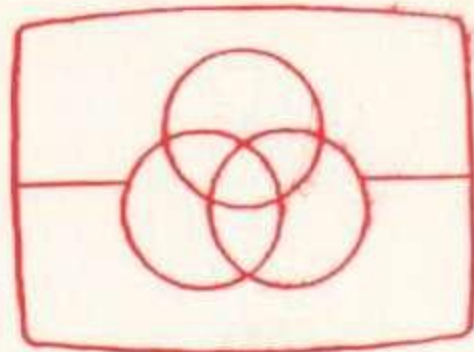


Service Manual

74 EQ515/01B/02B/05B

Graphic equalizer spectrum analyzer



Free service manuals

Gratis schema's

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This service manual explains them by extracting the different specifications from those of the model EQ551, based on the model **EQ551**. For both electrical and mechanical information on the after-sales service which is not stated, all information is described in the model EQ551 service manual (Codenummer 045H855010).

The dispatch of the parts for after-sales service has to be referred to this service manual, with the first priority.

For this reason, please use this service manual with referring to the model EQ551 service manual, without fail.

marantz®

model EQ515

First issue;1991

4822 725 50941

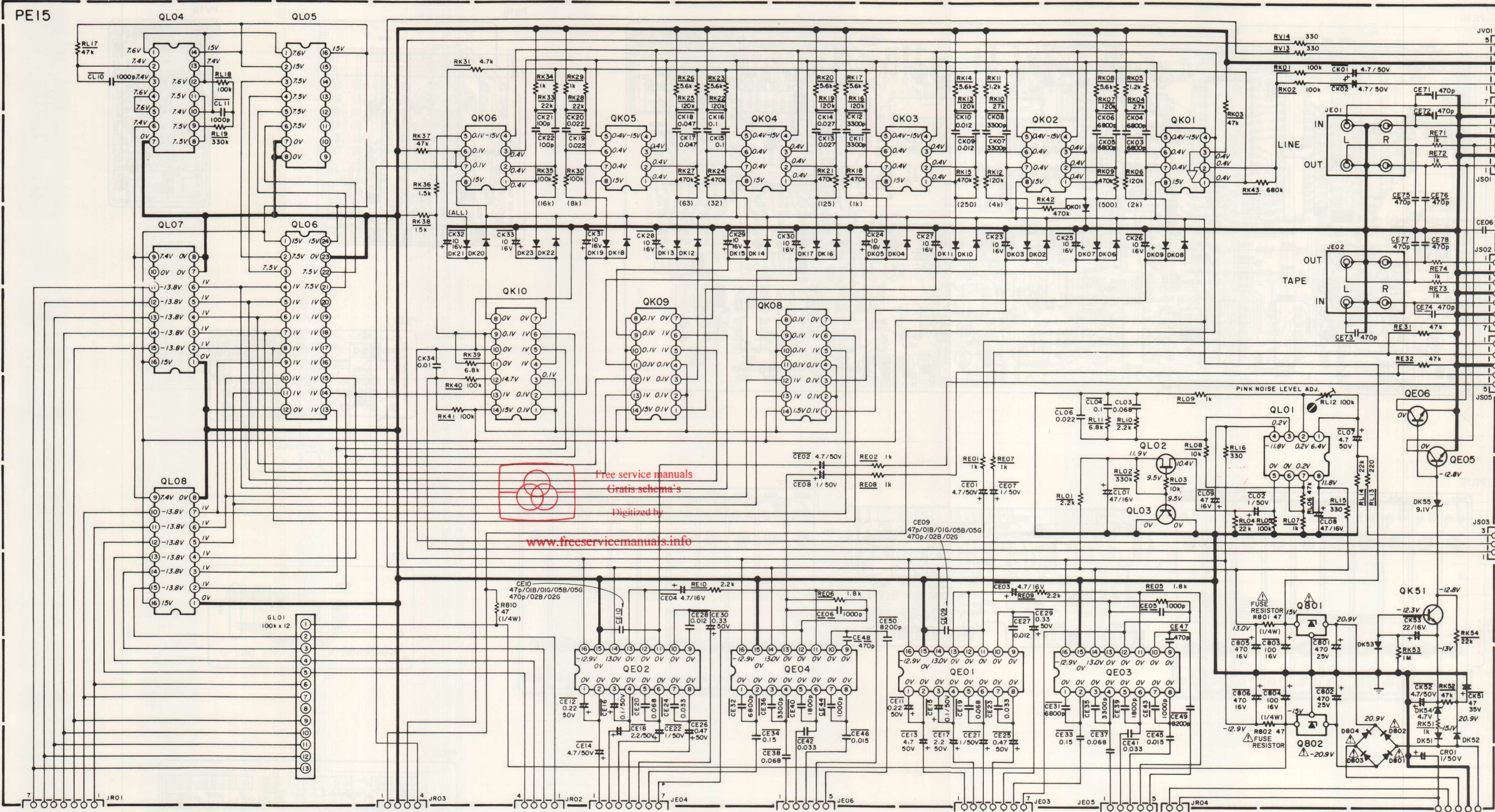
MZ 2887

[illegible]

