

marantz PM-350 – List Of Electrolytic Capacitors And Their Replacements

PX01 (LED level meter board)

On PCB			In schematic	Brand / Type	Replaced By			Comment
Ref. Design.	uF	V			Brand / Series	uF	V	
CX01	3.3	50	=	NippChemi / elco	Elna / Silmic II RFS	3.3	50	voltage filtering
CX02	3.3	50	=	NippChemi / elco	Elna / Silmic II RFS	3.3	50	voltage filtering
CX03	1	50	=	NippChemi / elco	Elna / Silmic II RFS	1	50	voltage filtering
CX04	1	50	=	NippChemi / elco	Elna / Silmic II RFS	1	50	voltage filtering

PE01 (tone control/volume board)

On PCB			In schematic	Brand / Type	Replaced By			Comment
Ref. Design.	uF	V			Brand / Series	uF	V	
CE01	3.3	50	=	NippChemi / elco	Elna / Silmic II RFS	3.3	50	bass/mid/treble control
CE02	3.3	50	=	NippChemi / elco	Elna / Silmic II RFS	3.3	50	bass/mid/treble control
CE03	0.33	50	3.3/50	Elna / bipolar	WIMA / MKS2	0.33	50	bass/mid/treble control
CE04	0.33	50	3.3/50	Elna / bipolar	WIMA / MKS2	0.33	50	bass/mid/treble control

P700 (main board)

On PCB			In schematic	Brand / Type	Replaced By			Comment
Ref. Design.	uF	V			Brand / Series	uF	V	
C401	3.3	50	=	NippChemi / elco	Elna / Silmic II RFS	3.3	50	Phono input; in signal path
C402	3.3	50	=	NippChemi / elco	Elna / Silmic II RFS	3.3	50	Phono input; in signal path
C409	3.3	50	=	NippChemi / elco	Elna / Silmic II RFS	3.3	50	Phono output; in signal path
C410	3.3	50	=	NippChemi / elco	Elna / Silmic II RFS	3.3	50	Phono output; in signal path
C411	100	16	=	NippChemi / elco	Nichicon / FW	100	16	IC voltage filtering
C412	100	16	=	NippChemi / elco	Nichicon / FW	100	16	IC voltage filtering
C701	3.3	50	=	NippChemi / elco	Elna / Silmic II RFS	3.3	50	Preamp input; in signal path
C702	3.3	50	=	NippChemi / elco	Elna / Silmic II RFS	3.3	50	Preamp input; in signal path
C705	100	10	=	NippChemi / elco	Nichicon / FW	100	16	Preamp TR filtering
C706	100	10	=	NippChemi / elco	Nichicon / FW	100	16	Preamp TR filtering

C707	2.2	50	=	NippChemi / elco	Elna / Silmic II RFS	2.2	50	Preamp TR filtering
C708	2.2	50	=	NippChemi / elco	Elna / Silmic II RFS	2.2	50	Preamp TR filtering
C713	47	35	=	NippChemi / elco	Nichicon / Muse KZ	47	50	Preamp TR filtering
C714	47	35	=	NippChemi / elco	Nichicon / Muse KZ	47	50	Preamp TR filtering
C803	6800	45	=	Elna / elco	Nichicon / KG Gold Tune II	6800	63	Power supply voltage smoothing
C804	6800	45	=	Elna / elco	Nichicon / KG Gold Tune II	6800	63	Power supply voltage smoothing
C805	100	50	=	NippChemi / elco	Panasonic / FM	100	50	+37V rail filtering
C807	47	50	=	NippChemi / elco	Nichicon / Muse KZ	47	50	+28V rail filtering
C808	47	50	=	NippChemi / elco	Nichicon / Muse KZ	47	50	-31V rail filtering
C811	10	25	=	NippChemi / elco	Elna / Silmic II RFS	10	35	+16V rail filtering
C812	10	25	=	NippChemi / elco	Elna / Silmic II RFS	10	35	-17V rail filtering
CN01	330	6.3	=	NippChemi / elco	Panasonic / FM	330	16	
CN02	1	50	=	NippChemi / elco	Elna / Silmic II RFS	1	50	
CN03	Not exist!	33/50	-	-	-	-	-	

Nichicon Capacitors Classification (partial)

Large Aluminium Capacitors **KG** For audio
(Gold Tune Type III, Type II, Type I)

Small Aluminium Capacitors **KA** High grade for high grade equipment, 105 °C
KZ Premium grade, for audio
FG High grade, for audio
KW Standard grade, for audio
FW Standard grade, for audio

Panasonic Capacitors Classification (partial)

FR Low imp.; (upgrade) same as FM; new
FM Low imp. (40-70% less than FC)
FK Low imp. (20-30% less than FC)
FC Low impedance

WIMA Capacitors (partial)

MKS Metallized Polyester (PET)
MKP Metallized Polypropylene (PP)

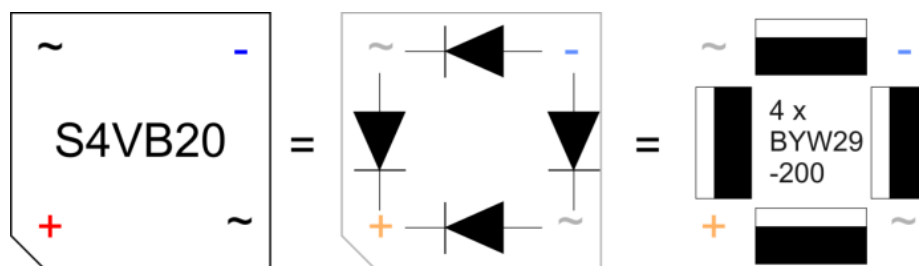
ELNA Capacitors Classification (partial)

Large Aluminium Capacitors **LAO** For audio

Small Aluminium Capacitors **RFS** Silmic II
ROS Silmic
ROA Cerafine
ROB TONEREX
RBD bipolar

Other (Optional) Replacements

P700 (main board)								
On PCB			In schematic	Brand / Type	Replaced By			Comment
Ref. Design.	A	V			Brand / Series	A	V	
S4VB20	4 / 2.6	200	D801	Shindengen Electric / Bridge Diode	Onsemi or Vishay / Ultrafast Rectifier BYW29-200	8	200	4 pcs TO-220 package diodes instead bridge rectifier; heatsink not needed
(NJM)4558D	-	-	Q401	JRC / Dual high gain operational amplifier	Burr Brown / OPA2604	-	-	Also: BB OPA2134/32/28/27/11, TI RC4559/58, NTE928M, TSH22, MC33078 ...
DS135D	1	200	Q811	Sanyo / Power diode	Fairchild, Microsemi or Vishay / Ultrafast power diode UF4004	1	400	Also: UF4003 (1A/200V)
Trimming pot. 2 kohm	-	-	R725, R726	-	- / 3296W ; 25 turns; $\pm 10\%$	-	-	2 kohm cermet trimmer multiturn potentiometer; 0.5W



PE01 (tone control/volume board)								
On PCB			In schematic	Brand / Type	Replaced By			Comment
Ref. Design.	A	V			Brand / Series	A	V	
(NJM)4558D	-	-	QE01	JRC / Dual high gain operational amplifier	Burr Brown / OPA2604	-	-	Also: BB OPA2134/32/28/27/11, TI RC4559/58, NTE928M, TSH22, MC33078 ...
(NJM)4558D	-	-	QE02	JRC / Dual high gain operational amplifier	Burr Brown / OPA2604	-	-	Also: BB OPA2134/32/28/27/11, TI RC4559/58, NTE928M, TSH22, MC33078 ...