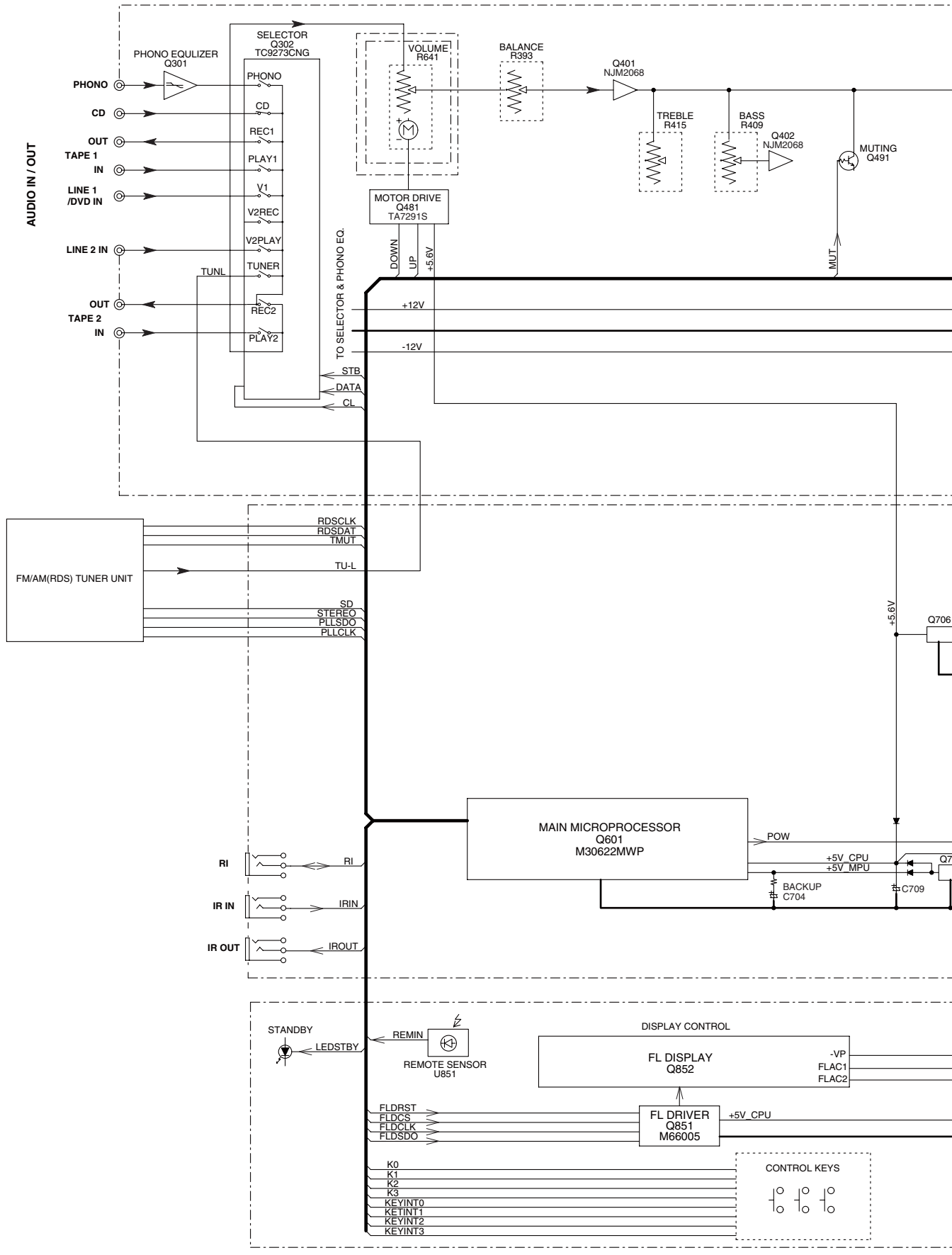
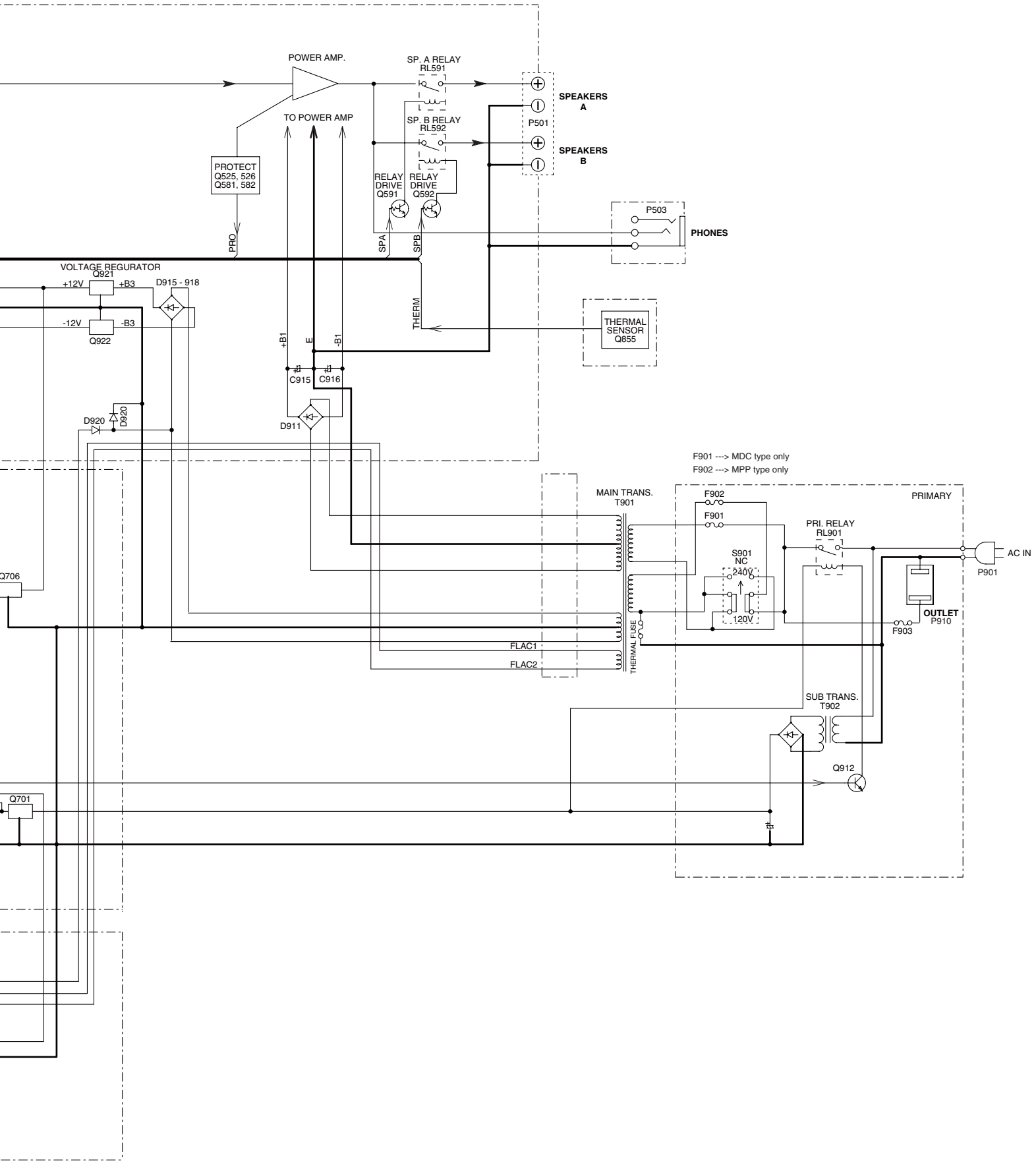
