NEC

PART NO. 599910513

SCHEMATIC DIAGRAMS

COLOR MONITOR **MultiSync® FE750**

MODELS FE750 (A) / (B) /(R)

NEC Corporation

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WARNING

The SERVICE PERSONNEL should have the appropriate technical training, knowledge and experience necessary to:

- Be familiar with specialized test equipment, and
- Be careful to follow all safety procedures associated with high voltage CRT circuit designs to minimize danger to themselves and their coworkers.

To avoid electrical shocks, this equipment should be used with an appropriate power code and be connected only to a properly grounded AC outlet.

This equipment utilized a micro-gap power switch. Turn off the set by first pushing the front panel power switch. Next, remove the power cord from the AC outlet.

To prevent fire or shock hazards, do not expose this unit to rain or moisture.

This symbol warns the personnel that un-insulated voltage within the unit may have sufficient magnitude to cause electric shock.

This symbol alerts the personnel that important literature concerning the operation and maintenance of this unit has been included.
Therefore, it should be read carefully in order to avoid any problems.

PRODUCT SAFETY CAUTION

1. When parts replacement is required for servicing, always use the manufacturer's specified replacement.

2. Comply with all caution and safety-related notes on the product display chassis and picture tube.

3. When replacing the component, always be certain that all the components are put back in the place.

4. When servicing display monitor unit, it is required that the provided lead dress is used in the high voltage circuit area.

5. It is also recommended that shatter proof goggles are worn, when removing installing and handling the picture tube. People not equipped with the proper precautionary measures mentioned should keep the picture tube away from body while handling.

6. As for a connector, pick and extract housing with fingers properly since a disconnection and improper contacts may occur, when wires of the connector are led.

7. Use a proper screwdriver. If you use screwdriver that does not fit, you may damage the screws.

8. X-radiation precaution

   This product contains critical electrical and mechanical parts essential for X-ray protection.

   Normal anode voltage is 25.0 kV at zero beam picture tube current under AC 100-120V/220-240V input, and anode voltage must not exceed the voltages shown below under any operation condition.

   To measure anode voltage set brightness for very dim picture, and use a high impedance volt meter between chassis and anode lead and measure high voltage.

   If high voltage exceeds the specifications on the chassis schematic diagram, take the necessary corrective action.

Table MAXIMUM ANODE VOLTAGE

beam current	at 0 mA	at 0.7 mA	at 1.4 mA
A/B/R	34.5 kV	32.5 kV	31.0 kV

9. When you degauss the set with an external degaussing coil, you must keep strictly item " * Notes about degaussing method " of ADJUSTMENT PROCEDURES.

FE750
SCHEMATIC DIAGRAMS

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NEC MODEL FE750(A)(B)(R) MAIN PWB SCHEMATIC DIAGRAM (1/4)

MAIN PWB PWE-628

NOTES
UNLESS OTHERWISE INDICATED : RESISTANCE IN OHMS (Ω): 1/6W
CAPASITANCE IN FARADS (F): 50V

CN-AC OPEN
IN6U1
F6U1 4A 250V
FH6U1 FH6U2
J6U1 NL
J6U3 OPEN
FL6U1 FL15mH 1.5A
C6U4 0.47u 250V FILM
J6U2 NL
J6U4 OPEN
FG1 FG2
R6U1 820K 1/2W
SW6U1 SDKLA1
PFC_IN
PFC_OUT
400V
D6U1 KBU605G
C6U8 180u 450V
C6U7 1000p 400V·250V
TH6U1 SCK-075L
D626 ERA15-04
Z1 AC
DEGAUSSING COIL
Z2 CNZ
AC
TH691
RL691 ALA2PF12 OSA-SS-212DM5
D691 1SS133
R611 150K 1/6W
R612 150K 1/6W
R622 47K 2W
Q611 2SC4505
Q612 2SC1623 L5,L6
R613 22K 1/10W
R614 47K 1/10W
ZD611 MTZJ20B RD20ESB(2)
D627 1SS133
PRI_GND
C601 0.1u 400V FILM
C602 OPEN
R601 100K 3W
D601 RU1P
L623 ZBF503D
L621 ZBF503D
Q601 2SK2655
R623 100K 1/10W
R624 1.0K 1/10W
R621 0.56 3W
ZD621 RD27EB(4)
750Vo-p
0V
23Vo-p
0V
125Vp-p
C621 330u HT
D621 ERA92-02
R640 47 1/2W
L622 100uH
T601
R6K9 0.22 1/2W FUSIBLE
L6K1 ZBF503D
D6K1 ERA92-02
C6K1 1000u 10V HT
R6K1 1.5K 1/10W
L6K2 NL
Q6K1 2SA1273Y
R6K8 OPEN
R6K2 56K 1W
Q6K2 2SC3415S M,N,P
R6K3 22K 1/10W
CN-FG
37Vp-p
GND
L6A1 ZBF503D
D6A1 RG1C
C6A1 100u 250V HT
R6A1 OPEN
+220V
600Vp-p
PMS_ON
290Vp-p
L6E1 ZBF503D
D6E1 FMG-G26S
C6E1 470u 100V HT
+80V
24Vp-p
R6F9 0.1 1/2W FUSIBLE
L6F1 ZBF503D
D6F1 YG901C2
L6F2 22uH 1.6A
C6F1 3300u 25V HT
+15V
R6G9 0.22 1/2W FUSIBLE
L6G1 ZBF503D
D6G1 ERB93-02
L6G2 47u 1.2A
C6G1 2200u 16V HT
+8V
70Vp-p
65Vp-p
C6H1 2200u 25V HT
R6H1 10K 1/10W
L6H1 ZBF503D
F6H1 2.5A
D6H1 ERC91-02
L6H2 22uH 1.6A
-15V
R6R1 4.7K 1/10W
Q6R1 DTC114EKA
PMS_OFF
PC6P1 PC123 FY2
PC621 PC123 FY2
PFC_ON
37Vo-p
GND
R671 680 1/2W
R672 1.5K 1/10W
IC671 SE080N
Q691 2SC1623 L5,L6
R692 2.7K 1/10W
R693 2.7K 1/10W
DEG
C671 0.1u FILM
C631 OPEN
R6L2 100K 1/10W
D6L2 1SS133
ZD6L1 MTZJ12C
Q6L1 2SK701
R6L1 10 1/10W
R6L5 22K 1/4W
C6L2 0.022u FILM
T6L1
1/2H_OUT
3.8Vo-p
R691 39 1/4W
GND
SY2
SY1
CNSY OPEN

