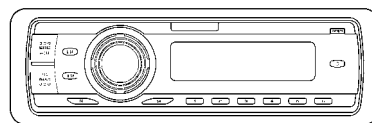


Service Manual



DEH-P770MP/XN/UC

ORDER NO.
CRT3333

MULTI-CD CONTROL HIGH POWER CD/MP3/WMA PLAYER WITH FM/AM TUNER

DEH-P770MP /XN/UC

DEH-P7700MP /XN/UC

DEH-P7750MP /XN/ES

This service manual should be used together with the following manual(s):

Model No.	Order No.	Mech.Module	Remarks
CX-3158	CRT3394	S10.1AAC	CD Mech. Module:Circuit Description, Mech. Description, Disassembly

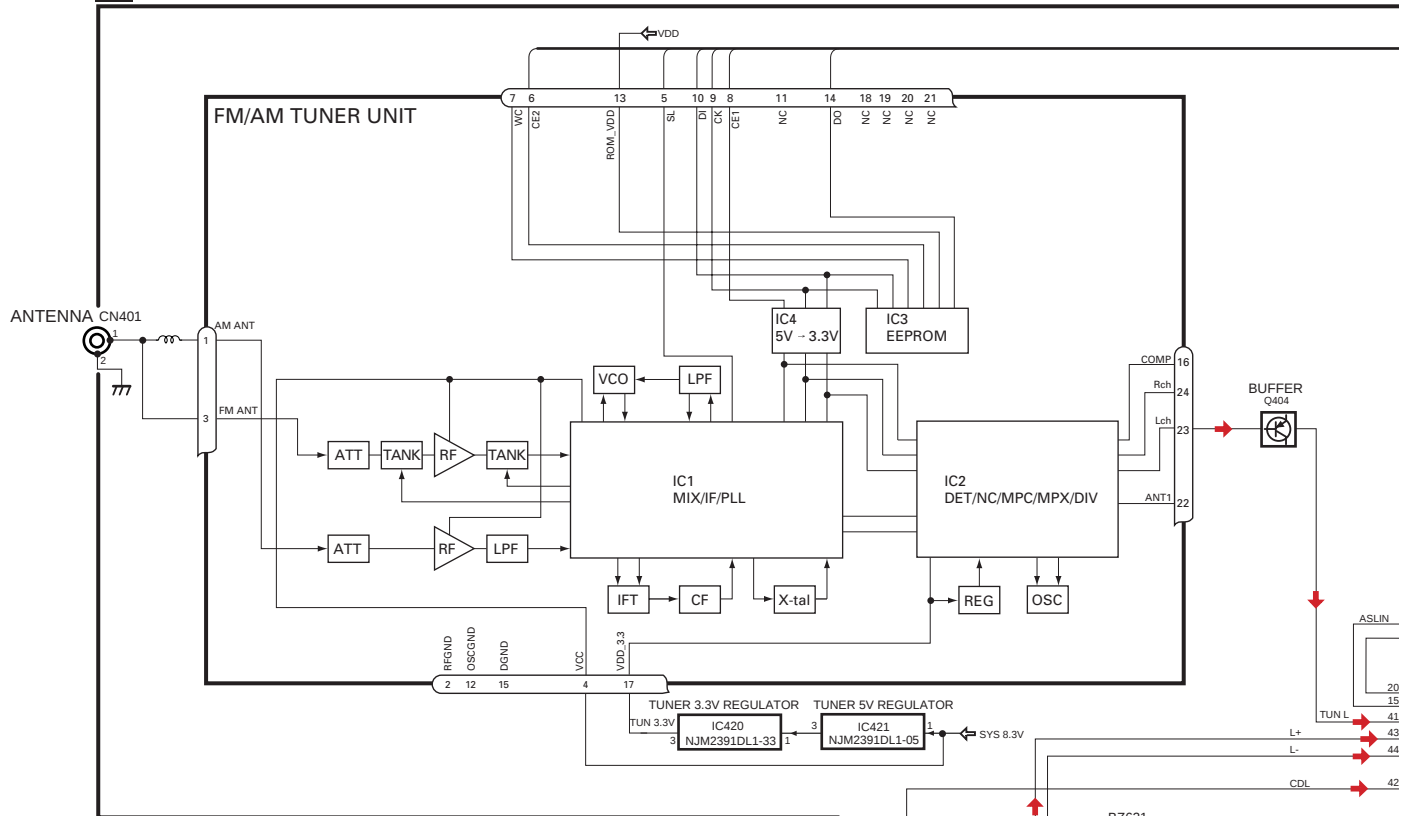


For details, refer to "Important Check Points for Good Servicing".

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

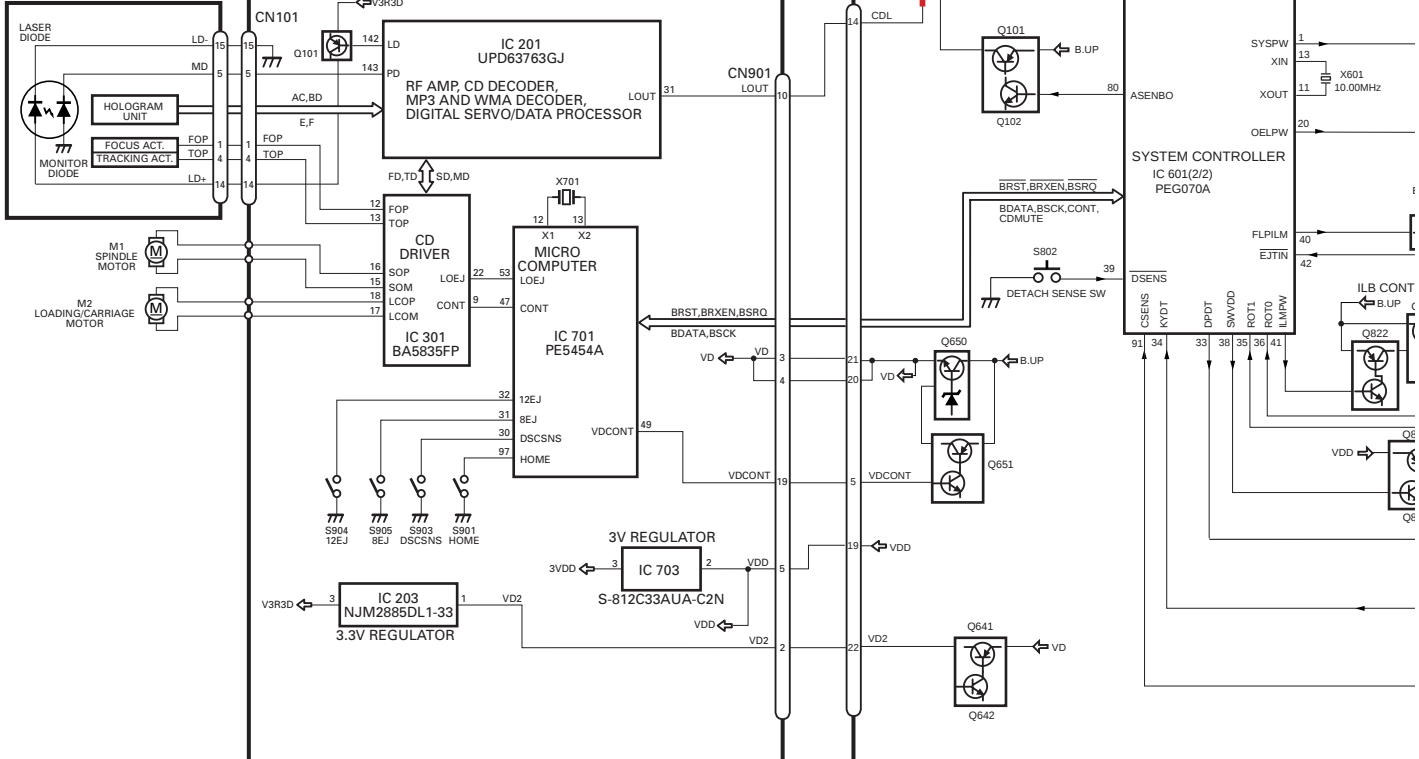
3.1 BLOCK DIAGRAM

A TUNER AMP UNIT



D CD CORE UNIT(S10.1)

