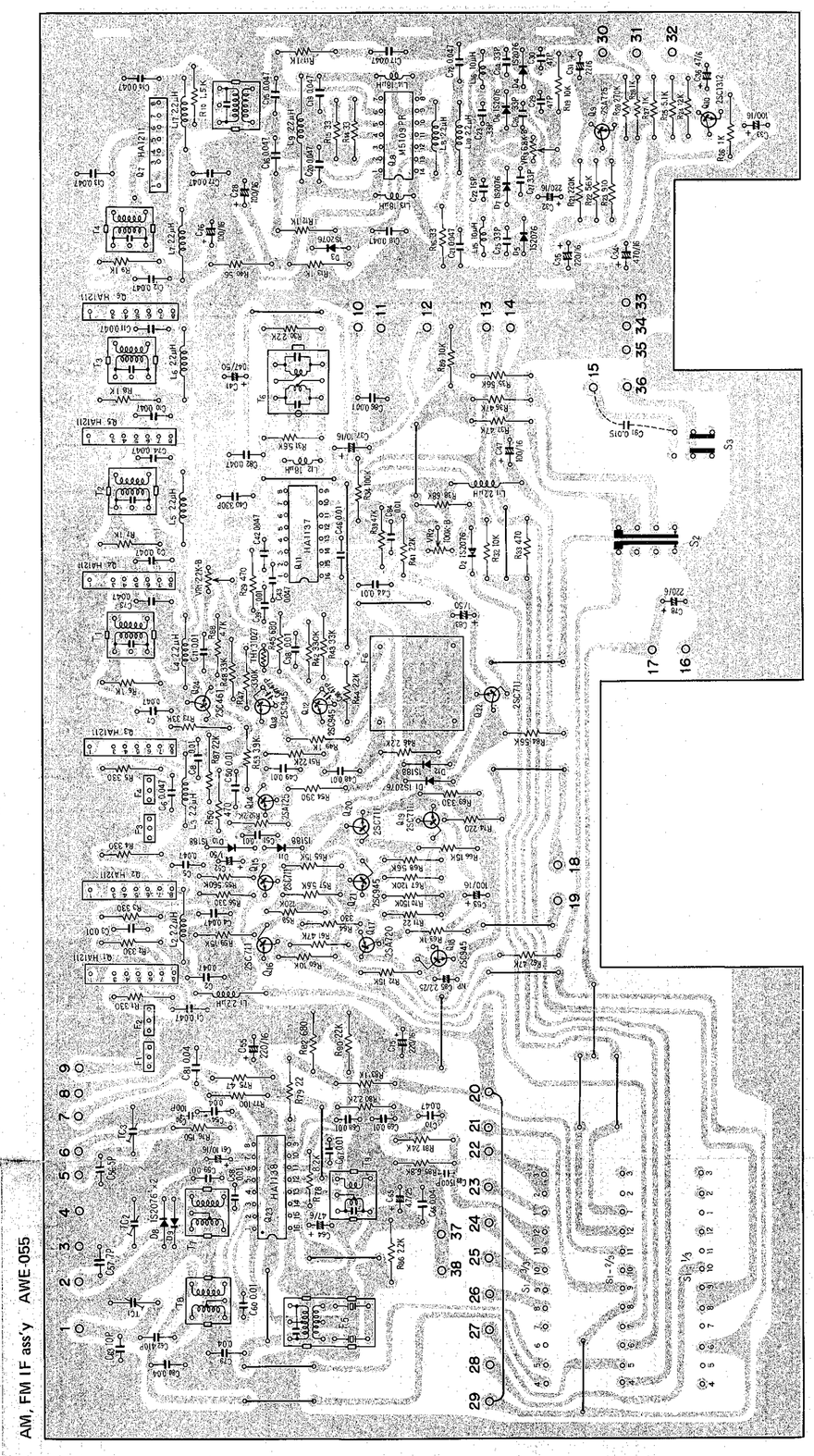
AF amp and OSC ass'y AWK-040

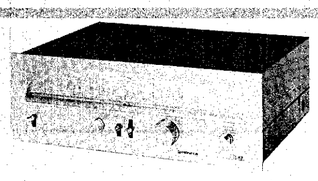


MPX ass'y AWD-005



AM, FM IF ass'y AWE-055



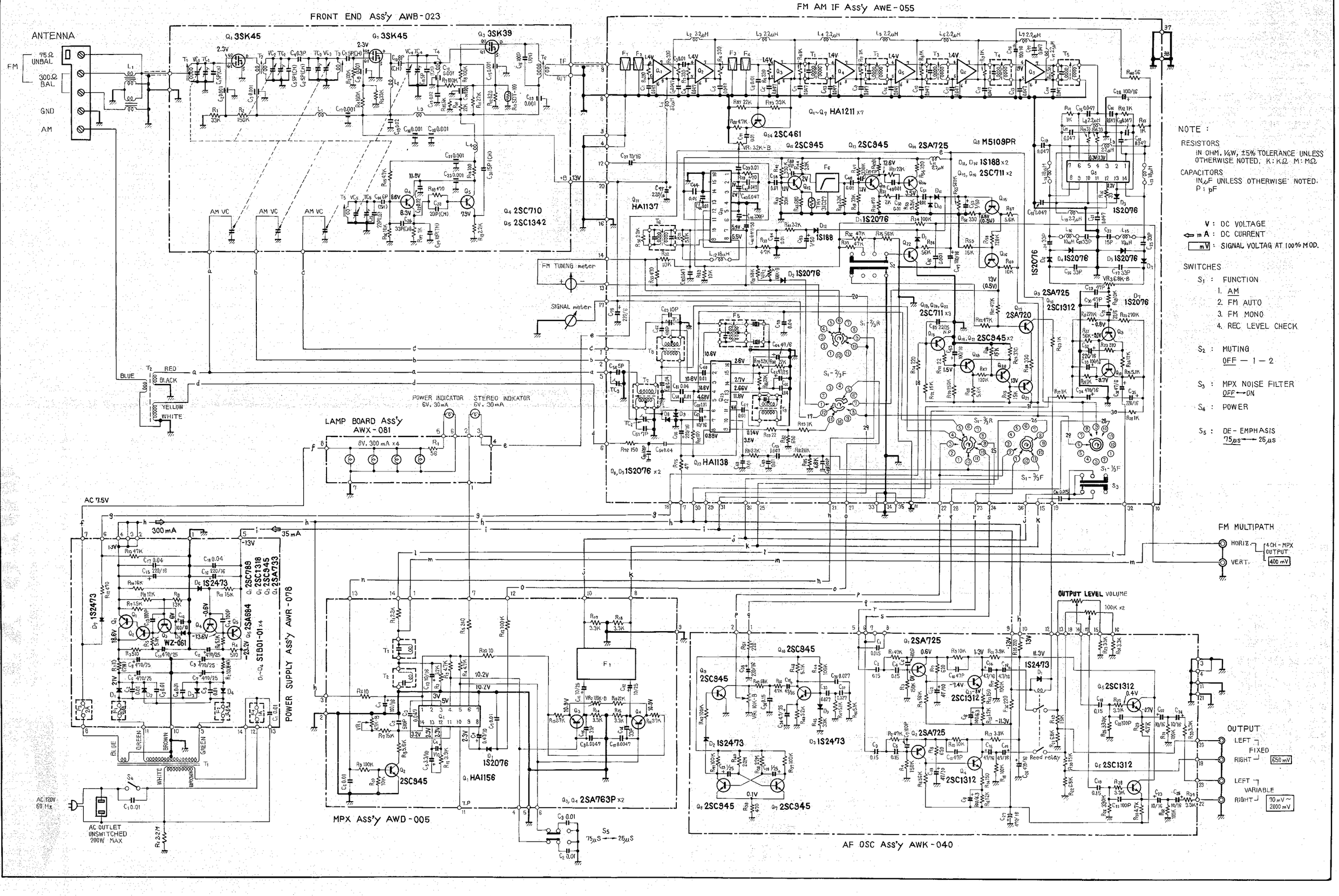


AM/FM STEREO TUNER

TX-9500

KCU

TX-9500


FRONT END Ass'y AWB-023
FM AM IF Ass'y AWE-055
ANTENNA
FM
75Ω UNBAL
300Ω BAL
GND
AM
Q1 3SK45
Q2 3SK45
Q3 3SK39
Q1~Q7 HA1211 x7
Q8 M5109PR
Q9 HA1137
Q10 2SC461
Q11 2SC945
Q12 2SC945
Q13 2SA725
Q4 2SC710
Q5 2SC1342
AM VC
FM TUNING meter
SIGNAL meter
LAMP BOARD Ass'y AWX-081
POWER INDICATOR 6V, 30mA
STEREO INDICATOR 6V, 30mA
6V, 300mA x4
POWER SUPPLY Ass'y AWR-078
WZ-061
AC 7.5V
AC 120V 60Hz
AC OUTLET UNSWITCHED 200W MAX
MPX Ass'y AWD-005
AF OSC Ass'y AWK-040
Q1 HA1156
Q2, Q4 2SA763P x2
Q3 HA1138
Q1 2SA725
Q2 2SA725
Q3 2SA725
