

SCPH-5500/5501/5502/5503

[PU-18 (-11/-21 • -31/-41 • -52/-62 • -72/-82)]

SERVICE MANUAL

Japan Model
SCPH-5500

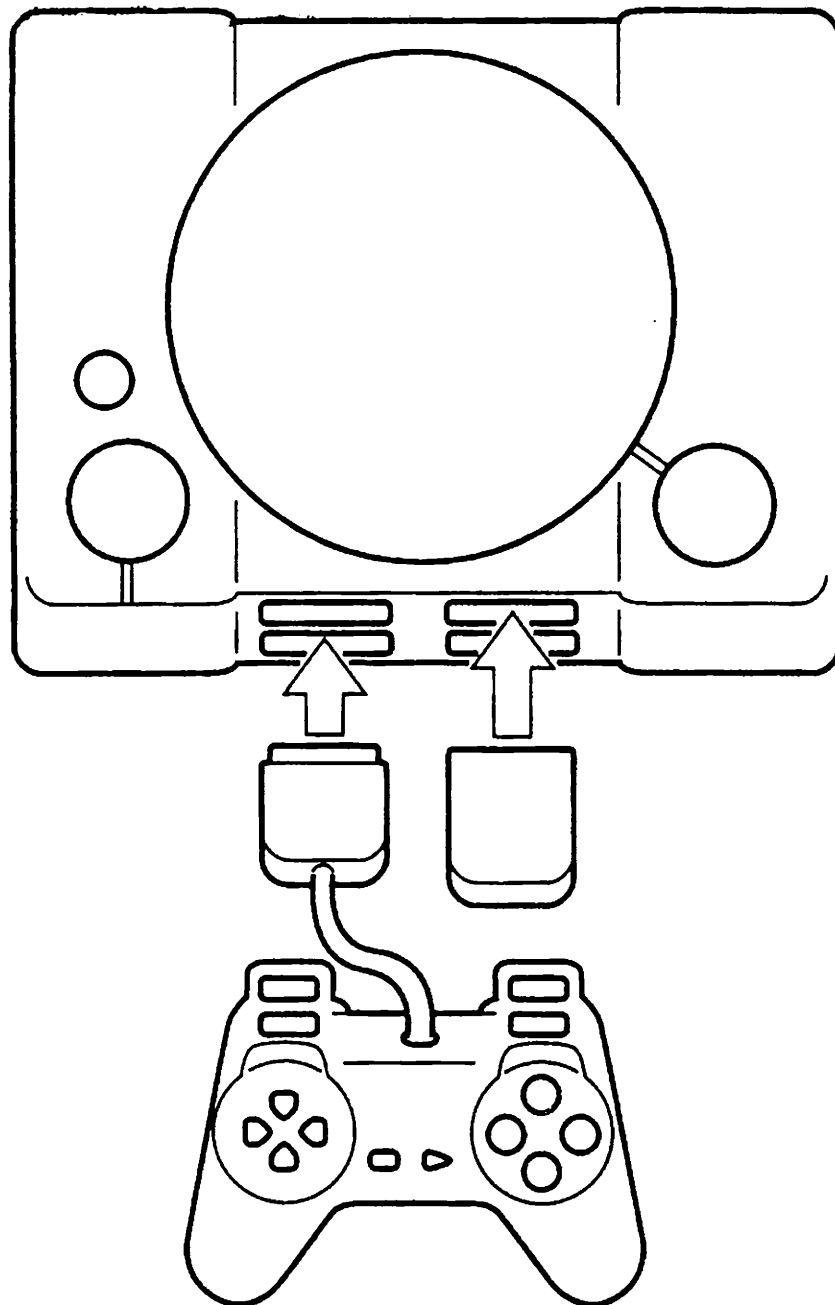
US/Canada Model
SCPH-5501

Australia Model
SCPH-5502A

UK Model
SCPH-5502B

AEP Model
SCPH-5502C

Asian Model
SCPH-5503



SPECIFICATIONS

SCPH-5500

General

Power requirements
100 V AC, 50/60 Hz

Power consumption
9W

Dimensions
270 × 60 × 188 mm (w/h/d)
(10 3/4 × 2 3/8 × 7 1/2 inches)

Mass
1.4 kg

Laser diode properties

- Material : GaAlAs
- Wavelength : λ=780 nm
- Emission duration : Continuous
- Laser output : Less than 44.6 μW
(measured at a distance of 200 mm
from the lens surface on the optical
pick-up block)

Inputs/outputs on the front

Controller ports (2)
Memory card slots (2)

Inputs/outputs on the rear

SERIAL I/O port (1)
External extension port (1)

Outputs on the rear

AV MULTI OUT output (1)

Supplied accessories

AC power cord (mains lead) (1)
Controller (1)
Instruction manual (1)
A/V connecting cable (1)

Optional accessories

SCPH-1020 Memory card
SCPH-1030 Mouse
SCPH-1040 Link cable
SCPH-1050 RGB cable
SCPH-1070 Multi tap
SCPH-1080 Controller (long cable)
SCPH-1100 S video cable
SCPH-1110 Analog joy stick
SCPH-1120 RFU adaptor

Design and specifications are subject
to change without notice.

SCPH-5501

General

Power requirements
120 V AC, 60 Hz

Power consumption
17W

Dimensions
270 × 60 × 188 mm (w/h/d)
(10 3/4 × 2 3/8 × 7 1/2 inches)

Mass
1.5 kg (3lb 5 oz)

Laser diode properties

- Material : GaAlAs
- Wavelength : λ=780 nm
- Emission duration : Continuous
- Laser output : Less than 44.6 μW
(measured at a distance of 200 mm
from the lens surface on the optical
pick-up block)

Inputs/outputs on the front

Controller ports (2)
Memory card slots (2)

Inputs/outputs on the rear

SERIAL I/O port (1)
External extension port (1)

Outputs on the rear

AV MULTI OUT output (1)

Supplied accessories

AC power cord (mains lead) (1)
A/V connecting cable (1)
Controller (1)
Instruction manual (1)

Optional accessories

SCPH-1020 U/94048 Memory card
SCPH-1040 U/94043 Link cable
SCPH-1061/94046 RFU adaptor
SCPH-1080 U/94041 Controller
SCPH-1090 U/94047 Mouse

For additional parts, please call 1-800-
345-SONY.

94045 Stereo A/V cable
94044 AC power cord

Design and specifications are subject
to change without notice.

SCPH-5502

General

Power requirements
220-240 V AC, 50 Hz

Power consumption : 9W

Dimensions
270 × 60 × 188 mm (w/h/d)

Mass
1.4 kg

Laser diode properties

- Material : GaAlAs
- Wavelength : λ=780 nm
- Emission duration : Continuous
- Laser output : Less than 44.6 μW
(measured at a distance of 200 mm
from the lens surface on the optical
pick-up block)

Inputs/outputs on the front

Controller ports (2)
Memory card slots (2)

Inputs/outputs on the rear

SERIAL I/O port (1)
External extension port (1)

Outputs on the rear

AV MULTI OUT output (1)

Supplied accessories

AC power cord (mains lead) (1)
A/V connecting cable (1)
(except for the United Kingdom)
Controller (1)
Euro-AV connector plug (1)
(except for the United Kingdom)
RFU adaptor (1)
(only for the United Kingdom)
Instruction manual (1)

Optional accessories

SCPH-1020 E Memory card
SCPH-1040 E Link cable
SCPH-1052 Euro-AV cable
SCPH-1070 E Multi tap
SCPH-1080 E Controller
SCPH-1090 E Mouse
SCPH-1110 E Analog joy stick
SCPH-1122 RFU adaptor

Design and specifications are subject
to change without notice

SCPH-5503

General

Power requirements
110-240 V AC, 50/60 Hz

Power consumption
11W

Dimensions
270 × 60 × 188 mm (w/h/d)
(10 3/4 × 2 3/8 × 7 1/2 inches)

Mass
1.4 kg

Laser diode properties

- Material : GaAlAs
- Wavelength : λ=780 nm
- Emission duration : Continuous
- Laser output : Less than 44.6 μW
(measured at a distance of 200 mm
from the lens surface on the optical
pick-up block)

Inputs/outputs on the front

Controller ports (2)

Inputs/outputs on the rear

SERIAL I/O port (1)
External extension port (1)

Outputs on the rear

AV MULTI OUT output (1)

Supplied accessories

AC power cord (mains lead) (1)
Controller (1)
Instruction manual (1)

Optional accessories

SCPH-1020 Memory card
SCPH-1040 Link cable
SCPH-1080 Controller (long cable)
SCPH-1100 S video cable

Design and specifications are subject
to change without notice.

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• PU-18 (-31/-41) Board	74
• PU-18 (-52/-62) Board	80
• PU-18 (-72/-82) Board	86
• Power Block (1-468-176-11)	91
• Power Block (1-468-218-11)	93
• Power Block (1-468-218-21)	94
• Power Block (1-468-218-31)	96
• Power Block (1-468-219-13)	97
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• Accessories & Packing Materials	100

• List of the PC Board Used for the Models

Suffix Number for Board Model Name	PU-18 (-11/-21)	PU-18 (-31/-41)	PU-18 (-52/-62)	PU-18 (-72/-82)
SCPH-5500	○	○	○	○
SCPH-5501			○	○
SCPH-5502			○	○
SCPH-5503			○	○

SECTION 1

ELECTRICAL ADJUSTMENTS

CD Drive Section Adjustment

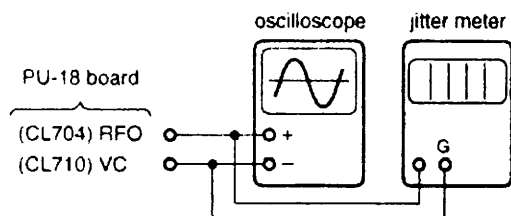
Note on Adjustment

- The adjustments should be performed in the order given in this Service Manual.
- Use the disc (SCD-2700) only when so indicated.
- Use the oscilloscope with more than 10M Ω impedance.

1-1. Focus Bias Check (PU-18 board)

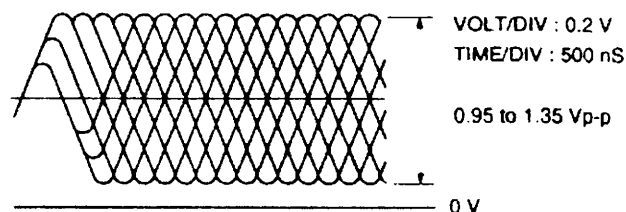
This Check is to be done when the optical pick-up block is replaced.

Procedure :



1. Connect the oscilloscope and jitter meter between RFDC and VC on the PU-18 board.
2. Insert disc (SCD-2700) and turn on the power.
3. Playback disc. (Push the ▶ START button on the controller.)
4. With the jitter meter, confirm that the jitter value is 9.3msec or less.
5. Confirm that the RF signal level is within the range of 0.95 to 1.35Vp-p.

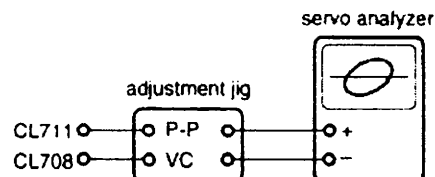
• RF signal waveform (eye pattern)



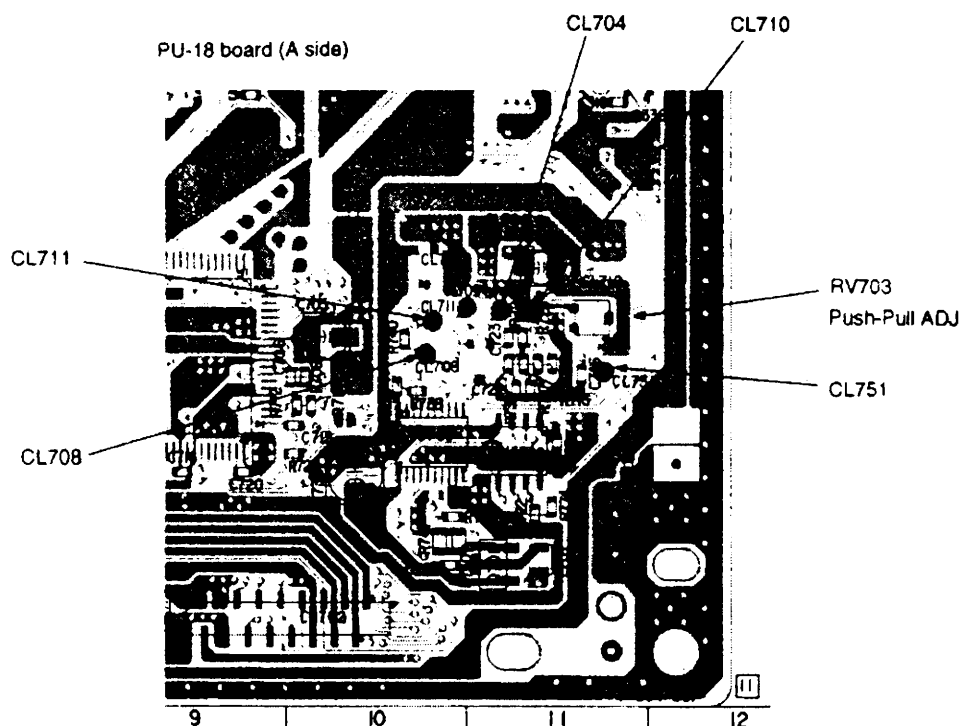
When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

1-2. Focus Gain Check (PU-18 board)

Procedure :

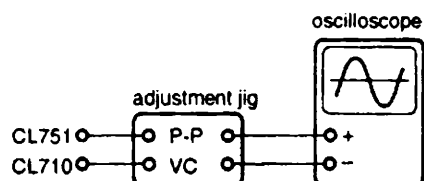


1. Connect the adjustment jig and servo analyzer between CL711 and CL708 on the PU-18 board.
2. Insert disc (SCD-2700) and turn on the power.
3. Playback disc. (Push the ▶ START button on the controller.)
4. With the servo analyzer, confirm that the focus gain is 0 ± 2.5 dB/1 kHz.



1-3. Push-Pull Adjustment (PU-18 board)

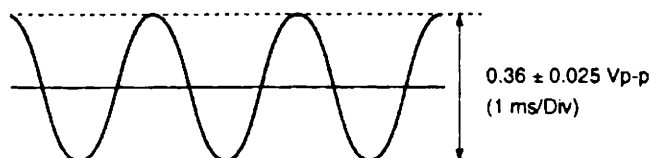
Procedure :



1. Connect the adjustment jig to the PU-18 board. (CL710 and CL751)
2. Set the specified disc (SCD-2700) and turn the power on.
3. Playback the disc in normal mode and turn only TRK servo off.
4. A sinusoidal wave is observed on the oscilloscope. Turn RV703 and adjust so that its peak-to-peak voltage is 0.36 ± 0.025 Vp-p.

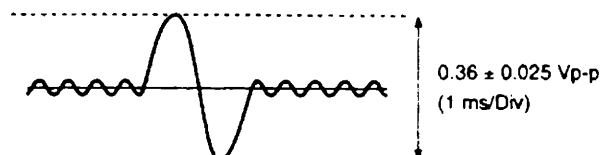
Note : Be sure to use the specified disc for this adjustment.

Reference waveform for push-pull signal.



Simple adjustment

1. In the above item 3, set the pose mode in place of turning TRK servo off.
2. The following waveform is observed on the oscilloscope. Turn RV703 and adjust so that its peak-to-peak voltage is 0.36 ± 0.025 Vp-p.



CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

1-4. Notice For Parts Replacement

This parts should be used in same group as follows.

A Group				B Group		
Ref. No	Part No.	Description	Remark	Part No.	Description	Remark
IC202	8-759-440-92	TDA8771AH		8-759-478-55	MC141685FT	
C237	1-216-864-11	0 Ω		1-164-156-11	0.1 μ F B	
R201	1-216-831-11	6.8 k Ω		1-216-819-91	680 Ω	
R503,504,505	1-216-039-00	390 Ω		1-216-029-00	150 Ω	
R541,542,543	1-216-045-00	680 Ω (2012)		1-216-295-91	0 Ω (2012)	

The diagram illustrates the system architecture of the Sony CCD-1000. It features a central CPU (IC103) connected to various memory modules (IC301, IC102, IC201, IC303, IC310) and peripheral controllers (IC203, IC202, IC501, IC305, IC308, IC402, IC701, IC703, IC704). The system includes a video output section (IC202, IC501) and an audio output section (IC402). Power management is handled by a 5V regulator (Reg 5V) and a ripple filter, with specific voltage lines (8V, GND, 3.3V, DIG 5V, VDD 5V, DIG 3.3V) connected to the power supply. The diagram also shows the connection to a PICK-UP UNIT and various I/O ports (Parallel I/O, Serial I/O, Control Terminal).

IC LIST

- IC102:
- IC103: CXD8606Q (LSI Logic)
- IC201:
- IC202: TDA8771AH
- IC203: CXD8571Q (Toshiba)
- IC301:
- IC303:
- IC304: MC68HC05G6 (Motorola)
- IC305: CXD1815Q (SONY)
- IC308: CXD2925Q (SONY)
- IC310:
- IC402: AK4309 (Asahi Kasei)
- IC501: CXA1645M (SONY)
- IC701: CXD2545Q (SONY)
- IC703: CXA1791N (SONY)
- IC704: BA6392FP (ROHM)

- IC LIST
- IC102:
IC103:CXD8606Q(LSI Logic)
IC201:
IC202:TDA8771AH
IC203:CXD8571Q(Toshiba)
IC301:
IC303:
IC304:MC68HC05G6(Motorola)
IC305:CXD1815Q(SONY)
IC308:CXD2925Q(SONY)
IC310:
IC402:AK4309(Asahi Kasei)
IC501:CXA1645M(SONY)
IC701:CXD2545Q(SONY)
IC703:CXA1791N(SONY)
IC704:BA6392FP(ROHM)

3-1. PRINTED WIRING BOARD (PU-18 (-11/-21) BOARD)

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.

Note on Printed Wiring Boards :

- Through hole is omitted.
-  : Pattern on the side which is seen.

Note on Schematic Diagram :

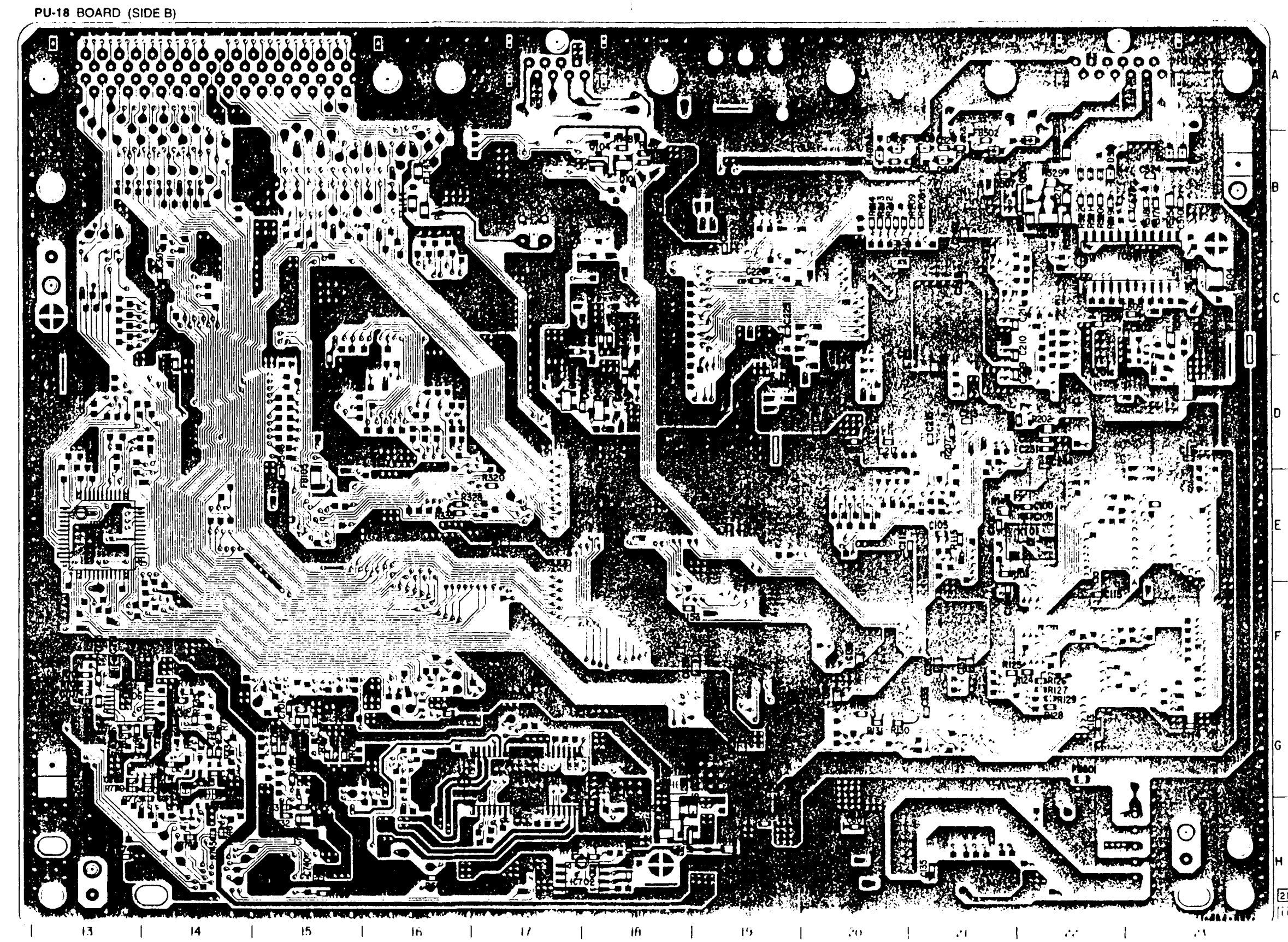
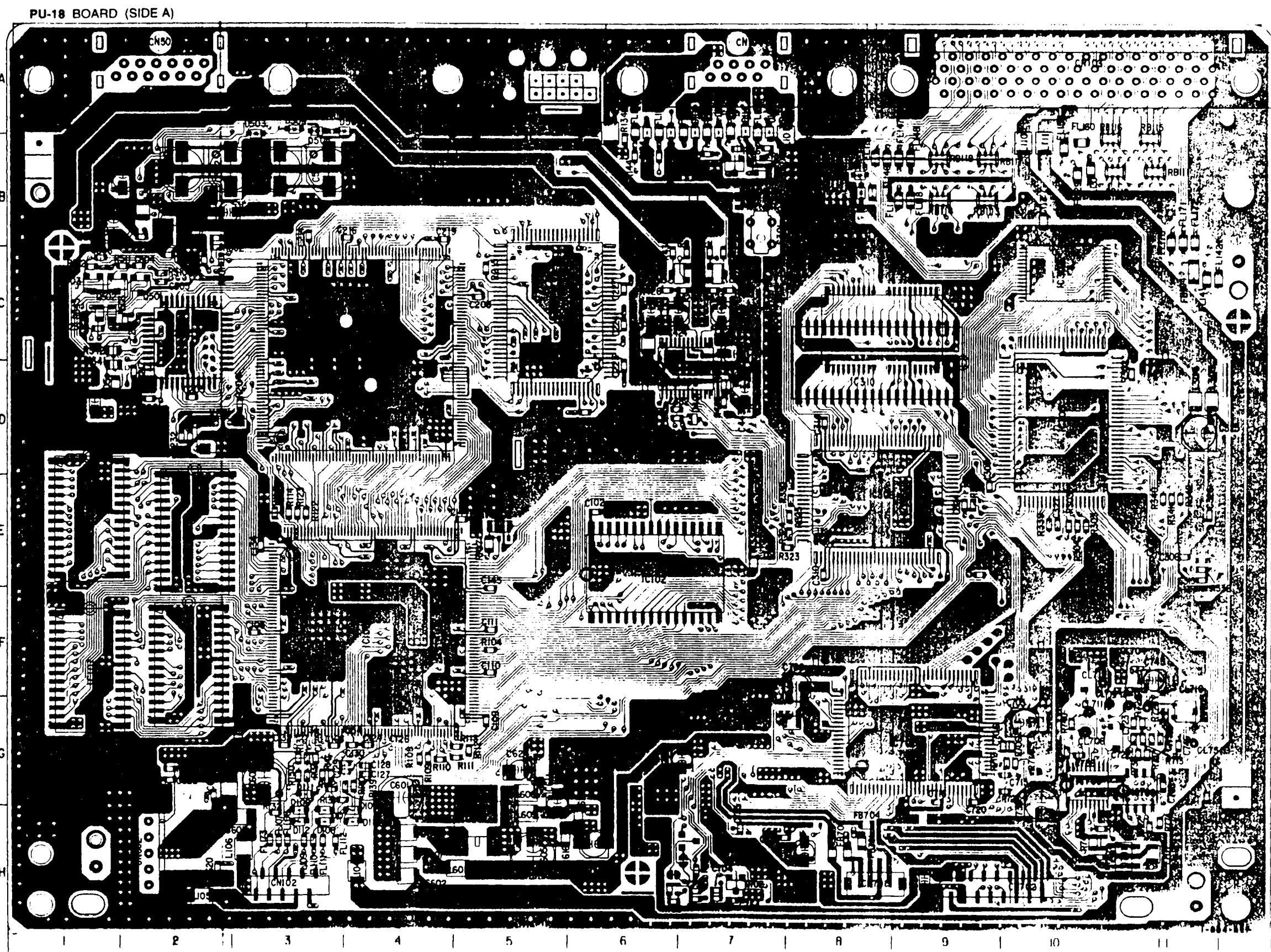
- Caution when replacing chip parts.
New parts must be attached after removal of chip.
Be careful not to heat the minus side of tantalum capacitor, because it is damaged by the heat.
- All capacitors are in μF unless otherwise noted. pF : μF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- Chip resistor are 1/8 W or 1/10 W unless otherwise noted. $\text{k}\Omega$: 1000 Ω , $\text{M}\Omega$: 1000 $\text{k}\Omega$.

