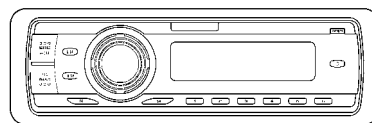


Service Manual



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

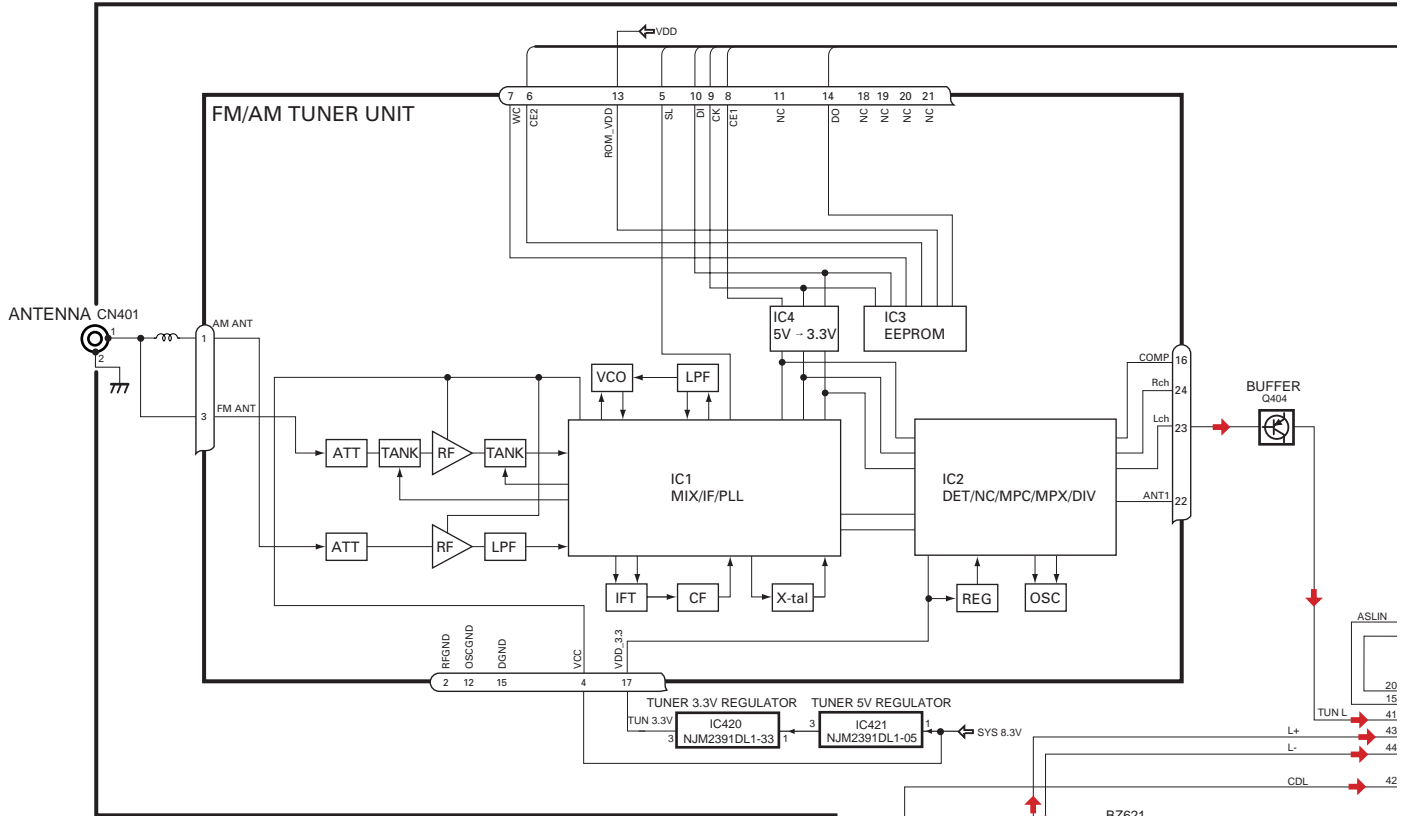


For details, refer to "Important Check Points for Good Servicing".

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

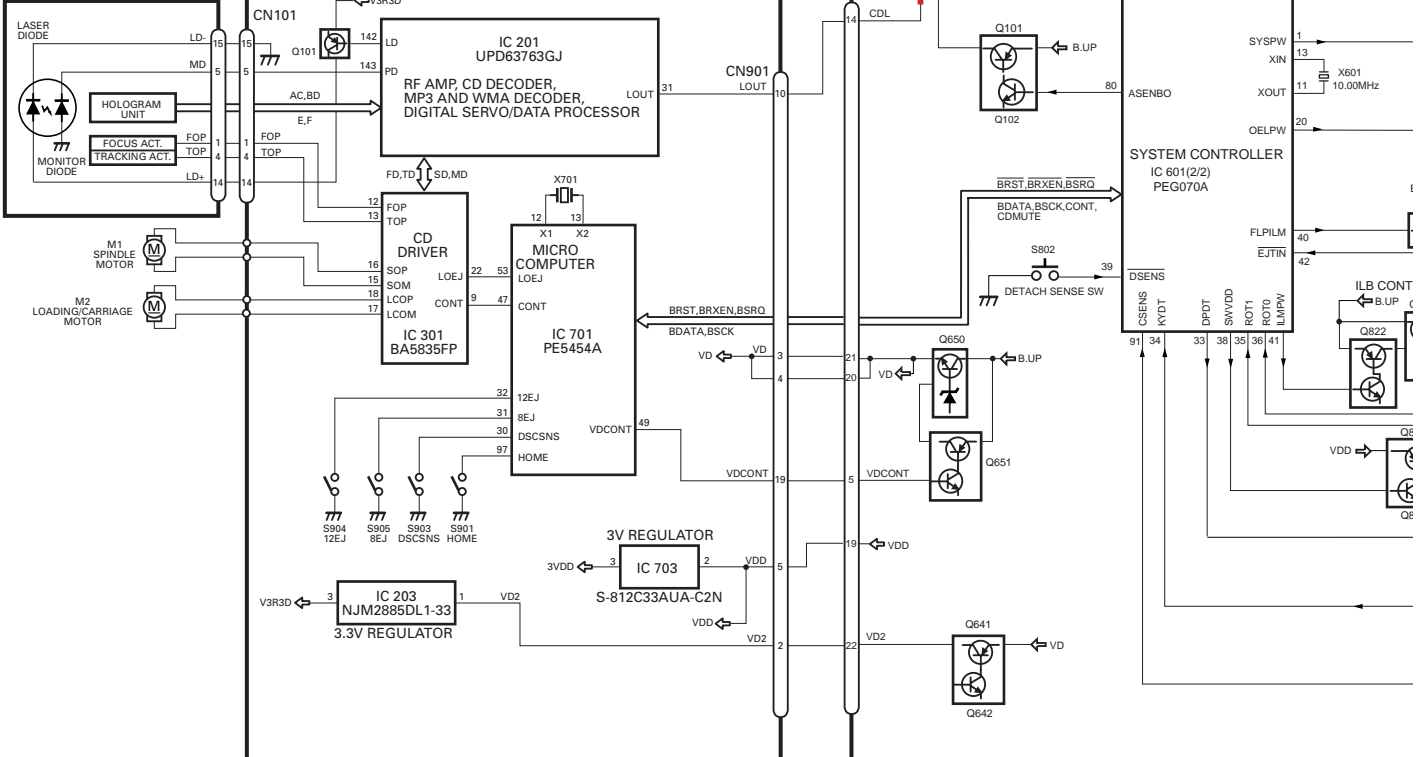
3.1 BLOCK DIAGRAM

A TUNER AMP UNIT



D CD CORE UNIT(S10.1)