Q4 2SC1312
Q5 2SC1312
Q6 2SC1312
Q7 2SC945
Q8 2SC945
Q9 2SC945
Q10 2SC945
Q11, Q12 2SC945 x2
Q13, Q14 2SC711 x3
Q15, Q16 2SC711 x2
Q17 2SA720
Q18 2SC1312
D1~D5 1S2076
D6 1S2473
D7 1S2076
D8, D9 1S2076 x2
D10, D11 1S188 x2
D12 1S188
FM MULTIPATH
HORIZ.
VERT.
4CH-MPX OUTPUT 400mV
OUTPUT LEVEL VOLUME
100K x2
OUTPUT
LEFT FIXED
RIGHT 650mV
LEFT VARIABLE
RIGHT 70mV ~ 2000mV
Reed relay
S1 : FUNCTION
1. AM
2. FM AUTO
3. FM MONO
4. REC LEVEL CHECK
S2 : MUTING
OFF — 1 — 2
S3 : MPX NOISE FILTER
OFF ⟷ ON
S4 : POWER
S5 : DE-EMPHASIS
75μs ⟷ 25μs
NOTE :
RESISTORS
IN OHM, 1/4W, ±5% TOLERANCE UNLESS OTHERWISE NOTED. K : KΩ M : MΩ
CAPACITORS
IN μF UNLESS OTHERWISE NOTED.
P : pF
V : DC VOLTAGE
mA : DC CURRENT
mV : SIGNAL VOLTAG AT 100% MOD.

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