Note :
The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Note :
Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

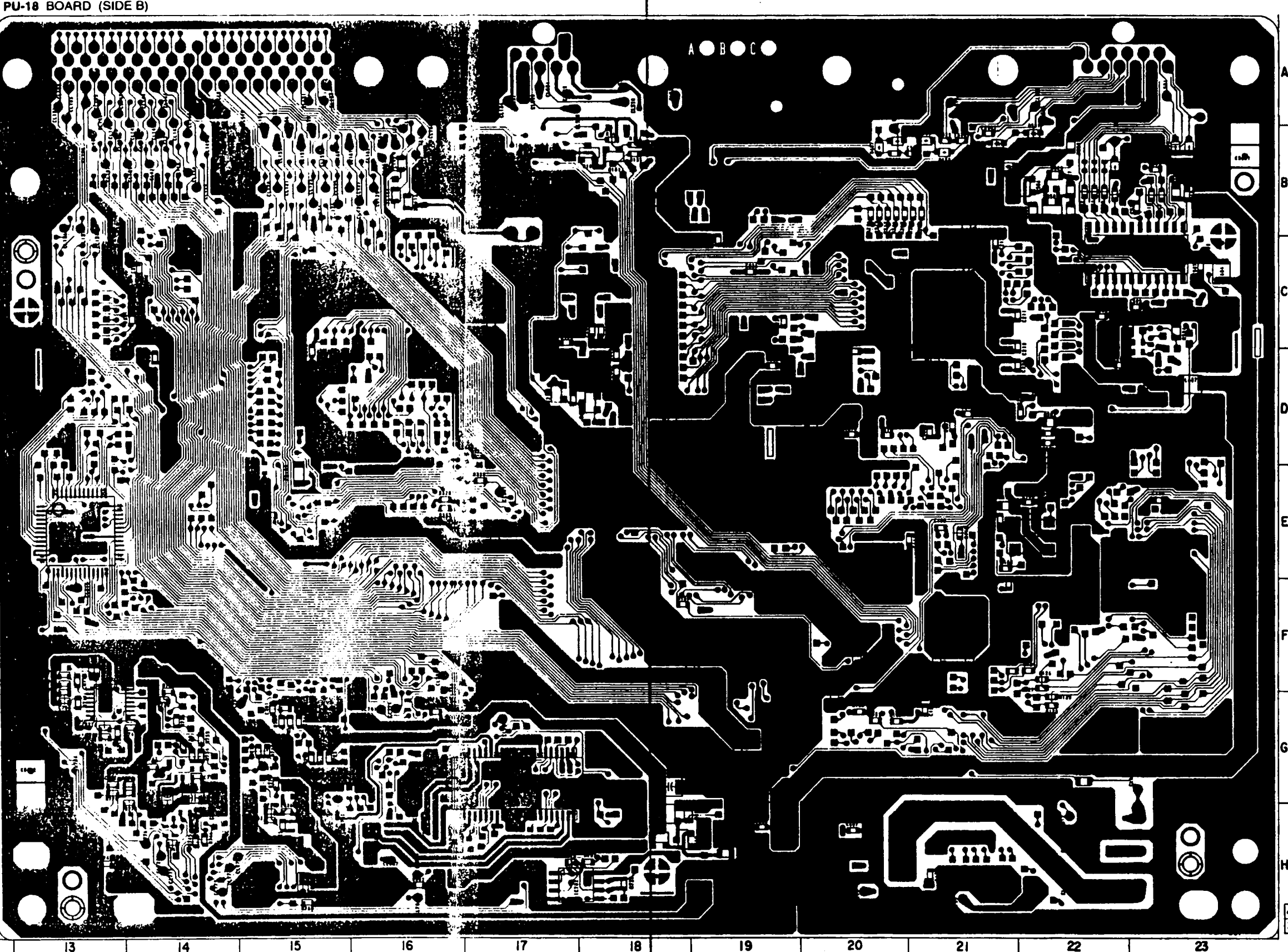
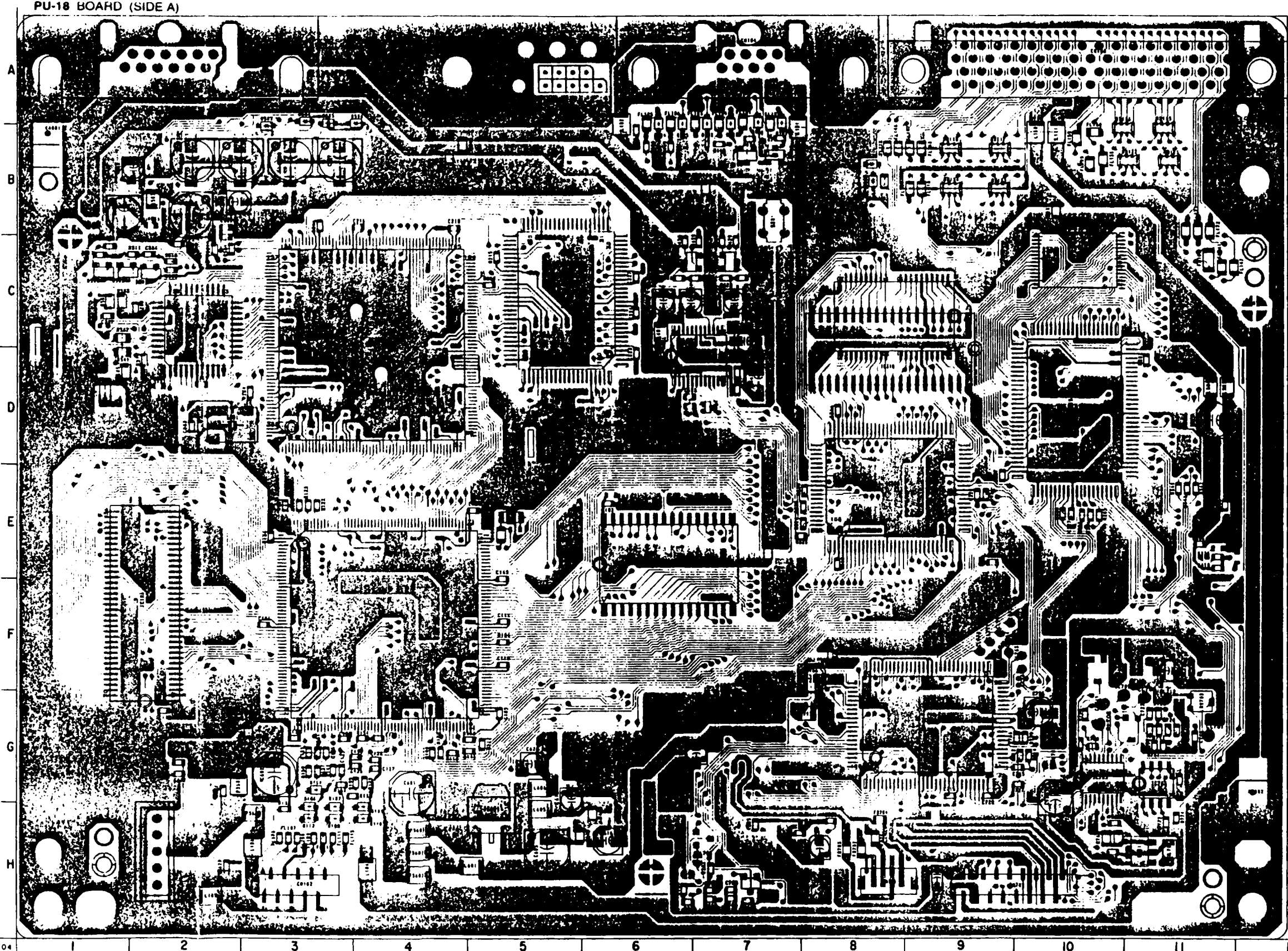
• Semiconductor Location (PU-18 board(-11/-21))

Ref. No.	Location	Ref. No.	Location
D101	B-7	IC201	C-5
D102	A-7	IC202	C-2
D103	B-7	IC203	C-4
D104	B-6	IC303	C-10
D105	B-6	IC304	E-13
D106	H-3	IC305	D-10
D107	H-3	IC308	E-8
D108	H-3	IC310	C-8
D109	G-4	IC402	D-7
D110	G-4	IC501	C-23
D111	G-3	IC601	H-5
D112	H-3	IC701	G-9
D114	B-7	IC702	H-18
D118	B-8	IC703	G-10
D119	B-8	IC704	G-17
D401	D-7	IC706	G-13
D406	B-20	IC708	G-11
D407	B-20		
D408	B-21	Q101	B-18
D409	B-20	Q102	B-7
D501	B-22	Q103	B-7
D502	B-21	Q104	B-18
D503	B-3	Q401	D-18
D504	B-3	Q402	D-17
D505	B-3	Q403	C-7
D506	B-3	Q404	C-6
D507	B-21	Q501	C-2
D509	B-23	Q502	C-1
D510	B-23	Q503	C-1
D511	B-22	Q505	B-22
		Q506	B-21
IC102	E-6	Q609	H-18
IC103	F-4	Q610	H-18
IC106	F-2	Q611	H-18
IC107	F-1	Q701	H-11
IC118	F-2	Q702	H-7
IC109	E-1		



• Semiconductor Location (PU-18 board(-31/-41))

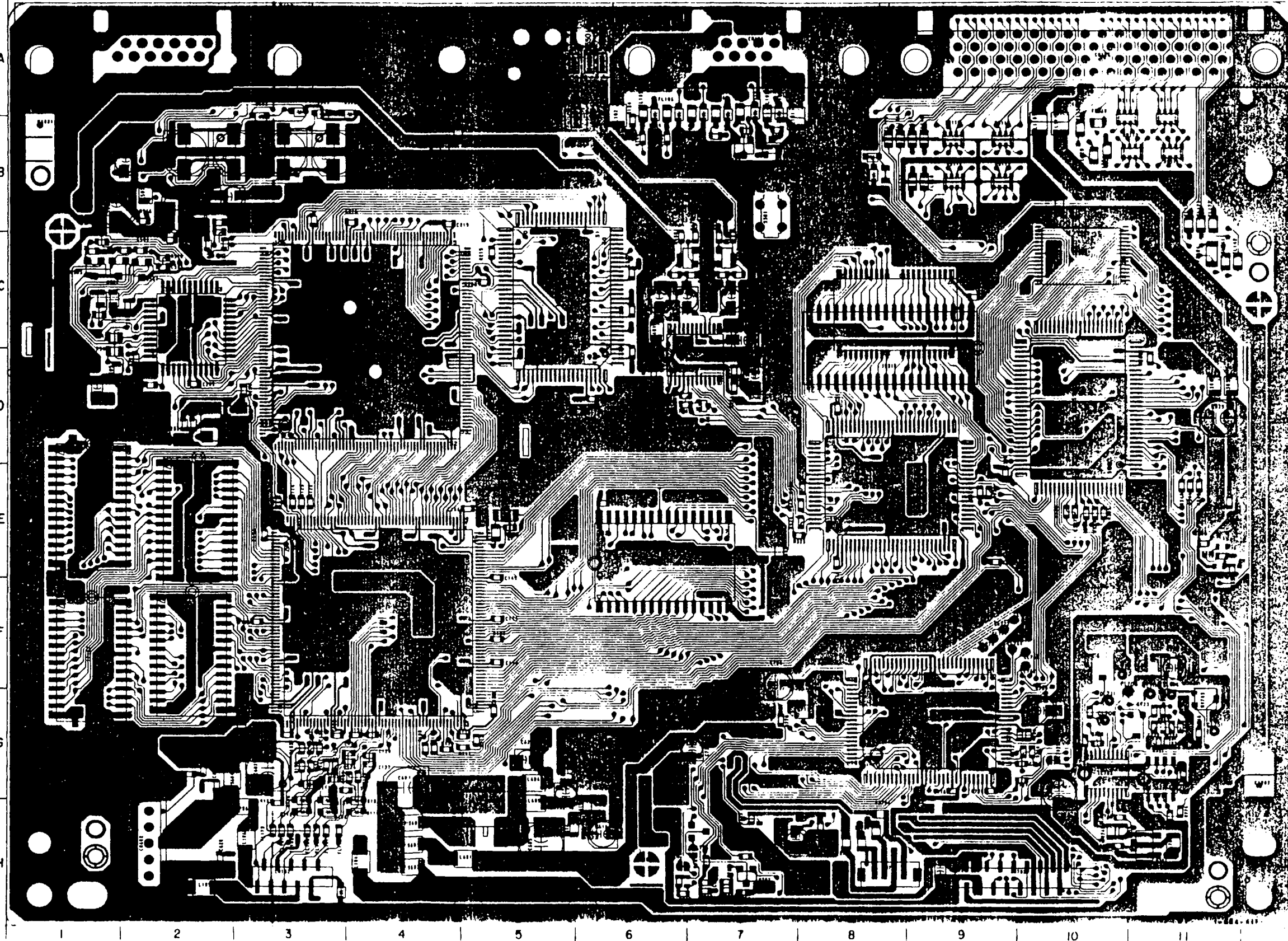
Ref. No.	Location	Ref. No.	Location
D101	B-7	IC202	C-2
D102	A-7	IC203	C-4
D103	B-7	IC303	C-10
D104	B-6	IC304	E-13
D105	B-6	IC305	D-10
D106	H-3	IC308	E-8
D107	H-3	IC310	C-8
D108	H-3	IC402	D-7
D109	G-4	IC501	C-23
D110	G-4	IC601	H-5
D111	G-3	IC701	G-9
D112	H-3	IC702	H-18
D114	B-7	IC703	G-10
D118	B-8	IC704	G-17
D119	B-8	IC706	G-13
D401	D-7	IC708	G-11
D406	B-20		
D407	B-20	Q101	B-18
D408	B-21	Q102	B-7
D409	B-20	Q103	B-7
D501	B-22	Q104	B-18
D502	B-21	Q401	D-18
D503	B-3	Q402	D-17
D504	B-3	Q403	C-7
D505	B-3	Q404	C-6
D506	B-3	Q501	C-2
D507	B-21	Q502	C-1
D509	B-23	Q503	C-1
D510	B-23	Q505	B-22
D511	B-22	Q506	B-21
		Q609	H-18
IC102	E-6	Q610	H-18
IC103	F-4	Q611	H-18
IC106	F-2	Q701	H-11
IC201	C-5	Q702	H-7



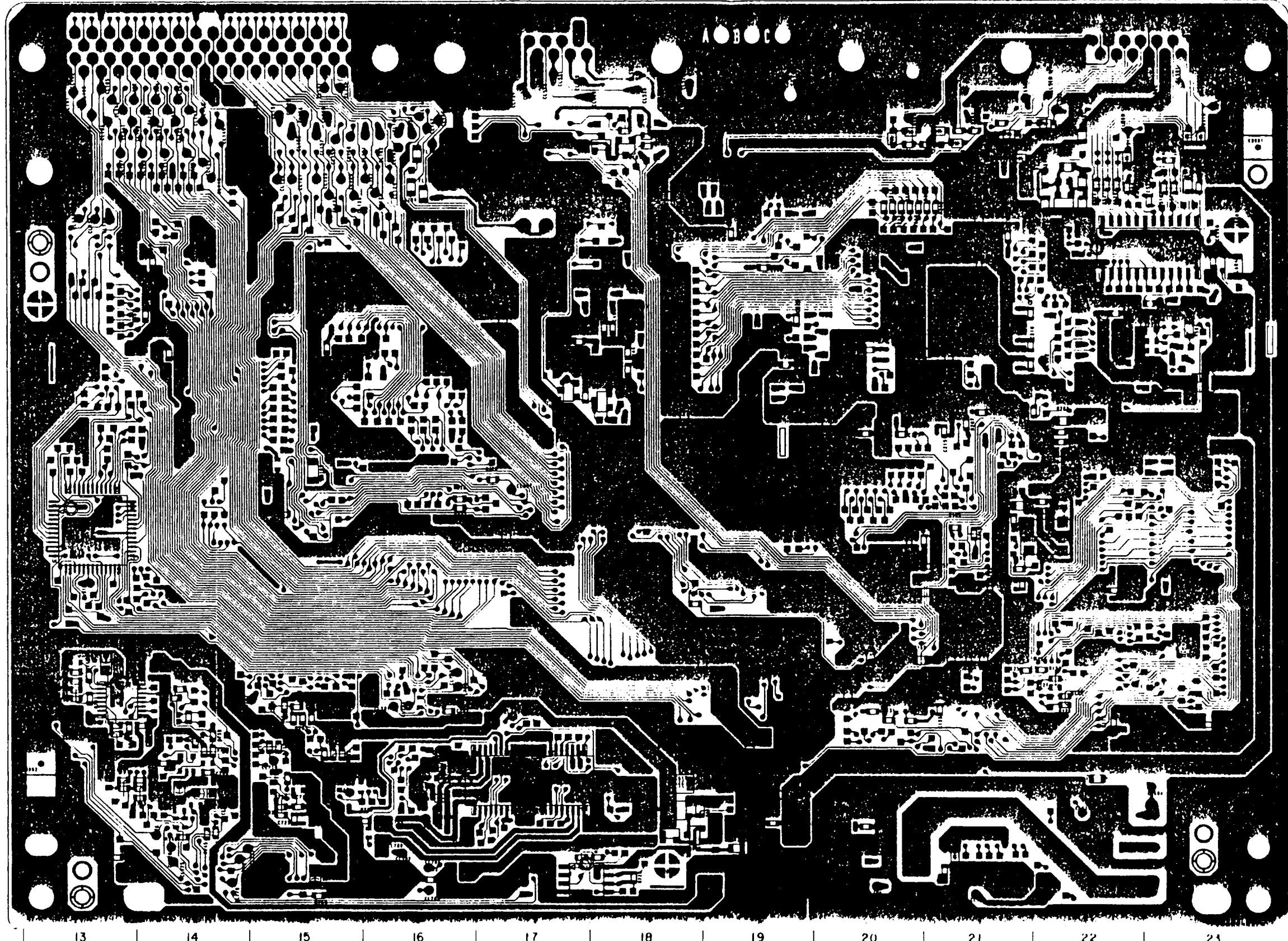
• Semiconductor Location (PU-18 board(-52/-62))

Ref. No.	Location	Ref. No.	Location
D101	B-7	IC107	F-1
D102	A-7	IC108	E-2
D103	B-7	IC109	E-1
D104	B-6	IC201	C-5
D105	B-6	IC202	C-2
D106	H-3	IC203	C-4
D107	H-3	IC303	C-10
D108	H-3	IC304	E-13
D109	G-4	IC305	D-10
D110	G-4	IC308	E-8
D111	G-3	IC310	C-8
D112	H-3	IC402	D-7
D114	B-7	IC501	C-23
D118	B-8	IC601	H-5
D119	B-8	IC701	G-9
D120	H-3	IC702	H-18
D121	H-21	IC703	G-10
D401	D-7	IC704	G-17
D406	B-20	IC706	G-13
D407	B-20	IC708	G-11
D408	B-21		
D409	B-20	Q101	B-18
D501	B-22	Q102	B-7
D502	B-21	Q103	B-7
D503	B-3	Q104	B-18
D504	B-3	Q401	D-18
D505	B-3	Q402	D-17
D506	B-3	Q403	C-7
D507	B-21	Q404	C-6
D509	B-23	Q501	C-2
D510	B-23	Q502	C-1
D511	B-22	Q503	C-1
D701	H-16	Q505	B-22
D702	H-16	Q506	B-21
D703	H-16	Q609	H-18
D704	H-16	Q610	H-18
		Q611	H-18
IC102	E-6	Q701	H-11
IC103	F-4	Q702	H-7
IC106	F-2		

PU-18 BOARD (SIDE A)