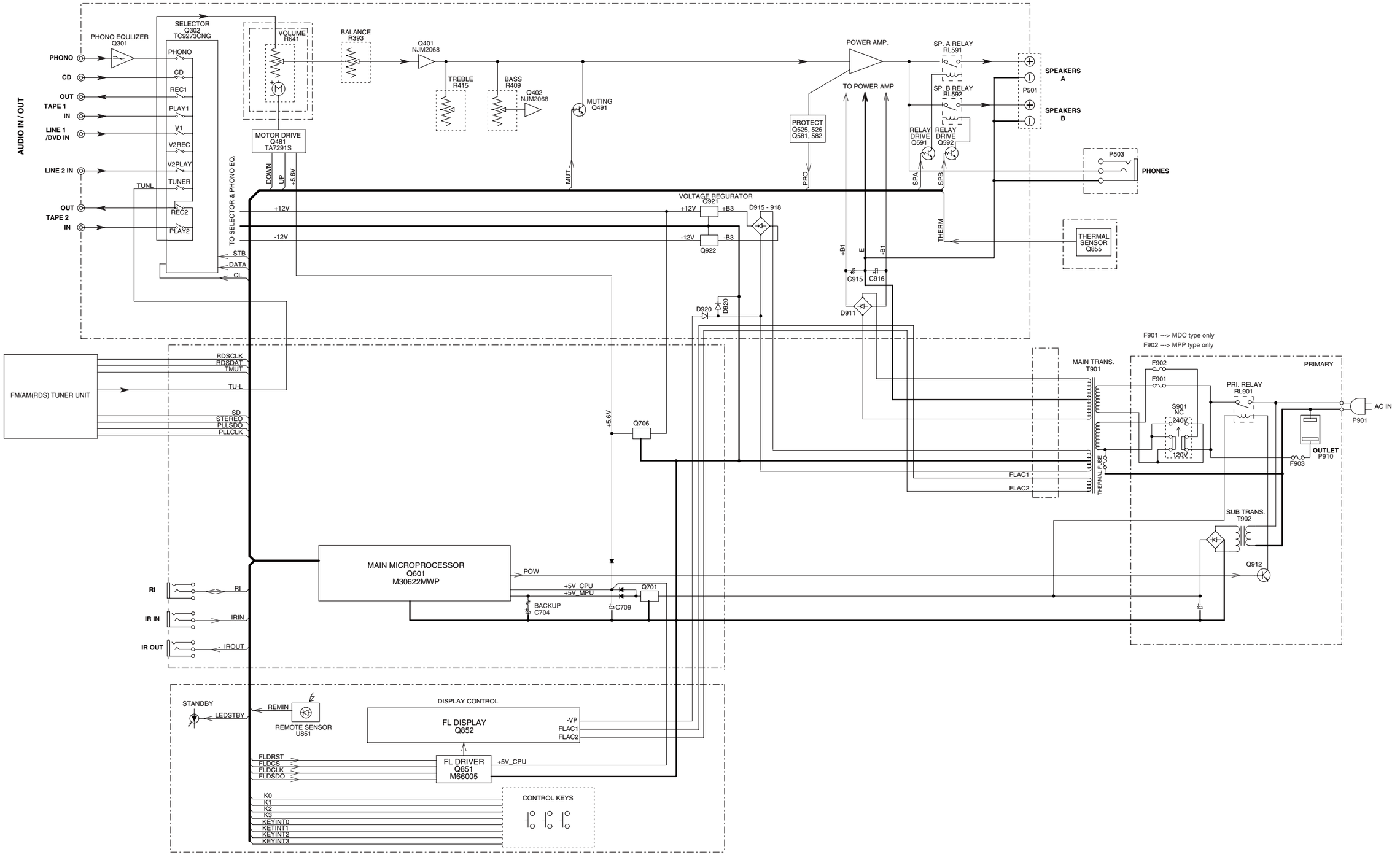
BLOCK DIAGRAM