PICKUP UNIT (P9.9MP3)(SERVICE)

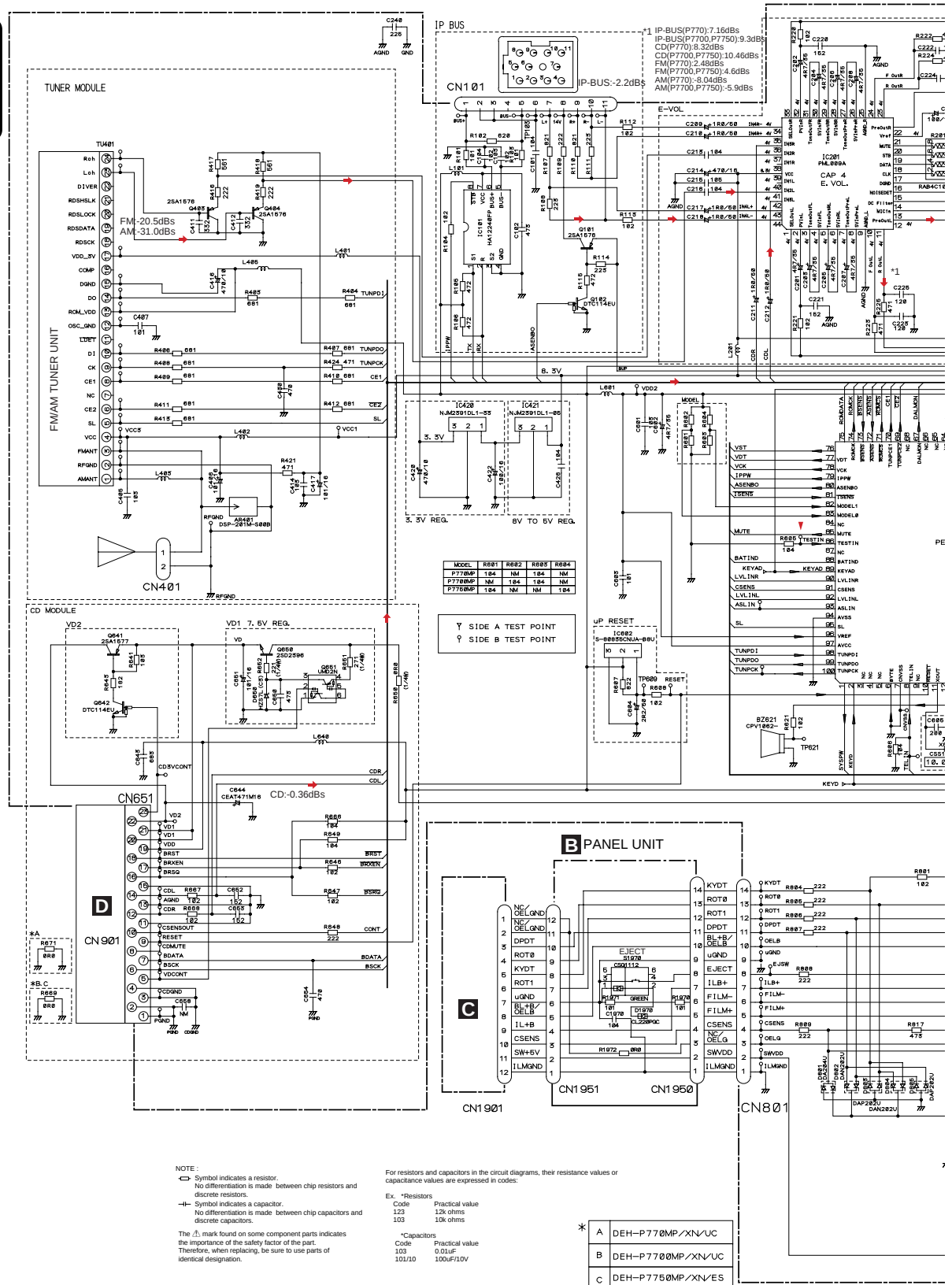
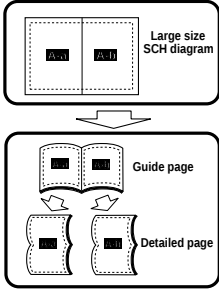




3.2 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)

Note: When ordering service parts, be sure to refer to "EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".