PICKUP UNIT (P9.9MP3)(SERVICE)

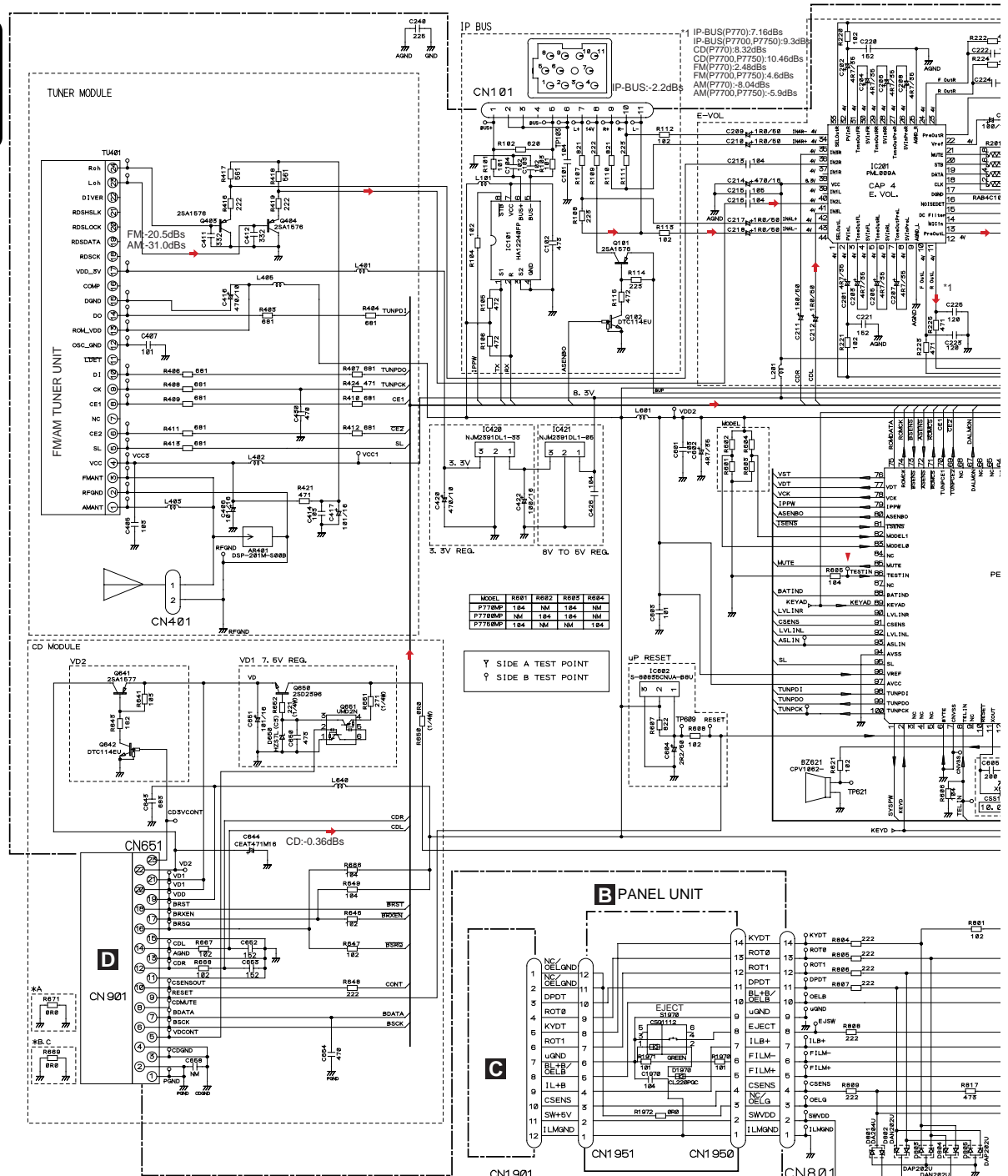
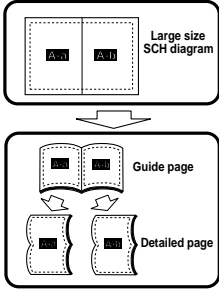




3.2 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)

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

A-a



NOTE :
 □ Symbol indicates a resistor.
 No differentiation is made between chip resistors and discrete resistors.
 □ Symbol indicates a capacitor.
 No differentiation is made between chip capacitors and discrete capacitors.
 The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

For resistors and capacitors in the circuit diagrams, their resistance values or capacitance values are expressed in codes.