E F G H


POWER AMP.
SP. A RELAY
RL591
SP. B RELAY
RL592
SPEAKERS
A
SPEAKERS
B
P501
TO POWER AMP
PROTECT
Q525, 526
Q581, 582
RELAY
DRIVE
Q591
RELAY
DRIVE
Q592
P503
PHONES
PRO
SPA
SPB
VOLTAGE REGURATOR
Q921
+12V
+B3
D915 - 918
-12V
-B3
Q922
THERM
THERMAL
SENSOR
Q855
+B1
E
-B1
C915
C916
D911
D920
D920
F901 ---> MDC type only
F902 ---> MPP type only
MAIN TRANS.
T901
F902
F901
PRIMARY
PRI. RELAY
RL901
S901
NC
240V
120V
AC IN
P901
OUTLET
P910
F903
THERMAL FUSE
FLAC1
FLAC2
SUB TRANS.
T902
Q912
Q706
Q701

BLOCK DIAGRAM

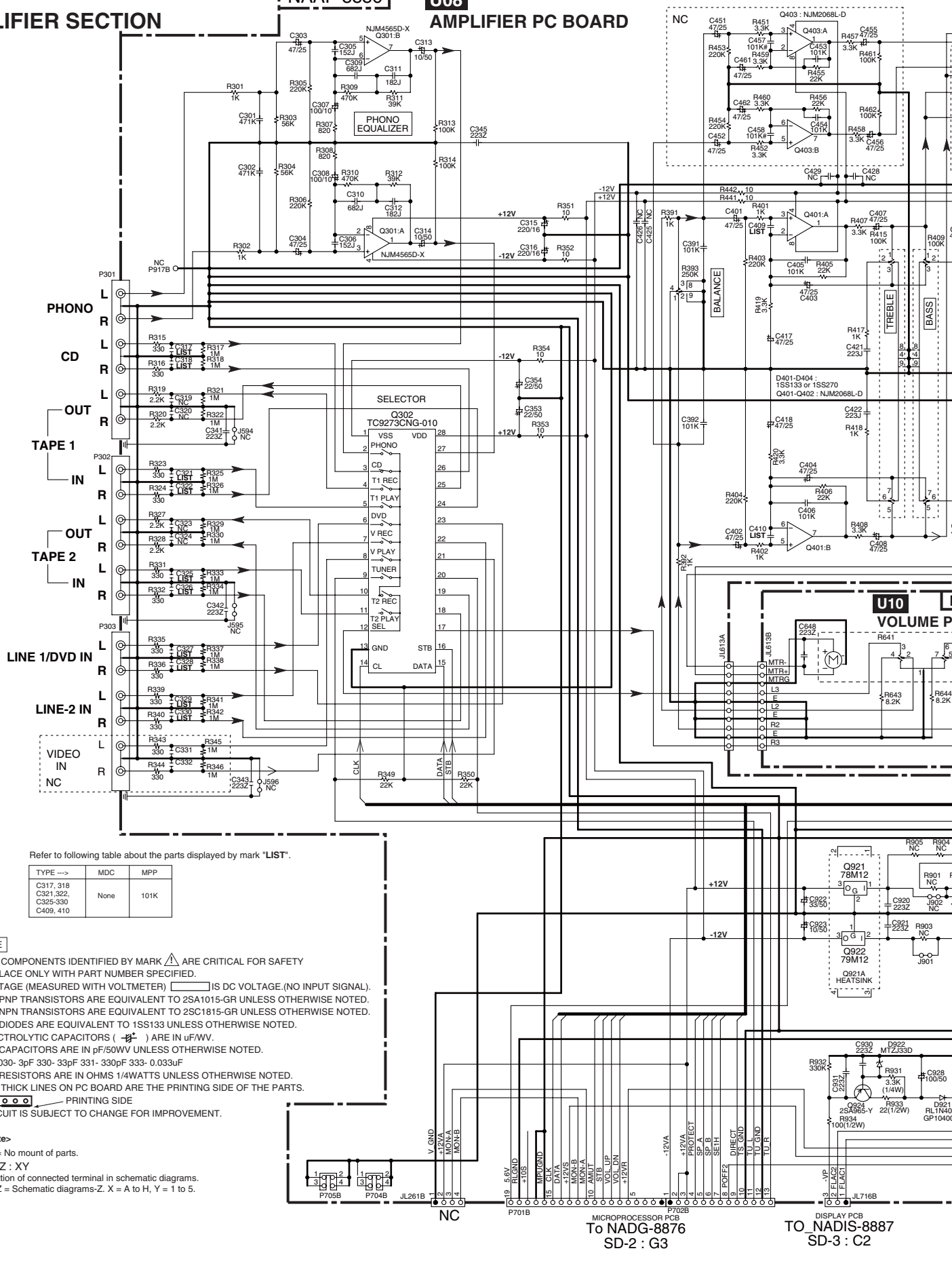


SCHEMATIC DIAGRAMS-1

AMPLIFIER SECTION

NAAF-8886

U08 AMPLIFIER PC BOARD



Refer to following table about the parts displayed by mark "**LIST**".

TYPE --->	MDC	MPP
C317, 318 C321,322, C325-330 C409, 410	None	101K

NOTE

- THE COMPONENTS IDENTIFIED BY MARK ⚠ ARE CRITICAL FOR SAFETY REPLACE ONLY WITH PART NUMBER SPECIFIED.
- VOLTAGE (MEASURED WITH VOLTMETER) ▭ IS DC VOLTAGE.(NO INPUT SIGNAL).
- ALL PNP TRANSISTORS ARE EQUIVALENT TO 2SA1015-GR UNLESS OTHERWISE NOTED.
- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (⊣⊢) ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
  EX) 030- 3pF 330- 33pF 331- 330pF 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
  EX) ▭ PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