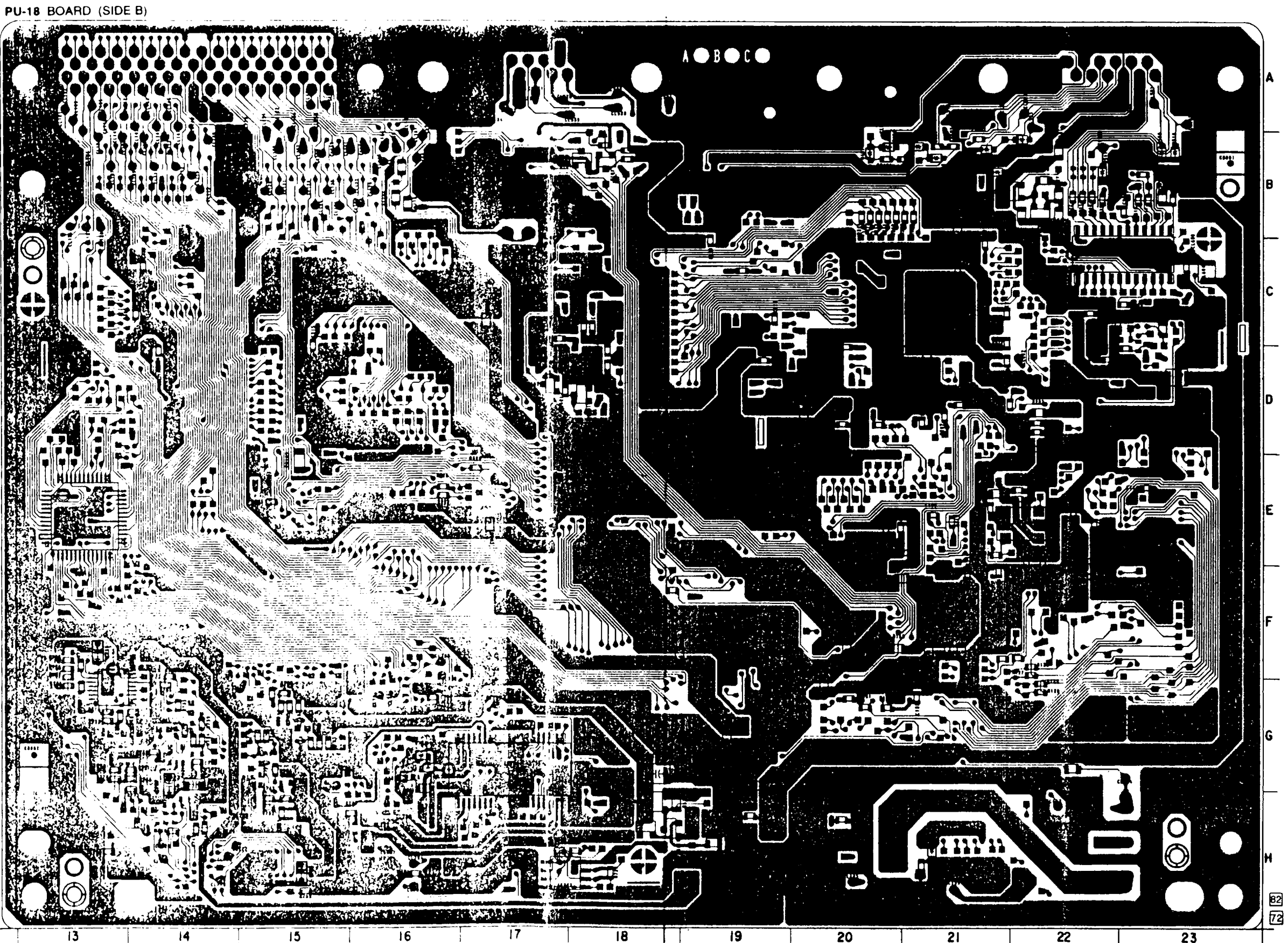
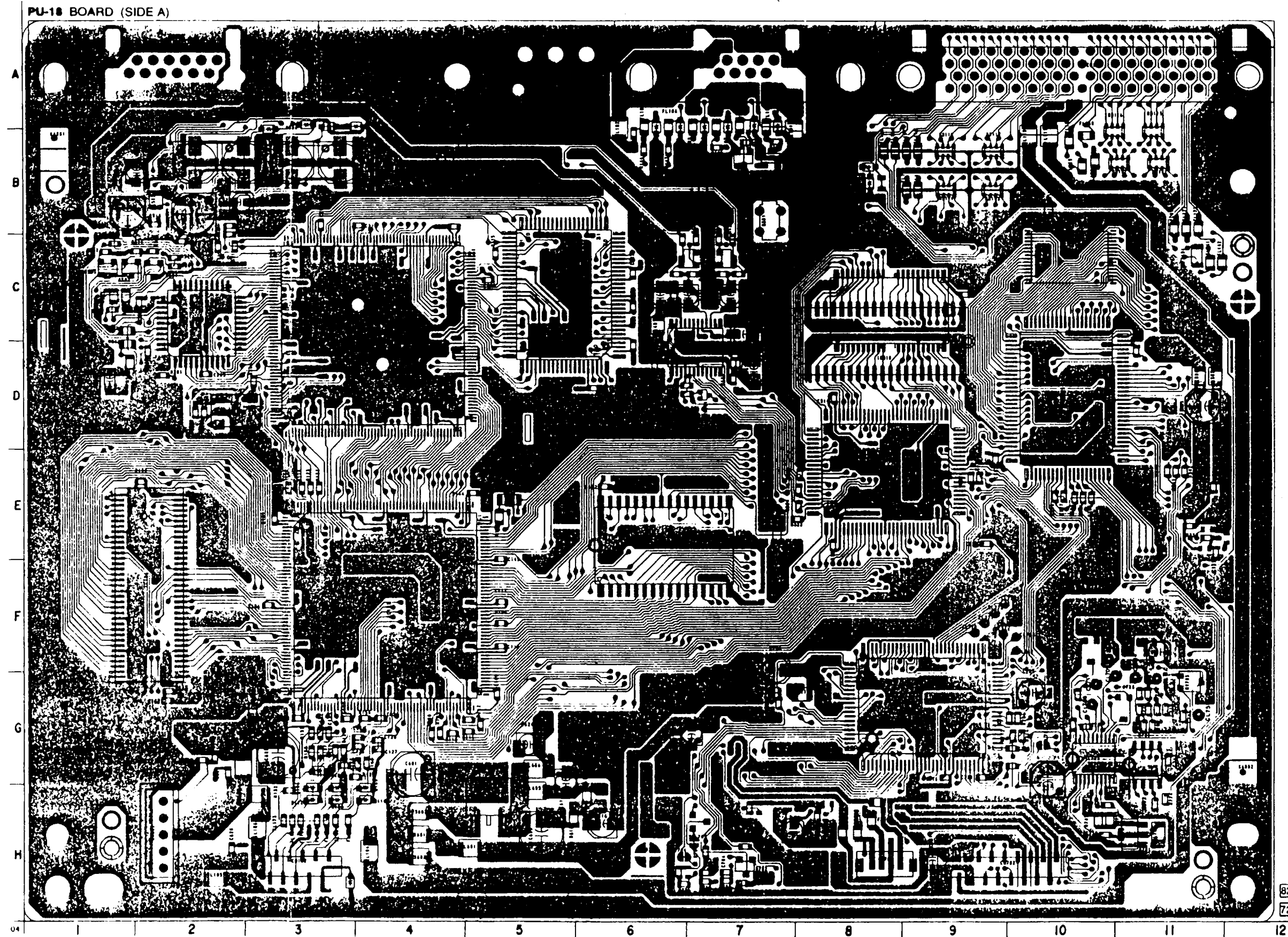


PU-18 BOARD (SIDE B)



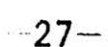
Microconductor Location (PU-18 board(-72/-82))

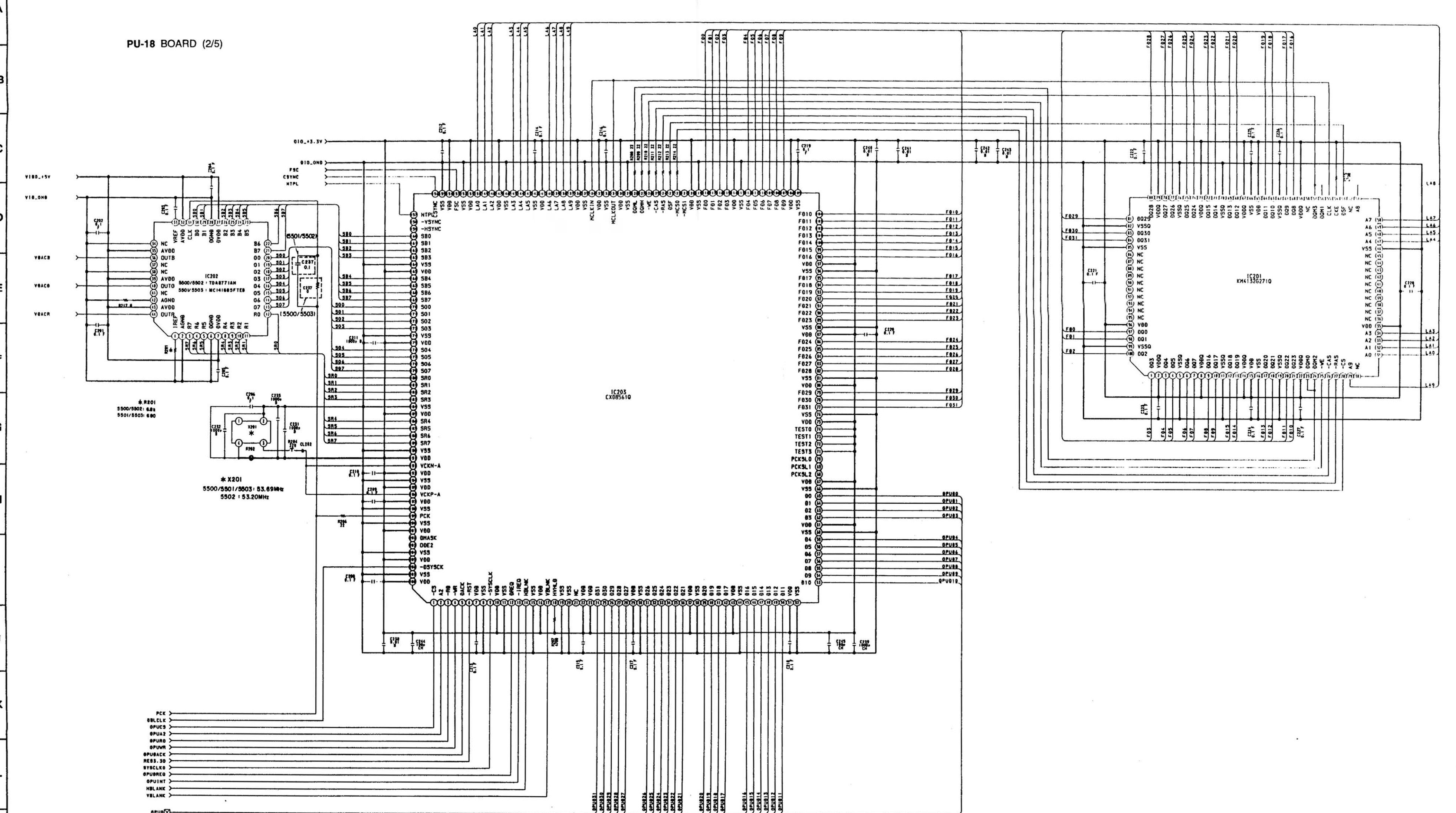
Pin No.	Location	Ref. No.	Location
01	B-7	IC103	F-4
02	A-7	IC106	F-2
03	B-7	IC201	C-5
04	B-6	IC202	C-2
05	B-6	IC203	C-4
06	H-3	IC303	C-10
07	H-3	IC304	E-13
08	H-3	IC305	D-10
09	G-4	IC308	E-8
10	G-4	IC310	C-8
11	G-3	IC402	D-7
12	H-3	IC501	C-23
14	B-7	IC601	H-5
118	B-8	IC701	G-9
119	B-8	IC702	H-18
120	H-3	IC703	G-10
121	H-21	IC704	G-17
401	D-7	IC706	G-13
406	B-20	IC708	G-11
407	B-20		
408	B-21	Q101	B-18
409	B-20	Q102	B-7
501	B-22	Q103	B-7
502	B-21	Q104	B-18
503	B-3	Q401	D-18
504	B-3	Q402	D-17
505	B-3	Q403	C-7
506	B-3	Q404	C-6
507	B-21	Q501	C-2
509	B-23	Q502	C-1
510	B-23	Q503	C-1
511	B-22	Q505	B-22
701	H-16	Q506	B-21
702	H-16	Q609	H-18
703	H-16	Q610	H-18
704	H-16	Q611	H-18
IC102	E-6	Q701	H-11
		Q702	H-7



A



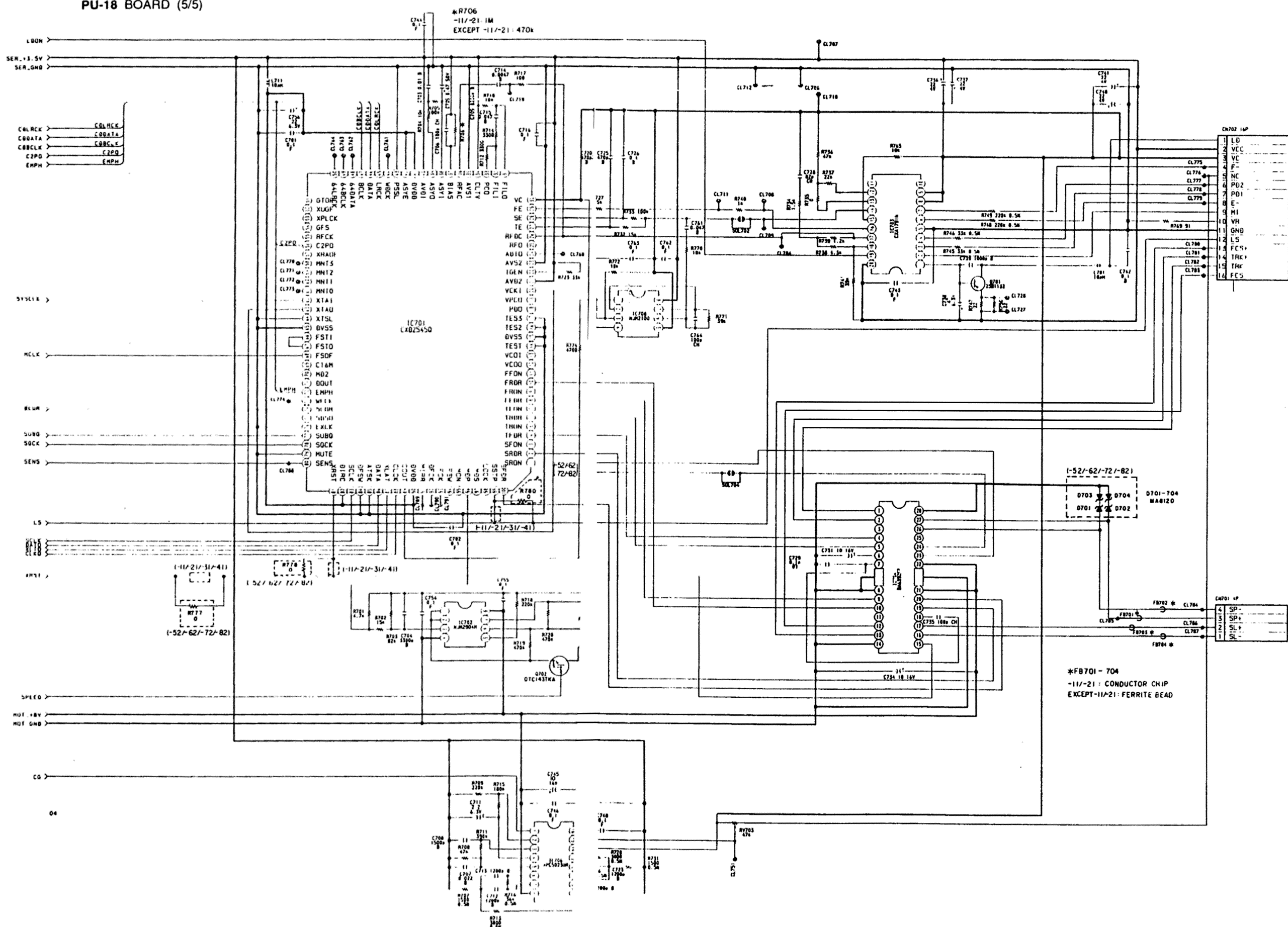




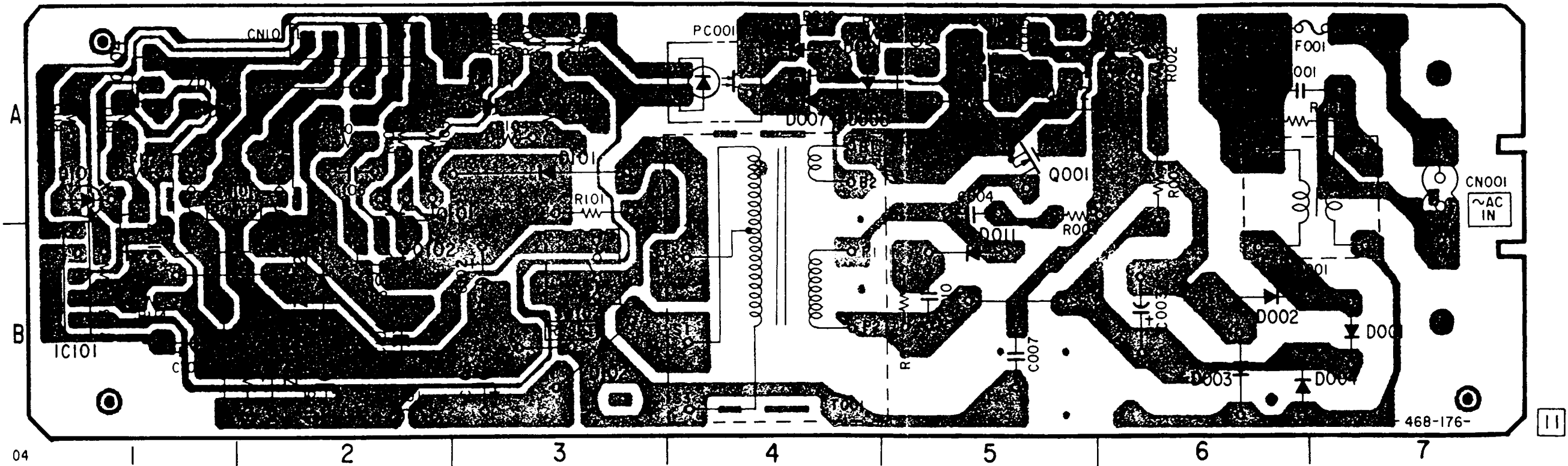


A





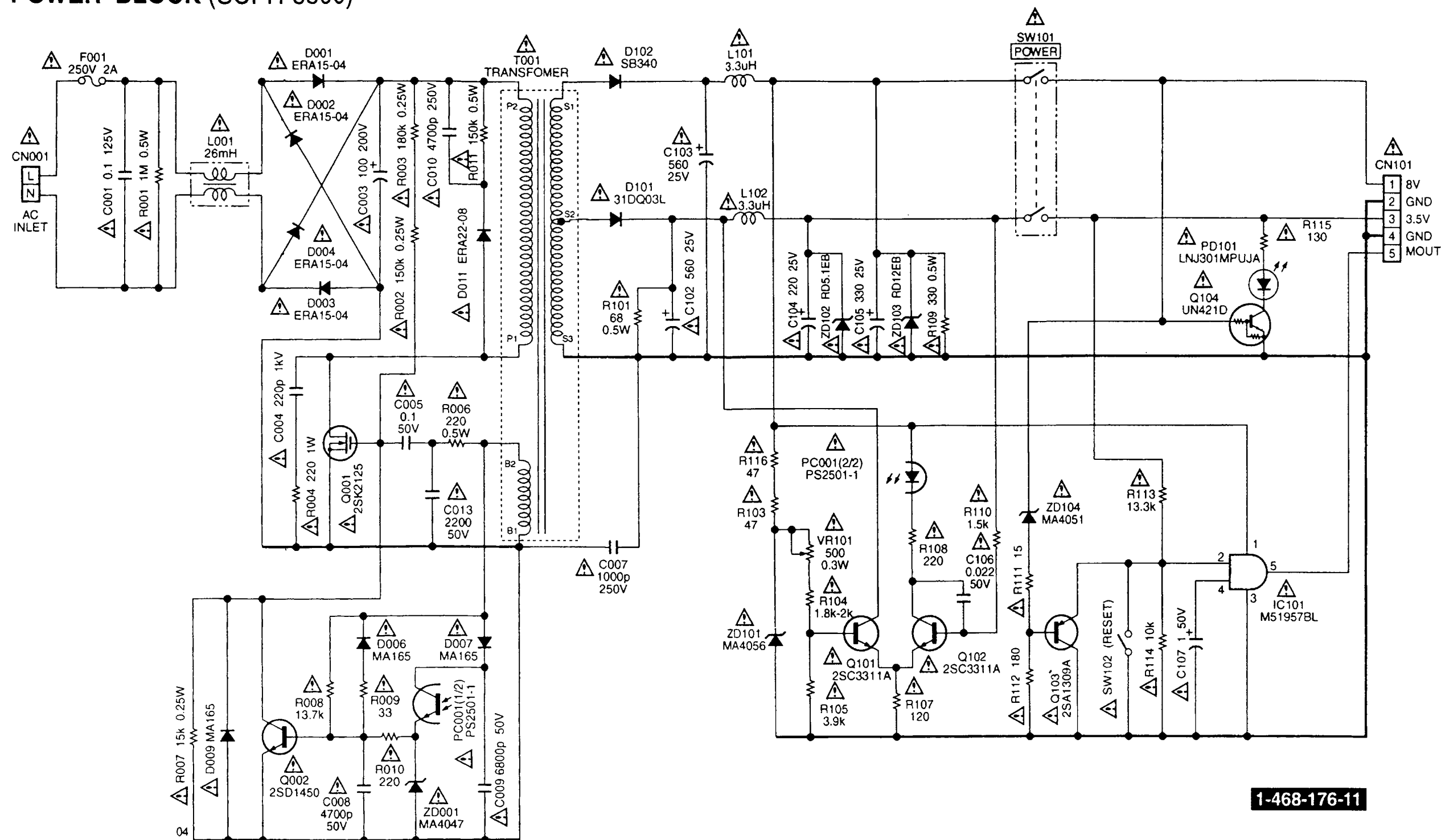
POWER BLOCK (SCPH-5500)



• Semiconductor Location
(1-468-176-11)

Ref. No.	Location
D001	B-7
D002	B-6
D003	B-6
D004	B-7
D006	A-4
D007	A-4
D009	A-6
D011	B-5
D101	A-3
D102	B-3
IC101	B-1
PC001	A-4
PD101	A-1
Q001	A-5
Q002	A-5
Q101	A-2
Q102	B-2
Q103	B-1
Q104	A-1
ZD001	A-4
ZD101	A-3
ZD102	B-2
ZD103	B-2
ZD104	A-1