22.5V
ZD622 MTZJ27B RD27ESB(2)
R625 1.8K 1/2W
R6P5 27K 1/10W
R637 10K 1/10W
D625 1SS133
Q622 2SA812 M5,M6
R636 100 1/10W
Q623 2SC1623 L5,L6
R635 1.0K 1/10W
C629 0.1u
Q624 OPEN
C632 OPEN
R641 OPEN
R642 OPEN
ZD623 OPEN
C628 2.2u
R638 10K 1/10W
D624 1SS133
D623 1SS133
45Vp-p

4.7Vo-p
0V
IC621 FA13842
Q621 2SC1623 L5,L6
R627 3.3K 1/10W 1%
C626 0.01u
C623 0.1u
R629 10K 1/10W
R628 10K 1/10W
R630 1.0K 1/10W
R631 3.9K 1/10W
C624 OPEN
C622 0.027u
INTERNAL BIAS
5V REF
S/R
UVLO
16V
34V
6V
VREF GOOD LOGIC
OSC
ERROR AMP
2.5V
2R
R
1V
PWM LATCH
CURRENT SENSE COMPARATOR
VREF
RT/CT
VFB
COMP
VCC
OUTPUT
GROUND
ISENSE
C625 0.1u
D622 OPEN
R634 10 1/10W
R633 OPEN
R632 22 1/10W
D6L1 1SS133
R6L4 22 1/10W
C6L1 0.01u FILM
R6L3 120 1/4W
D6L3 ERA92-02
C627 1000p
R626 4.7K 1/10W

版/年月日/記事
第1版
1999.12.08

タイトル
MODEL
FE750(A)(B)(R)
MAIN PWB (1/4)
SCHEMATIC DIAGRAM
基本回路図
電圧波形図
クリティカルコンポーネント図

08109353-E
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08109355-E

SHT /

NEC MODEL FE750(A)(B)(R) MAIN PWB SCHEMATIC DIAGRAM (2/4)

MAIN PWB PWE-628

PFC_IN
PFC_ON
PRI_GND
+15V_S
PFC_OUT
1/2H_OUT
AFC_TTL
+5V
FH7
FH6

FL6X1 FL125uH 2A
C6X1 1.5u 400V FILM
R6X2 680K 1%
R6X3 560K 1%
R6X1 220K 2W
D6X2 1SS133
L6X1
R6X6 100 1/4W
C6X5 0.012u FILM
400Vo-p
0V
D6X1 FMG-G26S
L6X3 ZBF503D
R6Y1 470K 1%
R6Y2 470K 1%
R6Y4 150K 1%
R6Y3 6.8K 1/10W 1%
R6Y5 15K 1/10W
R6X5 68K 1/10W
C6X4 1u FILM
18Vo-p
0V
L6X4 ZBF503D
IC6X1 L6561
ZD6X1 MTZJ9.1A RD9.1ESB(1)
ZD6X3 MTZJ9.1A RD9.1ESB(1)
17.1V
C6X2 100u HT
Q6X3 DTC363EK
R6Y7 OPEN
C6Y2 0.1u
C6X3 0.01u
R6X4 10K 1/10W 1%
R6X8 10 1/4W
L6X2 ZBF503D
Q6X1 2SK2996
R6X7 100K 1/10W
ZD6X2 RD27EB(4)
R6X9 0.27 3W

INV, COMP, ZCD, DISABLE, STARTER, VOLTAGE REGULATOR, OVER-VOLTAGE DETECTION, 2.5V, INTERNAL SUPPLY 7V, UVLO, Vref2, DRIVER, MULTIPLIER, MULT, Vcc, GD, GND, CS

5.1Vo-p
GND
Q6L4 OPEN
Q6L5 OPEN
Q6L2 OPEN
Q6L3 OPEN
J6M8 NL
R6L9 OPEN
R6L6 OPEN
R6L7 OPEN
R6L8 OPEN
R6L0 OPEN
R6LA OPEN
C6L3 OPEN
C6L4 OPEN
IC6L1 OPEN
IC6L1 OPEN
IC6L1 OPEN

NOTES
UNLESS OTHERWISE INDICATED : RESISTANCE IN OHMS (Ω): 1/6W
CAPASITANCE IN FARADS (F): 50V

版/年月日/記事
第1版 1999.12.08

タイトル
MODEL FE750(A)(B)(R) MAIN PWB (2/4) SCHEMATIC DIAGRAM
基本回路図 電圧波形図 クリチカルコンポーネント図
08109353-E ～ 08109355-E
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MODEL FE750/FE950/FE1250(A)(B)(R)
MAIN PWB SCHEMATIC DIAGRAM(3/4)

版/年月日/記事
第1版
1999. 12. 08

TO CRT PWB — CN-B — TO OSC PWB — CNDB.