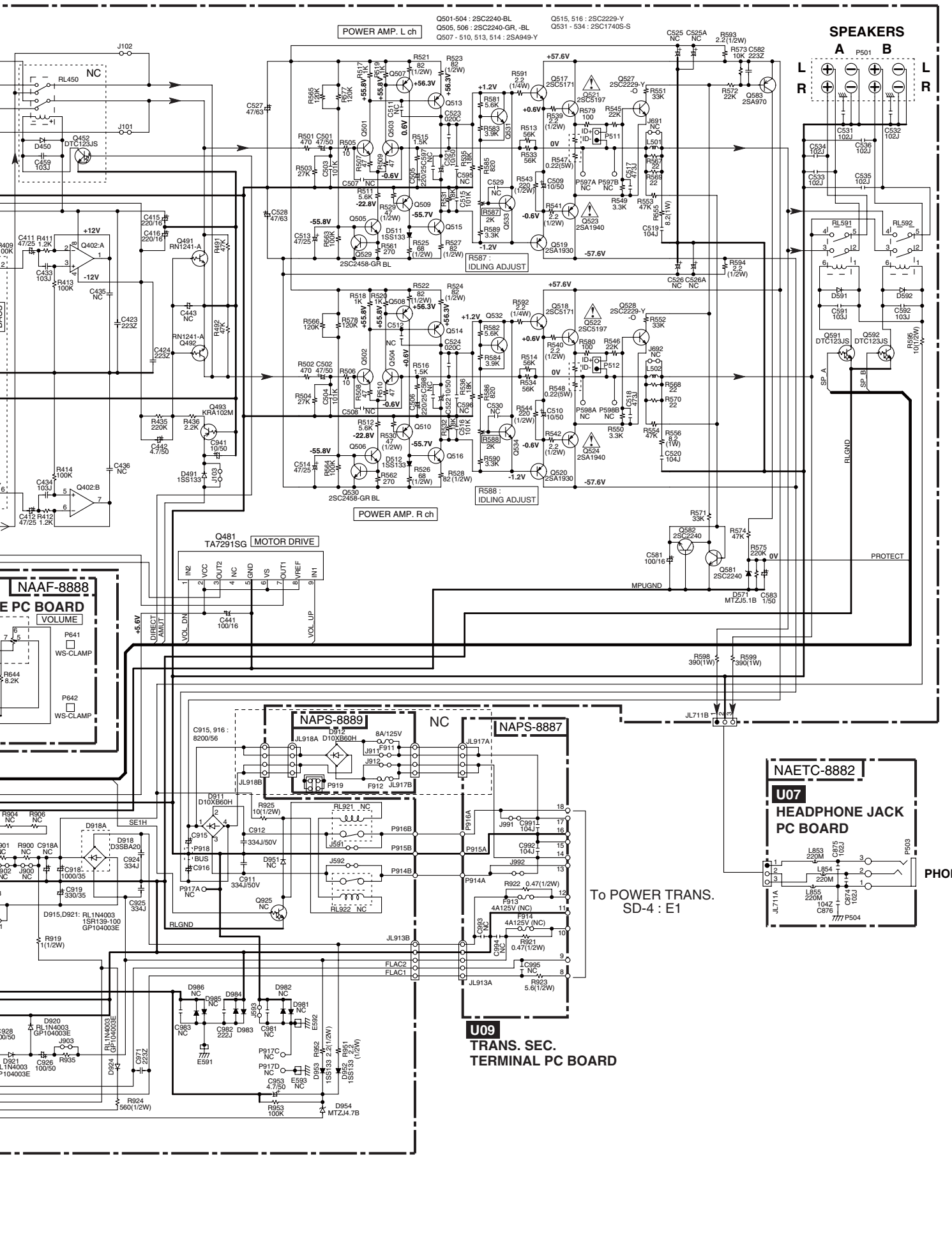
<Note>

NC = No mount of parts.

SD-Z : XY

Location of connected terminal in schematic diagrams.
SD-Z = Schematic diagrams-Z. X = A to H, Y = 1 to 5.

E F G H


POWER AMP. L ch
POWER AMP. R ch
Q501-504 : 2SC2240-BL
Q505, 506 : 2SC2240-GR, -BL
Q507 - 510, 513, 514 : 2SA949-Y
Q515, 516 : 2SC2229-Y
Q531 - 534 : 2SC1740S-S
SPEAKERS
A P501 B
L R
R587 : IDLING ADJUST
R588 : IDLING ADJUST
Q481 TA7291SG MOTOR DRIVE
IN2 VCC OUT2 NC GND VS OUT1 VREF IN1
DIRECT AMUT
VOL. DN
VOL. UP
+5.6V
NAAF-8888
E PC BOARD
VOLUME
P641
WS-CLAMP
P642
WS-CLAMP
NAPS-8889
NAPS-8887
NC
JL918A
JL918B
JL917A
JL917B
P919
F912
F911
8A/125V
D912 D10XB60H
J911
J912
C915, 916 : 8200/56
D911 D10XB60H
D915,D921: RL1N4003 1SR139-100 GP104003E
D918A
D918 D3SBA20
SE1H
BUS
P918
P917A
P916B
P915B
P914B
P916A
P915A
P914A
J591
J592
RL921 NC
RL922 NC
RLGND
JL913B
FLAC2
FLAC1
JL913A
To POWER TRANS. SD-4 : E1
U09
TRANS. SEC. TERMINAL PC BOARD
NAETC-8882
U07
HEADPHONE JACK PC BOARD
PHONES
P503
P504
JL711A
JL711B
PROTECT
MPUGND
RLGND
SP A
SP B
RL591
RL592
D591
D592
D571 MTZJ5.1B
D954 MTZJ4.7B
D931 1SS133
D932 1SS133
D933 1SS133
E591
E592
E593
J102
J101
RL450
Q452 DTC123JS
D450
Q402:A
Q402:B
Q491 RN1241-A
Q492 RN1241-A
Q493 KRA102M
D491 1SS133
Q582 2SC2240
Q581 2SC2240
Q583 2SA970
Q529 2SC2458-GR BL
Q530 2SC2458-GR BL
Q517 2SC5171
Q518 2SC5171
Q519 2SA1930
Q520 2SA1930
Q521 2SC5197
Q522 2SC5197
Q523 2SA1940
Q524 2SA1940
Q527 2SC2229-Y -O
Q528 2SC2229-Y -O
P511
P512
P597A NC
P597B NC
P598A NC
P598B NC
J691 NC
J692 NC
L501
L502
J991
J992
J993
J994
J995
J996
J997
J998
J999
J900
J901
J902
J903

SCHEMATIC DIAGRAMS-1

AMPLIFIER SECTION

NAAF-8886

U08 AMPLIFIER PC BOARD

A B C D E F G H

1 2 3 4 5

PHONO EQUALIZER

SELECTOR Q302 TC9273CNG-010

POWER AMP. L ch

POWER AMP. R ch

Q481 TA7291SG MOTOR DRIVE

SPEAKERS

U10 NAAF-8888 VOLUME PC BOARD

NAPS-8889

NAPS-8887

NAETC-8882 **U07** HEADPHONE JACK PC BOARD

U09 TRANS. SEC. TERMINAL PC BOARD

To POWER TRANS. SD-4 : E1

PHONES

NC

MICROPROCESSOR PCB To NADG-8876 SD-2 : G3

DISPLAY PCB TO_NADIS-8887 SD-3 : C2

Refer to following table about the parts displayed by mark "**LIST**".

TYPE --->	MDC	MPP
C317, 318 C321, 322, C325-330 C409, 410	None	101K

NOTE

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- ELECTROLYTIC CAPACITORS (⊣⊢) ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
  EX) 030- 3pF 330- 33pF 331- 330pF 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
  EX) ▭ ▭ PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

<Note>

NC = No mount of parts.

SD-Z : XY

Location of connected terminal in schematic diagrams.
SD-Z = Schematic diagrams-Z. X = A to H, Y = 1 to 5.