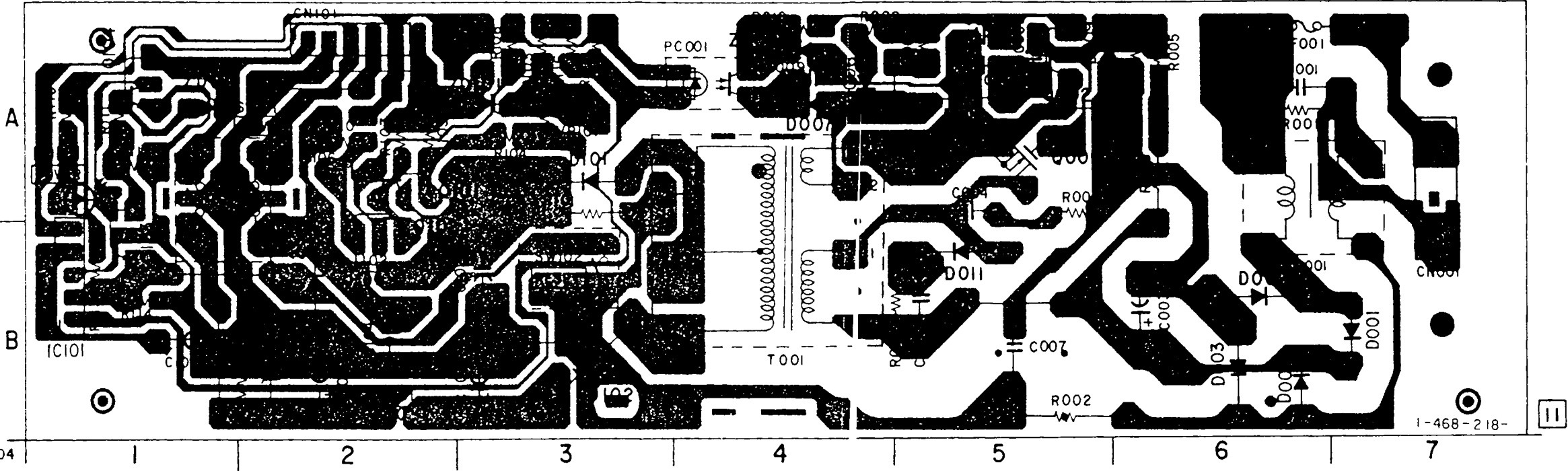
POWER BLOCK (SCPH-5500)



Note:
The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

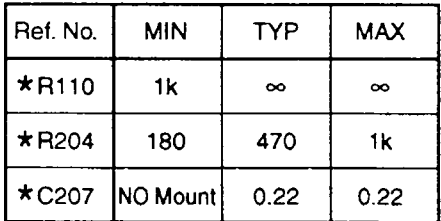
POWER BLOCK



Conductor Location

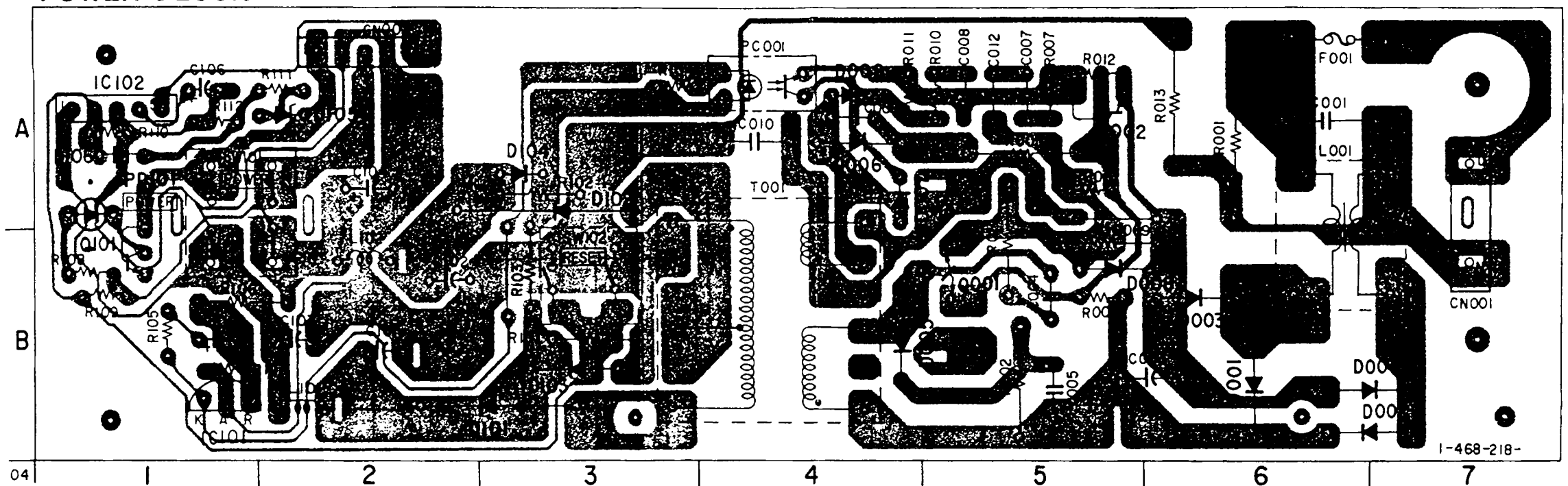
1-468-218-11)	
No.	Location
01	B-7
02	B-6
03	B-6
04	B-6
05	A-4
07	A-4
09	A-5
11	B-5
01	A-3
02	B-3
10	B-1
201	A-4
101	A-1
101	A-5
102	A-5
101	A-2
102	B-2
103	B-3
104	A-1
D001	A-4
D101	A-4
D102	B-2
D103	B-2
D104	A-1

A
B
C
D
E
F
G
H
I
J

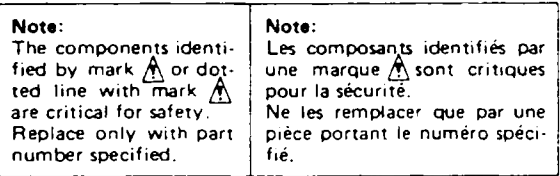


Note:
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Int. No.	Location
0001	B-6
0002	B-7
0003	B-6
0004	B-7
0005	B-4
0006	A-4
0007	A-4
0008	B-5
0009	A-4
D101	B-3
D102	A-3
D103	B-3
D104	A-3
D105	A-2
D106	A-1
C101	B-1
C102	A-1
PC001	A-4
PD101	A-1
Q001	B-5
Q002	A-5
Q101	A-1



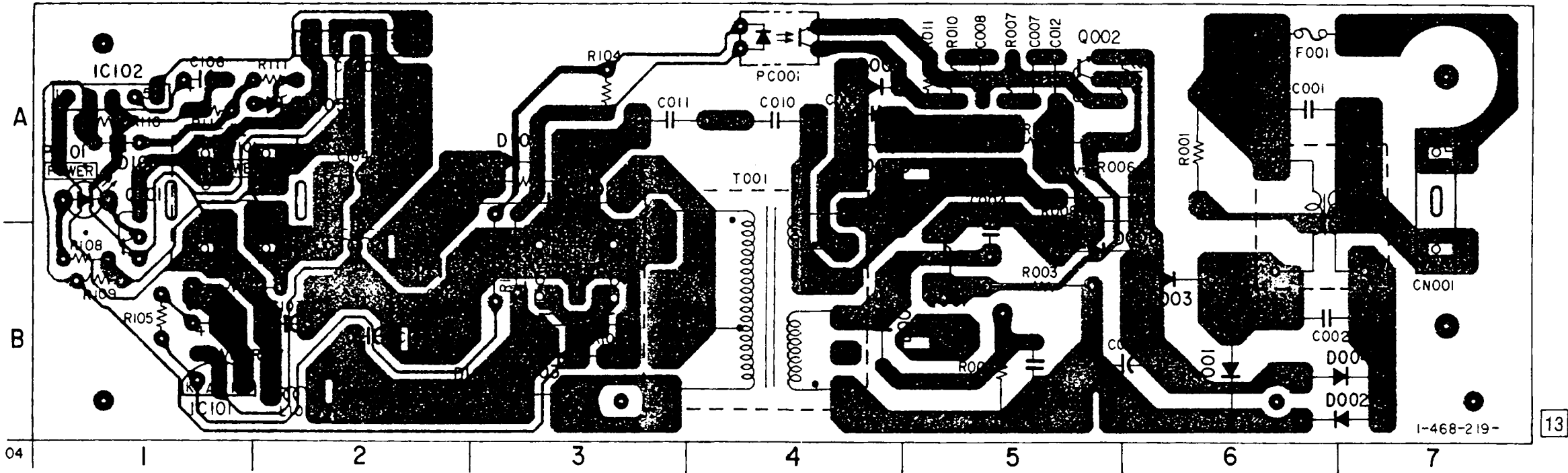
G



POWER BLOCK

•Semiconductor Location
(1-468-219-12)

Ref. No.	Location
D001	B-6
D002	B-7
D003	B-6
D004	B-7
D005	B-4
D006	A-4
D007	A-4
D008	B-5
D101	B-3
D102	A-3
D103	B-3
D104	A-3
D105	A-2
D106	A-1
IC101	B-1
IC102	A-1
PC001	A-4
PD101	A-1
Q001	B-5
Q002	A-5
Q101	B-1



1 2 3 4 5 6 7 8 9 10 11 12 13 14

A POWER BLOCK (SCPH-5502)

B

C

D

E

F

G

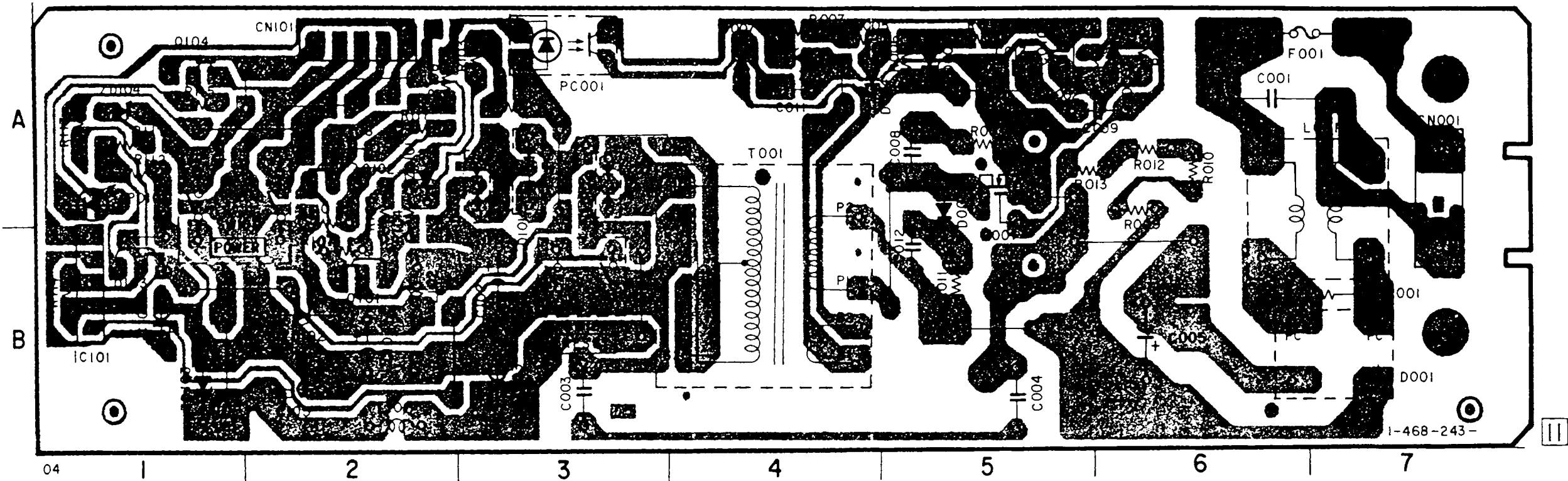
The schematic diagram illustrates the internal circuitry of the POWER BLOCK (SCPH-5502). It begins with an AC INLET (CN001) connected to a fuse (F001, 1.6A/250V) and a network of capacitors (C001, C002, C003, C004, C005, C006, C007, C008, C010, C011, C012) and resistors (R001, R002, R003, R005, R006, R007, R009, R010, R011, R012). The circuit then passes through a transformer (T001) and a series of diodes (D001, D002, D003, D004, D005, D006, D007, D008, D0101, D0102, D0104, D0105, D0106). A complex network of resistors (R001, R002, R003, R005, R006, R007, R009, R010, R011, R012, R103, R104, R105, R106, R107, R108, R109, R110, R111, R112) and capacitors (C001, C002, C003, C004, C005, C006, C007, C008, C010, C011, C012) is used for signal processing. The circuit includes several integrated circuits (IC001, IC002, IC003, IC004, IC005, IC006, IC007, IC008, IC009, IC010, IC011, IC012, IC013, IC014, IC015, IC016, IC017, IC018, IC019, IC020, IC021, IC022, IC023, IC024, IC025, IC026, IC027, IC028, IC029, IC030, IC031, IC032, IC033, IC034, IC035, IC036, IC037, IC038, IC039, IC040, IC041, IC042, IC043, IC044, IC045, IC046, IC047, IC048, IC049, IC050, IC051, IC052, IC053, IC054, IC055, IC056, IC057, IC058, IC059, IC060, IC061, IC062, IC063, IC064, IC065, IC066, IC067, IC068, IC069, IC070, IC071, IC072, IC073, IC074, IC075, IC076, IC077, IC078, IC079, IC080, IC081, IC082, IC083, IC084, IC085, IC086, IC087, IC088, IC089, IC090, IC091, IC092, IC093, IC094, IC095, IC096, IC097, IC098, IC099, IC100, IC101, IC102, IC103, IC104, IC105, IC106, IC107, IC108, IC109, IC110, IC111, IC112, IC113, IC114, IC115, IC116, IC117, IC118, IC119, IC120, IC121, IC122, IC123, IC124, IC125, IC126, IC127, IC128, IC129, IC130, IC131, IC132, IC133, IC134, IC135, IC136, IC137, IC138, IC139, IC140, IC141, IC142, IC143, IC144, IC145, IC146, IC147, IC148, IC149, IC150, IC151, IC152, IC153, IC154, IC155, IC156, IC157, IC158, IC159, IC160, IC161, IC162, IC163, IC164, IC165, IC166, IC167, IC168, IC169, IC170, IC171, IC172, IC173, IC174, IC175, IC176, IC177, IC178, IC179, IC180, IC181, IC182, IC183, IC184, IC185, IC186, IC187, IC188, IC189, IC190, IC191, IC192, IC193, IC194, IC195, IC196, IC197, IC198, IC199, IC200, IC201, IC202, IC203, IC204, IC205, IC206, IC207, IC208, IC209, IC210, IC211, IC212, IC213, IC214, IC215, IC216, IC217, IC218, IC219, IC220, IC221, IC222, IC223, IC224, IC225, IC226, IC227, IC228, IC229, IC230, IC231, IC232, IC233, IC234, IC235, IC236, IC237, IC238, IC239, IC240, IC241, IC242, IC243, IC244, IC245, IC246, IC247, IC248, IC249, IC250, IC251, IC252, IC253, IC254, IC255, IC256, IC257, IC258, IC259, IC260, IC261, IC262, IC263, IC264, IC265, IC266, IC267, IC268, IC269, IC270, IC271, IC272, IC273, IC274, IC275, IC276, IC277, IC278, IC279, IC280, IC281, IC282, IC283, IC284, IC285, IC286, IC287, IC288, IC289, IC290, IC291, IC292, IC293, IC294, IC295, IC296, IC297, IC298, IC299, IC300, IC301, IC302, IC303, IC304, IC305, IC306, IC307, IC308, IC309, IC310, IC311, IC312, IC313, IC314, IC315, IC316, IC317, IC318, IC319, IC320, IC321, IC322, IC323, IC324, IC325, IC326, IC327, IC328, IC329, IC330, IC331, IC332, IC333, IC334, IC335, IC336, IC337, IC338, IC339, IC340, IC341, IC342, IC343, IC344, IC345, IC346, IC347, IC348, IC349, IC350, IC351, IC352, IC353, IC354, IC355, IC356, IC357, IC358, IC359, IC360, IC361, IC362, IC363, IC364, IC365, IC366, IC367, IC368, IC369, IC370, IC371, IC372, IC373, IC374, IC375, IC376, IC377, IC378, IC379, IC380, IC381, IC382, IC383, IC384, IC385, IC386, IC387, IC388, IC389, IC390, IC391, IC392, IC393, IC394, IC395, IC396, IC397, IC398, IC399, IC400, IC401, IC402, IC403, IC404, IC405, IC406, IC407, IC408, IC409, IC410, IC411, IC412, IC413, IC414, IC415, IC416, IC417, IC418, IC419, IC420, IC421, IC422, IC423, IC424, IC425, IC426, IC427, IC428, IC429, IC430, IC431, IC432, IC433, IC434, IC435, IC436, IC437, IC438, IC439, IC440, IC441, IC442, IC443, IC444, IC445, IC446, IC447, IC448, IC449, IC450, IC451, IC452, IC453, IC454, IC455, IC456, IC457, IC458, IC459, IC460, IC461, IC462, IC463, IC464, IC465, IC466, IC467, IC468, IC469, IC470, IC471, IC472, IC473, IC474, IC475, IC476, IC477, IC478, IC479, IC480, IC481, IC482, IC483, IC484, IC485, IC486, IC487, IC488, IC489, IC490, IC491, IC492, IC493, IC494, IC495, IC496, IC497, IC498, IC499, IC500, IC501, IC502, IC503, IC504, IC505, IC506, IC507, IC508, IC509, IC510, IC511, IC512, IC513, IC514, IC515, IC516, IC517, IC518, IC519, IC520, IC521, IC522, IC523, IC524, IC525, IC526, IC527, IC528, IC529, IC530, IC531, IC532, IC533, IC534, IC535, IC536, IC537, IC538, IC539, IC540, IC541, IC542, IC543, IC544, IC545, IC546, IC547, IC548, IC549, IC550, IC551, IC552, IC553, IC554, IC555, IC556, IC557, IC558, IC559, IC560, IC561, IC562, IC563, IC564, IC565, IC566, IC567, IC568, IC569, IC570, IC571, IC572, IC573, IC574, IC575, IC576, IC577, IC578, IC579, IC580, IC581, IC582, IC583, IC584, IC585, IC586, IC587, IC588, IC589, IC590, IC591, IC592, IC593, IC594, IC595, IC596, IC597, IC598, IC599, IC600, IC601, IC602, IC603, IC604, IC605, IC606, IC607, IC608, IC609, IC610, IC611, IC612, IC613, IC614, IC615, IC616, IC617, IC618, IC619, IC620, IC621, IC622, IC623, IC624, IC625, IC626, IC627, IC628, IC629, IC630, IC631, IC632, IC633, IC634, IC635, IC636, IC637, IC638, IC639, IC640, IC641, IC642, IC643, IC644, IC645, IC646, IC647, IC648, IC649, IC650, IC651, IC652, IC653, IC654, IC655, IC656, IC657, IC658, IC659, IC660, IC661, IC662, IC663, IC664, IC665, IC666, IC667, IC668, IC669, IC670, IC671, IC672, IC673, IC674, IC675, IC676, IC677, IC678, IC679, IC680, IC681, IC682, IC683, IC684, IC685, IC686, IC687, IC688, IC689, IC690, IC691, IC692, IC693, IC694, IC695, IC696, IC697, IC698, IC699, IC700, IC701, IC702, IC

1-468-219-13

Note:
The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

POWER BLOCK



• Semiconductor Location
(1-468-243-11)

Ref. No.	Location
D001	B-7
D003	A-6
D004	A-4
D007	A-4
D008	A-5
D101	A-3
D102	A-3
IC101	B-1
PC001	A-3
PD101	A-1
Q001	A-5
Q002	A-5
Q101	B-2
Q102	A-2
Q103	B-1
Q104	A-1
ZD001	A-4
ZD002	A-5
ZD101	A-2
ZD102	B-2
ZD103	B-1
ZD104	A-1

Note:
Les composants identifiés par une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

NOTE:

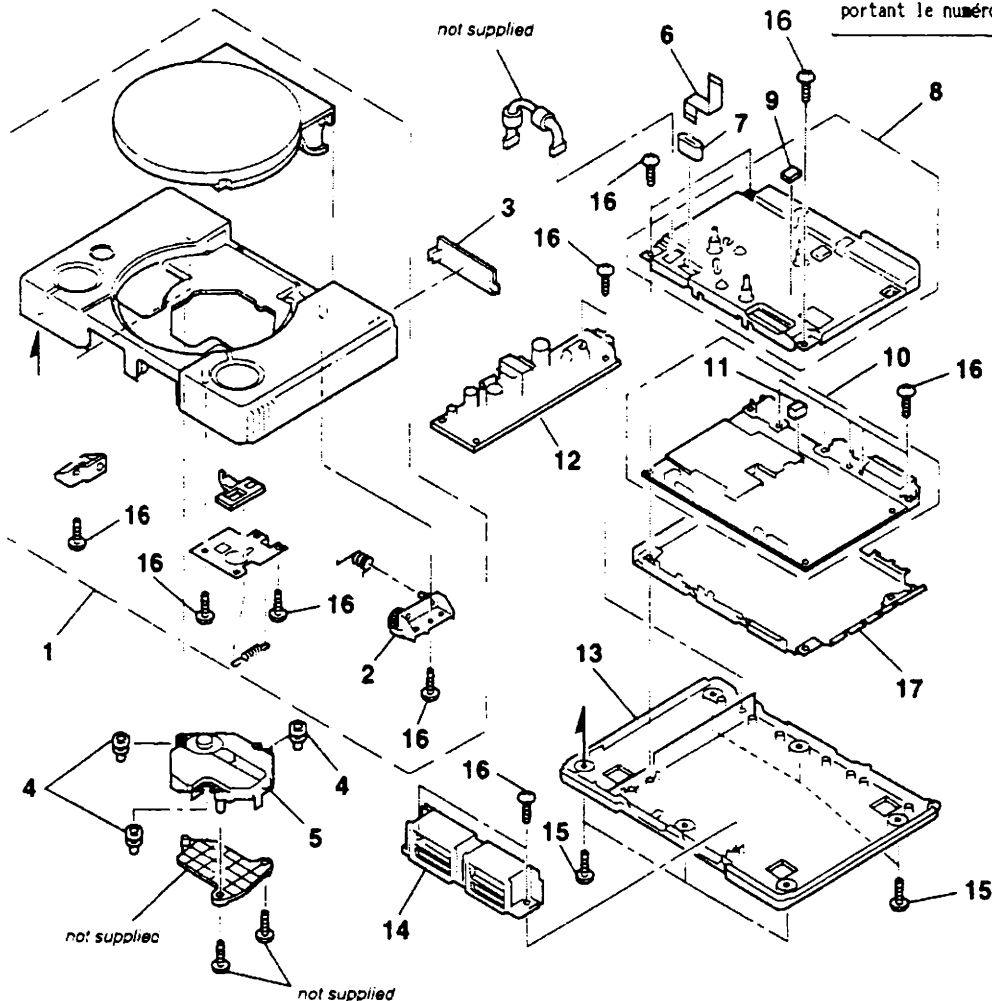
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

4-1. MAIN BLOCK



Ref. No.	Part No.	Description	Remark
• 1	X-3947-022-1	CABINET (UPPER) ASSY	(5500)
• 1	X-3947-491-1	CABINET (UPPER) ASSY	(5501)
• 1	X-3946-784-1	CABINET (UPPER) ASSY	(5502)
• 1	X-3947-022-3	CABINET (UPPER) ASSY	(5503)
2	3-962-221-02	DAMPER, OIL	
• 3	3-962-222-03	LID, P10	(5500/5502/5503)
• 3	3-962-222-21	LID, P10	(5501)
• 4	3-965-376-01	INSULATOR	
 5	8-820-011-01	PICK-UP, OPTICAL KSM-440ADM/CIN	
• 6	1-777-919-11	CABLE, FLAT (FFC-215)	
• 7	1-500-226-21	BEAD, FERRITE	
• 8	X-3947-024-2	FRAME ASSY, SUB	
• 9	3-972-494-01	CUSHION (P)	
• 10	A-6423-447-A	PU-18 BOARD, COMPLETE	(5500 : -11/-21/-52/-62)
• 10	A-6423-460-A	PU-18 BOARD, COMPLETE	(5500 : -31/-41/-72/-82)
• 10	A-6423-470-A	PU-18 BOARD, COMPLETE	(5501 : -52/-62)

Ref. No.	Part No.	Description	Remark
• 10	A-6423-491-A	PU-18 BOARD, COMPLETE	(5501 : -72/-82)
• 10	A-6423-471-A	PU-18 BOARD, COMPLETE	(5502 : -52/-62)
• 10	A-6423-490-A	PU-18 BOARD, COMPLETE	(5502 : -72/-82)
• 10	A-6423-506-A	PU-18 BOARD, COMPLETE	(5503 : -52/-62)
• 10	A-6423-507-A	PU-18 BOARD, COMPLETE	(5503 : -72/-82)
• 11	3-973-812-01	COVER, PUSH SWITCH	
• 12	1-468-176-11	POWER, BLOCK	(5500)
• 12	1-468-218-11	POWER, BLOCK	(5501)
• 12	1-468-218-21	POWER, BLOCK	(5501)
• 12	1-468-218-31	POWER, BLOCK	(5501)
• 12	1-468-219-12	POWER, BLOCK	(5502)
• 12	1-468-243-11	POWER, BLOCK	(5503)
• 13	X-3947-023-1	CABINET (LOWER) ASSY	
• 14	1-537-836-17	TERMINAL BOARD (FRONT)	
15	3-325-679-81	SCREW, TAPPING •BV 3X14	
16	7-685-648-79	SCREW, TAPPING •BV 3X12	
• 17	3-974-534-01	SHIELD (LOWER)	

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• SEMICONDUCTORS

In each case, u: μ , for example:

uA...: μ A... uPA...: μ PA...

uPB...: μ PB... uPC...: μ PC... uPD...: μ PD...