Ex. *Resistors
 Code Practical value
 123 12k ohms
 103 10k ohms

*Capacitors
 Code Practical value
 103 0.01μF
 101/10 100μF/10V

* A DEH-P770MP/XN/UC
 B DEH-P770MP/XN/UC
 C DEH-P770MP/XN/ES

A B

DEH-P770MP/XN/UC

A TUNER AMP UNIT

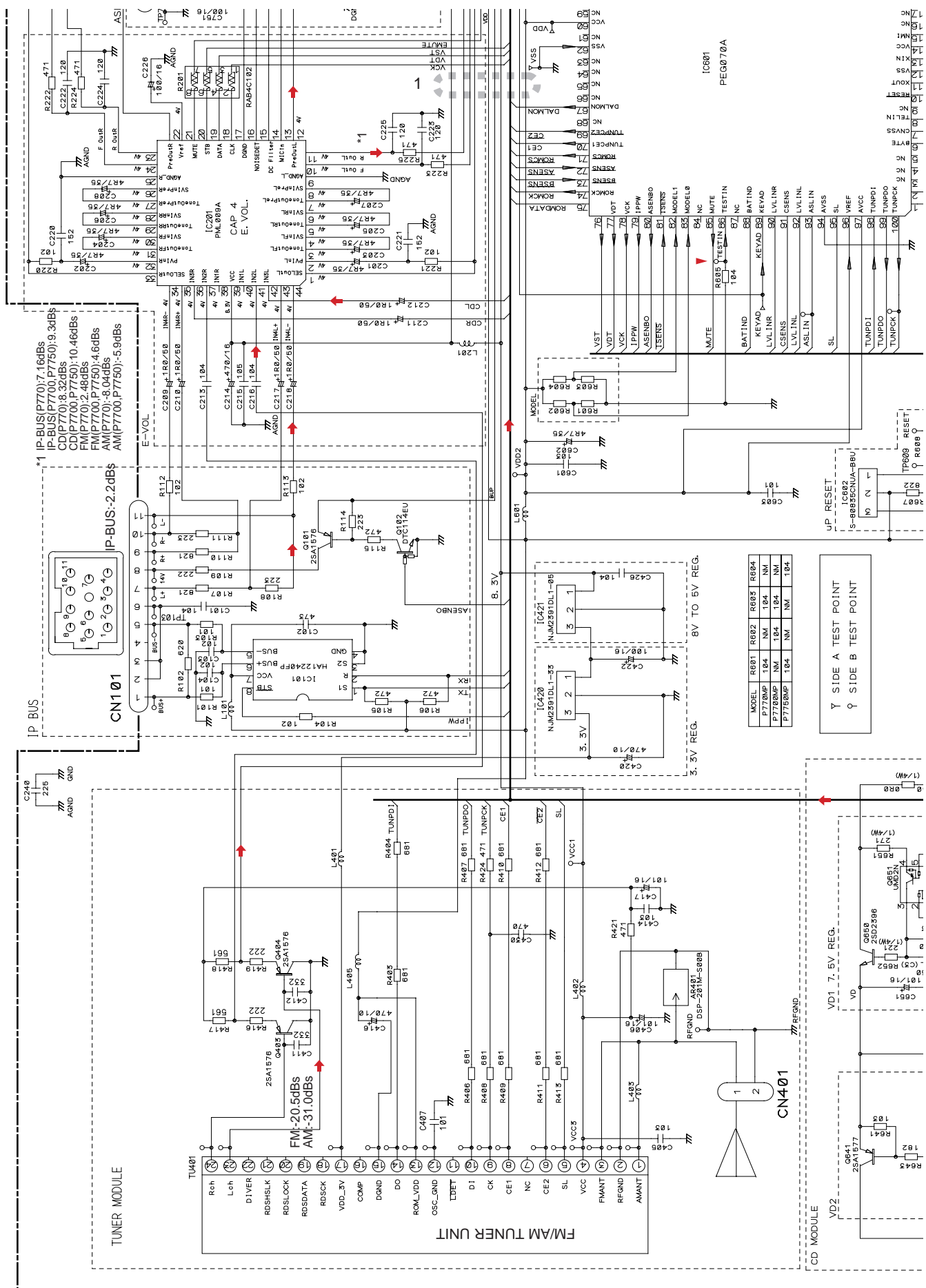


A

F

A-a A-b

A-a



A

B

C

D

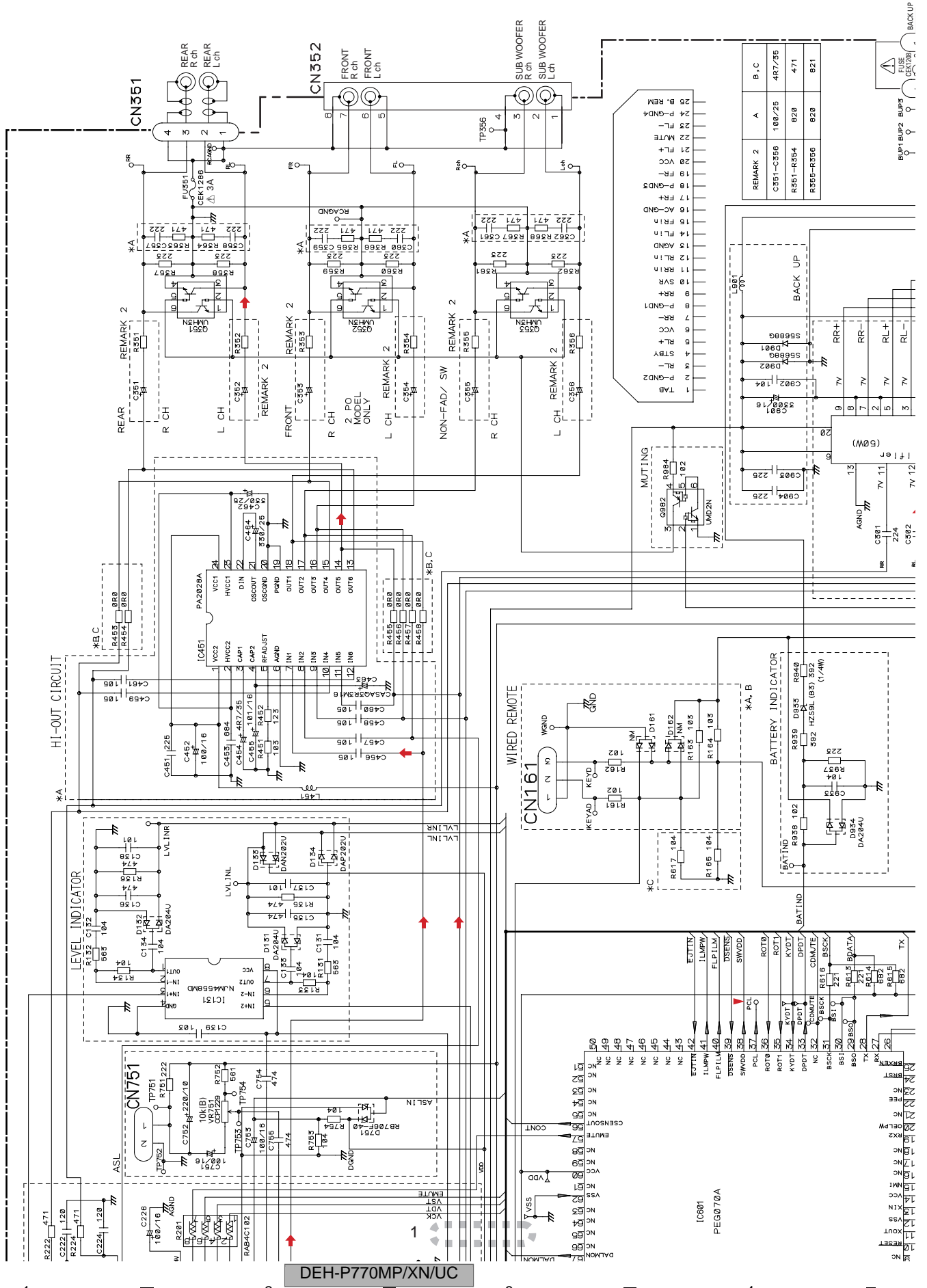
E

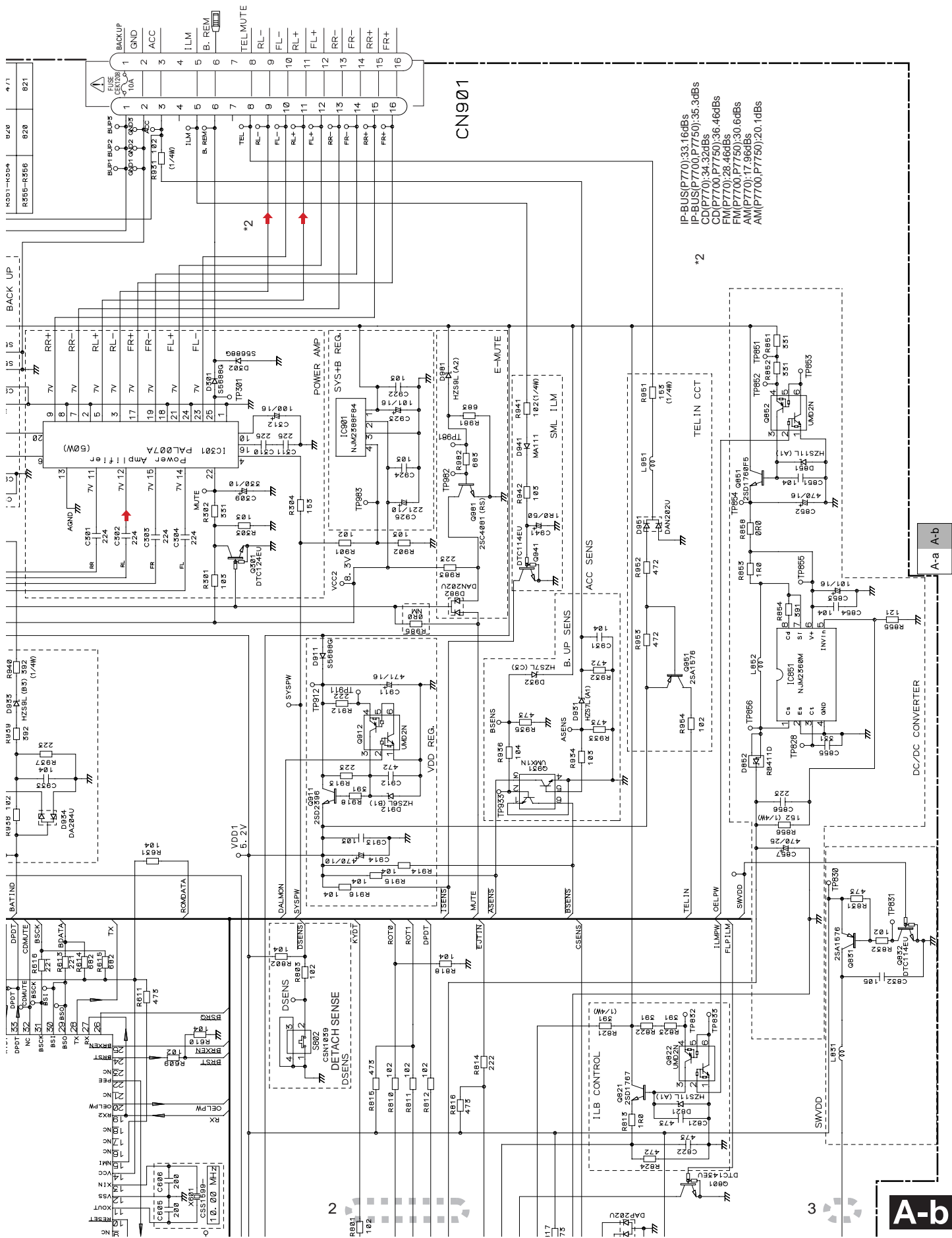
F

A TUNER AMP UNIT

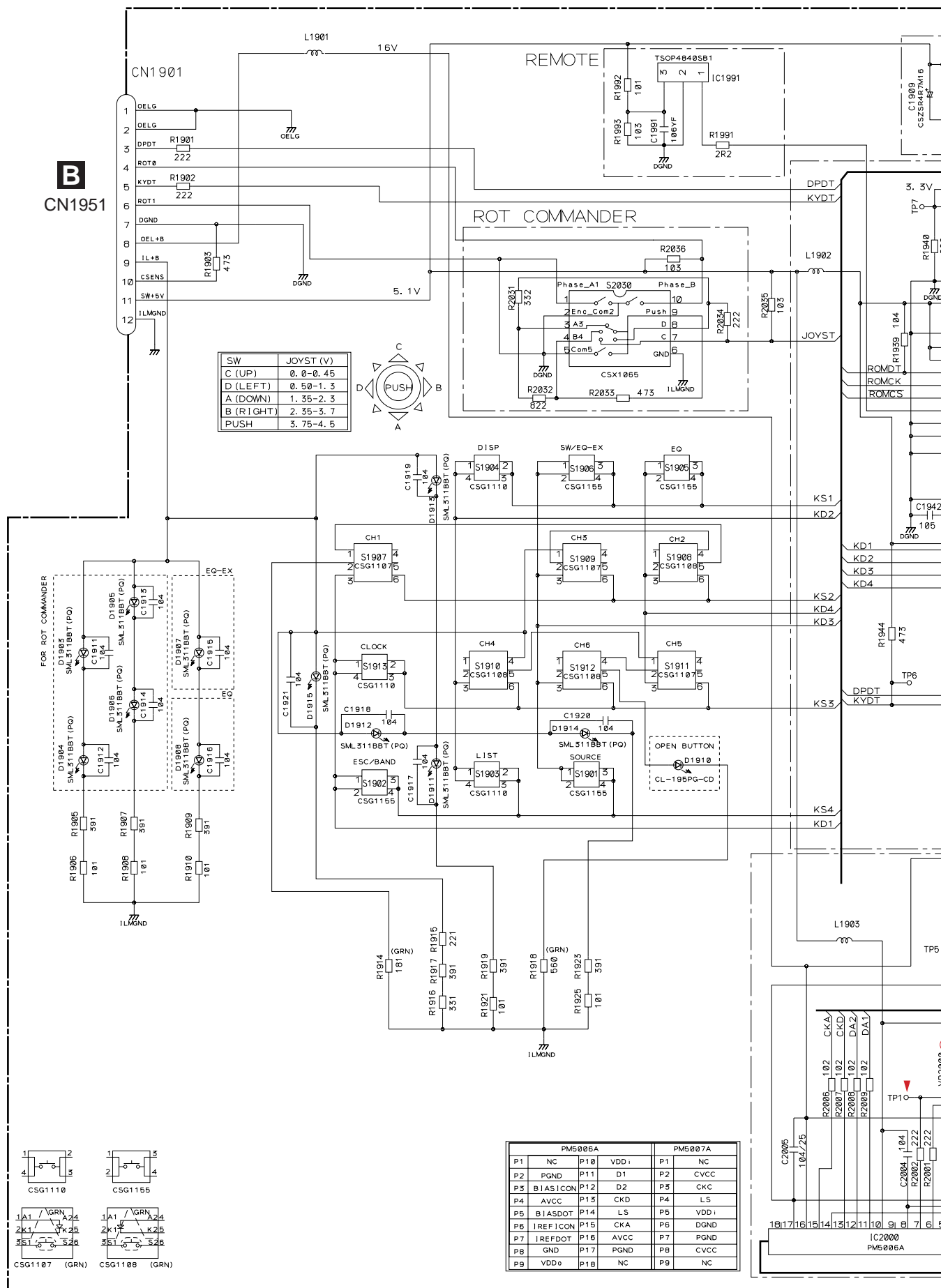