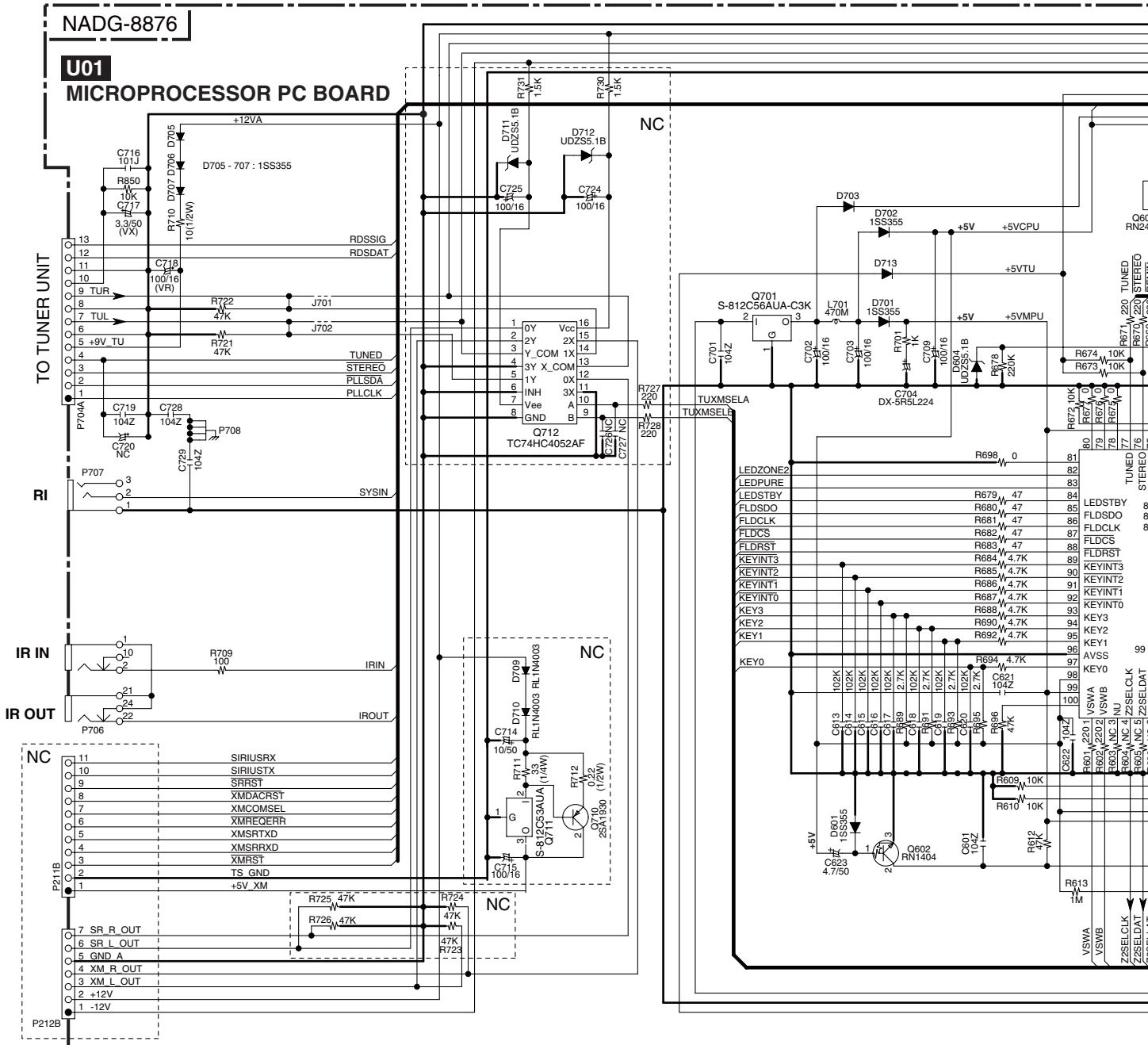
SCHEMATIC DIAGRAMS-2

MICROPROCESSOR SECTION

NADG-8876

U01

MICROPROCESSOR PC BOARD



NOTE

- THE COMPONENTS IDENTIFIED BY MARK ⚠ ARE CRITICAL FOR SAFETY REPLACE ONLY WITH PART NUMBER SPECIFIED.
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- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (⊣⊢) ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
  EX) 030- 3pF 330- 33pF 331- 330pF 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
  EX) ○○○ PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

<Note>

NC = No mount of parts.