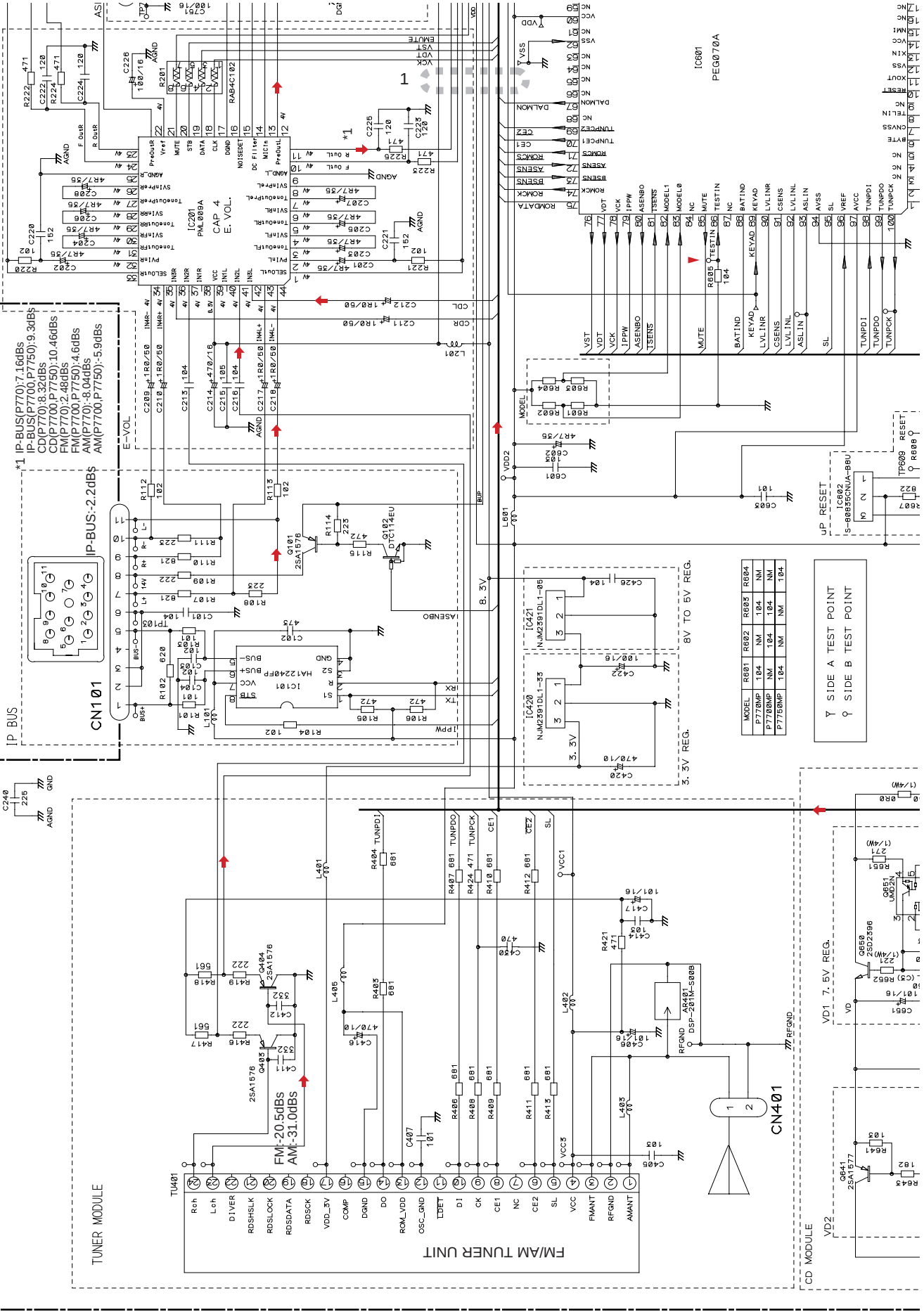
A-a



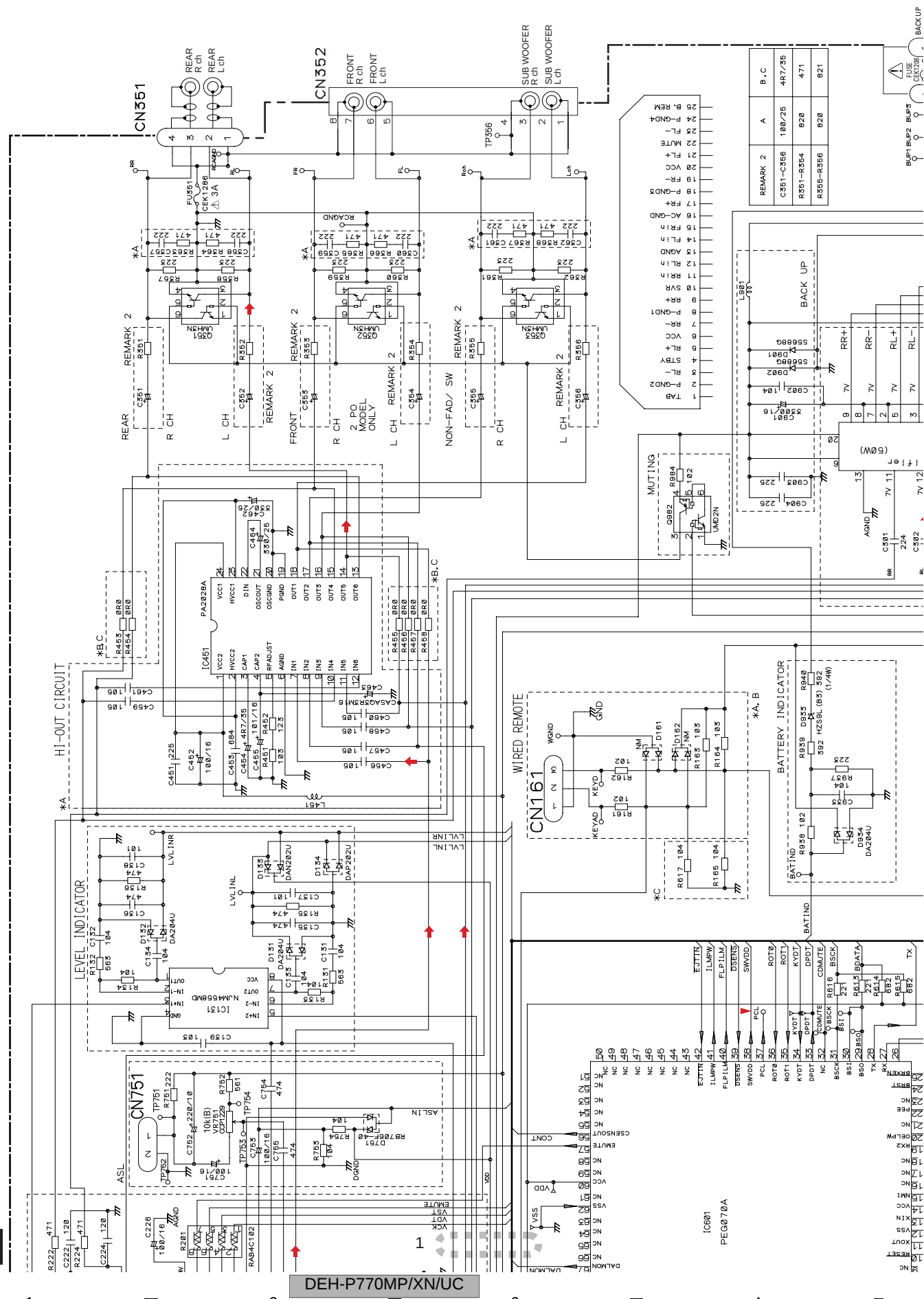
A TUNER AMP UNIT

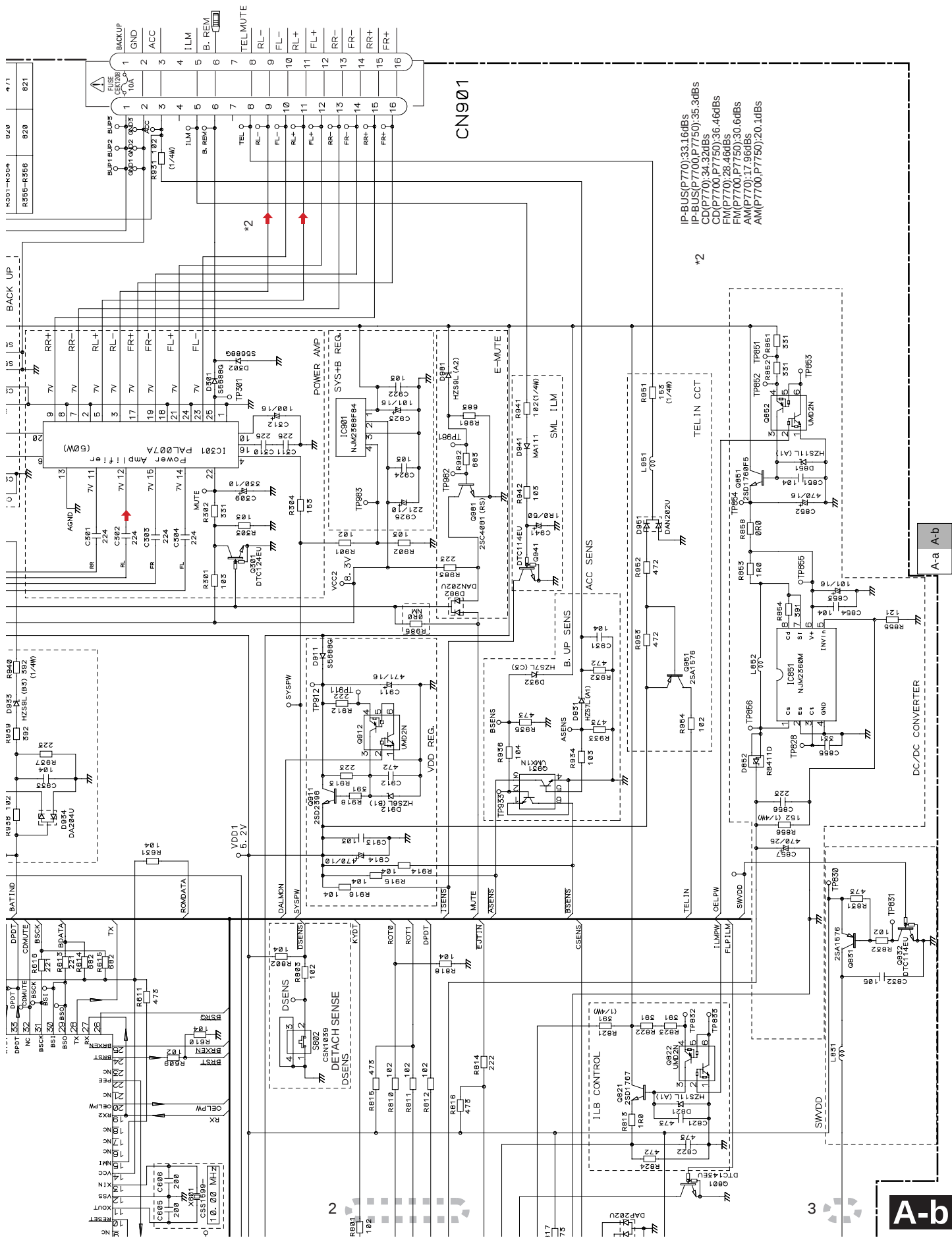


A



A-a	A-b
1. The first part of the text discusses the importance of maintaining accurate records in a laboratory setting. It emphasizes the need for clear labeling and consistent documentation to ensure the reliability of experimental results. 2. The second part of the text describes the various methods used to collect and analyze data. It highlights the importance of using standardized protocols and the role of statistical analysis in interpreting the results. 3. The third part of the text discusses the challenges faced by researchers in this field. It mentions the need for advanced equipment and the importance of having a strong theoretical foundation to guide the experiments. 4. The fourth part of the text describes the progress made in recent years. It mentions the development of new techniques and the discovery of new phenomena, which have significantly advanced the field. 5. The fifth part of the text discusses the future of the field. It mentions the potential for further discoveries and the importance of continued research and collaboration between scientists from different disciplines.	1. The first part of the text discusses the importance of maintaining accurate records in a laboratory setting. It emphasizes the need for clear labeling and consistent documentation to ensure the reliability of experimental results. 2. The second part of the text describes the various methods used to collect and analyze data. It highlights the importance of using standardized protocols and the role of statistical analysis in interpreting the results. 3. The third part of the text discusses the challenges faced by researchers in this field. It mentions the need for advanced equipment and the importance of having a strong theoretical foundation to guide the experiments. 4. The fourth part of the text describes the progress made in recent years. It mentions the development of new techniques and the discovery of new phenomena, which have significantly advanced the field. 5. The fifth part of the text discusses the future of the field. It mentions the potential for further discoveries and the importance of continued research and collaboration between scientists from different disciplines.