• CAPACITORS

uF: μ F

• COILS

uH: μ H

- #: Refer to page 5 for "Notice for parts replacement".

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark
*	A-6423-447-A	PU-18 BOARD, COMPLETE *****	(5500 : -11/-21)
*	3-973-812-01	COVER, PUSH SWITCH	
		< CAPACITOR >	
• C100	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
• C101	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
• C102	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
• C103	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
• C104	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
• C105	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
• C106	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
• C108	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
• C109	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
• C110	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
• C111	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
• C112	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C113	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C114	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C115	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C116	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C117	1-164-232-11	CERAMIC 0.01uF	10% 50V
• C124	1-115-156-11	CERAMIC 1uF	10V
• C125	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
• C126	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
• C127	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
• C128	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
• C129	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
• C130	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
• C131	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
• C132	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
• C133	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
• C134	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
• C135	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
• C136	1-164-232-11	CERAMIC 0.01uF	10% 50V
• C137	1-163-275-11	CERAMIC 1000PF	5% 50V
• C138	1-164-232-11	CERAMIC 0.01uF	10% 50V
• C139	1-164-232-11	CERAMIC 0.01uF	10% 50V
• C140	1-164-232-11	CERAMIC 0.01uF	10% 50V
• C144	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
• C145	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
• C201	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C202	1-164-156-71	CERAMIC CHIP 0.1uF	25V

Ref. No.	Part No.	Description	Remark
• C203	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C204	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C205	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C206	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C208	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C209	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C210	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C211	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
• C212	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C213	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C214	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C215	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C216	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C217	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C218	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C219	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C220	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C221	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C222	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C223	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C224	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C225	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C226	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C227	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C228	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C231	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
• C232	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
• C235	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
• C237	1-216-864-11	CONDUCTOR, CHIP	#
• C238	1-164-232-11	CERAMIC 0.01uF	10% 50V
• C239	1-163-275-11	CERAMIC 1000PF	5% 50V
• C240	1-164-232-11	CERAMIC 0.01uF	10% 50V
• C241	1-164-232-11	CERAMIC 0.01uF	10% 50V
• C242	1-164-232-11	CERAMIC 0.01uF	10% 50V
• C243	1-164-232-11	CERAMIC 0.01uF	10% 50V
• C244	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
• C245	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
• C304	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C305	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C306	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C307	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C310	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C314	1-164-156-71	CERAMIC CHIP 0.1uF	25V
• C315	1-164-156-71	CERAMIC CHIP 0.1uF	25V

Ref. No.	Part No.	Description	Remark
C316	1-164-232-11	CERAMIC	0.01uF 10% 50V
C319	1-115-156-11	CERAMIC	1uF 10V
• C323	1-164-156-71	CERAMIC CHIP	0.1uF 25V
C324	1-115-156-11	CERAMIC	1uF 10V
C325	1-126-205-11	ELECT	47uF 20% 6.3V
• C326	1-164-156-71	CERAMIC CHIP	0.1uF 25V
C327	1-115-156-11	CERAMIC	1uF 10V
• C401	1-164-156-71	CERAMIC CHIP	0.1uF 25V
• C402	1-164-156-71	CERAMIC CHIP	0.1uF 25V
• C403	1-164-156-71	CERAMIC CHIP	0.1uF 25V
• C405	1-164-156-71	CERAMIC CHIP	0.1uF 25V
C406	1-128-004-11	ELECT CHIP	10uF 20% 16V
C407	1-128-004-11	ELECT CHIP	10uF 20% 16V
• C408	1-164-156-71	CERAMIC CHIP	0.1uF 25V
C423	1-128-004-11	ELECT CHIP	10uF 20% 16V
C424	1-128-004-11	ELECT CHIP	10uF 20% 16V
• C432	1-164-156-71	CERAMIC CHIP	0.1uF 25V
C443	1-124-778-00	ELECT	22uF 20% 6.3V
C444	1-164-232-11	CERAMIC	0.01uF 10% 50V
C445	1-164-232-11	CERAMIC	0.01uF 10% 50V
C501	1-162-910-11	CERAMIC CHIP	SPF 0.25PF 50V
C502	1-162-923-11	CERAMIC CHIP	47PF 5% 50V
• C504	1-164-156-71	CERAMIC CHIP	0.1uF 25V
• C505	1-164-156-71	CERAMIC CHIP	0.1uF 25V
• C506	1-164-156-71	CERAMIC CHIP	0.1uF 25V
• C507	1-164-156-71	CERAMIC CHIP	0.1uF 25V
C508	1-126-205-11	ELECT	47uF 20% 6.3V
• C509	1-164-156-71	CERAMIC CHIP	0.1uF 25V
• C510	1-164-156-71	CERAMIC CHIP	0.1uF 25V
C511	1-128-004-11	ELECT CHIP	10uF 20% 16V
• C512	1-164-156-71	CERAMIC CHIP	0.1uF 25V
C513	1-126-206-11	ELECT	100uF 20% 6.3V
C518	1-126-246-11	ELECT	220uF 20% 4V
C519	1-128-004-11	ELECT CHIP	10uF 20% 16V
C522	1-126-246-11	ELECT	220uF 20% 4V
C523	1-164-460-11	CERAMIC CHIP	62PF 5% 50V
• C524	1-164-156-71	CERAMIC CHIP	0.1uF 25V
C527	1-126-246-11	ELECT	220uF 20% 4V
C528	1-126-246-11	ELECT	220uF 20% 4V
• C529	1-162-927-71	CERAMIC CHIP	100PF 5% 50V
• C530	1-162-927-71	CERAMIC CHIP	100PF 5% 50V
C601	1-126-204-11	ELECT	47uF 20% 16V
C602	1-126-246-11	ELECT	220uF 20% 4V
C605	1-126-204-11	ELECT	47uF 20% 16V
C606	1-164-232-11	CERAMIC	0.01uF 10% 50V
• C607	1-164-156-71	CERAMIC CHIP	0.1uF 25V
• C608	1-164-156-71	CERAMIC CHIP	0.1uF 25V
C609	1-164-232-11	CERAMIC	0.01uF 10% 50V
C611	1-128-004-11	ELECT CHIP	10uF 20% 16V
C615	1-104-851-11	TANTLUM CHIP	10uF 20% 10V
C616	1-124-778-00	ELECT	22uF 20% 6.3V
C617	1-104-908-11	TANTLUM CHIP	47uF 20% 4V
• C620	1-162-964-11	CERAMIC CHIP	1000PF 10% 50V

Ref. No.	Part No.	Description	Remark
C621	1-115-156-11	CERAMIC	1uF 10V
• C622	1-162-964-11	CERAMIC CHIP	1000PF 10% 50V
C624	1-128-004-11	ELECT CHIP	10uF 20% 16V
C625	1-164-232-11	CERAMIC	0.01uF 10% 50V
C626	1-164-232-11	CERAMIC	0.01uF 10% 50V
• C701	1-164-156-71	CERAMIC CHIP	0.1uF 25V
• C702	1-164-156-71	CERAMIC CHIP	0.1uF 25V
C703	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C704	1-162-967-11	CERAMIC CHIP	3300PF 10% 50V
C705	1-126-191-11	ELECT	0.47uF 20% 50V
• C706	1-162-927-71	CERAMIC CHIP	100PF 5% 50V
C707	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V
C708	1-162-965-11	CERAMIC CHIP	1500PF 10% 50V
C709	1-164-174-11	CERAMIC CHIP	8200PF 10% 25V
C711	1-135-149-21	TANTLUM CHIP	2.2uF 20% 6.3V
C712	1-164-730-11	CERAMIC CHIP	1200PF 10% 50V
C713	1-164-730-11	CERAMIC CHIP	1200PF 10% 50V
C714	1-162-968-11	CERAMIC CHIP	4700PF 10% 50V
C715	1-165-176-11	CERAMIC CHIP	0.047uF 10% 16V
• C716	1-164-156-71	CERAMIC CHIP	0.1uF 25V
C719	1-165-176-11	CERAMIC CHIP	0.047uF 10% 16V
C720	1-162-962-11	CERAMIC CHIP	470PF 10% 50V
C722	1-164-730-11	CERAMIC CHIP	1200PF 10% 50V
C723	1-164-730-11	CERAMIC CHIP	1200PF 10% 50V
C724	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C725	1-162-962-11	CERAMIC CHIP	470PF 10% 50V
C726	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C728	1-162-926-11	CERAMIC CHIP	82PF 5% 50V
• C729	1-164-156-71	CERAMIC CHIP	0.1uF 25V
C731	1-128-004-11	ELECT CHIP	10uF 20% 16V
C734	1-128-004-11	ELECT CHIP	10uF 20% 16V
• C735	1-162-927-71	CERAMIC CHIP	100PF 5% 50V
C736	1-104-847-11	TANTLUM CHIP	22uF 20% 4V
C737	1-104-847-11	TANTLUM CHIP	22uF 20% 4V
C738	1-126-205-11	ELECT	47uF 20% 6.3V
• C739	1-162-964-11	CERAMIC CHIP	1000PF 10% 50V
C740	1-104-847-11	TANTLUM CHIP	22uF 20% 4V
C741	1-104-847-11	TANTLUM CHIP	22uF 20% 4V
C742	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
• C743	1-164-156-71	CERAMIC CHIP	0.1uF 25V
• C744	1-164-156-71	CERAMIC CHIP	0.1uF 25V
C745	1-128-004-11	ELECT CHIP	10uF 20% 16V
• C746	1-164-156-71	CERAMIC CHIP	0.1uF 25V
• C748	1-164-156-71	CERAMIC CHIP	0.1uF 25V
• C754	1-164-156-71	CERAMIC CHIP	0.1uF 25V
• C755	1-164-156-71	CERAMIC CHIP	0.1uF 25V
C756	1-124-778-00	ELECT	22uF 20% 6.3V
C761	1-165-176-11	CERAMIC CHIP	0.047uF 10% 16V
• C762	1-164-156-71	CERAMIC CHIP	0.1uF 25V
• C763	1-164-156-71	CERAMIC CHIP	0.1uF 25V
• C764	1-162-927-71	CERAMIC CHIP	100PF 5% 50V

Ref. No.	Part No.	Description	Remark
< CONNECTOR >			
CN102	1-770-305-11	CONNECTOR, FFC/FPC (LIF(NON-ZIF)) 10P	
• CN103	1-770-129-11	CONNECTOR, SQUARE 68P	
• CN104	1-779-028-11	CONNECTOR, SQUARE 8P	
• CN502	1-779-029-11	CONNECTOR, SQUARE 12P	
CN602	1-766-278-11	PIN, CONNECTOR (PC BOARD) 5P	
CN701	1-573-290-21	PIN, CONNECTOR (1.5mm) (SMD) 4P	
CN702	1-779-071-21	CONNECTOR, FFC/FPC (LIF(NON-ZIF)) 16P	
< DIODE >			
D101	8-719-036-80	DIODE RD3.9SB-T1	
D102	8-719-036-80	DIODE RD3.9SB-T1	
D103	8-719-036-80	DIODE RD3.9SB-T1	
D104	8-719-036-80	DIODE RD3.9SB-T1	
D105	8-719-036-80	DIODE RD3.9SB-T1	
D106	8-719-036-80	DIODE RD3.9SB-T1	
D107	8-719-036-80	DIODE RD3.9SB-T1	
D108	8-719-036-80	DIODE RD3.9SB-T1	
D109	8-719-036-80	DIODE RD3.9SB-T1	
D110	8-719-036-80	DIODE RD3.9SB-T1	
D111	8-719-036-80	DIODE RD3.9SB-T1	
D112	8-719-036-80	DIODE RD3.9SB-T1	
D114	8-719-036-80	DIODE RD3.9SB-T1	
D118	8-719-423-30	DIODE MA8120-TX	
D119	8-719-423-30	DIODE MA8120-TX	
D401	8-719-941-09	DIODE DAP202U	
D406	8-719-036-80	DIODE RD3.9SB-T1	
D407	8-719-036-80	DIODE RD3.9SB-T1	
D408	8-719-036-80	DIODE RD3.9SB-T1	
D409	8-719-036-80	DIODE RD3.9SB-T1	
D501	8-719-423-30	DIODE MA8120-TX	
D502	8-719-423-30	DIODE MA8120-TX	
D503	8-719-423-30	DIODE MA8120-TX	
D504	8-719-423-30	DIODE MA8120-TX	
D505	8-719-423-30	DIODE MA8120-TX	
D506	8-719-423-30	DIODE MA8120-TX	
D507	8-719-423-30	DIODE MA8120-TX	
D509	8-719-423-30	DIODE MA8120-TX	
D510	8-719-423-30	DIODE MA8120-TX	
D511	8-719-423-30	DIODE MA8120-TX	
< FERRITE BEAD >			
FB102	1-500-104-21	BEAD, FERRITE (SMD)	
FB104	1-500-104-21	BEAD, FERRITE (SMD)	
FB105	1-216-176-11	CHIP 120	5% 1/8W
FB401	1-500-113-11	BEAD, FERRITE (CHIP)	
FB402	1-500-113-11	BEAD, FERRITE (CHIP)	
FB501	1-414-235-11	BEAD, FERRITE (SMD)	
FB502	1-500-113-11	BEAD, FERRITE (CHIP)	
FB601	1-414-235-11	BEAD, FERRITE (SMD)	
FB701	1-216-295-91	CONDUCTOR, CHIP	
FB702	1-216-295-91	CONDUCTOR, CHIP	

Ref. No.	Part No.	Description	Remark
FB703	1-216-295-91	CONDUCTOR, CHIP	
FB704	1-216-295-91	CONDUCTOR, CHIP	
< BEAD, FERRITE >			
FL101	1-414-235-11	BEAD, FERRITE (SMD)	
FL102	1-414-235-11	BEAD, FERRITE (SMD)	
FL103	1-414-235-11	BEAD, FERRITE (SMD)	
FL104	1-414-235-11	BEAD, FERRITE (SMD)	
FL105	1-550-907-21	BEAD, FERRITE (CHIP)	
FL106	1-550-907-21	BEAD, FERRITE (CHIP)	
FL107	1-500-113-11	BEAD, FERRITE (CHIP)	
FL108	1-500-113-11	BEAD, FERRITE (CHIP)	
FL109	1-500-113-11	BEAD, FERRITE (CHIP)	
FL110	1-500-113-11	BEAD, FERRITE (CHIP)	
FL111	1-500-113-11	BEAD, FERRITE (CHIP)	
FL112	1-500-113-11	BEAD, FERRITE (CHIP)	
• FL113	1-216-029-00	CHIP 150	5% 1/10W
FL116	1-216-027-00	CHIP 120	5% 1/10W
• FL117	1-216-029-00	CHIP 150	5% 1/10W
• FL118	1-216-029-00	CHIP 150	5% 1/10W
• FL129	1-216-029-00	CHIP 150	5% 1/10W
FL130	1-216-027-00	CHIP 120	5% 1/10W
• FL141	1-216-029-00	CHIP 150	5% 1/10W
• FL142	1-216-029-00	CHIP 150	5% 1/10W
• FL143	1-216-029-00	CHIP 150	5% 1/10W
• FL144	1-216-029-00	CHIP 150	5% 1/10W
FL146	1-216-027-00	CHIP 120	5% 1/10W
• FL147	1-216-029-00	CHIP 150	5% 1/10W
• FL148	1-216-029-00	CHIP 150	5% 1/10W
• FL159	1-216-029-00	CHIP 150	5% 1/10W
• FL160	1-216-029-00	CHIP 150	5% 1/10W
FL170	1-216-027-00	CHIP 120	5% 1/10W
• FL171	1-216-029-00	CHIP 150	5% 1/10W
• FL172	1-216-029-00	CHIP 150	5% 1/10W
FL173	1-500-113-11	BEAD, FERRITE (CHIP)	
< IC >			
• IC102	8-759-458-06	IC MSMS34031C-31GS-KPR2	
• IC103	8-759-387-18	IC CXD8606Q	
• IC106	8-759-327-10	IC KM48V514BJ-6-TEL	
• IC107	8-759-327-10	IC KM48V514BJ-6-TEL	
• IC108	8-759-327-10	IC KM48V514BJ-6-TEL	
• IC109	8-759-327-10	IC KM48V514BJ-6-TEL	
IC201	8-759-369-81	IC KM4132G271Q-12	
• IC202	8-759-440-92	IC TDA8771AH/C1/R1, 518	#
• IC203	8-759-366-69	IC CXD8561Q	
• IC303	8-752-386-16	IC CXK5V82578TM-10LL-T6	
• IC304	8-759-458-08	IC MC68HC05G6-SC430925PBE3	
IC305	8-752-377-68	IC CXD1815Q	
• IC308	8-752-380-05	IC CXD2925Q	
IC310	8-759-177-00	IC HM514260ALJ82	
• IC402	8-759-445-70	IC AK4309A-VM-E2	

Ref. No.	Part No.	Description	Remark
IC501	8-752-068-43	IC CXA1645M	
IC601	8-759-284-63	IC TA78M05F (TE16L)	
IC701	8-752-369-78	IC CXD2545Q	
IC702	8-759-701-01	IC NJM2904M	
IC703	8-752-069-29	IC CXA1791N	
* IC704	8-759-455-91	IC BA6392FP-E2	
* IC706	8-759-452-25	IC uPC5023GR-118-GJG-E2	
* IC708	8-759-344-00	IC NJM2100E (TE2)	
< INDUCTOR >			
L101	1-412-052-21	INDUCTOR 1uH	
L102	1-412-052-21	INDUCTOR 1uH	
L104	1-412-052-21	INDUCTOR 1uH	
L105	1-412-052-21	INDUCTOR 1uH	
L106	1-412-052-21	INDUCTOR 1uH	
L110	1-412-052-21	INDUCTOR 1uH	
L111	1-412-052-21	INDUCTOR 1uH	
L303	1-412-951-11	INDUCTOR 10uH	
L304	1-412-951-11	INDUCTOR 10uH	
L401	1-412-951-11	INDUCTOR 10uH	
L507	1-412-957-11	INDUCTOR 33uH	
L601	1-412-052-21	INDUCTOR 1uH	
L604	1-410-733-11	INDUCTOR (CHIP) 0.22uH	
L605	1-410-378-11	INDUCTOR (CHIP) 5.6uH	
L606	1-412-052-21	INDUCTOR 1uH	
L607	1-412-052-21	INDUCTOR 1uH	
L701	1-412-951-11	INDUCTOR 10uH	
L711	1-412-951-11	INDUCTOR 10uH	
< IC LINK >			
△PS601	1-576-123-21	LINK IC	
△PS602	1-576-123-21	LINK IC	
△PS603	1-576-123-21	LINK IC	
△PS604	1-533-282-21	LINK IC	
△PS605	1-576-259-21	LINK IC	
< TRANSISTOR >			
Q101	8-729-900-53	TRANSISTOR DTC114EK	
Q102	8-729-900-53	TRANSISTOR DTC114EK	
Q103	8-729-900-53	TRANSISTOR DTC114EK	
Q104	8-729-900-53	TRANSISTOR DTC114EK	
Q401	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q402	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q403	8-729-921-72	TRANSISTOR 2SD1781K-R	
Q404	8-729-921-72	TRANSISTOR 2SD1781K-R	
Q501	8-729-026-48	TRANSISTOR 2SA1037AK-T146-Q	
Q502	8-729-026-48	TRANSISTOR 2SA1037AK-T146-Q	
Q503	8-729-026-48	TRANSISTOR 2SA1037AK-T146-Q	
Q505	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q506	8-729-141-48	TRANSISTOR 2SB624-BV345	
Q609	8-729-141-48	TRANSISTOR 2SB624-BV345	
Q610	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q611	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