MECHANICAL PARTS LIST

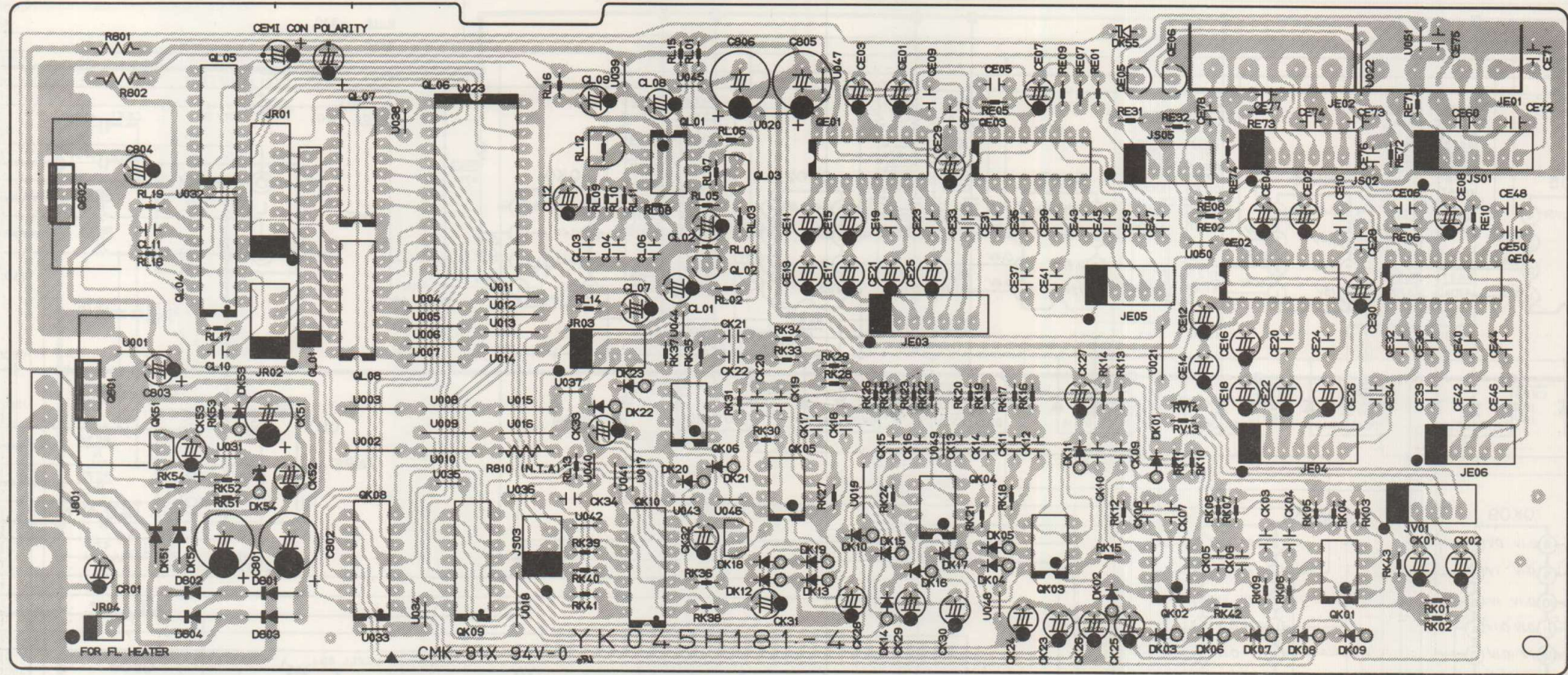
SCHEMATIC DIAGRAM

REF. DESIG.	PART NO.	DESCRIPTION
001B	4822 426 20201	Front Panel Assy /01B/02B/05B
	4822 426 20202	Front Panel Assy /01G/02G/05G
004B	4822 464 70504	Front Chassis /01B/02B/05B
		Front Chassis /01G/02G/05G
008B	4822 459 40534	Window, FL
009B	4822 454 11973	Escutcheon, FL /01B/02B/05B
	4822 454 11822	Escutcheon, FL /01G/02G/05G
011B	4822 411 61769	Knob, Slide VR /01B/02B/05B
	4822 412 20097	Knob, Slide VR /01G/02G/05G
012B	4822 410 24514	Button, Power /01B/02B/05B
	4822 410 24509	Button, Power /01G/02G/05G
013B	4822 412 20059	Knob, Push /01B/02B/05B
	4822 412 20058	Knob, Push /01G/02G/05G
014B	4822 412 20985	Knob, Mic Level /01B/02B/05B
	4822 412 20972	Knob, Mic Level /01G/02G/05G
002D	4822 502 12501	Screw, B4 x 8
018G	4822 459 20416	Mask
020G	4822 256 90951	Holder, FL
021G	4822 459 20497	Mask, FL /01B/02B/05B
021G	4822	Mask, FL /01G/02G/05G
040G	4822 462 41799	Leg
910G	4822 532 51314	Bushing, AC Cord /01B/01G
▲ J051	4822 272 10235	Voltage Selector /01B/01G
▲ J052	4822 267 30986	Plug, AC inlet /02B/02G/05B/05G
▲ J091	4822 267 20334	Jack, AC outlet /01B/01G
▲ L001	4822 148 80766	Power Transformer /01B/01G
	4822 148 80643	Power Transformer /02B/02G/05B/05G
▲ W001	4822 321 10249	AC Power Cord /02B/02G
	4822 321 10635	AC Power Cord /05B/05G
W011	4822 321 21438	Connective Cord, RCA Type
M001	4822 242 30135	Microphone, OMC-10Z
001T	4822 736 21064	User Manual