B1 GND, B2 AFC_TTL, B3 ABL, B4 +12V, B5 V_PIMP, B6 NC, B7 +80V, B8 NC, B9 +220V, B10 VDF, DB1 HDF, DB2 VSC, DB3 HSC, DB4 GND, DB5 GND, DB6 AFC_TTL, DB7 H_DRV, DB8 V_BLK, DB9 EW, DB10 V_SAW, DB11 +9V, DB12 -15V, DB13 +15V, DB14

+220V, +80V, +15V_S, -15V_S, +12V

IC851 PQ20WZ5U

R851 68 1W; IN, GND, V_ADJ, ON/OFF, OUT; R853 3.0K 1/10W 1%; R852 2.7K 1/10W 1%; C851 100u 16V HT; C801 100u 16V HT

IC801 HD6433577

P40/IRQ2/ADTRG, P41/IRQ1, P42/IRQ0 HS_IRQ, P43 LED, P44 DSP_RESET, P45 PLL_LOCK, P46 DSP_POC, P47/SDA0 P_SDA, P50/TxD0 SET_ID1, P51/RxD0 SET_ID2, P52/SCK0/SCL0 P_SCL, RES, NMI, VCL/VCC, STBY, VSS, XTAL, EXTAL, MD1, MD0, AVSS, AN0, AN1, AN2, AN3, P74/AN4 ADEW, P75/AN5 ADNS, P76/AN6 DRIFT, P77/AN7 TEMP, AVCC, VBACKI/P60, VSYNCO/P61, VSYNCI/P62, CLAMPO/P64, HSYNCI/P65, CSYNCI/P66, HSYNCO/P67, VCC, CBLANK/PW15/P27, PW145/P26, PW13/P25, SCL1/PW12/P24, SDA1/PW11/P23, PW10/P22, PW9/P21, VSS, PW8/P20, PW7/P17, PW6/P16, PW5/P15, PW4/P14, PW3/P13, PW2/P12, PWX1/PW1/P11, PWX0/PW0/P10, P30, P31, P32, P33, P34, P35, P36, P37

DEG, FH6, FH7, FH1, FH2, FH3, FH4, FH5, H_SIZE, HS_MAX, ZCOIL, RU, RL, LU, LL, FH0, PMS_ON, PMS_OFF, WINK, HD, SOG, HS, CP, VS

R80H OPEN; R809 100 1/10W; R80E 100 1/10W; R80F 10K 1/10W; R80G OPEN; R81M OPEN; R81K OPEN; R828 1.0K 1/8W; R827 1.0K 1/10W; R826 10K 1/10W; R825 1.0K 1/10W; R824 10K 1/10W; R823 470 1/10W; R822 10K 1/10W; R821 470 1/10W; R810 10K 1/8W; R82C 100 1/10W; R82A 100 1/10W; R82T 100 1/8W; R81H 0.0 1/8W; R829 100 1/8W; R82P 22K 1/10W 1%; R82N 15K1/10W 1%; R82M 3.3K1/10W; R82K 3.3K1/8W; R82H 3.3K1/8W; R828 3.3K1/8W; R82F 3.3K1/8W

C829 0.1u 25V; C828 0.1u 25V; C827 0.1u 25V; C826 0.1u 25V; C825 0.1u 25V; C824 0.1u 25V; C823 0.1u 25V; C82A 10u; C82C 10u

	R801	R802	R803	R804
FE950	OPEN	0.0	OPEN	0.0
FE750	0.0	OPEN	OPEN	0.0
FE1250	OPEN	0.0	0.0	OPEN

R801 OPEN; R802 0.0 1/10W; R803 0.0 1/10W; R804 0.0 1/10W; R805 OPEN; R806 OPEN; R807 OPEN; R808 100K 1/10W; R80C 470K 1/10W; R80A OPEN

C804 10p; C805 10p; X801 20MHz; C80A 0.1u 25V; C80C 0.1u 25V; C80E 0.1u 25V

IC491 PQ20WZ5U

IN, GND, V_ADJ, ON/OFF, OUT; R491 8.2 2W; R492 1.8K 1/10W 1%; R493 1.3K 1/10W 1%; HEATER

IC803 PST994D

IN, OUT, GND; C802 10u; 20MHz 5.0Vp-p

R111 15 1/2W; R112 180 1/10W 1%; R113 330 1/10W 1%; R114 1.0K 1/10W 1%; R115 680 1/10W 1%; R116 750 1/10W 1%

Q111 2SA1037AK P.Q.S; Q112 2SA1037AK R.Q.S; Q113 DTC114YKA; Q114 DTC114YKA; TP-M3 OPEN

KE-D, KU+, KPRB, LED_G, LED_A

R811 1.0K 1/10W; R812 1.0K 1/10W; R813 1.0K 1/10W

DRIFT; R817 NL; R818 OPEN; R819 OPEN; R81A 0.0 1/10W; C811 OPEN; C812 OPEN; C813 0.1u 25V; IC151 OPEN; R151 OPEN; C151 OPEN; C153 OPEN