Ref. No.	Part No.	Description	Remark
Q701	8-729-903-46	TRANSISTOR 2SB1132-P	
Q702	8-729-027-56	TRANSISTOR DTC143TKA-T146	
< RESISTOR >			
R103	1-216-813-11	CHIP 220 5% 1/16W	
* R104	1-216-801-71	CHIP 22 5% 1/16W	
R107	1-216-009-00	CHIP 22 5% 1/10W	
R108	1-216-809-11	CHIP 100 5% 1/16W	
R109	1-216-809-11	CHIP 100 5% 1/16W	
R110	1-216-809-11	CHIP 100 5% 1/16W	
* R111	1-216-801-71	CHIP 22 5% 1/16W	
* R112	1-216-801-71	CHIP 22 5% 1/16W	
* R113	1-216-801-71	CHIP 22 5% 1/16W	
* R114	1-216-801-71	CHIP 22 5% 1/16W	
* R115	1-216-801-71	CHIP 22 5% 1/16W	
* R122	1-216-801-71	CHIP 22 5% 1/16W	
* R123	1-216-801-71	CHIP 22 5% 1/16W	
* R124	1-216-801-71	CHIP 22 5% 1/16W	
* R125	1-216-801-71	CHIP 22 5% 1/16W	
* R126	1-216-801-71	CHIP 22 5% 1/16W	
* R127	1-216-801-71	CHIP 22 5% 1/16W	
* R128	1-216-801-71	CHIP 22 5% 1/16W	
* R129	1-216-801-71	CHIP 22 5% 1/16W	
* R130	1-216-833-71	CHIP 10K 5% 1/16W	
* R131	1-216-833-71	CHIP 10K 5% 1/16W	
* R132	1-216-821-71	CHIP 1K 5% 1/16W	
* R133	1-216-821-71	CHIP 1K 5% 1/16W	
* R134	1-216-821-71	CHIP 1K 5% 1/16W	
R135	1-216-817-11	CHIP 470 5% 1/16W	
R136	1-216-817-11	CHIP 470 5% 1/16W	
R137	1-216-805-11	CHIP 47 5% 1/16W	
R138	1-216-805-11	CHIP 47 5% 1/16W	
R139	1-216-817-11	CHIP 470 5% 1/16W	
R140	1-216-817-11	CHIP 470 5% 1/16W	
R141	1-216-817-11	CHIP 470 5% 1/16W	
R142	1-216-817-11	CHIP 470 5% 1/16W	
* R143	1-216-801-71	CHIP 22 5% 1/16W	
* R144	1-216-801-71	CHIP 22 5% 1/16W	
* R145	1-216-801-71	CHIP 22 5% 1/16W	
* R146	1-216-821-71	CHIP 1K 5% 1/16W	
* R147	1-216-801-71	CHIP 22 5% 1/16W	
* R148	1-216-821-71	CHIP 1K 5% 1/16W	
* R149	1-414-482-21	INDUCTOR (CHIP) 82nH	
R150	1-216-805-11	CHIP 47 5% 1/16W	
* R152	1-216-801-71	CHIP 22 5% 1/16W	
* R153	1-216-801-71	CHIP 22 5% 1/16W	
R154	1-216-815-11	CHIP 330 5% 1/16W	
* R155	1-216-833-71	CHIP 10K 5% 1/16W	
R201	1-216-831-11	CHIP 6.8K 5% 1/16W	
R202	1-550-907-21	BEAD. FERRITE (CHIP)	
R204	1-216-813-11	CHIP 220 5% 1/16W	
* R206	1-216-801-71	CHIP 22 5% 1/16W	
R207	1-216-829-11	CHIP 4.7K 5% 1/16W	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark	
• R208	1-216-801-71	CHIP	22	5% 1/16W
• R209	1-216-801-71	CHIP	22	5% 1/16W
• R210	1-216-801-71	CHIP	22	5% 1/16W
• R211	1-216-801-71	CHIP	22	5% 1/16W
• R212	1-216-801-71	CHIP	22	5% 1/16W
• R213	1-216-801-71	CHIP	22	5% 1/16W
• R214	1-216-801-71	CHIP	22	5% 1/16W
R215	1-216-829-11	CHIP	4.7K	5% 1/16W
R217	1-216-864-11	CONDUCTOR, CHIP		
• R301	1-216-833-71	CHIP	10K	5% 1/16W
• R302	1-216-833-71	CHIP	10K	5% 1/16W
• R303	1-216-821-71	CHIP	1K	5% 1/16W
• R304	1-216-821-71	CHIP	1K	5% 1/16W
• R305	1-216-821-71	CHIP	1K	5% 1/16W
R320	1-216-285-11	CHIP	75	5% 1/16W
• R323	1-216-821-71	CHIP	1K	5% 1/16W
• R324	1-216-821-71	CHIP	1K	5% 1/16W
• R325	1-216-821-71	CHIP	1K	5% 1/16W
• R328	1-216-833-71	CHIP	10K	5% 1/16W
• R330	1-216-833-71	CHIP	10K	5% 1/16W
R331	1-216-813-11	CHIP	220	5% 1/16W
R332	1-216-295-91	CONDUCTOR, CHIP		
• R335	1-216-801-71	CHIP	22	5% 1/16W
R338	1-216-830-11	CHIP	5.6K	5% 1/16W
• R339	1-216-821-71	CHIP	1K	5% 1/16W
• R340	1-216-801-71	CHIP	22	5% 1/16W
• R341	1-216-801-71	CHIP	22	5% 1/16W
• R342	1-216-801-71	CHIP	22	5% 1/16W
R343	1-216-829-11	CHIP	4.7K	5% 1/16W
R423	1-216-845-11	CHIP	100K	5% 1/16W
R424	1-216-845-11	CHIP	100K	5% 1/16W
• R425	1-216-821-71	CHIP	1K	5% 1/16W
• R426	1-216-821-71	CHIP	1K	5% 1/16W
• R427	1-216-821-71	CHIP	1K	5% 1/16W
• R428	1-216-821-71	CHIP	1K	5% 1/16W
R429	1-216-809-11	CHIP	100	5% 1/16W
R430	1-216-809-11	CHIP	100	5% 1/16W
R444	1-216-797-11	CHIP	10	5% 1/16W
R445	1-216-813-11	CHIP	220	5% 1/16W
R446	1-216-826-11	CHIP	2.7K	5% 1/16W
• R447	1-216-833-71	CHIP	10K	5% 1/16W
R501	1-216-825-11	CHIP	2.2K	5% 1/16W
R502	1-216-825-11	CHIP	2.2K	5% 1/16W
R503	1-216-039-00	CHIP	390	5% 1/10W #
R504	1-216-039-00	CHIP	390	5% 1/10W #
R505	1-216-039-00	CHIP	390	5% 1/10W #
• R510	1-216-821-71	CHIP	1K	5% 1/16W
• R511	1-216-821-71	CHIP	1K	5% 1/16W
• R512	1-216-821-71	CHIP	1K	5% 1/16W
R515	1-216-089-91	CHIP	47K	5% 1/10W
R516	1-218-292-11	CHIP	20K	5% 1/16W
R517	1-218-285-11	CHIP	75	5% 1/16W
R518	1-218-285-11	CHIP	75	5% 1/16W

Ref. No.	Part No.	Description	Remark	
R519	1-218-285-11	CHIP	75	5% 1/16W
R520	1-218-285-11	CHIP	75	5% 1/16W
R521	1-218-285-11	CHIP	75	5% 1/16W
R522	1-218-285-11	CHIP	75	5% 1/16W
R527	1-216-079-00	CHIP	18K	5% 1/10W
R528	1-216-049-91	CHIP	1K	5% 1/10W
R529	1-216-067-00	CHIP	5.6K	5% 1/10W
R530	1-216-304-11	CHIP	3.3	5% 1/10W
R541	1-216-045-00	CHIP	680	5% 1/10W #
R542	1-216-045-00	CHIP	680	5% 1/10W #
R543	1-216-045-00	CHIP	680	5% 1/10W #
R601	1-216-864-11	CONDUCTOR, CHIP		
R602	1-216-864-11	CONDUCTOR, CHIP		
• R606	1-216-821-71	CHIP	1K	5% 1/16W
R615	1-216-053-00	CHIP	1.5K	5% 1/10W
R616	1-216-062-00	CHIP	3.6K	5% 1/10W
R617	1-216-057-00	CHIP	2.2K	5% 1/10W
R618	1-216-051-00	CHIP	1.2K	5% 1/10W
R701	1-216-829-11	CHIP	4.7K	5% 1/16W
R702	1-216-835-11	CHIP	15K	5% 1/16W
R703	1-216-844-11	CHIP	82K	5% 1/16W
• R704	1-216-833-71	CHIP	10K	5% 1/16W
R705	1-216-845-11	CHIP	100K	5% 1/16W
R706	1-216-857-11	CHIP	1M	5% 1/16W
R707	1-218-696-11	METAL CHIP	1.5K	0.5% 1/16W
R708	1-216-841-11	CHIP	47K	5% 1/16W
R709	1-216-849-11	CHIP	220K	5% 1/16W
• R710	1-216-833-71	CHIP	10K	5% 1/16W
R711	1-216-852-11	CHIP	390K	5% 1/16W
R712	1-216-827-11	CHIP	3.3K	5% 1/16W
R713	1-218-703-11	METAL CHIP	3.0K	0.5% 1/16W
R714	1-216-827-11	CHIP	3.3K	5% 1/16W
R715	1-216-848-11	CHIP	180K	5% 1/16W
R716	1-218-729-11	METAL CHIP	36K	0.5% 1/16W
R717	1-216-809-11	CHIP	100	5% 1/16W
R718	1-216-849-11	CHIP	220K	5% 1/16W
R719	1-216-853-11	CHIP	470K	5% 1/16W
R720	1-216-853-11	CHIP	470K	5% 1/16W
R723	1-216-839-11	CHIP	33K	5% 1/16W
R725	1-216-841-11	CHIP	47K	5% 1/16W
R726	1-218-729-11	METAL CHIP	36K	0.5% 1/16W
R727	1-216-835-11	CHIP	15K	5% 1/16W
R728	1-218-703-11	METAL CHIP	3.0K	0.5% 1/16W
R731	1-218-696-11	METAL CHIP	1.5K	0.5% 1/16W
R732	1-216-835-11	CHIP	15K	5% 1/16W
R733	1-216-845-11	CHIP	100K	5% 1/16W
R734	1-216-823-11	CHIP	1.5K	5% 1/16W
R735	1-216-864-11	CONDUCTOR, CHIP		
R736	1-216-841-11	CHIP	47K	5% 1/16W
R737	1-216-837-11	CHIP	22K	5% 1/16W
R738	1-218-707-11	CHIP	4.3K	5% 1/16W
R739	1-216-822-11	CHIP	1.2K	5% 1/16W
• R740	1-216-821-71	CHIP	1K	5% 1/16W

Ref. No.	Part No.	Description	Remark		
•	A-6423-460-A	PU-18 BOARD, COMPLETE *****	(5500 : -31/-41)		
•	3-973-812-01	COVER, PUSH SWITCH			
		< CAPACITOR >			
• C100	1-162-964-11	CERAMIC CHIP 1000PF	10%	50V	
• C101	1-162-964-11	CERAMIC CHIP 1000PF	10%	50V	
• C102	1-162-964-11	CERAMIC CHIP 1000PF	10%	50V	
• C103	1-162-927-71	CERAMIC CHIP 100PF	5%	50V	
• C104	1-162-964-11	CERAMIC CHIP 1000PF	10%	50V	
• C105	1-162-964-11	CERAMIC CHIP 1000PF	10%	50V	
• C106	1-162-964-11	CERAMIC CHIP 1000PF	10%	50V	
• C108	1-162-964-11	CERAMIC CHIP 1000PF	10%	50V	
• C109	1-162-964-11	CERAMIC CHIP 1000PF	10%	50V	
• C110	1-162-964-11	CERAMIC CHIP 1000PF	10%	50V	
• C111	1-162-964-11	CERAMIC CHIP 1000PF	10%	50V	
• C112	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C113	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C114	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
C117	1-164-232-11	CERAMIC 0.01uF	10%	50V	
C124	1-115-156-11	CERAMIC 1uF		10V	
• C125	1-162-927-71	CERAMIC CHIP 100PF	5%	50V	
• C126	1-162-927-71	CERAMIC CHIP 100PF	5%	50V	
• C127	1-162-927-71	CERAMIC CHIP 100PF	5%	50V	
• C128	1-162-927-71	CERAMIC CHIP 100PF	5%	50V	
• C129	1-162-927-71	CERAMIC CHIP 100PF	5%	50V	
• C130	1-162-927-71	CERAMIC CHIP 100PF	5%	50V	
• C131	1-162-927-71	CERAMIC CHIP 100PF	5%	50V	
• C132	1-162-964-11	CERAMIC CHIP 1000PF	10%	50V	
• C133	1-162-964-11	CERAMIC CHIP 1000PF	10%	50V	
• C134	1-162-964-11	CERAMIC CHIP 1000PF	10%	50V	
• C135	1-162-964-11	CERAMIC CHIP 1000PF	10%	50V	
C136	1-164-232-11	CERAMIC 0.01uF	10%	50V	
C137	1-163-275-11	CERAMIC 1000PF	5%	50V	
C138	1-164-232-11	CERAMIC 0.01uF	10%	50V	
C139	1-164-232-11	CERAMIC 0.01uF	10%	50V	
C140	1-164-232-11	CERAMIC 0.01uF	10%	50V	
• C144	1-162-964-11	CERAMIC CHIP 1000PF	10%	50V	
• C145	1-162-964-11	CERAMIC CHIP 1000PF	10%	50V	
• C201	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C202	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C203	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C204	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C205	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C206	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C208	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C209	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C210	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C211	1-162-964-11	CERAMIC CHIP 1000PF	10%	50V	
• C212	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C213	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C214	1-164-156-11	CERAMIC CHIP 0.1uF		25V	

Ref. No.	Part No.	Description	Remark		
• C215	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C216	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C217	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C218	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C219	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C220	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C221	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C222	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C223	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C224	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C225	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C226	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C227	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C228	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C231	1-162-964-11	CERAMIC CHIP 1000PF	10%	50V	
• C232	1-162-964-11	CERAMIC CHIP 1000PF	10%	50V	
• C235	1-162-964-11	CERAMIC CHIP 1000PF	10%	50V	
C237	1-216-864-11	CONDUCTOR, CHIP			#
C238	1-164-232-11	CERAMIC 0.01uF	10%	50V	
C239	1-163-275-11	CERAMIC 1000PF	5%	50V	
C240	1-164-232-11	CERAMIC 0.01uF	10%	50V	
C241	1-164-232-11	CERAMIC 0.01uF	10%	50V	
C242	1-164-232-11	CERAMIC 0.01uF	10%	50V	
C243	1-164-232-11	CERAMIC 0.01uF	10%	50V	
• C244	1-162-927-71	CERAMIC CHIP 100PF	5%	50V	
• C245	1-162-927-71	CERAMIC CHIP 100PF	5%	50V	
• C301	1-162-964-11	CERAMIC CHIP 1000PF	10%	50V	
• C304	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C305	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C306	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C307	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C310	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C314	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C315	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
C316	1-164-232-11	CERAMIC 0.01uF	10%	50V	
C319	1-115-156-11	CERAMIC 1uF		10V	
• C323	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
C324	1-115-156-11	CERAMIC 1uF		10V	
C325	1-126-205-11	ELECT 47uF	20%	6.3V	
• C326	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
C327	1-115-156-11	CERAMIC 1uF		10V	
• C401	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C402	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C403	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
• C405	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
C406	1-128-004-11	ELECT CHIP 10uF	20%	16V	
C407	1-128-004-11	ELECT CHIP 10uF	20%	16V	
• C408	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
C423	1-128-004-11	ELECT CHIP 10uF	20%	16V	
C424	1-128-004-11	ELECT CHIP 10uF	20%	16V	
• C432	1-164-156-11	CERAMIC CHIP 0.1uF		25V	
C443	1-124-778-00	ELECT 22uF	20%	6.3V	
C444	1-164-232-11	CERAMIC 0.01uF	10%	50V	

Ref. No.	Part No.	Description	Remark
C445	1-164-232-11	CERAMIC	0.01uF 10% 50V
C501	1-162-910-11	CERAMIC CHIP	5PF 0.25PF 50V
C502	1-162-923-11	CERAMIC CHIP	47PF 5% 50V
• C504	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C505	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C506	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C507	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C508	1-126-205-11	ELECT	47uF 20% 6.3V
• C509	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C510	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C511	1-128-004-11	ELECT CHIP	10uF 20% 16V
• C512	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C513	1-126-206-11	ELECT	100uF 20% 6.3V
C518	1-126-246-11	ELECT	220uF 20% 4V
C519	1-128-004-11	ELECT CHIP	10uF 20% 16V
C522	1-126-246-11	ELECT	220uF 20% 4V
C523	1-164-460-11	CERAMIC CHIP	62PF 5% 50V
• C524	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C527	1-126-246-11	ELECT	220uF 20% 4V
C528	1-126-246-11	ELECT	220uF 20% 4V
• C529	1-162-927-71	CERAMIC CHIP	100PF 5% 50V
• C530	1-162-927-71	CERAMIC CHIP	100PF 5% 50V
C601	1-126-204-11	ELECT	47uF 20% 16V
C602	1-126-246-11	ELECT	220uF 20% 4V
C605	1-126-204-11	ELECT	47uF 20% 16V
C606	1-164-232-11	CERAMIC	0.01uF 10% 50V
• C607	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C608	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C609	1-164-232-11	CERAMIC	0.01uF 10% 50V
C611	1-128-004-11	ELECT CHIP	10uF 20% 16V
C615	1-104-851-11	TANTLUM CHIP	10uF 20% 10V
C616	1-124-778-00	ELECT	22uF 20% 6.3V
C617	1-104-908-11	TANTLUM CHIP	47uF 20% 4V
• C620	1-162-964-11	CERAMIC CHIP	1000PF 10% 50V
C621	1-115-156-11	CERAMIC	1uF 10V
• C622	1-162-964-11	CERAMIC CHIP	1000PF 10% 50V
C624	1-128-004-11	ELECT CHIP	10uF 20% 16V
C625	1-164-232-11	CERAMIC	0.01uF 10% 50V
C626	1-164-232-11	CERAMIC	0.01uF 10% 50V
• C701	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C702	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C703	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C704	1-162-967-11	CERAMIC CHIP	3300PF 10% 50V
C705	1-126-191-11	ELECT	0.47uF 20% 50V
• C706	1-162-927-71	CERAMIC CHIP	100PF 5% 50V
C707	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V
C708	1-162-965-11	CERAMIC CHIP	1500PF 10% 50V
C709	1-164-174-11	CERAMIC CHIP	8200PF 10% 25V
C711	1-135-149-21	TANTLUM CHIP	2.2uF 20% 6.3V
C712	1-164-730-11	CERAMIC CHIP	1200PF 10% 50V
C713	1-164-730-11	CERAMIC CHIP	1200PF 10% 50V
C714	1-162-968-11	CERAMIC CHIP	4700PF 10% 50V
C715	1-165-176-11	CERAMIC CHIP	0.047uF 10% 16V

Ref. No.	Part No.	Description	Remark
• C716	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C719	1-165-176-11	CERAMIC CHIP	0.047uF 10% 16V
C720	1-162-962-11	CERAMIC CHIP	470PF 10% 50V
C722	1-164-730-11	CERAMIC CHIP	1200PF 10% 50V
C723	1-164-730-11	CERAMIC CHIP	1200PF 10% 50V
C724	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C725	1-162-962-11	CERAMIC CHIP	470PF 10% 50V
C726	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C728	1-162-926-11	CERAMIC CHIP	82PF 5% 50V
• C729	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C731	1-128-004-11	ELECT CHIP	10uF 20% 16V
C734	1-128-004-11	ELECT CHIP	10uF 20% 16V
• C735	1-162-927-71	CERAMIC CHIP	100PF 5% 50V
C736	1-104-847-11	TANTLUM CHIP	22uF 20% 4V
C737	1-104-847-11	TANTLUM CHIP	22uF 20% 4V
C738	1-126-205-11	ELECT	47uF 20% 6.3V
• C739	1-162-964-11	CERAMIC CHIP	1000PF 10% 50V
C740	1-104-847-11	TANTLUM CHIP	22uF 20% 4V
C741	1-104-847-11	TANTLUM CHIP	22uF 20% 4V
C742	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
• C743	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C744	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C745	1-128-004-11	ELECT CHIP	10uF 20% 16V
• C746	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C748	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C754	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C755	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C756	1-124-778-00	ELECT	22uF 20% 6.3V
C761	1-165-176-11	CERAMIC CHIP	0.047uF 10% 16V
• C762	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C763	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C764	1-162-927-71	CERAMIC CHIP	100PF 5% 50V

< CONNECTOR >

CN102	1-770-305-11	CONNECTOR, FFC/FPC (LIF(NON-ZIF)) 10P
• CN103	1-770-129-11	CONNECTOR, SQUARE 68P
• CN104	1-779-028-11	CONNECTOR, SQUARE 8P
• CN502	1-779-029-11	CONNECTOR, SQUARE 12P
CN602	1-766-278-11	PIN, CONNECTOR (PC BOARD) 5P
CN701	1-573-290-21	PIN, CONNECTOR (1.5mm) (SMD) 4P
CN702	1-779-071-21	CONNECTOR, FFC/FPC (LIF(NON-ZIF)) 16P

< DIODE >

D101	8-719-036-80	DIODE	RD3. 9SB-T1
D102	8-719-036-80	DIODE	RD3. 9SB-T1
D103	8-719-036-80	DIODE	RD3. 9SB-T1
D104	8-719-036-80	DIODE	RD3. 9SB-T1
D105	8-719-036-80	DIODE	RD3. 9SB-T1
D106	8-719-036-80	DIODE	RD3. 9SB-T1
D107	8-719-036-80	DIODE	RD3. 9SB-T1
D108	8-719-036-80	DIODE	RD3. 9SB-T1
D109	8-719-036-80	DIODE	RD3. 9SB-T1
D110	8-719-036-80	DIODE	RD3. 9SB-T1

Ref. No.	Part No.	Description	Remark
D111	8-719-036-80	DIODE RD3. 9SB-T1	
D112	8-719-036-80	DIODE RD3. 9SB-T1	
D114	8-719-036-80	DIODE RD3. 9SB-T1	
D118	8-719-423-30	DIODE MA8120-TX	
D119	8-719-423-30	DIODE MA8120-TX	
D401	8-719-941-09	DIODE DAP202U	
D406	8-719-036-80	DIODE RD3. 9SB-T1	
D407	8-719-036-80	DIODE RD3. 9SB-T1	
D408	8-719-036-80	DIODE RD3. 9SB-T1	
D409	8-719-036-80	DIODE RD3. 9SB-T1	
D501	8-719-423-30	DIODE MA8120-TX	
D502	8-719-423-30	DIODE MA8120-TX	
D503	8-719-423-30	DIODE MA8120-TX	
D504	8-719-423-30	DIODE MA8120-TX	
D505	8-719-423-30	DIODE MA8120-TX	
D506	8-719-423-30	DIODE MA8120-TX	
D507	8-719-423-30	DIODE MA8120-TX	
D509	8-719-423-30	DIODE MA8120-TX	
D510	8-719-423-30	DIODE MA8120-TX	
D511	8-719-423-30	DIODE MA8120-TX	
< FERRITE BEAD >			
FB102	1-500-104-21	BEAD, FERRITE (SMD)	
FB104	1-500-104-21	BEAD, FERRITE (SMD)	
FB105	1-216-176-11	CHIP 120	5% 1/10W
FB401	1-500-113-11	BEAD, FERRITE (CHIP)	
FB402	1-500-113-11	BEAD, FERRITE (CHIP)	
FB501	1-414-235-11	BEAD, FERRITE (SMD)	
FB502	1-500-113-11	BEAD, FERRITE (CHIP)	
FB601	1-414-235-11	BEAD, FERRITE (SMD)	
FB701	1-500-449-21	BEAD, FERRITE (SMD)	
FB702	1-500-449-21	BEAD, FERRITE (SMD)	
FB703	1-500-449-21	BEAD, FERRITE (SMD)	
FB704	1-500-449-21	BEAD, FERRITE (SMD)	
< BEAD, FERRITE >			
FL101	1-414-235-11	BEAD, FERRITE (SMD)	
FL102	1-414-235-11	BEAD, FERRITE (SMD)	
FL103	1-414-235-11	BEAD, FERRITE (SMD)	
FL104	1-414-235-11	BEAD, FERRITE (SMD)	
FL105	1-550-907-21	BEAD, FERRITE (CHIP)	
FL106	1-550-907-21	BEAD, FERRITE (CHIP)	
FL107	1-500-113-11	BEAD, FERRITE (CHIP)	
FL108	1-500-113-11	BEAD, FERRITE (CHIP)	
FL109	1-500-113-11	BEAD, FERRITE (CHIP)	
FL110	1-500-113-11	BEAD, FERRITE (CHIP)	
FL111	1-500-113-11	BEAD, FERRITE (CHIP)	
FL112	1-500-113-11	BEAD, FERRITE (CHIP)	
• FL113	1-216-029-00	CHIP 150	5% 1/10W
FL116	1-216-027-00	CHIP 120	5% 1/10W
• FL117	1-216-029-00	CHIP 150	5% 1/10W
• FL118	1-216-029-00	CHIP 150	5% 1/10W
• FL129	1-216-029-00	CHIP 150	5% 1/10W