A-a A-b

A-b





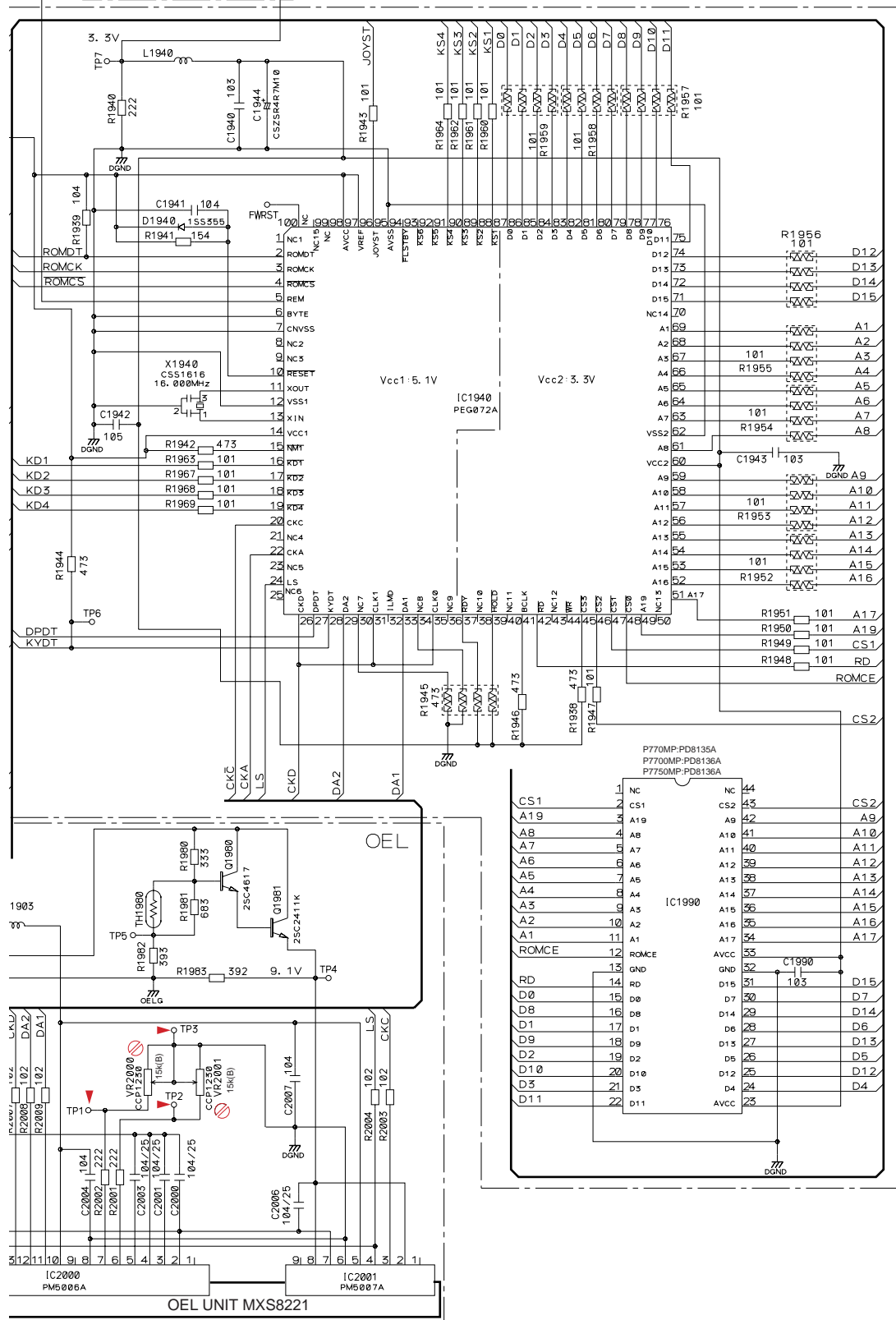
3.3 KEYBOARD UNIT



KEYBOARD UNIT

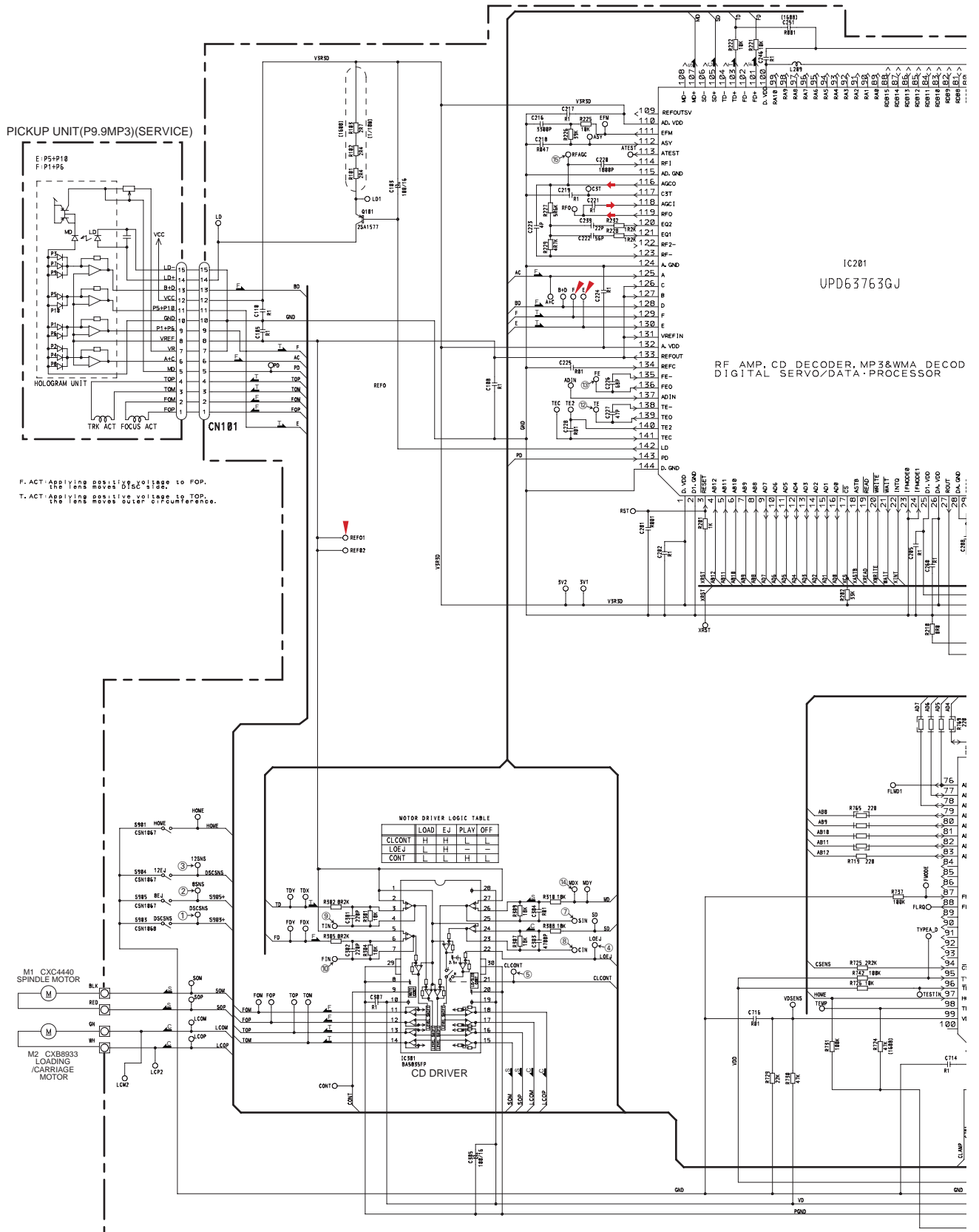
3.3 V REGULATOR

SYSTEM MICROCOMPUTER

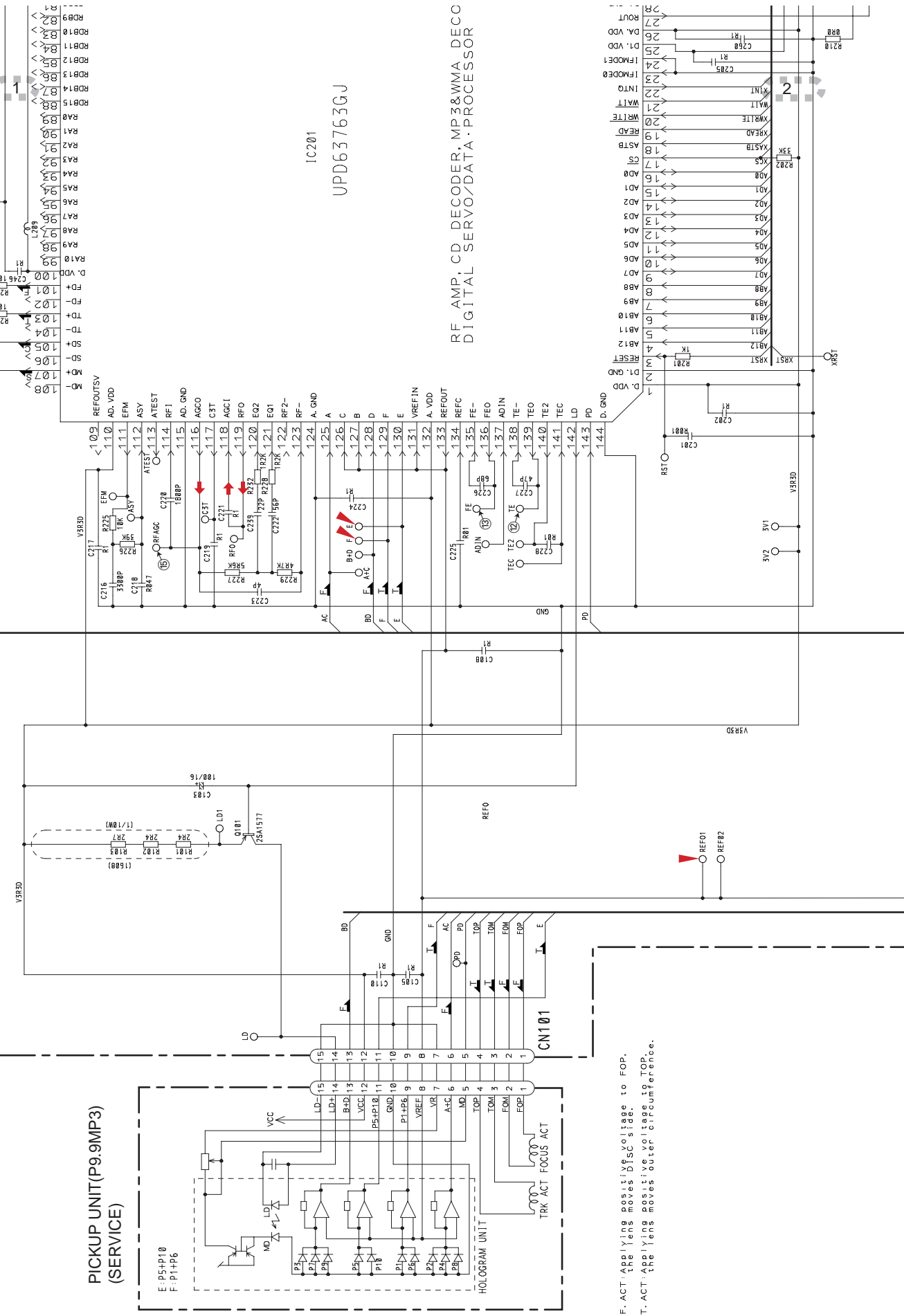