A-b



DEH-P770MP/XN/UC

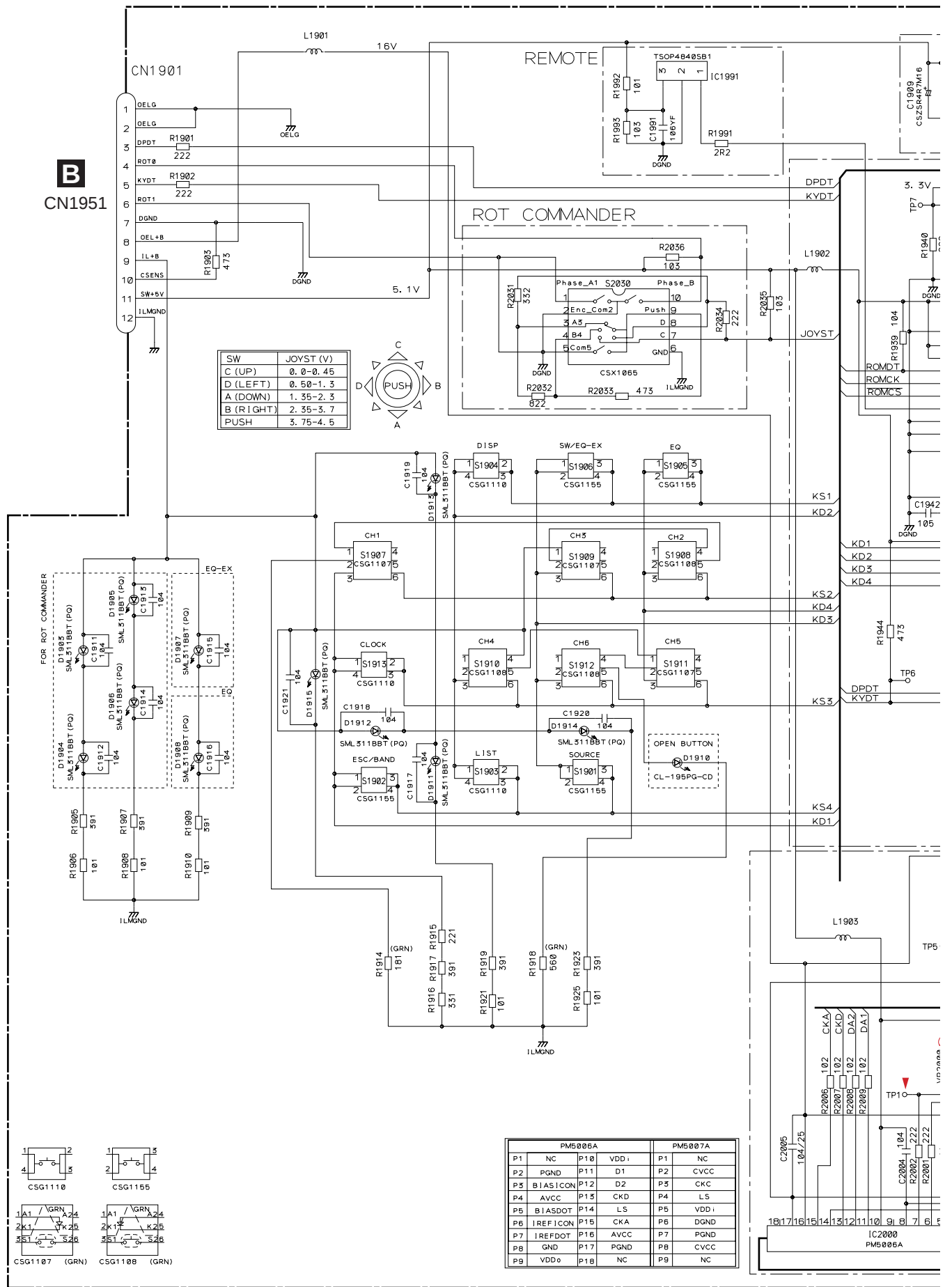
A-b

A
B
C
D
E
F

5 6 7 8

5 6 7 8

3.3 KEYBOARD UNIT

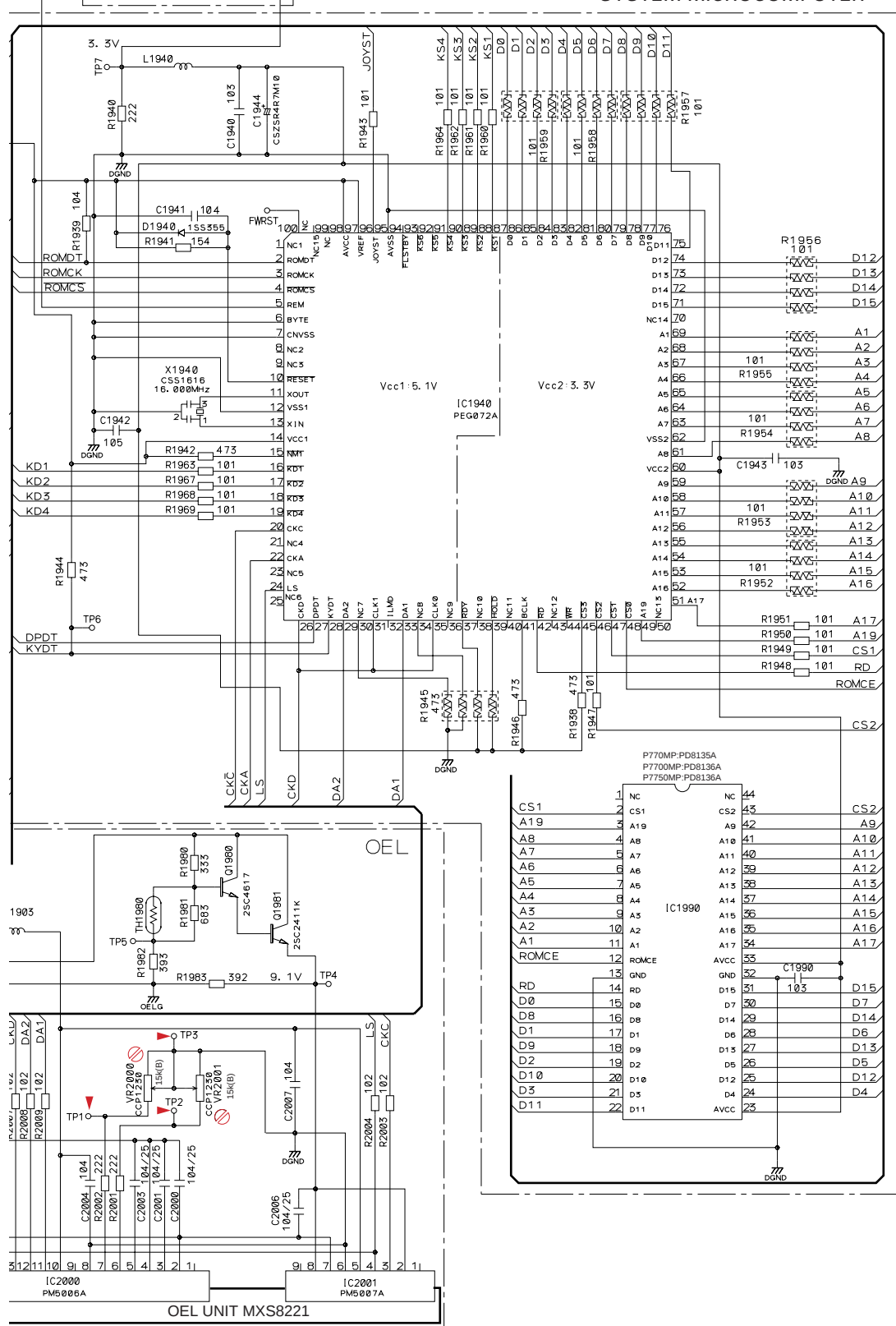




KEYBOARD UNIT

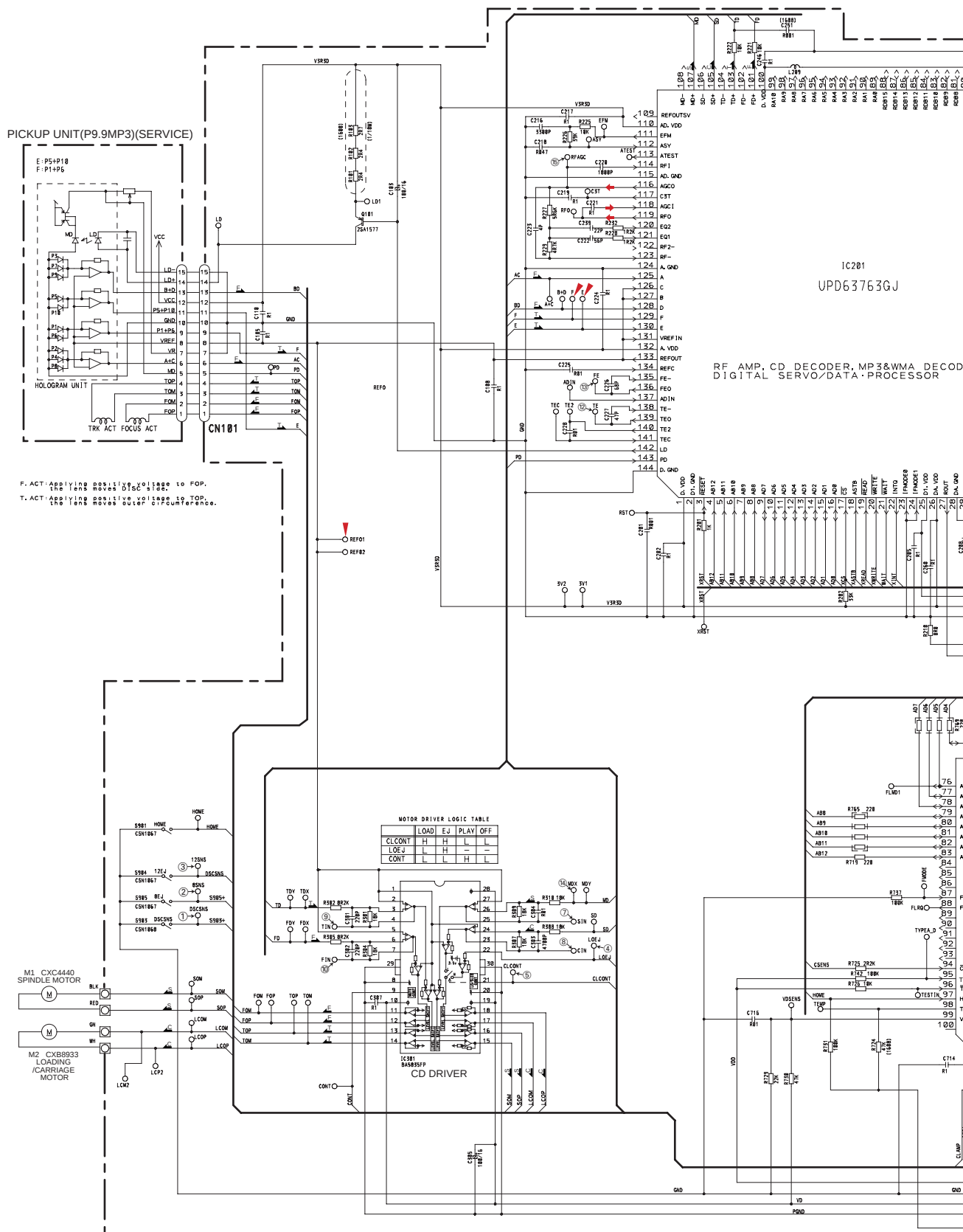
3.3 V REGULATOR

SYSTEM MICROCOMPUTER



3.4 CD MECHANISM MODULE(GUIDE PAGE)

D-a



D-b

NOTE1) GND ...CD LSI, RFAMP, CPU
 PGND ...Actuator, Motor Driver
 AGND ...Audio
 These GND's are not connected to each other on PCB.
 PGND is connected to a floating mechanism part by a screw.

- ⑧ Monitor land (ø1.2mm)
 # Monitor land (ø0.8mm)
 □ Land for manual soldering

SWITCHES:

CD CORE UNIT(S10.1)

S901:HOME SWITCH.....ON-OFF
 S903:DSCSNS SWITCH.....ON-OFF
 S904:12EJ SWITCH.....ON-OFF
 S905:8EJ SWITCH.....ON-OFF

The underlined indicates the switch position.

- ➔ SIGNAL LINE
 F FOCUS SERVO LINE
 T TRACKING SERVO LINE
 C CARRIAGE SERVO LINE
 S SPINDLE SERVO LINE

D CD CORE UNIT(S10.1)