VD; R81C 10K 1/10W; R81G OPEN; R81E 0.0 1/10W; R81F OPEN

5.0Vp-p V; 5.0Vp-p H

Q822 2SK2158

Q821 2SK2158

IC802 CAT24WC08 M24C08

VCC, WP, SCL, SDA, NC, NC, NC, VSS

IC422 BA4558F

R421 10K 1/10W; R422 10K 1/10W; R423 10K 1/10W; R424 10K 1/10W; R427 10K 1/10W 1%; R428 10K 1/10W 1%; C422 OPEN777; 11VP-P

IC401 LA7841

THERMAL PROTECTION; PUMP UP; -Vcc, +Vcc; R401 1.5K 1/10W; PA1004G; C402 0.1u 25V; C401 330u 25V HT; C406 0.1u 25V; C405 330u 25V HT; C403 220u HT; 30VP-P V; 57VP-P V; CNVDY

IC421 BA4558F

R425 10K 1/10W 1%; R426 10K 1/10W 1%; C421 OPEN; R429 56K 1/10W; R42A 2.7K 1/10W; D421 1SS133; C423 0.018u; R42C OPEN

IC422 BA4558F

R403 10K 1/8W 1%; R404 1.8K 1%; C407 0.22u 250V FILM; R402 1.0 1/2W; R405 1.2K 1/2W; R406 1.0 1W 1%

R471 5.6 1/2W; D472 OPEN; R472 330; Q471 2SD1207; ZD471 MTZJ12C; D471 1SS133; C471 0.01u 25V; C472 100u 16V HT

Q4P1 OPEN

R4P7 OPEN; R4P8 OPEN; R4P9 OPEN; R4P4 100 (FE750) OPEN; R4PA 10K (FE750) OPEN 1/10W

Q4P2 2SA1037AKR, Q, S

R4P3 1.5M 1% (FE750) OPEN; R4P6 1.5M 1% (FE750) OPEN; R4P1 68K (FE750) OPEN; R4P2 270K 1/10W 1% (FE750) OPEN; D4P1 1SS133 (FE750) OPEN; 2.0VP-P V, 8.0V

Q4P4 2SK1103

Q4P3 2SK1018 (FE750) OPEN

D4P2 OPEN; C4P1 2200u 6.3V (FE750) OPEN; R4P5 1.5M 1% (FE750) OPEN

D831 1SS133; D833 1SS133; D832 1SS133; D834 1SS133; R831 1.8K 1/10W; R832 1.8K 1/10W

C831 0.1u 25V; C424 0.1u 25V; C426 0.1u 25V; C425 0.1u 25V; C427 0.1u 25V; 15.7V, 13.8V, 3.1V, 2.5V, 8.0V, 2.0VP-P V

TP-M2

IC421 BA4558F

IC422 BA4558F

Q461 2SA2006; R461 10K; 16.0V, 15.7V, 15.2V

Q462 2SC5525; R463 10K; R464 1.5K 1W; R462 560 1W; -13.8V, -13.1V

Q464 DTA114WKA; Q463 DTC114EKA; TP-M1; 5.0V, 0V

R491 8.2 2W; 8.3V, 2.6V, 5.0V, 6.3V

R492 1.8K 1/10W 1%; R493 1.3K 1/10W 1%

R463 10K; R464 1.5K 1W; R462 560 1W

R471 5.6 1/2W; D472 OPEN; R472 330; Q471 2SD1207; ZD471 MTZJ12C; D471 1SS133; C471 0.01u 25V; C472 100u 16V HT; 15.7V, 13.2V, 12.6V

R421 10K 1/10W; R422 10K 1/10W; R423 10K 1/10W; R424 10K 1/10W; R427 10K 1/10W 1%; R428 10K 1/10W 1%; C422 OPEN777; 11VP-P V

THERMAL PROTECTION; PUMP UP; -Vcc, +Vcc; R401 1.5K 1/10W; PA1004G; C402 0.1u 25V; C401 330u 25V HT; C406 0.1u 25V; C405 330u 25V HT; C403 220u HT; 30VP-P V; 57VP-P V; CNVDY

R425 10K 1/10W 1%; R426 10K 1/10W 1%; C421 OPEN; R429 56K 1/10W; R42A 2.7K 1/10W; D421 1SS133; C423 0.018u; R42C OPEN

R403 10K 1/8W 1%; R404 1.8K 1%; C407 0.22u 250V FILM; R402 1.0 1/2W; R405 1.2K 1/2W; R406 1.0 1W 1%

C831 0.1u 25V; D831 1SS133; D833 1SS133; R831 1.8K 1/10W; R832 1.8K 1/10W; D832 1SS133; D834 1SS133

Q4P1 OPEN; R4P7 OPEN; R4P8 OPEN; R4P9 OPEN; R4P4 100 (FE750) OPEN; R4PA 10K (FE750) OPEN 1/10W

Q4P2 2SA1037AKR, Q, S; R4P3 1.5M 1% (FE750) OPEN; R4P6 1.5M 1% (FE750) OPEN; R4P1 68K (FE750) OPEN; R4P2 270K 1/10W 1% (FE750) OPEN; D4P1 1SS133 (FE750) OPEN; 2.0VP-P V, 8.0V