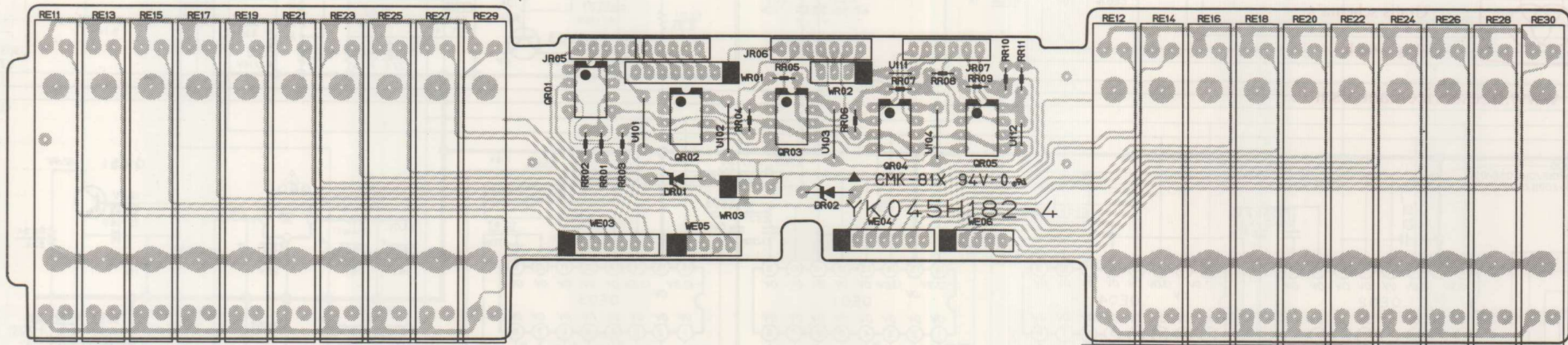


PRINTED CIRCUIT BOARDs

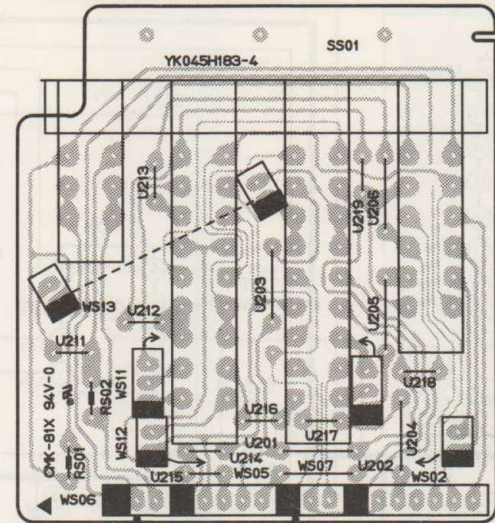
PE15



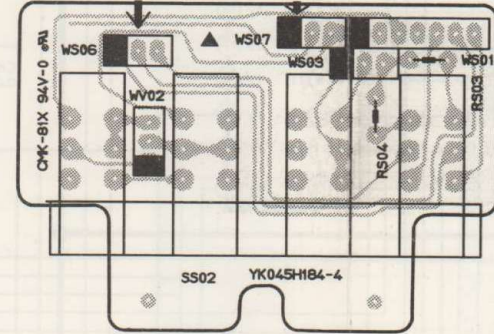
PR15



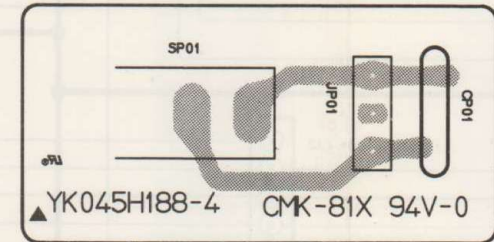
PS15



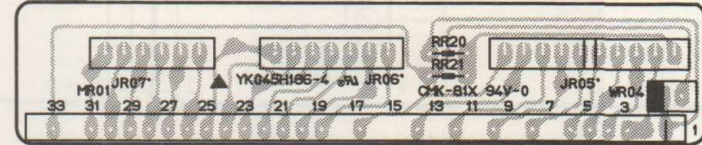
PS25



PS35



PR25



ASSIGNMENT OF COMMON PARTS CODES.

- RESISTOR
- R*****: (1) GD05 --- 140, Carbon film fixed resistor, $\pm 5\%$, 1/4W
- R*****: (2) GD05 --- 160, Carbon film fixed resistor, $\pm 5\%$, 1/6W
- ① --- Resistance value

- Examples
- ① Resistance value
- | | | | |
|---------------------|---------------------|----------------------|----------------------|
| 0.1 Ω ...001 | 10 Ω ...100 | 1k Ω ...102 | 100k Ω ...104 |
| 0.5 Ω ...005 | 18 Ω ...180 | 2.7k Ω ...272 | 680k Ω ...684 |
| 1 Ω ...010 | 100 Ω ...101 | 10k Ω ...103 | 1M Ω ...105 |
| 6.8 Ω ...068 | 390 Ω ...391 | 22k Ω ...223 | 4.7M Ω ...475 |

(Note) Please distinguish 1/4W from 1/6W by the shape of parts used actually.

- C*****: CERAMIC CAP.
- (1) DD1 --- 370, Ceramic condenser
- Disc type
- Temp. coeff. P350 ~ N1000, 50V
- ① ②
- Capacity value
- Tolerance

- Examples
- ① Tolerance (Capacity deviation)
- $\pm 0.25pF$...0
- $\pm 0.5pF$...1
- $\pm 5\%$...5
- * Tolerance of COMMON PARTS handled here are as follows:
- 0.5pF ~ 5pF... $\pm 0.25pF$
- 6pF ~ 10pF... $\pm 0.5pF$