3.3V REGULATOR

IC785 N,UMW85L-3.3

V_{IN} 1

C125 1000µF

C124 1000µF

C123 1000µF

C122 1000µF

C121 1000µF

C120 1000µF

C119 1000µF

C118 1000µF

C117 1000µF

C116 1000µF

C115 1000µF

C114 1000µF

C113 1000µF

C112 1000µF

C111 1000µF

C110 1000µF

C109 1000µF

C108 1000µF

C107 1000µF

C106 1000µF

C105 1000µF

C104 1000µF

C103 1000µF

C102 1000µF

C101 1000µF

C100 1000µF

C99 1000µF

C98 1000µF

C97 1000µF

C96 1000µF

C95 1000µF

C94 1000µF

C93 1000µF

C92 1000µF

C91 1000µF

C90 1000µF

C89 1000µF

C88 1000µF

C87 1000µF

C86 1000µF

C85 1000µF

C84 1000µF

C83 1000µF

C82 1000µF

C81 1000µF

C80 1000µF

C79 1000µF

C78 1000µF

C77 1000µF

C76 1000µF

C75 1000µF

C74 1000µF

C73 1000µF

C72 1000µF

C71 1000µF

C70 1000µF

C69 1000µF

C68 1000µF

C67 1000µF

C66 1000µF

C65 1000µF

C64 1000µF

C63 1000µF

C62 1000µF

C61 1000µF

C60 1000µF

C59 1000µF

C58 1000µF

C57 1000µF

C56 1000µF

C55 1000µF

C54 1000µF

C53 1000µF

C52 1000µF

C51 1000µF

C50 1000µF

C49 1000µF

C48 1000µF

C47 1000µF

C46 1000µF

C45 1000µF

C44 1000µF

C43 1000µF

C42 1000µF

C41 1000µF

C40 1000µF

C39 1000µF

C38 1000µF

C37 1000µF

C36 1000µF

C35 1000µF

C34 1000µF

C33 1000µF

C32 1000µF

C31 1000µF

C30 1000µF

C29 1000µF

C28 1000µF

C27 1000µF

C26 1000µF

C25 1000µF

C24 1000µF

C23 1000µF

C22 1000µF

C21 1000µF

C20 1000µF

C19 1000µF

C18 1000µF

C17 1000µF

C16 1000µF

C15 1000µF

C14 1000µF

C13 1000µF

C12 1000µF

C11 1000µF

C10 1000µF

C9 1000µF

C8 1000µF

C7 1000µF

C6 1000µF

C5 1000µF

C4 1000µF

C3 1000µF

C2 1000µF

C1 1000µF

C0 1000µF

C-1 1000µF

C-2 1000µF

C-3 1000µF

C-4 1000µF

C-5 1000µF

C-6 1000µF

C-7 1000µF

C-8 1000µF

C-9 1000µF

C-10 1000µF

C-11 1000µF

C-12 1000µF

C-13 1000µF

C-14 1000µF

C-15 1000µF

C-16 1000µF

C-17 1000µF

C-18 1000µF

C-19 1000µF

C-20 1000µF

C-21 1000µF

C-22 1000µF

C-23 1000µF

C-24 1000µF

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C-28 1000µF

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C-31 1000µF

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C-41 1000µF

C-42 1000µF

C-43 1000µF

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C-45 1000µF

C-46 1000µF

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C-69 1000µF

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C-71 1000µF

C-72 1000µF

C-73 1000µF

C-74 1000µF

C-75 1000µF

C-76 1000µF

C-77 1000µF

C-78 1000µF

C-79 1000µF

C-80 1000µF

C-81 1000µF

C-82 1000µF

C-83 1000µF

C-84 1000µF

C-85 1000µF

C-86 1000µF

C-87 1000µF

C-88 1000µF

C-89 1000µF

C-90 1000µF

C-91 1000µF

C-92 1000µF

C-93 1000µF

C-94 1000µF

C-95 1000µF

C-96 1000µF

C-97 1000µF

C-98 1000µF

C-99 1000µF

C-100 1000µF

C-101 1000µF

C-102 1000µF

C-103 1000µF

C-104 1000µF

C-105 1000µF

C-106 1000µF

C-107 1000µF

C-108 1000µF

C-109 1000µF

C-110 1000µF

C-111 1000µF

C-112 1000µF

C-113 1000µF

C-114 1000µF

C-115 1000µF

C-116 1000µF

C-117 1000µF

C-118 1000µF

C-119 1000µF

C-120 1000µF

C-121 1000µF

C-122 1000µF

C-123 1000µF

C-124 1000µF

C-125 1000µF

C-126 1000µF

C-127 1000µF

C-128 1000µF

C-129 1000µF

C-130 1000µF

C-131 1000µF

C-132 1000µF

C-133 1000µF

C-134 1000µF

C-135 1000µF

C-136 1000µF

C-137 1000µF

C-138 1000µF

C-139 1000µF

C-140 1000µF

C-141 1000µF

C-142 1000µF

C-143 1000µF

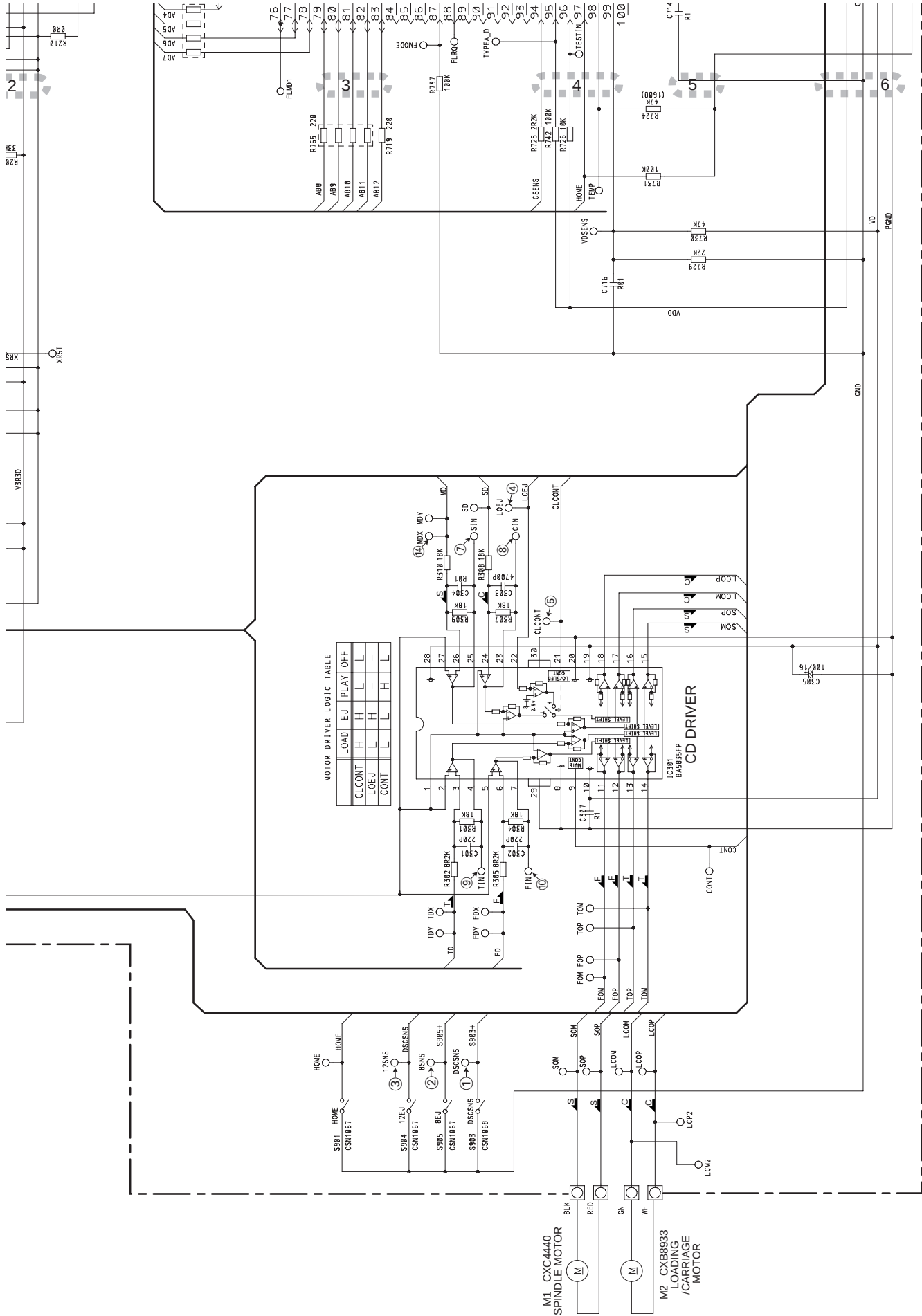
C-144 1000µF

C-145 1000µF

C-146 1000µF

C-147 1000µF

C-148 1000µF



D-a

D-a D-b

D-b

F

E

D

C

B

A

A

B

C

D

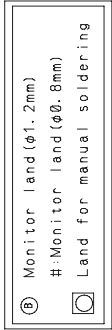
E

F

D-a D-b

D-b

NOTE 1) GND ...CD LSI, RFAMP, CPU
PGND ...Actuator, Motor Driver
AGND ...Audio
These GND's are not connected to each other on PCB.
PGND is connected to a floating mechanism part by a screw.



SWITCHES:
CD CORE UNIT(S10.1)
S901:HOME SWITCH.....ON-OFF
S903:DSCSNS SWITCH.....ON-OFF
S904:12EJ SWITCH.....ON-OFF
S905:8EJ SWITCH.....ON-OFF

The underlined indicates the switch position.