Q4P4 2SK1103; Q4P3 2SK1018 (FE750) OPEN; D4P2 OPEN; C4P1 2200u 6.3V (FE750) OPEN; R4P5 1.5M 1% (FE750) OPEN; 2.5V, 3.1V

C424 0.1u 25V; C426 0.1u 25V; C425 0.1u 25V; C427 0.1u 25V; 15.7V, -13.8V; TP-M2

IC421 BA4558F; IC422 BA4558F

DRIFT; -13.8V

PMS_OFF, PMS_ON

AFC_TTL, +5V, DEG, FH7, FH6, LED_A, LED_G, KPRB, KU+, KE-D, SOG, P_SDA, P_SCL, VS, HS, DSP_RES, DSP_PLL_LOCK, DSP_POC, VD, HD, SCL, SDA, PMS_OFF, +5V, CP, WINK, +8V, HEATER, +15V, -15V, ZCOIL, NC, RU, RL, LU, LL, HSC, VSC, HDF, VDF, GND, ABL

CNC — C6 GND, C5 LED_A, C4 LED_G, C3 KPRB, C2 KU+, C1 KE-D — TO CONTROL PWB

CN-S — S1 GND, S2 GND, S3 SOG, S4 P_SDA, S5 P_SCL, S6 VS, S7 HS, S8 GND, S9 — TO CRT PWB

CNDA. — DA1 GND, DA2 GND, DA3 DSP_RES, DA4 DSP_PLL_LOCK, DA5 DSP_POC, DA6 VD, DA7 HD, DA8 SCL, DA9 SDA, DA10 PMS_OFF, DA11 +5V — TO OSC PWB

CN-M — M1 SDA, M2 SCL, M3 CP, M4 +5V, M5 WINK, M6 +8V, M7 HEATER, M8 GND — TO CRT PWB

CNF — F1 +15V, F2 -15V, F3 +5V, F4 ZCOIL, F5 NC, F6 RU, F7 RL, F8 LU, F9 LL, F10 HSC, F11 VSC, F12 HDF, F13 VDF, F14 GND, F15 AFC_TTL, ABL — TO SUB PWB

タイトル
MODEL
FE750(A)(B)(R)
FE950(A)(B)(R)
FE1250(A)(B)(R)
MAIN PWB (3/4)
SCHEMATIC DIAGRAM
基本回路図
製図参照図
プリチカルコンポーネント図

08109347-E
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08109355-E

SHT /

NEC MODEL FE750/FE950/FE1250(A)(B)(R) MAIN PWB SCHEMATIC DIAGRAM (4/4)

版/年月日/記事
第1版
1999.12.08

+220V
+80V
+15V_S
-15V_S
+12V
H_SIZE
HS_MAX
EW
H_DRV
AFC_TTL
ABL
FG5V
F5V
CNFG

IC591 BA9761F
IC5A1 BA4558F
IC5A1 BA4558F
IC5A1 BA4558F
Q5G1 2SJ585
Q5F1 2SA1514K
Q5R1 2SK2645
T5R1
Q5A1 2SD1889
Q5E1 2SC2412K
Q2001 DTA114WKA
Q2002 2SC2412K
Q2003 2SA1037AK
Q552 IRLS530A
T551
Q571 DTC144EKA
Q581 2SD2396 K
VR581 VR 1K
SW581 SSSF022-S09N1
RL571 VE-12H5-K
MQ571
IC5P1 BA9762F
VR5T1 200K
VR2001 200K
TP2001

TO CRT Anode
TO CRT H.V
TO CRT PWB D.Focus
TO CRT PWB S.Focus
TO CRT Screen
TO CRT PWB CN-SC
TO SUB PWB DF1 DF2 DF3 DF4 DF5 DF6 DF7 DF8 CNDF

	FE750	FE950	FE1250
R591	12K	12K	18K

	FE750	FE950	FE1250
*6 R5A6	8.2K		12K

	FE750	FE950	FE1250
*8 Q561	2SC5587	2SC5589	2SC5453

	FE750 FE950	FE1250
*7 R55C	1.2	1.0

	FE750	FE950	FE1250
MQ571	SLA5082 SLA5081 SLA5070	SLA5082 SLA5081 SLA5070	SLA5081 SLA5070

	FE750	FE950	FE1250
*10 C561	4700p 1500V	5500p 1500V	5500p 1800V
*11 L571	15.5T	14.5T	13.5T
*12 L572	13.5T	12.5T	11.5T

	FE750	FE950	FE1250
D999	D1NL20U	OPEN	
*3 R999	NL	OPEN	

	FE750	FE950	FE1250
*1 R5U1	68K	68K	68K
*2 R5U2	39K	18K	18K

*24	FE750	FE950	FE1250
31.5K	42V	37V	40V
60.0K	80V	70V	75V
91.0K	125V	110V	120V
106K	—	—	140V

	FE750	FE950	FE1250
*13 C577	0.12u	0.15u	0.13u
*14 C578	0.12u	0.15u	0.15u
*15 C579	0.13u	0.13u	0.091u
*16 C57A	0.20u	0.27u	1.00u
*17 C57C	0.68u	0.68u	0.30u
*18 C57E	0.82u	1.00u	0.82u
*19 C57F	0.39u	0.47u	0.62u
*20 C57G	OPEN	OPEN	0.30u
*21 R576	OPEN	OPEN	100
*22 R57E	OPEN	OPEN	330K
*23 C576	OPEN	OPEN	0.1u