- 12pF ~ 560pF... $\pm 5\%$
- ② Capacity value
- | | | |
|-------------|------------|-------------|
| 0.5pF...005 | 3pF...030 | 100pF...101 |
| 1pF...010 | 10pF...100 | 220pF...221 |
| 1.5pF...015 | 47pF...470 | 560pF...561 |

- C*****: CERAMIC CAP.
- (1) DK16 --- 300, High dielectric constant ceramic condenser
- Disc type
- Temp. chara. 2B4, 50V
- ①
- Capacity value

- Example
- ② Capacity value
- | | | |
|-------------|--------------|---------------|
| 100pF...101 | 1000pF...102 | 10000pF...103 |
| 470pF...471 | 2200pF...222 | |

- C*****: ELECTROLY CAP. ($\text{---} \parallel \text{---}$), FILM CAP. ($\text{---} \text{---} \text{---}$)
- (1) EA --- 10, Electrolytic condenser
- One-way lead type, Tolerance $\pm 20\%$
- ① ②
- Dielectric strength
- Capacity value

- Examples
- ① Capacity value
- | | | |
|---------------------|--------------------|---------------------|
| 0.1 μF ...104 | 4.7 μF ...475 | 100 μF ...107 |
| 0.33 μF ...334 | 10 μF ...106 | 330 μF ...337 |
| 1 μF ...105 | 22 μF ...226 | 1100 μF ...108 |
| | | 2200 μF ...228 |
- ② Working voltage
- | | |
|------------|-----------|
| 6.3V...006 | 25V...025 |
| 10V...010 | 35V...035 |
| 16V...016 | 50V...050 |

- (2) DF15 --- 350, Plastic film condenser
- One-way type, Mylar $\pm 5\%$ 50V
- ①
- Capacity value