Ref. No.	Part No.	Description	Remark
FL130	1-216-027-00	CHIP 120	5% 1/10W
• FL141	1-216-029-00	CHIP 150	5% 1/10W
• FL142	1-216-029-00	CHIP 150	5% 1/10W
• FL143	1-216-029-00	CHIP 150	5% 1/10W
• FL144	1-216-029-00	CHIP 150	5% 1/10W
FL146	1-216-027-00	CHIP 120	5% 1/10W
• FL147	1-216-029-00	CHIP 150	5% 1/10W
• FL148	1-216-029-00	CHIP 150	5% 1/10W
• FL159	1-216-029-00	CHIP 150	5% 1/10W
• FL160	1-216-029-00	CHIP 150	5% 1/10W
FL170	1-216-027-00	CHIP 120	5% 1/10W
• FL171	1-216-029-00	CHIP 150	5% 1/10W
• FL172	1-216-029-00	CHIP 150	5% 1/10W
FL173	1-500-113-11	BEAD, FERRITE (CHIP)	
< IC >			
• IC102	8-759-458-06	IC MSM534031C-31GS-KPR2	
• IC103	8-759-387-16	IC CXD8606Q	
• IC106	8-759-377-18	IC TC51V18325BJ-60S(YE)	
IC201	8-759-369-81	IC KM4132G271Q-12	
• IC202	8-759-440-92	IC TDA8771AH/CL/R1. 518	#
• IC203	8-759-366-69	IC CXD8561Q	
• IC303	8-752-386-16	IC CXK5V82578TM-10LL-T6	
• IC304	8-759-458-08	IC MC68HC05G6-SC430925PBE3	
IC305	8-752-377-68	IC CXD1815Q	
• IC308	8-752-380-05	IC CXD2925Q	
IC310	8-759-177-00	IC HM514260ALJ8Z	
• IC402	8-759-445-70	IC AK4309A-VM-E2	
IC501	8-752-068-43	IC CXA1645M	
IC601	8-759-284-63	IC TA78M05F (TE16L)	
IC701	8-752-379-23	IC CXD2545Q	
IC702	8-759-701-01	IC NJM2904M	
IC703	8-752-069-29	IC CXA1791N	
• IC704	8-759-455-91	IC BA6392FP-E2	
• IC706	8-759-452-25	IC uPC5023GR-118-GJG-E2	
• IC708	8-759-344-00	IC NJM2100E (TE2)	
< INDUCTOR >			
L101	1-412-052-21	INDUCTOR 1uH	
L102	1-412-052-21	INDUCTOR 1uH	
L104	1-412-052-21	INDUCTOR 1uH	
L105	1-412-052-21	INDUCTOR 1uH	
L106	1-412-052-21	INDUCTOR 1uH	
L110	1-412-052-21	INDUCTOR 1uH	
L111	1-412-052-21	INDUCTOR 1uH	
L303	1-412-951-11	INDUCTOR 10uH	
L304	1-412-951-11	INDUCTOR 10uH	
L401	1-412-951-11	INDUCTOR 10uH	
L507	1-412-957-11	INDUCTOR 33uH	
L601	1-412-052-21	INDUCTOR 1uH	
L604	1-410-733-11	INDUCTOR (CHIP) 0.22uH	
L605	1-410-378-11	INDUCTOR (CHIP) 5.6uH	
L606	1-412-052-21	INDUCTOR 1uH	

Ref. No.	Part No.	Description	Remark
L607	1-412-052-21	INDUCTOR	1uH
L701	1-412-951-11	INDUCTOR	10uH
L711	1-412-951-11	INDUCTOR	10uH
< IC LINK >			
△PS601	1-576-123-21	LINK IC	
△PS602	1-576-123-21	LINK IC	
△PS603	1-576-123-21	LINK IC	
△PS604	1-533-282-21	LINK IC	
△PS605	1-576-259-11	LINK IC	
< TRANSISTOR >			
Q101	8-729-900-53	TRANSISTOR	DTC114EK
Q102	8-729-900-53	TRANSISTOR	DTC114EK
Q103	8-729-900-53	TRANSISTOR	DTC114EK
Q104	8-729-900-53	TRANSISTOR	DTC114EK
Q401	8-729-027-59	TRANSISTOR	DTC144EKA-T146
Q402	8-729-027-38	TRANSISTOR	DTA144EKA-T146
Q403	8-729-921-72	TRANSISTOR	2SD1781K-R
Q404	8-729-921-72	TRANSISTOR	2SD1781K-R
Q501	8-729-026-48	TRANSISTOR	2SA1037AK-T146-Q
Q502	8-729-026-48	TRANSISTOR	2SA1037AK-T146-Q
Q503	8-729-026-48	TRANSISTOR	2SA1037AK-T146-Q
Q505	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q506	8-729-141-48	TRANSISTOR	2SB624-BV345
Q609	8-729-141-48	TRANSISTOR	2SB624-BV345
Q610	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q611	8-729-120-28	TRANSISTOR	2SC1623-L5L6
Q701	8-729-903-46	TRANSISTOR	2SB1132-P
Q702	8-729-027-56	TRANSISTOR	DTC143TKA-T146
< RESISTOR >			
R103	1-216-813-11	CHIP	220 5% 1/16W
• R104	1-216-801-71	CHIP	22 5% 1/16W
R107	1-216-009-00	CHIP	22 5% 1/10W
R108	1-216-809-11	CHIP	100 5% 1/16W
R109	1-216-809-11	CHIP	100 5% 1/16W
R110	1-216-809-11	CHIP	100 5% 1/16W
• R111	1-216-801-71	CHIP	22 5% 1/16W
• R112	1-216-801-71	CHIP	22 5% 1/16W
• R113	1-216-801-71	CHIP	22 5% 1/16W
• R114	1-216-801-71	CHIP	22 5% 1/16W
• R115	1-216-801-71	CHIP	22 5% 1/16W
• R122	1-216-801-71	CHIP	22 5% 1/16W
• R123	1-216-801-71	CHIP	22 5% 1/16W
• R124	1-216-801-71	CHIP	22 5% 1/16W
• R125	1-216-801-71	CHIP	22 5% 1/16W
• R126	1-216-801-71	CHIP	22 5% 1/16W
• R127	1-216-801-71	CHIP	22 5% 1/16W
• R128	1-216-801-71	CHIP	22 5% 1/16W
• R129	1-216-801-71	CHIP	22 5% 1/16W
• R130	1-216-833-11	CHIP	10K 5% 1/16W
• R131	1-216-833-11	CHIP	10K 5% 1/16W

Ref. No.	Part No.	Description	Remark
• R132	1-216-821-71	CHIP	1K 5% 1/16W
• R133	1-216-821-71	CHIP	1K 5% 1/16W
• R134	1-216-821-71	CHIP	1K 5% 1/16W
R135	1-216-817-11	CHIP	470 5% 1/16W
R136	1-216-817-11	CHIP	470 5% 1/16W
R137	1-216-805-11	CHIP	47 5% 1/16W
R138	1-216-805-11	CHIP	47 5% 1/16W
R139	1-216-817-11	CHIP	470 5% 1/16W
R140	1-216-817-11	CHIP	470 5% 1/16W
R141	1-216-817-11	CHIP	470 5% 1/16W
R142	1-216-817-11	CHIP	470 5% 1/16W
• R143	1-216-801-71	CHIP	22 5% 1/16W
• R144	1-216-801-71	CHIP	22 5% 1/16W
• R145	1-216-801-71	CHIP	22 5% 1/16W
• R146	1-216-821-71	CHIP	1K 5% 1/16W
• R147	1-216-801-71	CHIP	22 5% 1/16W
• R148	1-216-821-71	CHIP	1K 5% 1/16W
• R149	1-414-482-21	INDUCTOR (CHIP)	82nH
R150	1-216-805-11	CHIP	47 5% 1/16W
• R152	1-216-801-71	CHIP	22 5% 1/16W
• R153	1-216-801-71	CHIP	22 5% 1/16W
R154	1-216-815-11	CHIP	330 5% 1/16W
• R155	1-216-833-11	CHIP	10K 5% 1/16W
R201	1-216-831-11	CHIP	6.8K 5% 1/16W #
R202	1-550-907-21	BEAD, FERRITE (CHIP)	
R204	1-216-813-11	CHIP	220 5% 1/16W
• R206	1-216-801-71	CHIP	22 5% 1/16W
R207	1-216-829-11	CHIP	4.7K 5% 1/16W
• R208	1-216-801-71	CHIP	22 5% 1/16W
• R209	1-216-801-71	CHIP	22 5% 1/16W
• R210	1-216-801-71	CHIP	22 5% 1/16W
• R211	1-216-801-71	CHIP	22 5% 1/16W
• R212	1-216-801-71	CHIP	22 5% 1/16W
• R213	1-216-801-71	CHIP	22 5% 1/16W
• R214	1-216-801-71	CHIP	22 5% 1/16W
R215	1-216-829-11	CHIP	4.7K 5% 1/16W
R217	1-216-864-11	CONDUCTOR, CHIP	
• R301	1-216-833-11	CHIP	10K 5% 1/16W
• R302	1-216-833-11	CHIP	10K 5% 1/16W
• R303	1-216-821-71	CHIP	1K 5% 1/16W
• R304	1-216-821-71	CHIP	1K 5% 1/16W
• R305	1-216-821-71	CHIP	1K 5% 1/16W
R320	1-218-285-11	CHIP	75 5% 1/16W
• R323	1-216-821-71	CHIP	1K 5% 1/16W
• R324	1-216-821-71	CHIP	1K 5% 1/16W
• R325	1-216-821-71	CHIP	1K 5% 1/16W
• R328	1-216-833-11	CHIP	10K 5% 1/16W
• R330	1-216-833-11	CHIP	10K 5% 1/16W
R331	1-216-813-11	CHIP	220 5% 1/16W
R332	1-216-295-91	CONDUCTOR, CHIP	
• R335	1-216-801-71	CHIP	22 5% 1/16W
R338	1-216-830-11	CHIP	5.6K 5% 1/16W
• R339	1-216-821-71	CHIP	1K 5% 1/16W

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark		
• R340	1-216-801-71	CHIP	22	5%	1/16W
• R341	1-216-801-71	CHIP	22	5%	1/16W
• R342	1-216-801-71	CHIP	22	5%	1/16W
R423	1-216-845-11	CHIP	100K	5%	1/16W
R424	1-216-845-11	CHIP	100K	5%	1/16W
• R425	1-216-821-71	CHIP	1K	5%	1/16W
• R426	1-216-821-71	CHIP	1K	5%	1/16W
• R427	1-216-821-71	CHIP	1K	5%	1/16W
• R428	1-216-821-71	CHIP	1K	5%	1/16W
R429	1-216-809-11	CHIP	100	5%	1/16W
R430	1-216-809-11	CHIP	100	5%	1/16W
R444	1-216-797-11	CHIP	10	5%	1/16W
R445	1-216-813-11	CHIP	220	5%	1/16W
R446	1-216-826-11	CHIP	2.7K	5%	1/16W
• R447	1-216-833-11	CHIP	10K	5%	1/16W
R501	1-216-825-11	CHIP	2.2K	5%	1/16W
R502	1-216-825-11	CHIP	2.2K	5%	1/16W
R503	1-216-039-00	CHIP	390	5%	1/10W #
R504	1-216-039-00	CHIP	390	5%	1/10W #
R505	1-216-039-00	CHIP	390	5%	1/10W #
• R510	1-216-821-71	CHIP	1K	5%	1/16W
• R511	1-216-821-71	CHIP	1K	5%	1/16W
• R512	1-216-821-71	CHIP	1K	5%	1/16W
R515	1-216-089-91	CHIP	47K	5%	1/10W
R516	1-218-292-11	CHIP	20K	5%	1/16W
R517	1-218-285-11	CHIP	75	5%	1/16W
R518	1-218-285-11	CHIP	75	5%	1/16W
R519	1-218-285-11	CHIP	75	5%	1/16W
R520	1-218-285-11	CHIP	75	5%	1/16W
R521	1-218-285-11	CHIP	75	5%	1/16W
R522	1-218-285-11	CHIP	75	5%	1/16W
R527	1-216-079-00	CHIP	18K	5%	1/10W
R528	1-216-049-91	CHIP	1K	5%	1/10W
R529	1-216-067-00	CHIP	5.6K	5%	1/10W
R530	1-216-304-11	CHIP	3.3	5%	1/10W
R541	1-216-045-00	CHIP	680	5%	1/10W #
R542	1-216-045-00	CHIP	680	5%	1/10W #
R543	1-216-045-00	CHIP	680	5%	1/10W #
R601	1-216-864-11	CONDUCTOR, CHIP			
R602	1-216-864-11	CONDUCTOR, CHIP			
• R606	1-216-821-71	CHIP	1K	5%	1/16W
R615	1-216-053-00	CHIP	1.5K	5%	1/10W
R616	1-216-062-00	CHIP	3.6K	5%	1/10W
R617	1-216-057-00	CHIP	2.2K	5%	1/10W
R618	1-216-051-00	CHIP	1.2K	5%	1/10W
R701	1-216-829-11	CHIP	4.7K	5%	1/16W
R702	1-216-835-11	CHIP	15K	5%	1/16W
R703	1-216-844-11	CHIP	82K	5%	1/16W
• R704	1-216-833-11	CHIP	10K	5%	1/16W
R705	1-216-845-11	CHIP	100K	5%	1/16W
R706	1-216-853-11	CHIP	470K	5%	1/16W
R707	1-218-696-11	METAL CHIP	1.5K	0.5%	1/16W
R708	1-216-841-11	CHIP	47K	5%	1/16W

Ref. No.	Part No.	Description	Remark		
R709	1-216-849-11	CHIP	220K	5%	1/16W
• R710	1-216-833-11	CHIP	10K	5%	1/16W
R711	1-216-852-11	CHIP	390K	5%	1/16W
R712	1-216-827-11	CHIP	3.3K	5%	1/16W
R713	1-218-703-11	METAL CHIP	3.0K	0.5%	1/16W
R714	1-216-827-11	CHIP	3.3K	5%	1/16W
R715	1-216-848-11	CHIP	180K	5%	1/16W
R716	1-218-729-11	METAL CHIP	36K	0.5%	1/16W
R717	1-216-809-11	CHIP	100	5%	1/16W
R718	1-216-849-11	CHIP	220K	5%	1/16W
R719	1-216-853-11	CHIP	470K	5%	1/16W
R720	1-216-853-11	CHIP	470K	5%	1/16W
R723	1-216-839-11	CHIP	33K	5%	1/16W
R725	1-216-841-11	CHIP	47K	5%	1/16W
R726	1-218-729-11	METAL CHIP	36K	0.5%	1/16W
R727	1-216-835-11	CHIP	15K	5%	1/16W
R728	1-218-703-11	METAL CHIP	3.0K	0.5%	1/16W
R731	1-218-696-11	METAL CHIP	1.5K	0.5%	1/16W
R732	1-216-835-11	CHIP	15K	5%	1/16W
R733	1-216-845-11	CHIP	100K	5%	1/16W
R734	1-216-823-11	CHIP	1.5K	5%	1/16W
R735	1-216-864-11	CONDUCTOR, CHIP			
R736	1-216-841-11	CHIP	47K	5%	1/16W
R737	1-216-837-11	CHIP	22K	5%	1/16W
R738	1-218-707-11	CHIP	4.3K	5%	1/16W
R739	1-216-822-11	CHIP	1.2K	5%	1/16W
• R740	1-216-821-71	CHIP	1K	5%	1/16W
R741	1-216-840-11	CHIP	39K	5%	1/16W
R745	1-218-883-11	CHIP	33K	0.5%	1/16W
R746	1-218-883-11	CHIP	33K	0.5%	1/16W
R747	1-216-009-00	CHIP	22	5%	1/10W
R748	1-218-903-11	CHIP	220K	0.5%	1/16W
R749	1-218-903-11	CHIP	220K	0.5%	1/16W
R750	1-216-009-00	CHIP	22	5%	1/10W
• R765	1-216-833-11	CHIP	10K	5%	1/16W
R769	1-218-286-11	CHIP	91	5%	1/16W
• R770	1-216-833-11	CHIP	10K	5%	1/16W
R771	1-216-840-11	CHIP	39K	5%	1/16W
• R772	1-216-833-11	CHIP	10K	5%	1/16W
R773	1-216-845-11	CHIP	100K	5%	1/16W
R774	1-216-829-11	CHIP	4.7K	5%	1/16W
R775	1-216-840-11	CHIP	39K	5%	1/16W
< NETWORK RESISTOR >					
• RB111	1-233-813-21	NETWORK 150			
• RB112	1-233-813-21	NETWORK 150			
• RB113	1-233-813-21	NETWORK 150			
• RB114	1-233-813-21	NETWORK 150			
• RB115	1-233-813-21	NETWORK 150			
• RB116	1-233-813-21	NETWORK 150			
• RB117	1-233-813-21	NETWORK 150			
• RB118	1-233-813-21	NETWORK 150			

Ref. No.	Part No.	Description	Remark
		< VARIABLE RESISTOR >	
RV703	1-223-588-11	RES. ADJ. CARBON 47K	
		< SWITCH >	
* S301	1-570-953-21	PUSH SWITCH (IKEY)	
		< VIBRATOR >	
X101	1-760-566-21	VIBRATOR, CRYSTAL (67.73MHz)	
X201	1-760-567-21	VIBRATOR, CRYSTAL (53.69MHz)	
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PU-18 (-52/-62)

Ref. No.	Part No.	Description	Remark
*	A-6423-447-A	PU-18 BOARD, COMPLETE	(5500 : -52/-62)
*	A-6423-470-A	PU-18 BOARD, COMPLETE	(5501 : -52/-62)
*	A-6423-471-A	PU-18 BOARD, COMPLETE	(5502 : -52/-62)
*	A-6423-506-A	PU-18 BOARD, COMPLETE	(5503 : -52/-62)

*	3-973-812-01	COVER, PUSH SWITCH	
	3-974-533-03	SHIELD A	
< CAPACITOR >			
* C100	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C101	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C102	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C103	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
* C104	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C105	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C106	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C108	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C109	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C110	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C111	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C112	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C113	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C114	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C115	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C116	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C117	1-163-021-11	CERAMIC 0.01uF	10% 50V
C124	1-115-156-11	CERAMIC 1uF	10V
* C125	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
* C126	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
* C127	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
* C128	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
* C129	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
* C130	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
* C131	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
* C132	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C133	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C134	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C135	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
C136	1-163-021-11	CERAMIC 0.01uF	10% 50V
C137	1-163-275-11	CERAMIC 1000PF	5% 50V
C138	1-163-021-11	CERAMIC 0.01uF	10% 50V
C139	1-163-021-11	CERAMIC 0.01uF	10% 50V
C140	1-163-021-11	CERAMIC 0.01uF	10% 50V
* C144	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C145	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
C155	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C157	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C158	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C159	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
* C201	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C202	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C203	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C204	1-164-156-11	CERAMIC CHIP 0.1uF	25V

Ref. No.	Part No.	Description	Remark
* C205	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C206	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C208	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C209	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C210	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C211	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C212	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C213	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C214	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C215	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C216	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C217	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C218	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C219	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C220	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C221	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C222	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C223	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C224	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C225	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C226	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C227	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C228	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C231	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C232	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C235	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C237	1-216-864-91	CONDUCTOR, CHIP (5500/5502)	25V
* C237	1-164-156-91	CERAMIC CHIP 0.1uF	(5501/5502) 25V
C238	1-163-021-11	CERAMIC 0.01uF	10% 50V
C239	1-163-275-11	CERAMIC 1000PF	5% 50V
C240	1-163-021-11	CERAMIC 0.01uF	10% 50V
C241	1-163-021-11	CERAMIC 0.01uF	10% 50V
C242	1-163-021-11	CERAMIC 0.01uF	10% 50V
C243	1-163-021-11	CERAMIC 0.01uF	10% 50V
* C244	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
* C245	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
* C301	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
C302	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
* C304	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C305	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C306	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C307	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C310	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C314	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C315	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C316	1-163-021-11	CERAMIC 0.01uF	10% 50V
* C323	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C324	1-115-156-11	CERAMIC 1uF	10V
C325	1-126-205-11	ELECT 47uF	20% 6.3V
* C326	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C327	1-115-156-11	CERAMIC 1uF	10V
C333	1-115-156-11	CERAMIC 1uF	10V