3.4 CD MECHANISM MODULE(GUIDE PAGE)

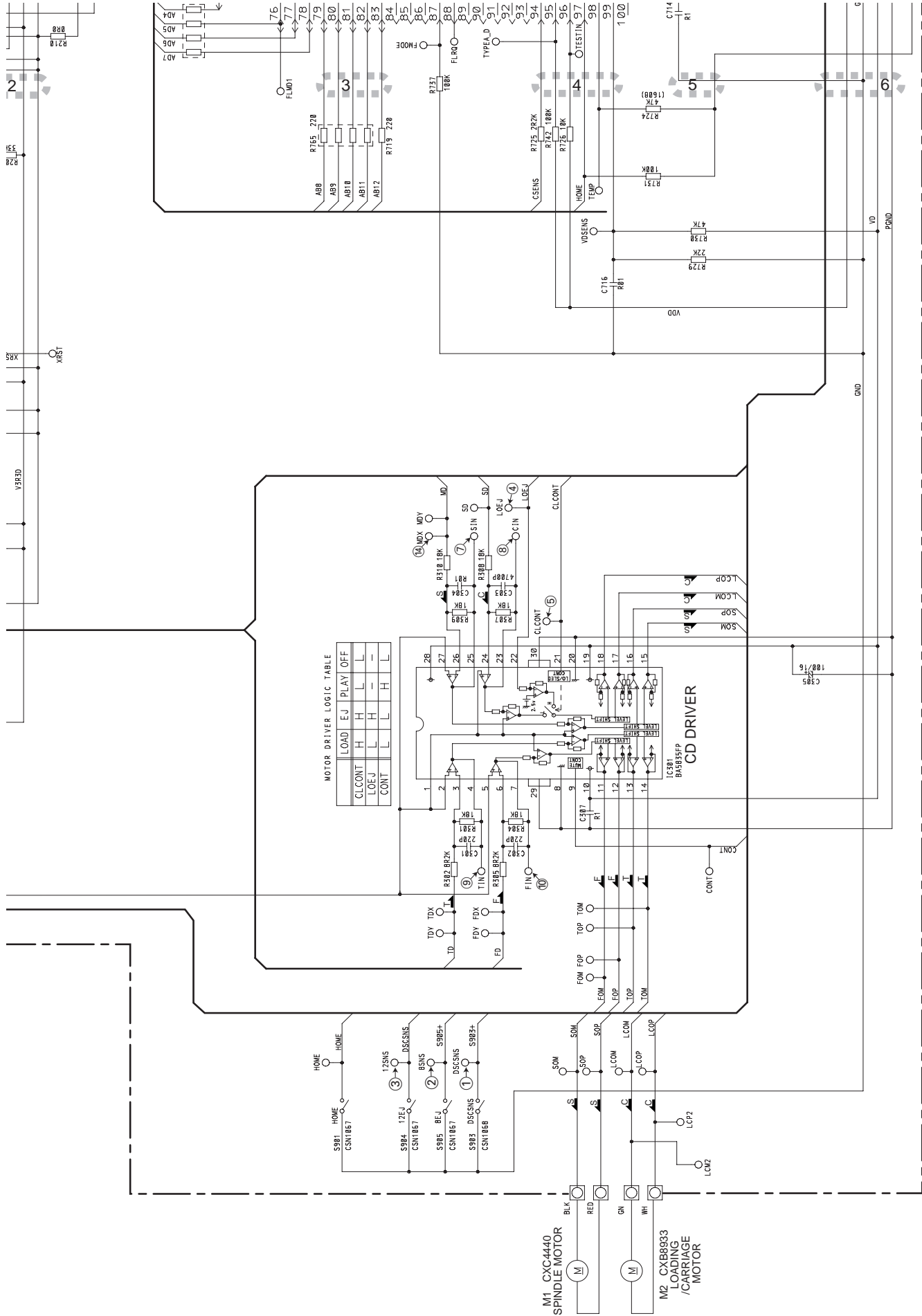
D-a



F



F. ACT: Applying positive voltage to FOP, the lens moves DISC side.
T. ACT: Applying positive voltage to TOP, the lens moves outer circumference.