タイトル	
MODEL	
FE750(A)(B)(R)	
FE950(A)(B)(R)	
FE1250(A)(B)(R)	
MAIN PWB (4/4)	
SCHEMATIC DIAGRAM	
基本回路図	
電圧波形図	
アリテカルコンポーネント図	
08109347-E	
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08109355-E	
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NEC MODEL FE750/FE950/FE1250(A)(B)(R) SUB PWB SCHEMATIC DIAGRAM

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IC4L1 (FE950/1250) BA10324AF (FE750) OPEN 1/4
Q4L1 (FE950/1250) 2SD1994A (FE750) OPEN
Q4L2 (FE950/1250) 2SB1322A (FE750) OPEN
R4L1 (FE950/1250) 10K 1/10W (FE750) OPEN
R4L2 100 1/10W (FE950/1250) OPEN (FE750)
R4L3 (FE950/1250) 27K 1/10W (FE750) OPEN
R4L5 (FE1250) 47 2W (FE950) 39 2W (FE750) OPEN
R4L6 (FE950/1250) 22 1/2W (FE750) OPEN

IC4L1 (FE950/1250) BA10324AF (FE750) OPEN 2/4
Q4M1 (FE950/1250) 2SD1994A (FE750) OPEN
Q4M2 (FE950/1250) 2SB1322A (FE750) OPEN
R4M1 (FE950/1250) 10K 1/10W (FE750) OPEN
R4M2 (FE950/1250) 100 1/10W (FE750) OPEN
R4M3 (FE950/1250) 27K 1/10W (FE750) OPEN
R4M5 (FE950/1250) 47 2W (FE750) OPEN
R4M6 (FE950/1250) 22 1/2W (FE750) OPEN

IC4L1 (FE950/1250) BA10324AF (FE750) OPEN 3/4
Q4N1 (FE950/1250) 2SD1994A (FE750) OPEN
Q4N2 (FE950/1250) 2SB1322A (FE750) OPEN
R4N1 (FE950/1250) 10K 1/10W (FE750) OPEN
R4N2 (FE950/1250) 100 1/10W (FE750) OPEN
R4N3 (FE950/1250) 27K 1/10W (FE750) OPEN
R4N5 (FE950/1250) 47 2W (FE750) OPEN
R4N6 (FE950/1250) 22 1/2W (FE750) OPEN

IC4L1 (FE950/1250) BA10324AF (FE750) OPEN 4/4
Q4R1 (FE950/1250) 2SD1994A (FE750) OPEN
Q4R2 (FE950/1250) 2SB1322A (FE750) OPEN
R4R1 (FE950/1250) 10K 1/10W (FE750) OPEN
R4R2 (FE950/1250) 100 1/10W (FE750) OPEN
R4R3 (FE950/1250) 27K 1/10W (FE750) OPEN
R4R5 (FE950/1250) 47 2W (FE750) OPEN
R4R6 (FE950/1250) 22 1/2W (FE750) OPEN
R4K8 (FE950/1250) 36K 1/10W 1% (FE750) OPEN
R4K9 (FE950/1250) 18K 1/10W 1% (FE750) OPEN

IC4K1 BA10324AF 1/4
IC4K1 BA10324AF 2/4
IC4K1 BA10324AF 3/4
IC4K1 BA10324AF 4/4
Q4K1 2SD1994A
Q4K2 2SB1322A
R4K1 10K 1/10W
R4K2 100 1/10W
R4K3 27K 1/10W
R4K5 56 1W
R4K6 270 1/10W
R4K7 0.0 1/2W CN914-22H CN874-22H

IC4K1 BA10324AF
C4K7 0.1u 25V
C4K6 0.1u 25V
IC4L1 (FE950/1250) BA10324AF (FE750) OPEN
C4K5 (FE950/1250) 0.1u 25V (FE750) OPEN
C4K4 (FE950/1250) 0.1u 25V (FE750) OPEN
-13.6V
15.7V
V-
V+

CNEMC
LU1 LU2 LL1 LL2 RU1 RU2 RL1 RL2
EMC1 EMC2 EMC3 EMC4 EMC5 EMC6 EMC7 EMC8

CNZDY

Q8H1 2SD1994A
Q8H2 2SB1322A
Q8J1 2SD1994A
Q8J2 2SB1322A
R8H1 12K 1/10W
R8H2 82K 1/10W
R8H3 82 1W
R8H5 100 1/10W
R8H6 4.7K 1/4W
R8H7 4.7K 1/4W
R8H8 3.3 1/10W
R8H9 3.3 1/10W
C8H1 680p
C8H4 0.1u 25V
C8H5 0.1u 25V
D8H1 1SS133
D8H2 1SS133
R8JA 51K 1/10W 1%
R8JC 20K 1/10W 1%
R8J1 12K 1/10W
R8J2 82K 1/10W
R8J3 68 1W
R8J5 270 1/10W
R8J6 4.7K 1/4W
R8J7 4.7K 1/4W
R8J8 3.3 1/10W
R8J9 3.3 1/10W
C8J1 680p
C8J4 0.1u 25V
C8J5 0.1u 25V
D8J1 1SS133
D8J2 1SS133