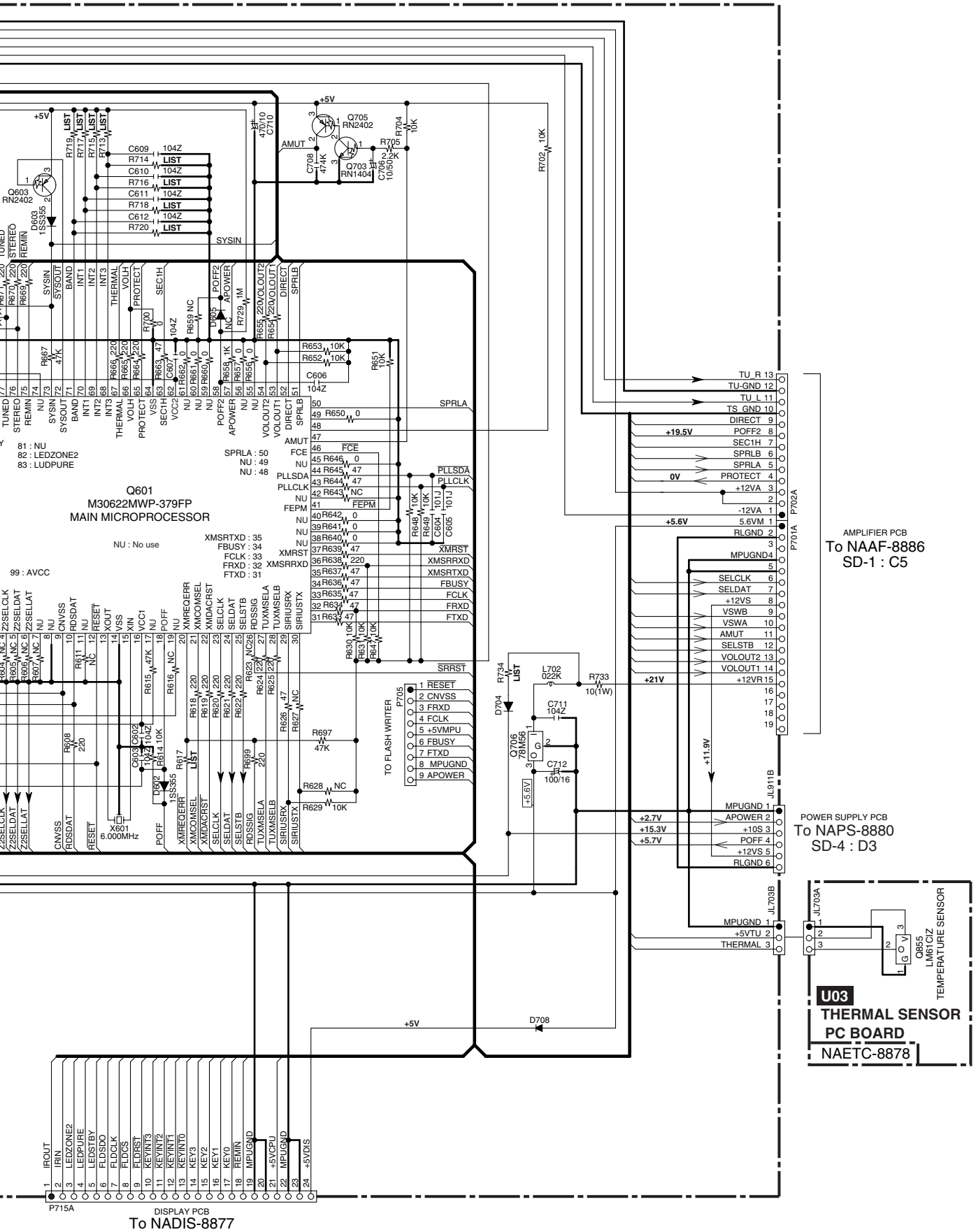
SD-Z : XY

Location of connected terminal in schematic diagrams.
SD-Z = Schematic diagrams-Z. X = A to H, Y = 1 to 5.

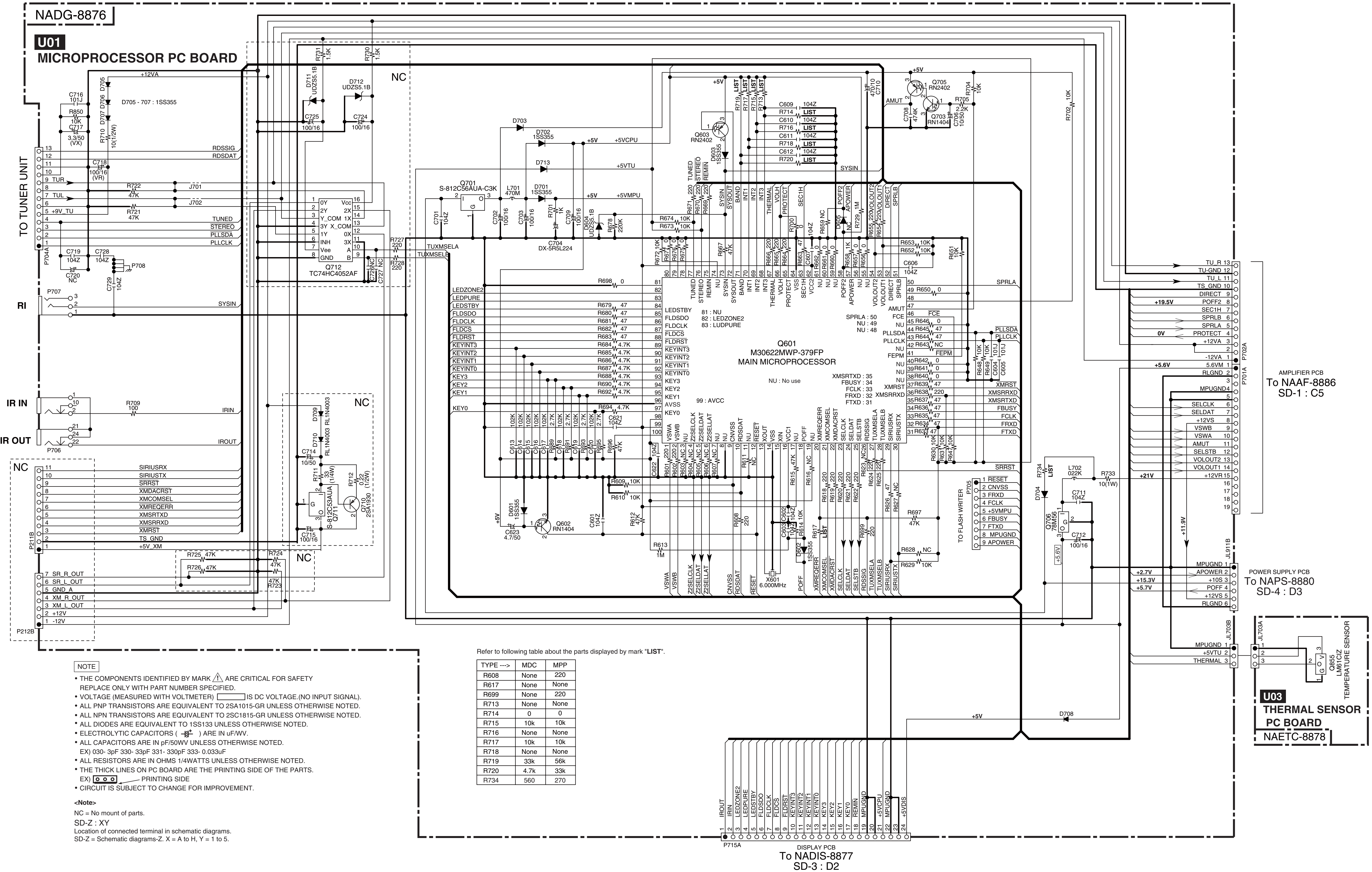
Refer to following table about the parts displayed by mark "**LIST**".