D-a

D-a D-b

D-b

F

E

D

C

B

A

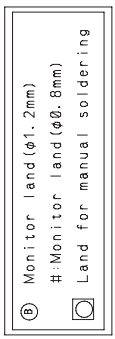
A B C D E F

1 2 3 4

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.



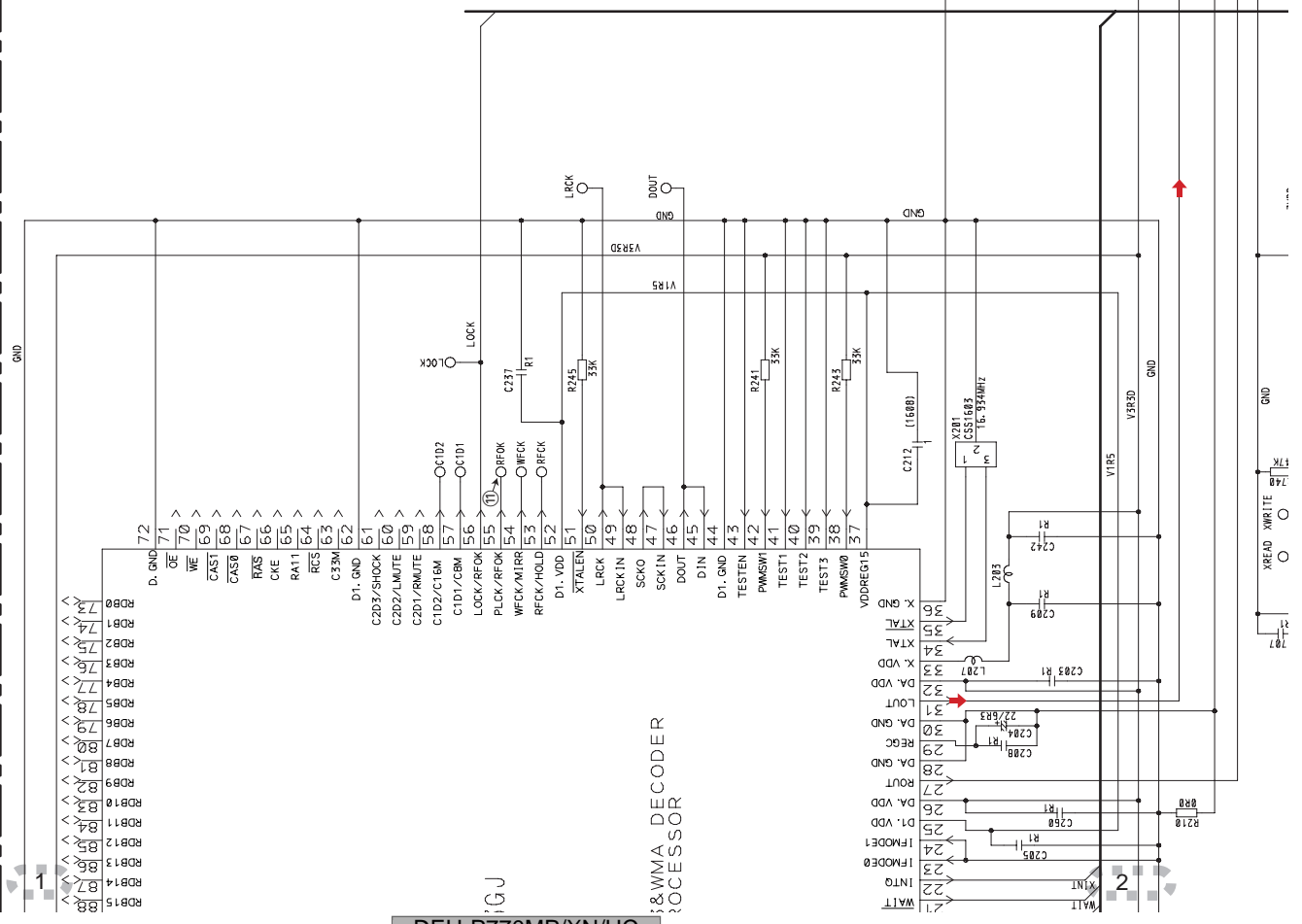
SWITCHES:
CD CORE UNIT(S10.1)
S901: HOME SWITCH.....ON-OFF
S903: DSCS SWITCH.....ON-OFF
S904: 12EJ SWITCH.....ON-OFF
S905: 8EJ SWITCH.....ON-OFF

The underlined indicates the switch position.

- SIGNAL LINE
- FOCUS SERVO LINE
- TRACKING SERVO LINE
- CARRIAGE SERVO LINE
- SPINDE SERVO LINE

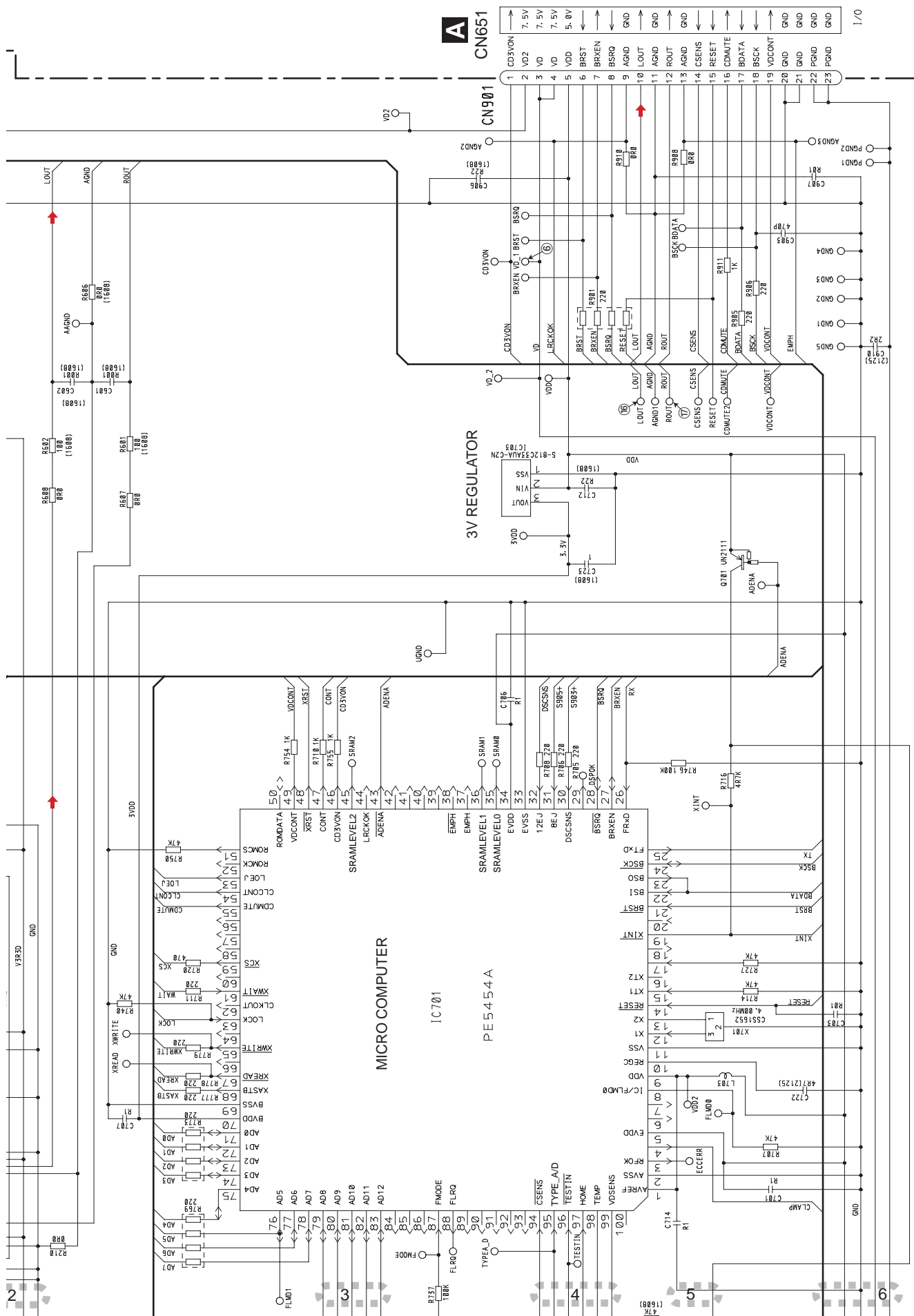
D CD CORE UNIT(S10.1)