SIGNAL LINE

FOCUS SERVO LINE

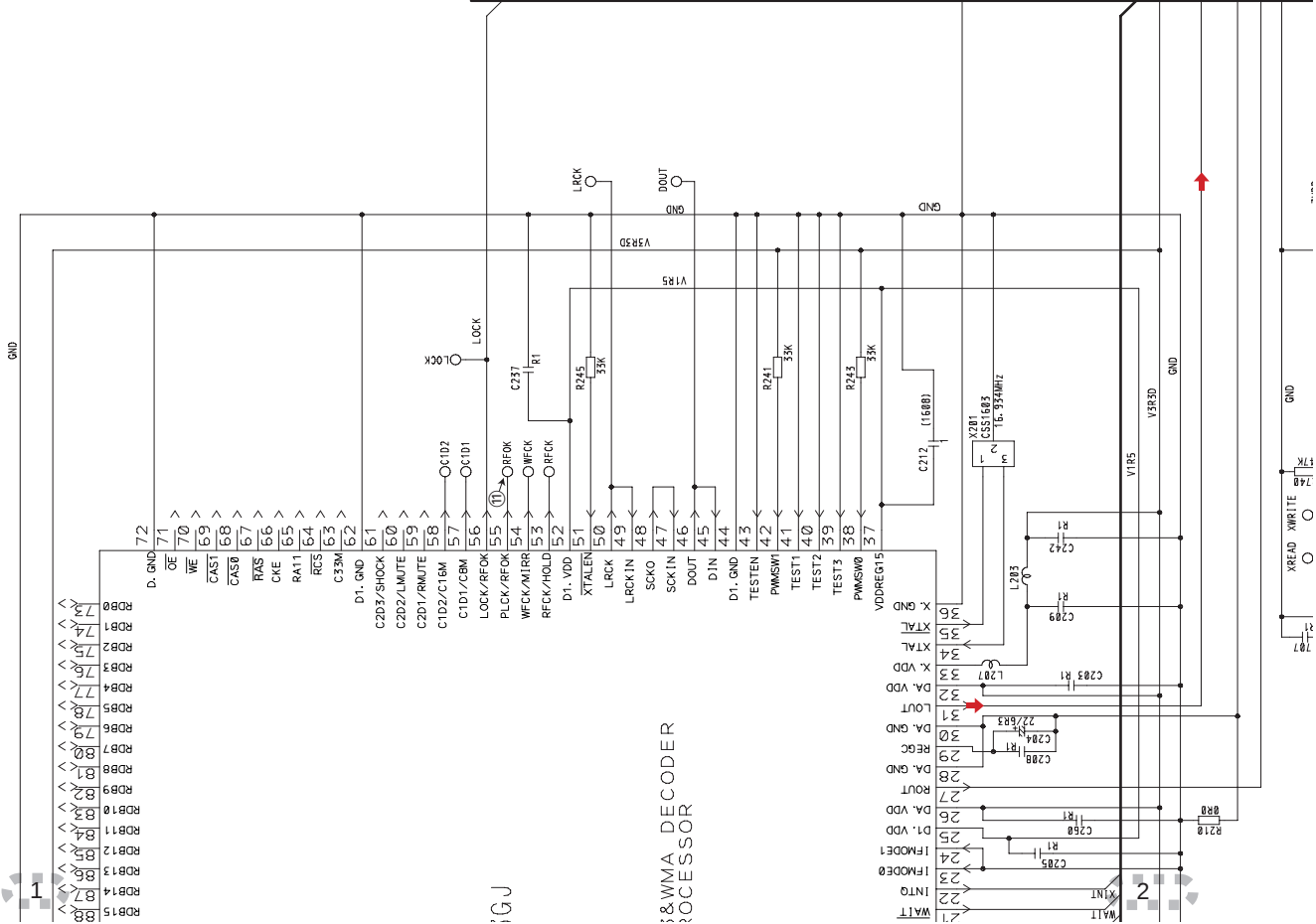
TRACKING SERVO LINE

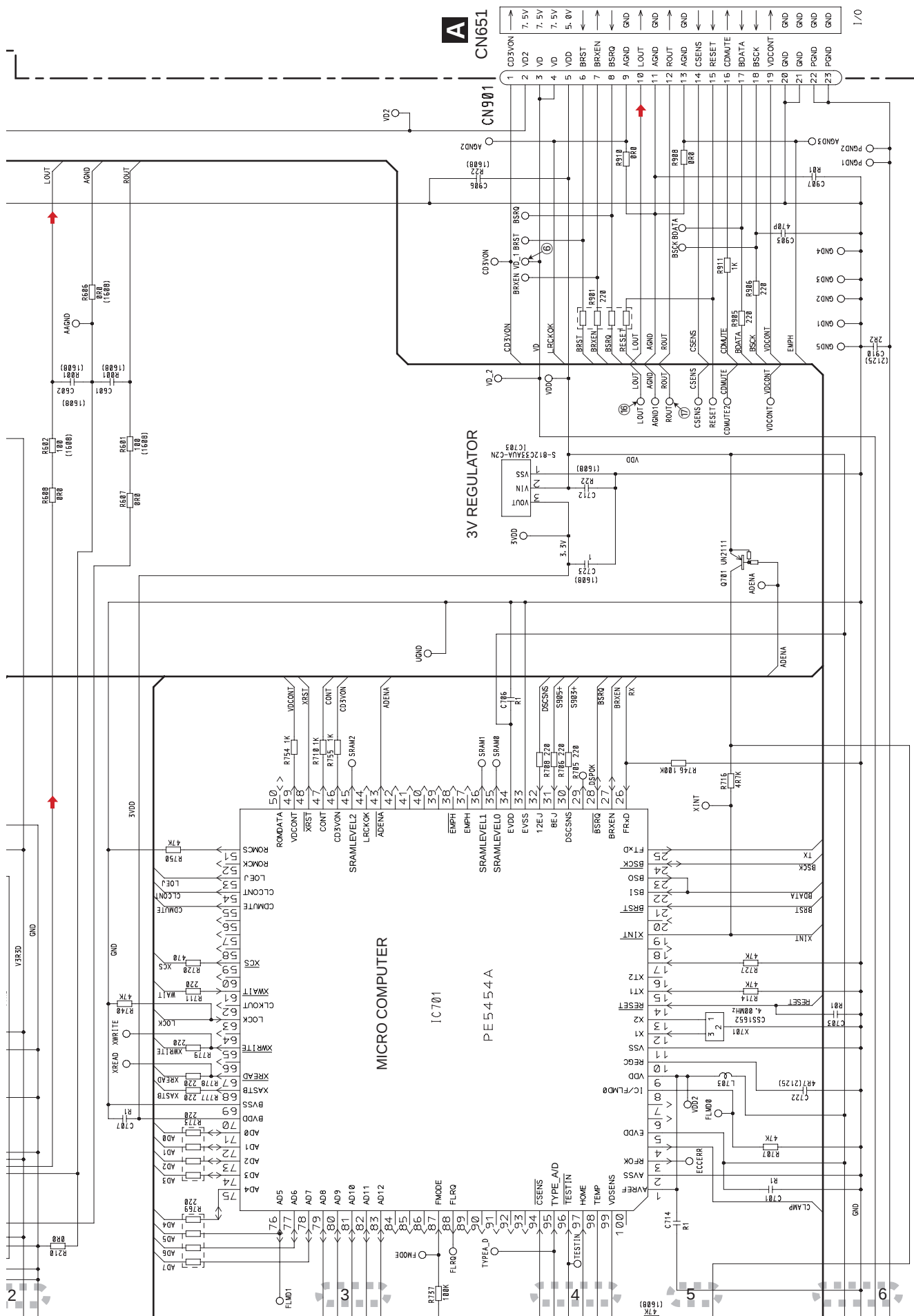
CARRIAGE SERVO LINE

SPINDE SERVO LINE

D CD CORE UNIT(S10.1)

3.3V REGULATOR





D-a D-b

D-b

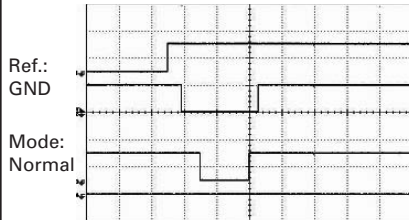
Waveforms

Note : 1. The encircled numbers denote measuring points in the circuit diagram.
2. Reference voltage REFO1(1.65V)

A

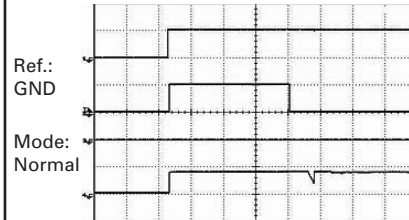
① DSCSNS 5V/div 500ms/div
② 8SNS 5V/div
③ 12SNS 5V/div
④ LOEJ 5V/div

12 cm CD Loading operation



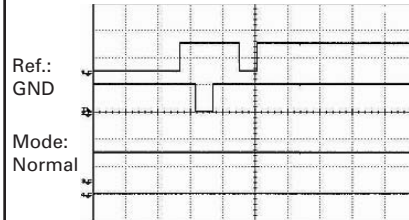
① DSCSNS 5V/div 500ms/div
⑤ CLCONT 5V/div
④ LOEJ 5V/div
⑥ VD 10V/div