TYPE --->	MDC	MPP
R608	None	220
R617	None	None
R699	None	220
R713	None	None
R714	0	0
R715	10k	10k
R716	None	None
R717	10k	10k
R718	None	None
R719	33k	56k
R720	4.7k	33k
R734	560	270

E F G H


Q601
M30622MWP-379FP
MAIN MICROPROCESSOR
NU : No use
99 : AVCC
81 : NU
82 : LEDZONE2
83 : LUDPURE
SPRLA : 50
NU : 49
NU : 48
XMSRTXD : 35
FBUSY : 34
FCLK : 33
FRXD : 32
FTXD : 31
TO FLASH WRITER
P705
1 RESET
2 CNVSS
3 FRXD
4 FCLK
5 +5VMPU
6 FBUSY
7 FTXD
8 MPUGND
9 APOWER
AMPLIFIER PCB
To NAAF-8886
SD-1 : C5
P702A
P701A
TU_R 13
TU-GND 12
TU_L 11
TS_GND 10
DIRECT 9
POFF2 8
SEC1H 7
SPRLB 6
SPRLA 5
PROTECT 4
+12VA 3
-12VA 1
5.6VM 1
RLGND 2
MPUGND4
SELCLK 6
SELDAT 7
+12VS 8
VSWB 9
VSWA 10
AMUT 11
SELSTB 12
VOLOUT2 13
VOLOUT1 14
+12VR 15
+19.5V
0V
+5.6V
+21V
+11.9V
POWER SUPPLY PCB
To NAPS-8880
SD-4 : D3
JL911B
MPUGND 1
APOWER 2
+10S 3
POFF 4
+12VS 5
RLGND 6
+2.7V
+15.3V
+5.7V
JL703B
JL703A
MPUGND 1
+5VTU 2
THERMAL 3
Q855
LM61CIZ
TEMPERATURE SENSOR
U03
THERMAL SENSOR
PC BOARD
NAETC-8878
DISPLAY PCB
To NADIS-8877
SD-3 : D2
P715A
IROUT
IRIN
LEDZONE2
LEDPURE
LEDSTBY
FLDSDO
FLDCLK
FLDCS
FLDRST
KEYINT3
KEYINT2
KEYINT1
KEYINT0
KEY3
KEY2
KEY1
KEY0
REMIN
MPUGND
+5VCPU
MPUGND
+5VDIS
X601
6.000MHz
+5V
+5.6V
D708

SCHEMATIC DIAGRAMS-2
MICROPROCESSOR SECTION



NOTE

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- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS ( ) ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED. EX) 030- 3pF 330- 33pF 331- 330pF 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS. EX) [o o o] ← PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

<Note>

NC = No mount of parts.

SD-Z : XY

Location of connected terminal in schematic diagrams.
SD-Z = Schematic diagrams-Z. X = A to H, Y = 1 to 5.

Refer to following table about the parts displayed by mark "**LIST**".

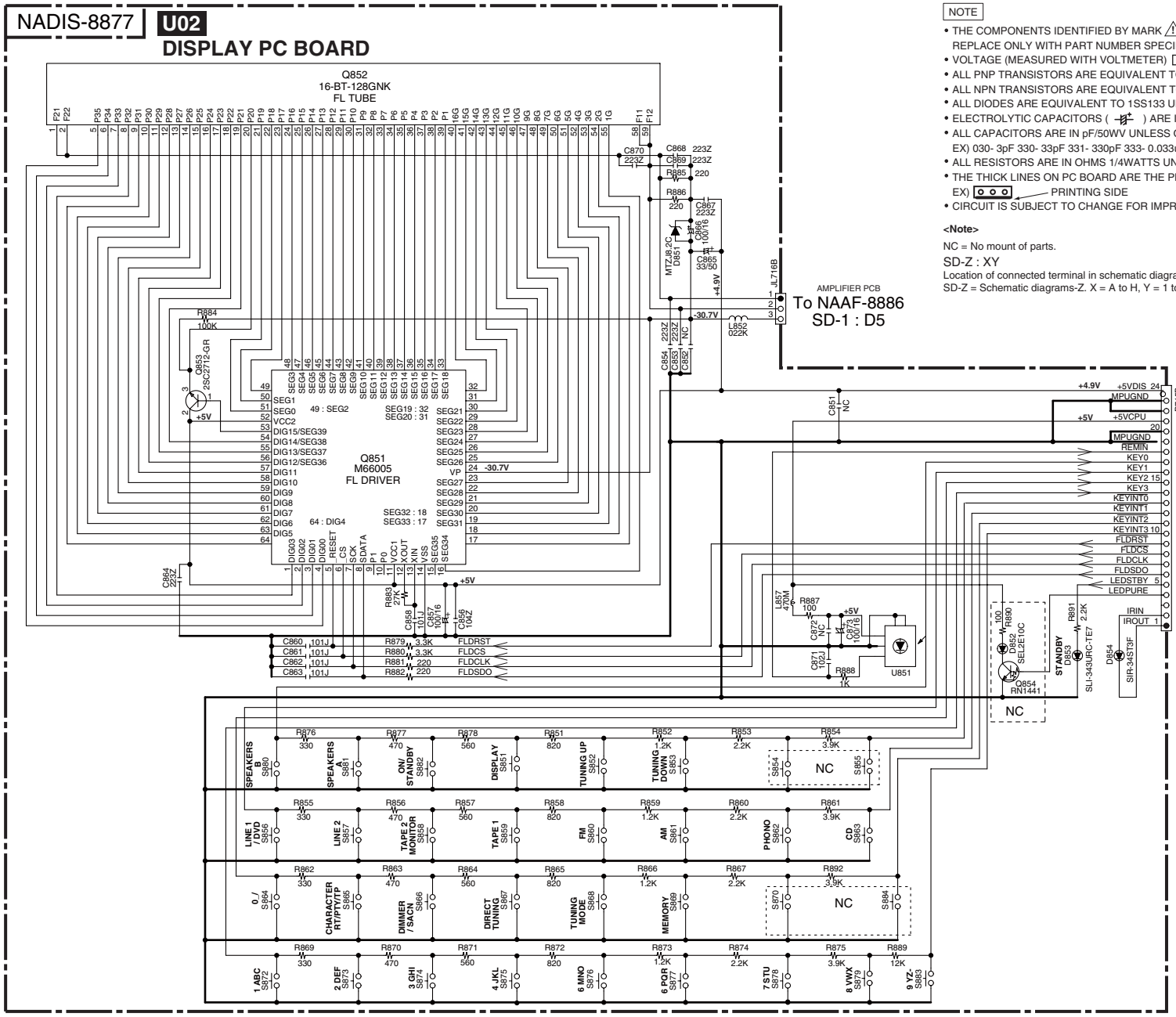
TYPE --->	MDC	MPP
R608	None	220
R617	None	None
R699	None	220
R713	None	None
R714	0	0
R715	10k	10k
R716	None	None
R717	10k	10k
R718	None	None
R719	33k	56k
R720	4.7k	33k
R734	560	270