CN-CV

R98C 10 1/4W FUSE
C982 10u 100V HT
R989 10K 1W 2%
Q985 2SC2389S R,S
Q983 2SD1763A E
Q984 2SB1186A E
Q982 2SA1038S R,S
Q981 2SC3906K
D981 1SS133
D982 1SS133
R984 47 1/4W
R985 47 1/4W
R98E 27 1W
C986 22u 100V HT
T991 D.F.T
R995 1.5K 1/2W
R981 100 1/10W
C981 470p
R982 OPEN
R983 820 1/10W 1%
C985 0.1u 50V
60Vp-p Θ
5.0Vp-p Θ
600V Θ
160V Ⓥ

220V
R991 82K 2W 2%
R992 6.8K 1/4W
Q991 2SC4620 P,Q
R994 10K 1/10W
R993 1.8K 1/10W 1%
C991 1000p 500V
160Vp-p Ⓥ
5.0Vp-p Ⓥ

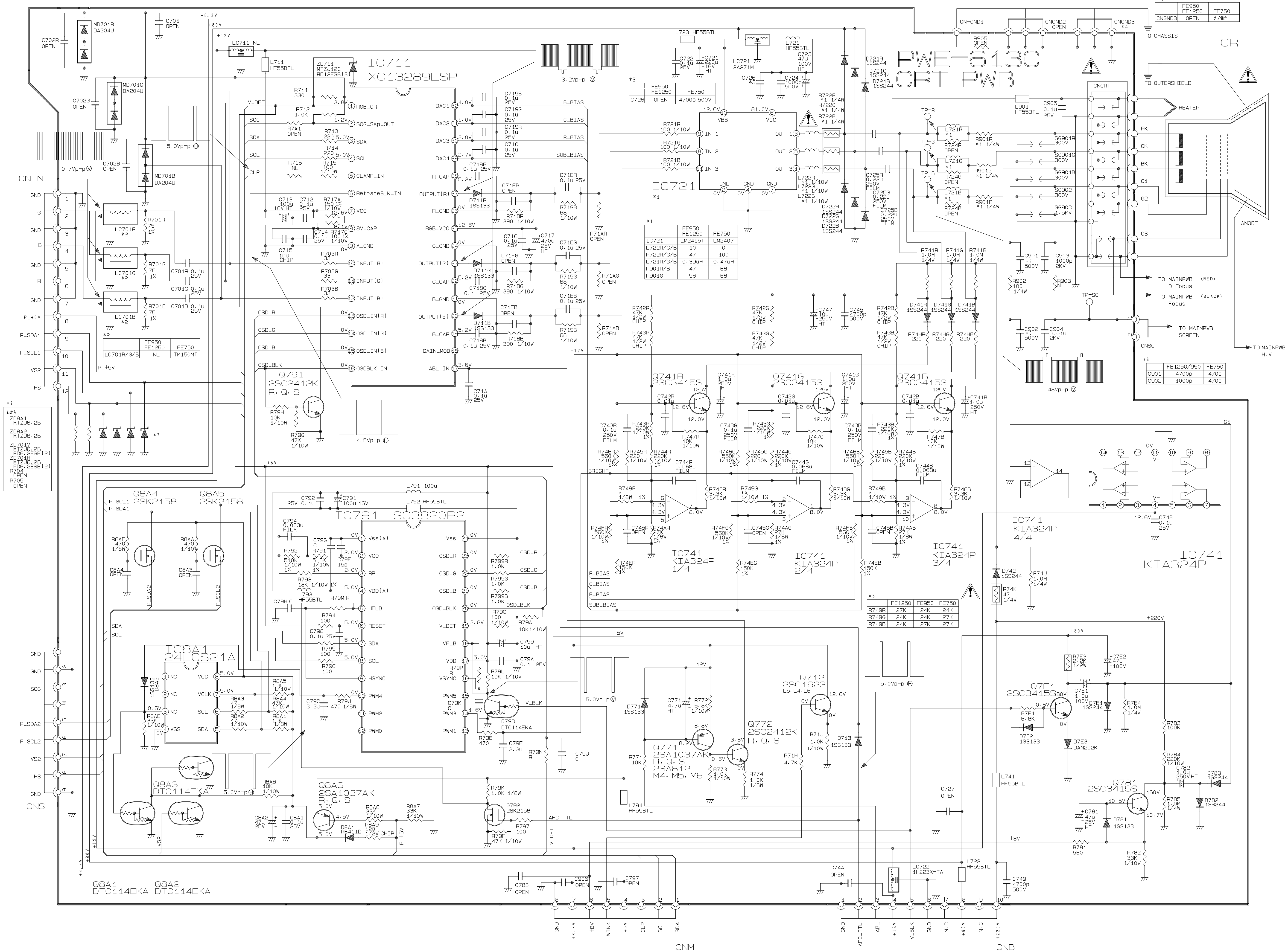
C8H6 47u 25V HT
C8H3 47u 25V HT

CN-F
F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12 F13 F14
-15.7V -13.6V +5V ZCOIL 2.5V RU 2.5V RL 2.5V LU 2.5V LL 2.5V H_ST 1.65V V_ST 1.65V H_DF V_DF GND
TO MAIN PWB