12 cm CD Loading operation



① DSCSNS 5V/div 500ms/div
② 8SNS 5V/div
③ 12SNS 5V/div
④ LOEJ 5V/div

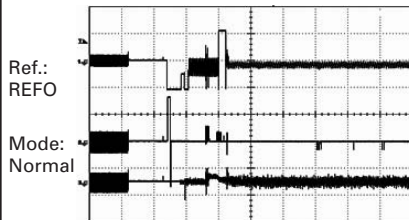
8 cm CD Loading operation



B

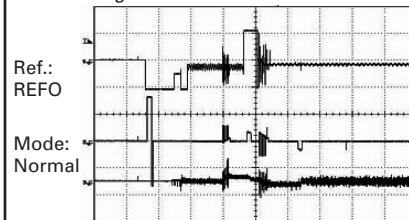
⑦ SIN 1V/div 2s/div
⑧ CIN 500mV/div
⑨ TIN 500mV/div

12 cm CD-DA setup operation after loading



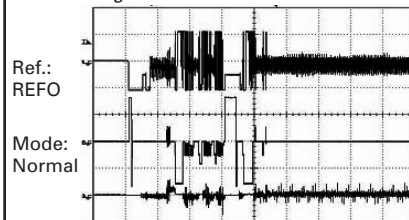
⑦ SIN 1V/div 1s/div
⑧ CIN 500mV/div
⑨ TIN 500mV/div

12 cm CD-ROM(1 session) setup operation after loading



⑦ SIN 1V/div 2s/div
⑧ CIN 500mV/div
⑨ TIN 500mV/div

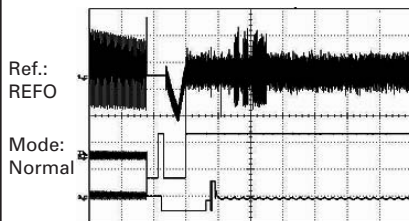
12 cm CD-ROM(3 sessions) setup operation after loading



C

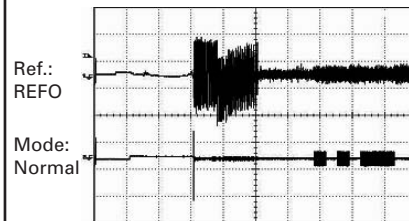
⑩ FIN 200mV/div 500ms/div
⑪ RFOK 2V/div
⑦ SIN 2V/div

12 cm CD-DA Source On setup operation



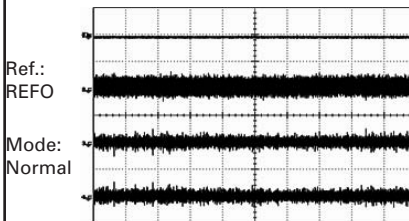
⑫ TE 500mV/div 200ms/div
⑬ FE 500mV/div

Source On setup operation



⑬ FE 500mV/div 20ms/div
⑩ FIN 500mV/div
⑫ TE 500mV/div
⑨ TIN 500mV/div

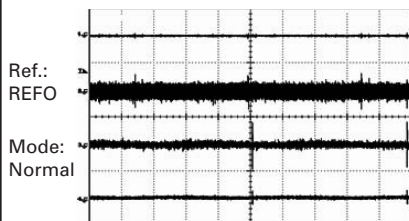
CD-DA Play operation



D

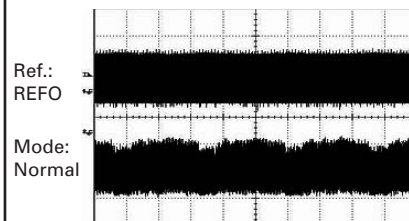
⑬ FE 500mV/div 20ms/div
⑩ FIN 500mV/div
⑫ TE 500mV/div
⑨ TIN 500mV/div

CD-ROM play operation(Regular track Jump)



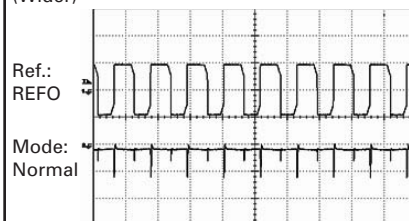
⑭ MDX 1V/div 50ms/div
⑦ SIN 200mV/div

Spindle waveform during play operation



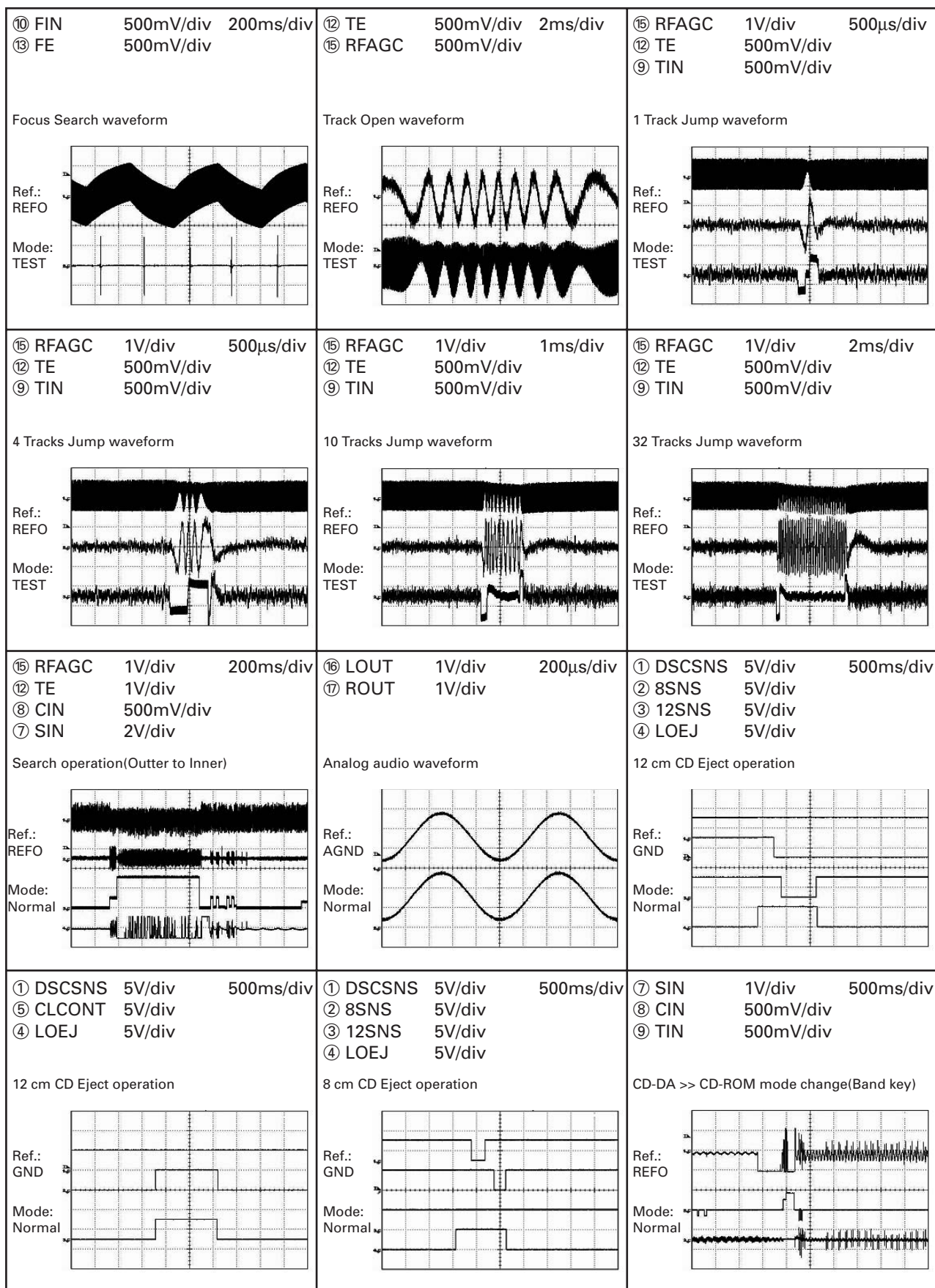
⑭ MDX 2V/div 5μs/div
⑦ SIN 1V/div

Spindle waveform during play operation (Wider)



E

F



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