SCHEMATIC DIAGRAMS-3

DISPLAY SECTION

NADIS-8877 **U02**

DISPLAY PC BOARD



NOTE

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- VOLTAGE (MEASURED WITH VOLTMETER) ☐ IS DC VOLTAGE.(NO INPUT SIGNAL).
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- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
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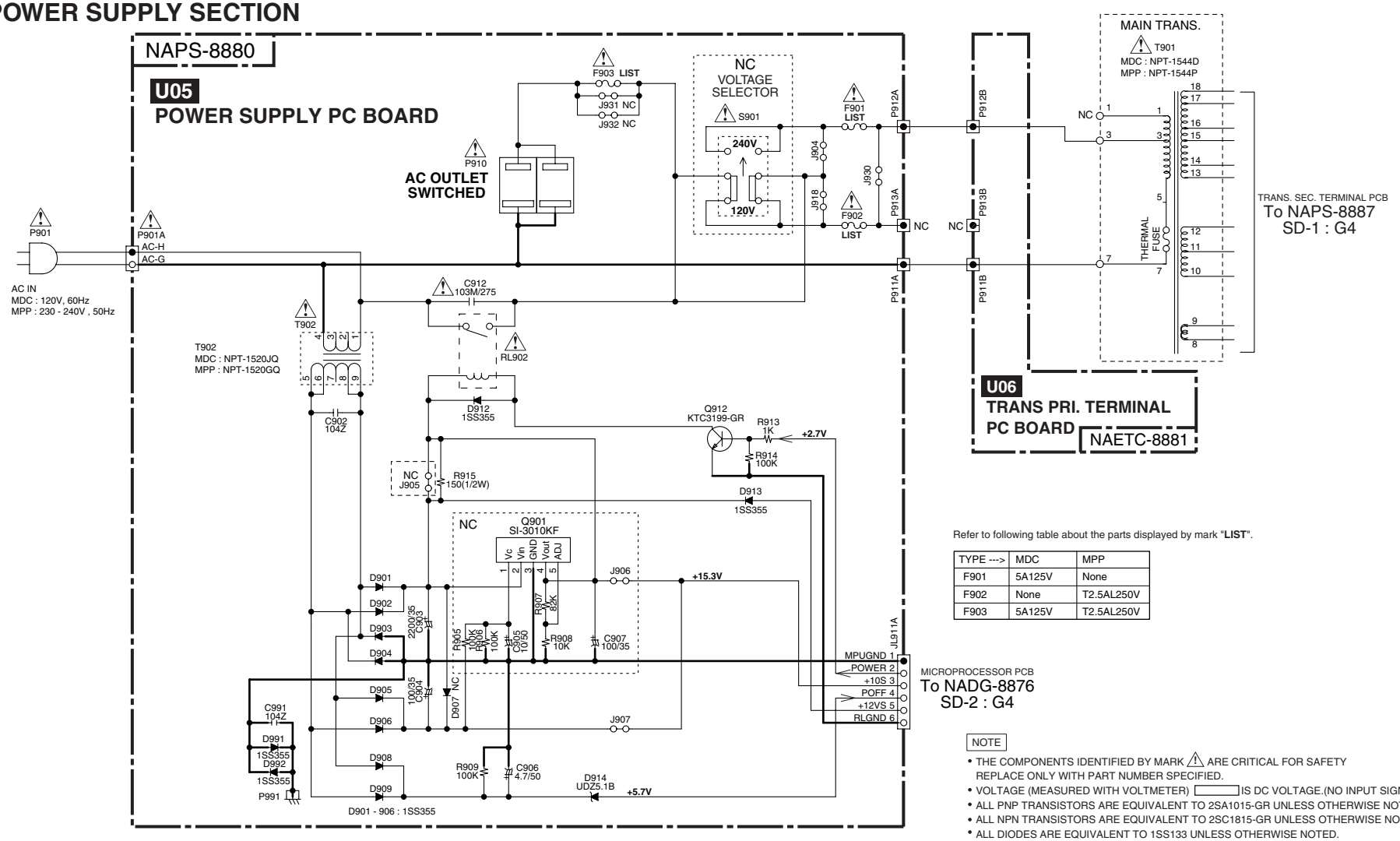
SCHEMATIC DIAGRAMS-4

POWER SUPPLY SECTION



Refer to following table about the parts displayed by mark "**LIST**".

TYPE --->	MDC	MPP
F901	5A125V	None
F902	None	T2.5AL250V
F903	5A125V	T2.5AL250V

NOTE

- THE COMPONENTS IDENTIFIED BY MARK ⚠ ARE CRITICAL FOR SAFETY REPLACE ONLY WITH PART NUMBER SPECIFIED.
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- ALL NPN TRANSISTORS ARE EQUIVALENT TO 2SC1815-GR UNLESS OTHERWISE NOTED.
- ALL DIODES ARE EQUIVALENT TO 1SS133 UNLESS OTHERWISE NOTED.
- ELECTROLYTIC CAPACITORS (⊣+) ARE IN uF/WV.
- ALL CAPACITORS ARE IN pF/50WV UNLESS OTHERWISE NOTED.
  EX) 030- 3pF 330- 33pF 331- 330pF 333- 0.033uF
- ALL RESISTORS ARE IN OHMS 1/4WATTS UNLESS OTHERWISE NOTED.
- THE THICK LINES ON PC BOARD ARE THE PRINTING SIDE OF THE PARTS.
  EX) ▭ PRINTING SIDE
- CIRCUIT IS SUBJECT TO CHANGE FOR IMPROVEMENT.

<Note>

NC = No mount of parts.

SD-Z : XY
Location of connected terminal in schematic diagrams.
SD-Z = Schematic diagrams-Z. X = A to H, Y = 1 to 5.

CAUTION

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH FUSE OF SAME TYPE AND RATING INDICATED.

ATTENTION

AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE, REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE ET CALIBRATION COMME INDIQUE.

THIS SYMBOL LOCATED NEAR THE FUSE INDICATES THAT THE FUSE USED IS SLOW OPERATING TYPE FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,REPLACE WITH SAME TYPE FUSE. FOR FUSE RATING REFER TO THE MARKING ADJACENT TO THE SYMBOL.

CE SYMBOLE INDIQUE QUE LE FUSIBLE UTLISE EST E LENT.POUR UNE PROTECTION PERMANENTE,N'UTILISER QUE DES FUSIBLES DE MEME TYPE. CE DARNIER EST INDIQUE LA QU LE PRESENT SYMBOL EST APPOSE.

TX-8255