- Examples
- ① Capacity value
- | | | | |
|---------------------------|-----|------------------|-----|
| 0.001 μF (1000pF)... | 102 | 0.1 μF ... | 104 |
| 0.0018 μF ... | 182 | 0.56 μF ... | 564 |
| 0.01 μF ... | 103 | 1 μF ... | 105 |
| 0.015 μF ... | 153 | | |

REF. DESIG.	PART NO.	DESCRIPTION
PE15-MAIN CIRCUIT BOARD		
PE15-CAPACITORS		
CE09	4822 122 31205	Ceramic 47pF ±5% /01B/01G/05B/05G
CE10	4822 122 31205	Ceramic 47pF ±5% /01B/01G/05B/05G
CE60	4822 122 32486	Ceramic 0.01μF +80% -20%
CK34	4822 122 32486	Ceramic 0.01μF +80% -20%
PE15-RESISTORS		
▲ R801	4822 116 60295	47Ω ±5% ¼W, Fusible
▲ R802	4822 116 60295	47Ω ±5% ¼W, Fusible
▲ R810	4822 116 60295	47Ω ±5% ¼W, Fusible
RL12	4822 100 11471	100KΩ, Trimming
GL01	4822 111 90608	100KΩx12, Composite
PE15-SEMICONDUCTORS		
▲ D801	4822 130 32508	Diode DSF10C
▲ D804		
DK01	4822 130 33305	Diode, Substitute
DK23		
DK51	4822 130 32508	Diode DSF10C
DK52	4822 130 32508	Diode DSF10C
DK53	4822 130 33305	Diode, Substitute
DK54	4822 130 33759	Zener 4.7V
DK55	4822 130 80319	Zener 9.1V
▲ Q801	4822 209 82829	IC NJM78M15FA
▲ Q802	4822 209 61526	IC NJM79M15FA
QE01	4822 209 83691	IC M5227P
QE04		
QE05	4822 130 43818	Transistor 2SC2878(A)
QE06	4822 130 43818	Transistor 2SC2878(A)
QK01	4822 209 80401	IC NJM4558D
QK06		
QK08	4822 209 83067	IC 4066
QK09	4822 209 83067	IC 4066
QK10	4822 209 83067	IC 4066
QK51	4822 130 42298	Transistor 2SC536SP, 2SC2458 ETC
QL01	4822 209 80401	IC NJM4558D
QL02	4822 130 42836	F.E.T. 2SK246(Y, GR)
QL03	4822 130 61665	Transistor 2SA1310(R, S)
QL04	4822 209 83843	IC 4069
QL05	4822 209 70219	IC 4520
QL06	4822 209 70218	IC 4514
QL07	4822 209 70217	IC TC5064BP
QL08	4822 209 70217	IC TC5064BP
PE15-MISCELLANEOUS		
JE01	4822 265 30397	Terminal, 4P; RCA Pin
JE02	4822 267 30493	Terminal, 4P; RCA Pin
PR15-BAR DRIVE/VOLUME CIRCUIT BOARD		
PR15-RESISTORS		
RE11	4822 105 10835	100KΩ, Variable
RE30		

REF. DESIG.	PART NO.	DESCRIPTION		
PR15-SEMICONDUCTORS				
DR01	4822 130 33374	Zener	MA1033M	
DR02	4822 130 33113	Zener	RD9.1E-B1	
QR01 ? QR05	4822 209 80401	IC	NJM4558D	
PR15-MISCELLANEOUS				
MR01	4822 130 90342	Display Unit		
PS15-INPUT SWITCH CIRCUIT BOARD				
SS01	4822 276 60248	Push Switch		
PS25-DISPLAY SWITCH CIRCUIT BOARD				
SS02	4822 276 20419	Push Switch		
PS35-POWER SWITCH CIRCUIT BOARD				
▲ CP01	4822 122 40305	Ceramic Cap.	0.01μF	400V
▲ SP01	4822 276 11645	Push Switch, Power		
PV15-MIC AMP CIRCUIT BOARD				
PV15-CAPACITORS				
CV03	5322 122 31626	Ceramic	100pF	±5%
CV06	4822 124 21983	Elect	4.7μF	50V
PV15-RESISTOR				
RV12	4822 102 10201	50KΩ(A), Variable		
PV15-SEMICONDUCTOR				
QV01	4822 209 80401	IC	NJM4558D	
PV15-MISCELLANEOUS				
JV03	4822 267 30756	Jack, Mic /01B/02B/05B		
	4822 267 31343	Jack, Mic /01G/02G/05G		

NOTE ON SAFETY:

Symbol ▲ Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol ▲. Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.