3.3V REGULATOR



DEH-P770MP/XN/UC

1 2 3 4



DEH-P770MP/XN/UC

D-b

A B C D E F

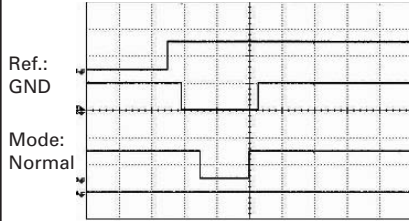
Waveforms

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

A

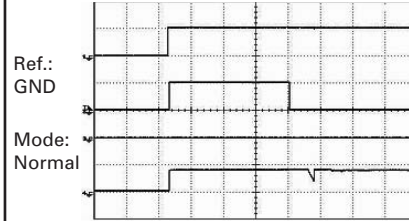
① DSCSNS 5V/div 500ms/div
② 8SNS 5V/div
③ 12SNS 5V/div
④ LOEJ 5V/div

12 cm CD Loading operation



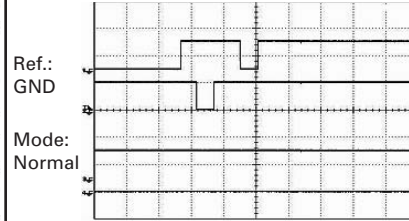
① DSCSNS 5V/div 500ms/div
⑤ CLCONT 5V/div
④ LOEJ 5V/div
⑥ VD 10V/div

12 cm CD Loading operation



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

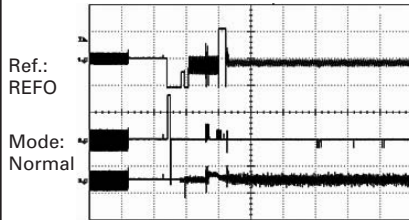
8 cm CD Loading operation



B

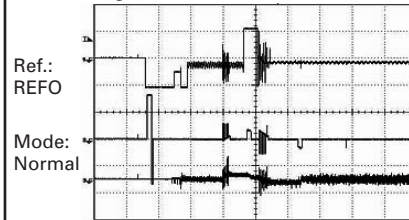
⑦ SIN 1V/div 2s/div
⑧ CIN 500mV/div
⑨ TIN 500mV/div

12 cm CD-DA setup operation after loading



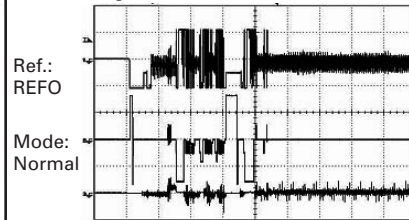
⑦ SIN 1V/div 1s/div
⑧ CIN 500mV/div
⑨ TIN 500mV/div

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



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

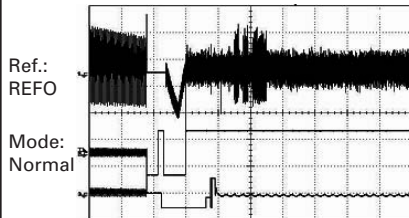
12 cm CD-ROM(3 sessions) setup operation after loading



C

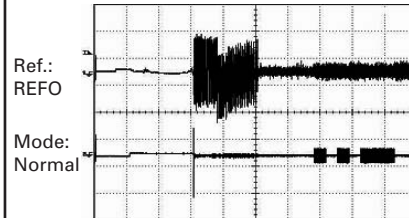
⑩ FIN 200mV/div 500ms/div
⑪ RFOK 2V/div
⑦ SIN 2V/div

12 cm CD-DA Source On setup operation



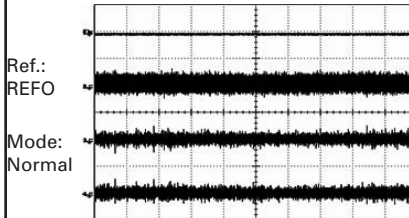
⑫ TE 500mV/div 200ms/div
⑬ FE 500mV/div

Source On setup operation



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

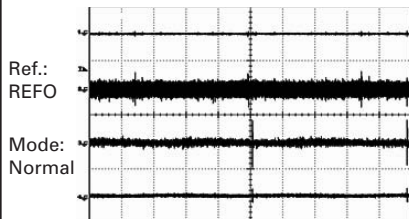
CD-DA Play operation



D

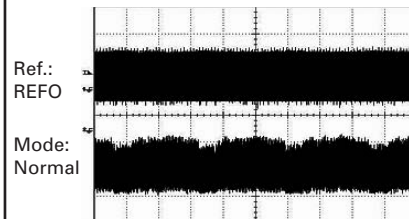
⑬ FE 500mV/div 20ms/div
⑩ FIN 500mV/div
⑫ TE 500mV/div
⑨ TIN 500mV/div

CD-ROM play operation(Regular track Jump)



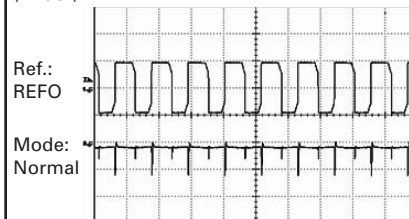
⑭ MDX 1V/div 50ms/div
⑦ SIN 200mV/div

Spindle waveform during play operation



⑭ MDX 2V/div 5μs/div
⑦ SIN 1V/div

Spindle waveform during play operation (Wider)



E

F