CN-DF
DF1 DF2 DF3 DF4 DF5 DF6 DF7 DF8
V_DFOUT +30.5V +80V GND
TO MAIN PWB

タイトル MODEL FE750(A)(B)(R) FE950(A)(B)(R) FE1250(A)(B)(R) SUB PWB SCHEMATIC DIAGRAM 基本回路図 電圧波形図 クリチカルコンポーネント図	
08109347-E ～ 08109355-E	
SHT ／	

NEC MODEL FE750/FE950/FE1250(A)(B)(R) CRT PWB SCHEMATIC DIAGRAM



*3

	FE950 FE1250	FE750
C726	OPEN	4700p 500V

*1

	FE950 FE1250	FE750
IC721	LM2415T	LM2407
L722R/G/B	10	0
R722R/G/B	47	100
L721R/G/B	0.39uH	0.47uH
R901R/B	68	68
R901G	56	68

*2

	FE950 FE1250	FE750
LC701R/G/B	NL	TM150MT

*4

	FE950 FE1250	FE750
CNGND3	OPEN	チップ端子

*5

	FE1250	FE950	FE750
R749R	27K	24K	24K
R749G	24K	24K	27K
R749B	24K	27K	27K

*6

	FE1250/950	FE750
C901	4700p	470p
C902	1000p	470p

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第2版 2000.03.28

R744R/G/B 150K → 220K
R746R/G/B 330K → 560K
R749R/G/B *5参照
R74AR/G/B 22K → 27K
R74ER/G/B 82K → 150K
C901 *6参照
C902 *6参照
C727 0.1u → OPEN
C74A 0.1u → OPEN
C783 0.1u → OPEN

タイトル
MODEL
FE750(A)(B)(R)
FE950(A)(B)(R)
FE1250(A)(B)(R)
CRT PWB
SCHEMATIC DIAGRAM
基本回路図
電圧波形図
クリチカルコンポーネント図

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08109355-E

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NEC MODEL FE750/FE950/FE1250(A)(B)(R) OSC PWB SCHEMATIC DIAGRAM

OSC PWB PWE-611

IC541 PQ20WZ5U

Q503 2SA1037AK R.Q.S

IC501 uPD61882A

IC511 BA4558F

IC512 uPC4072G2

Q502 2SK2158

Q501 2SC2412K R.Q.S

Q504 2SC2412K R.Q.S

Q505 2SC2412K R.Q.S

TO MAIN PWB

CNDA

CNDB

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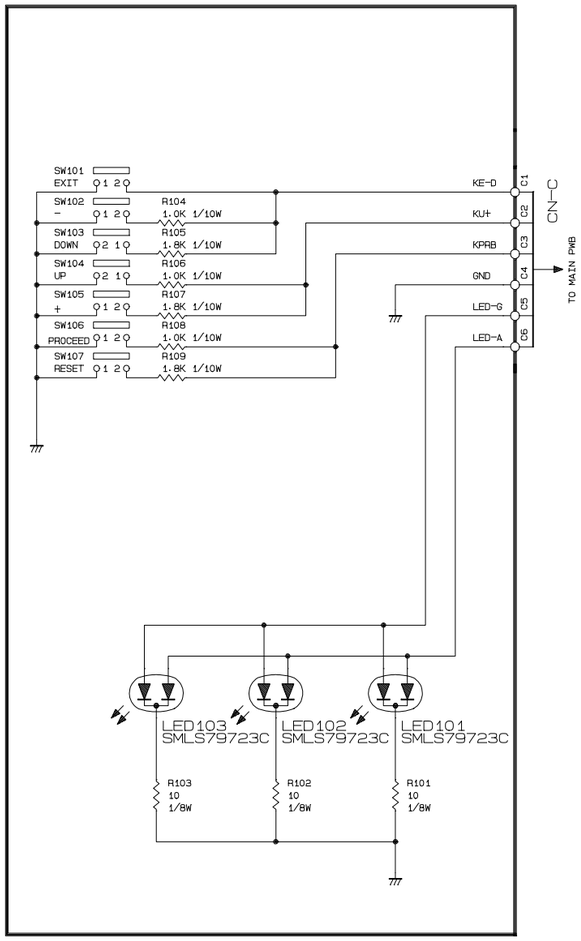
タイトル	MODEL FE750(A)(B)(R) FE950(A)(B)(R) FE1250(A)(B)(R) OSC PWB SCHEMATIC DIAGRAM 基本回路図 電圧波形図 クリチカルコンポーネント図
08109347-E ～ 08109355-E	
SHT ／	

NEC MODEL FE750/FE950/FE1250(A)(B)(R) CONTROL PWB SCHEMATIC DIAGRAM



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第1版
1999. 12. 08

タイトル
MODEL
FE750(A)(B)(R)
FE950(A)(B)(R)
FE1250(A)(B)(R)
CONTROL PWB
SCHEMATIC DIAGRAM
基本回路図
電圧波形図
ディジタルコンポーネント図

08109347-E
～
08109355-E

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