Ref. No.	Part No.	Description	Remark
• C401	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C402	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C403	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C404	1-162-964-11	CERAMIC CHIP	1000PF 10% 50V
• C405	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C406	1-128-004-11	ELECT CHIP	10uF 20% 16V
C407	1-128-004-11	ELECT CHIP	10uF 20% 16V
• C408	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C423	1-128-004-11	ELECT CHIP	10uF 20% 16V
C424	1-128-004-11	ELECT CHIP	10uF 20% 16V
• C432	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C443	1-124-778-00	ELECT	22uF 20% 6.3V
C444	1-163-021-11	CERAMIC	0.01uF 10% 50V
C445	1-163-021-11	CERAMIC	0.01uF 10% 50V
C501	1-162-910-11	CERAMIC CHIP	5PF 0.25PF 50V
C502	1-162-923-11	CERAMIC CHIP	47PF 5% 50V
• C504	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C505	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C506	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C507	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C508	1-126-205-11	ELECT	47uF 20% 6.3V
• C509	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C510	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C511	1-128-004-11	ELECT CHIP	10uF 20% 16V
• C512	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C513	1-126-206-11	ELECT	100uF 20% 6.3V
C518	1-126-210-21	ELECT	220uF 20% 4V
C519	1-128-004-11	ELECT CHIP	10uF 20% 16V
C522	1-126-210-21	ELECT	220uF 20% 4V
C523	1-164-381-91	CERAMIC CHIP	62PF 5% 50V
(5500/5501/5503)			
C523	1-162-922-91	CERAMIC CHIP	39PF 5% 50V
(5502)			
• C524	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C527	1-126-210-21	ELECT	220uF 20% 4V
C528	1-126-210-21	ELECT	220uF 20% 4V
• C529	1-162-927-71	CERAMIC CHIP	100PF 5% 50V
• C530	1-162-927-71	CERAMIC CHIP	100PF 5% 50V
C601	1-126-204-11	ELECT	47uF 20% 16V
C602	1-126-210-21	ELECT	220uF 20% 4V
C605	1-126-204-11	ELECT	47uF 20% 16V
C606	1-163-021-11	CERAMIC	0.01uF 10% 50V
• C607	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C608	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C609	1-163-021-11	CERAMIC	0.01uF 10% 50V
C611	1-128-004-11	ELECT CHIP	10uF 20% 16V
C615	1-104-851-11	TANTLUM CHIP	10uF 20% 10V
C616	1-124-778-00	ELECT	22uF 20% 6.3V
C617	1-104-908-11	TANTLUM CHIP	47uF 20% 4V
• C620	1-162-964-11	CERAMIC CHIP	1000PF 10% 50V
C621	1-115-156-11	CERAMIC	1uF 10V
• C622	1-162-964-11	CERAMIC CHIP	1000PF 10% 50V
C624	1-128-004-11	ELECT CHIP	10uF 20% 16V

Ref. No.	Part No.	Description	Remark
C625	1-163-021-11	CERAMIC	0.01uF 10% 50V
C626	1-163-021-11	CERAMIC	0.01uF 10% 50V
• C701	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C702	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C703	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C704	1-162-967-11	CERAMIC CHIP	3300PF 10% 50V
C705	1-126-191-11	ELECT	0.47uF 20% 50V
• C706	1-162-927-71	CERAMIC CHIP	100PF 5% 50V
C707	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V
C708	1-162-965-11	CERAMIC CHIP	1500PF 10% 50V
C709	1-164-174-11	CERAMIC CHIP	8200PF 10% 25V
C711	1-135-099-91	TANTLUM CHIP	2.2uF 20% 6.3V
C712	1-164-730-11	CERAMIC CHIP	1200PF 10% 50V
C713	1-164-730-11	CERAMIC CHIP	1200PF 10% 50V
C714	1-162-968-11	CERAMIC CHIP	4700PF 10% 50V
C715	1-165-176-11	CERAMIC CHIP	0.047uF 10% 16V
• C716	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C719	1-165-176-11	CERAMIC CHIP	0.047uF 10% 16V
C720	1-162-962-11	CERAMIC CHIP	470PF 10% 50V
C722	1-164-730-11	CERAMIC CHIP	1200PF 10% 50V
C723	1-164-730-11	CERAMIC CHIP	1200PF 10% 50V
C724	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C725	1-162-962-11	CERAMIC CHIP	470PF 10% 50V
C726	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C728	1-162-926-11	CERAMIC CHIP	82PF 5% 50V
• C729	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C731	1-128-004-11	ELECT CHIP	10uF 20% 16V
C734	1-128-004-11	ELECT CHIP	10uF 20% 16V
• C735	1-162-927-71	CERAMIC CHIP	100PF 5% 50V
C736	1-104-847-11	TANTLUM CHIP	22uF 20% 4V
C737	1-104-847-11	TANTLUM CHIP	22uF 20% 4V
C738	1-126-205-11	ELECT	47uF 20% 6.3V
• C739	1-162-964-11	CERAMIC CHIP	1000PF 10% 50V
C740	1-104-847-11	TANTLUM CHIP	22uF 20% 4V
C741	1-104-847-11	TANTLUM CHIP	22uF 20% 4V
C742	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
• C743	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C744	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C745	1-128-004-11	ELECT CHIP	10uF 20% 16V
• C746	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C748	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C754	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C755	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C756	1-124-778-00	ELECT	22uF 20% 6.3V
C761	1-165-176-11	CERAMIC CHIP	0.047uF 10% 16V
• C762	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C763	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C764	1-162-927-71	CERAMIC CHIP	100PF 5% 50V
< CONNECTOR >			
CN102	1-770-305-11	CONNECTOR, FFC/FPC (LIF (NON-ZIF))	10P (5500)
CN102	1-778-622-21	CONNECTOR, FFC/FPC (LIF (NON-ZIF))	10P
(5501/5502/5503)			

Ref. No.	Part No.	Description	Remark
• CN103	1-770-129-21	CONNECTOR, SQUARE 68P	
• CN104	1-779-028-11	CONNECTOR, SQUARE 8P	
• CN502	1-779-029-11	CONNECTOR, SQUARE 12P	
CN602	1-766-278-11	PIN, CONNECTOR (PC BOARD) 5P	
CN701	1-573-290-21	PIN, CONNECTOR (1.5mm) (SMD) 4P	
CN702	1-779-071-21	CONNECTOR, FFC/EPC (LIF(NON-ZIF)) 16P	
< DIODE >			
D101	8-719-036-80	DIODE RD3.9SB-T1	
D102	8-719-036-80	DIODE RD3.9SB-T1	
D103	8-719-036-80	DIODE RD3.9SB-T1	
D104	8-719-036-80	DIODE RD3.9SB-T1	
D105	8-719-036-80	DIODE RD3.9SB-T1	
D106	8-719-036-80	DIODE RD3.9SB-T1	
D107	8-719-036-80	DIODE RD3.9SB-T1	
D108	8-719-036-80	DIODE RD3.9SB-T1	
D109	8-719-036-80	DIODE RD3.9SB-T1	
D110	8-719-036-80	DIODE RD3.9SB-T1	
D111	8-719-036-80	DIODE RD3.9SB-T1	
D112	8-719-036-80	DIODE RD3.9SB-T1	
D114	8-719-036-80	DIODE RD3.9SB-T1	
D118	8-719-423-30	DIODE MA8120-TX	
D119	8-719-423-30	DIODE MA8120-TX	
D401	8-719-941-09	DIODE DAP202UT106	
D406	8-719-036-80	DIODE RD3.9SB-T1	
D407	8-719-036-80	DIODE RD3.9SB-T1	
D408	8-719-036-80	DIODE RD3.9SB-T1	
D409	8-719-036-80	DIODE RD3.9SB-T1	
D501	8-719-423-30	DIODE MA8120-TX	
D502	8-719-423-30	DIODE MA8120-TX	
D503	8-719-423-30	DIODE MA8120-TX	
D504	8-719-423-30	DIODE MA8120-TX	
D505	8-719-423-30	DIODE MA8120-TX	
D506	8-719-423-30	DIODE MA8120-TX	
D507	8-719-423-30	DIODE MA8120-TX	
D509	8-719-423-30	DIODE MA8120-TX	
D510	8-719-423-30	DIODE MA8120-TX	
D511	8-719-423-30	DIODE MA8120-TX	
D701	8-719-423-30	DIODE MA8120-TX	
D702	8-719-423-30	DIODE MA8120-TX	
D703	8-719-423-30	DIODE MA8120-TX	
D704	8-719-423-30	DIODE MA8120-TX	
< FERRITE BEAD >			
FB102	1-500-104-21	BEAD, FERRITE (SMD)	
FB104	1-500-104-21	BEAD, FERRITE (SMD)	
FB105	1-216-176-11	CHIP 120	5% 1/8W
FB401	1-414-555-21	INDUCTOR (CHIP)	
FB402	1-414-555-21	INDUCTOR (CHIP)	
FB501	1-414-235-11	BEAD, FERRITE (SMD)	
FB502	1-500-113-21	BEAD, FERRITE (CHIP)	
FB601	1-414-235-11	BEAD, FERRITE (SMD)	
FB701	1-500-449-21	BEAD, FERRITE (SMD)	

Ref. No.	Part No.	Description	Remark
FB702	1-500-449-21	BEAD, FERRITE (SMD)	
FB703	1-500-449-21	BEAD, FERRITE (SMD)	
FB704	1-500-449-21	BEAD, FERRITE (SMD)	
< BEAD, FERRITE >			
FL101	1-414-235-11	BEAD, FERRITE (SMD)	
FL102	1-414-235-11	BEAD, FERRITE (SMD)	
FL103	1-414-235-11	BEAD, FERRITE (SMD)	
FL104	1-414-235-11	BEAD, FERRITE (SMD)	
FL105	1-550-056-21	BEAD, FERRITE (CHIP)	
FL106	1-550-056-21	BEAD, FERRITE (CHIP)	
FL107	1-500-113-11	BEAD, FERRITE (CHIP)	
FL108	1-500-113-11	BEAD, FERRITE (CHIP)	
FL109	1-500-113-11	BEAD, FERRITE (CHIP)	
FL110	1-500-113-11	BEAD, FERRITE (CHIP)	
FL111	1-500-113-11	BEAD, FERRITE (CHIP)	
FL112	1-500-113-11	BEAD, FERRITE (CHIP)	
• FL113	1-216-029-00	CHIP 150	5% 1/10W
FL116	1-216-027-00	CHIP 120	5% 1/10W
• FL117	1-216-029-00	CHIP 150	5% 1/10W
• FL118	1-216-029-00	CHIP 150	5% 1/10W
• FL129	1-216-029-00	CHIP 150	5% 1/10W
FL130	1-216-027-00	CHIP 120	5% 1/10W
• FL141	1-216-029-00	CHIP 150	5% 1/10W
• FL142	1-216-029-00	CHIP 150	5% 1/10W
• FL143	1-216-029-00	CHIP 150	5% 1/10W
• FL144	1-216-029-00	CHIP 150	5% 1/10W
FL146	1-216-027-00	CHIP 120	5% 1/10W
• FL147	1-216-029-00	CHIP 150	5% 1/10W
• FL148	1-216-029-00	CHIP 150	5% 1/10W
• FL159	1-216-029-00	CHIP 150	5% 1/10W
• FL160	1-216-029-00	CHIP 150	5% 1/10W
FL170	1-216-027-00	CHIP 120	5% 1/10W
• FL171	1-216-029-00	CHIP 150	5% 1/10W
• FL172	1-216-029-00	CHIP 150	5% 1/10W
FL173	1-500-113-11	BEAD, FERRITE (CHIP)	
< IC >			
• IC102	8-759-487-22	IC MSMS34031E-01GS-KPR2	(5500)
• IC102	8-759-487-23	IC MSMS34031E-04GS-KPR2	(5502)
• IC102	8-759-469-68	IC KM23V4000CG-15-KF5315W-TER	(5501/5503)
• IC103	8-759-387-16	IC CXD8606Q	
• IC106	8-759-291-76	IC KM48V514BJ-6-TEL	
• IC107	8-759-291-76	IC KM48V514BJ-6-TEL	
• IC108	8-759-291-76	IC KM48V514BJ-6-TEL	
• IC109	8-759-291-76	IC KM48V514BJ-6-TEL	
IC201	8-759-369-81	IC KM4132G271Q-12	
• IC202	8-759-440-92	IC TDA8771AH/C1/R1, 518	(5500/5502)
• IC202	8-759-478-55	IC MC141685FTB	(5501/5503)
• IC203	8-759-366-69	IC CXD8561Q	
• IC303	8-752-386-16	IC CXKSV8257BTM-10LL-T6	

Ref. No.	Part No.	Description	Remark
• IC304	8-759-458-08 IC	MC68HC05G6PB-SC430925PBEB	(5500/5503)
• IC304	8-759-469-65 IC	MC68HC05G6-SC430929PBEB1	(5502)
• IC304	8-759-469-70 IC	MC68HC05G6-SC430930PBEB1	(5501)
IC305	8-752-377-68 IC	CXD1815Q	
• IC308	8-752-380-05 IC	CXD2925Q	
IC310	8-759-342-01 IC	MB814260-70PJER	
• IC402	8-759-445-70 IC	AK4309A-VM-E2	
IC501	8-752-068-44 IC	CXA1645M-T6	
IC601	8-759-284-63 IC	TA78M05F (TE16L)	
IC701	8-752-369-78 IC	CXD2545Q	
IC702	8-759-330-83 IC	NJM2904M (TE2)	
IC703	8-752-070-80 IC	CXA1791N-T4	
• IC704	8-759-455-91 IC	BA6392FP-E2	
• IC706	8-759-452-25 IC	uPC5023GR-118-GJG-E2	
• IC708	8-759-344-00 IC	NJM2100E (TE2)	

< INDUCTOR >

L101	1-412-052-21	INDUCTOR	1uH
L102	1-412-052-21	INDUCTOR	1uH
L104	1-412-052-21	INDUCTOR	1uH
L105	1-412-052-21	INDUCTOR	1uH
L106	1-412-052-21	INDUCTOR	1uH
L110	1-412-052-21	INDUCTOR	1uH
L111	1-412-052-21	INDUCTOR	1uH
L303	1-412-951-11	INDUCTOR	10uH
L304	1-412-951-11	INDUCTOR	10uH
L401	1-412-951-11	INDUCTOR	10uH
L507	1-412-957-11	INDUCTOR	33uH
L601	1-412-052-21	INDUCTOR	1uH
L604	1-410-733-11	INDUCTOR (CHIP)	0.22uH
L605	1-410-378-11	INDUCTOR (CHIP)	5.6uH
L606	1-412-052-21	INDUCTOR	1uH
L607	1-412-052-21	INDUCTOR	1uH
L701	1-412-951-11	INDUCTOR	10uH
L711	1-412-951-11	INDUCTOR	10uH

< IC LINK >

△PS601	1-533-808-21	LINK IC (5500)	
△PS601	1-576-123-21	LINK IC (5501/5502/5503)	
△PS602	1-533-808-21	LINK IC (5500)	
△PS602	1-576-123-21	LINK IC (5501/5502/5503)	
△PS603	1-533-808-21	LINK IC (5500)	
△PS603	1-576-123-21	LINK IC (5501/5502/5503)	
△PS604	1-533-397-21	LINK IC (5500)	
△PS604	1-533-282-21	LINK IC (5501/5502/5503)	
△PS605	1-533-915-21	LINK IC (5500)	
△PS605	1-576-259-21	LINK IC (5501/5502/5503)	

< TRANSISTOR >

Q101	8-729-027-43	TRANSISTOR	DTC114EK-T146
Q102	8-729-027-43	TRANSISTOR	DTC114EK-T146
Q103	8-729-027-43	TRANSISTOR	DTC114EK-T146
Q104	8-729-027-43	TRANSISTOR	DTC114EK-T146

Ref. No.	Part No.	Description	Remark
Q401	8-729-027-59	TRANSISTOR	DTC144EK-T146
Q402	8-729-027-38	TRANSISTOR	DTA144EK-T146
Q403	8-729-921-78	TRANSISTOR	2SD1781K-T146-R
Q404	8-729-921-78	TRANSISTOR	2SD1781K-T146-R
Q501	8-729-026-48	TRANSISTOR	2SA1037AK-T146-Q
Q502	8-729-026-48	TRANSISTOR	2SA1037AK-T146-Q
Q503	8-729-026-48	TRANSISTOR	2SA1037AK-T146-Q
Q505	8-729-901-80	TRANSISTOR	2SC2412K-T-96-Q
Q506	8-729-141-50	TRANSISTOR	2SB624T1-BV345
Q609	8-729-141-50	TRANSISTOR	2SB624T1-BV345
Q610	8-729-901-80	TRANSISTOR	2SC2412K-T-96-Q
Q611	8-729-901-80	TRANSISTOR	2SC2412K-T-96-Q
Q701	8-729-920-79	TRANSISTOR	2SB1132-T100-QR
Q702	8-729-027-56	TRANSISTOR	DTC143TKA-T146

< RESISTOR >

R103	1-216-813-11	CHIP	220	5%	1/16W
• R104	1-216-801-71	CHIP	22	5%	1/16W
R107	1-216-009-00	CHIP	22	5%	1/10W
R108	1-216-809-11	CHIP	100	5%	1/16W
R109	1-216-809-11	CHIP	100	5%	1/16W
R110	1-216-809-11	CHIP	100	5%	1/16W
• R111	1-216-801-71	CHIP	22	5%	1/16W
• R112	1-216-801-71	CHIP	22	5%	1/16W
• R113	1-216-801-71	CHIP	22	5%	1/16W
• R114	1-216-801-71	CHIP	22	5%	1/16W
• R115	1-216-801-71	CHIP	22	5%	1/16W
• R122	1-216-801-71	CHIP	22	5%	1/16W
• R123	1-216-801-71	CHIP	22	5%	1/16W
• R124	1-216-801-71	CHIP	22	5%	1/16W
• R125	1-216-801-71	CHIP	22	5%	1/16W
• R126	1-216-801-71	CHIP	22	5%	1/16W
• R127	1-216-801-71	CHIP	22	5%	1/16W
• R128	1-216-801-71	CHIP	22	5%	1/16W
• R129	1-216-801-71	CHIP	22	5%	1/16W
• R130	1-216-833-11	CHIP	10K	5%	1/16W
• R131	1-216-833-11	CHIP	10K	5%	1/16W
• R132	1-216-821-71	CHIP	1K	5%	1/16W
• R133	1-216-821-71	CHIP	1K	5%	1/16W
• R134	1-216-821-71	CHIP	1K	5%	1/16W
R135	1-216-817-11	CHIP	470	5%	1/16W
R136	1-216-817-11	CHIP	470	5%	1/16W
R137	1-216-805-11	CHIP	47	5%	1/16W
R138	1-216-805-11	CHIP	47	5%	1/16W
R139	1-216-817-11	CHIP	470	5%	1/16W
R140	1-216-817-11	CHIP	470	5%	1/16W
R141	1-216-817-11	CHIP	470	5%	1/16W
R142	1-216-817-11	CHIP	470	5%	1/16W
• R143	1-216-801-71	CHIP	22	5%	1/16W
• R144	1-216-801-71	CHIP	22	5%	1/16W
• R145	1-216-801-71	CHIP	22	5%	1/16W
• R146	1-216-821-71	CHIP	1K	5%	1/16W
• R147	1-216-801-71	CHIP	22	5%	1/16W

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

PU-18 (-52/-62)

Ref. No.	Part No.	Description	Remark
• R148	1-216-821-71	CHIP 1K	5% 1/16W
• R149	1-414-482-21	INDUCTOR (CHIP) 82uH	
R150	1-216-805-11	CHIP 47	5% 1/16W
• R152	1-216-801-71	CHIP 22	5% 1/16W
• R153	1-216-801-71	CHIP 22	5% 1/16W
R154	1-216-815-11	CHIP 330	5% 1/16W
• R155	1-216-833-11	CHIP 10K	5% 1/16W
R201	1-216-831-91	CHIP 6.8K	(5500/5502)
R201	1-216-819-91	CHIP 680	5% 1/16W (5501/5503)
R202	1-550-907-21	BEAD, FERRITE (CHIP)	
R204	1-216-813-11	CHIP 220	5% 1/16W
• R206	1-216-801-71	CHIP 22	5% 1/16W
R207	1-216-829-11	CHIP 4.7K	5% 1/16W
• R208	1-216-801-71	CHIP 22	5% 1/16W
• R209	1-216-801-71	CHIP 22	5% 1/16W
• R210	1-216-801-71	CHIP 22	5% 1/16W
• R211	1-216-801-71	CHIP 22	5% 1/16W
• R212	1-216-801-71	CHIP 22	5% 1/16W
• R213	1-216-801-71	CHIP 22	5% 1/16W
• R214	1-216-801-71	CHIP 22	5% 1/16W
R215	1-216-829-11	CHIP 4.7K	5% 1/16W
R217	1-216-864-11	CONDUCTOR, CHIP	
• R301	1-216-833-11	CHIP 10K	5% 1/16W
• R302	1-216-833-11	CHIP 10K	5% 1/16W
• R303	1-216-821-71	CHIP 1K	5% 1/16W
• R304	1-216-821-71	CHIP 1K	5% 1/16W
• R305	1-216-821-71	CHIP 1K	5% 1/16W
R320	1-218-285-11	CHIP 75	5% 1/16W
• R323	1-216-821-71	CHIP 1K	5% 1/16W
• R324	1-216-821-71	CHIP 1K	5% 1/16W
• R325	1-216-821-71	CHIP 1K	5% 1/16W
• R328	1-216-833-11	CHIP 10K	5% 1/16W
• R330	1-216-833-11	CHIP 10K	5% 1/16W
R331	1-216-813-11	CHIP 220	5% 1/16W
R332	1-550-907-21	BEAD, FERRITE (CHIP)	
• R335	1-216-801-71	CHIP 22	5% 1/16W
R338	1-216-830-11	CHIP 5.6K	5% 1/16W
• R339	1-216-821-71	CHIP 1K	5% 1/16W
• R340	1-216-801-71	CHIP 22	5% 1/16W
• R341	1-216-801-71	CHIP 22	5% 1/16W
• R342	1-216-801-71	CHIP 22	5% 1/16W
R423	1-216-845-11	CHIP 100K	5% 1/16W
R424	1-216-845-11	CHIP 100K	5% 1/16W
• R425	1-216-821-71	CHIP 1K	5% 1/16W
• R426	1-216-821-71	CHIP 1K	5% 1/16W
• R427	1-216-821-71	CHIP 1K	5% 1/16W
• R428	1-216-821-71	CHIP 1K	5% 1/16W
R429	1-216-809-11	CHIP 100	5% 1/16W
R430	1-216-809-11	CHIP 100	5% 1/16W
R443	1-216-295-91	CONDUCTOR, CHIP	(5503)
R444	1-216-797-11	CHIP 10	5% 1/16W

Ref. No.	Part No.	Description	Remark
R445	1-216-813-11	CHIP 220	5% 1/16W
R446	1-216-826-11	CHIP 2.7K	5% 1/16W
• R447	1-216-833-11	CHIP 10K	5% 1/16W
R501	1-216-825-11	CHIP 2.2K	5% 1/16W
R502	1-216-825-11	CHIP 2.2K	5% 1/16W
• R503	1-216-039-91	CHIP 390	(5500/5502)
• R503	1-216-029-91	CHIP 150	5% 1/10W (5501/5503)
• R504	1-216-039-91	CHIP 390	(5500/5502)
• R504	1-216-029-91	CHIP 150	5% 1/10W (5501/5503)
• R505	1-216-039-91	CHIP 390	(5500/5502)
• R505	1-216-029-91	CHIP 150	5% 1/10W (5501/5503)
• R510	1-216-821-71	CHIP 1K	5% 1/16W
• R511	1-216-821-71	CHIP 1K	5% 1/16W
• R512	1-216-821-71	CHIP 1K	5% 1/16W
R515	1-216-089-91	CHIP 47K	5% 1/10W
R516	1-218-292-91	CHIP 20K	5% 1/16W (5500/5501/5503)
R516	1-218-876-91	CHIP 16K	0.5% 1/16W (5502)
R517	1-218-285-11	CHIP 75	5% 1/16W
R518	1-218-285-11	CHIP 75	5% 1/16W
R519	1-218-285-11	CHIP 75	5% 1/16W
R520	1-218-285-11	CHIP 75	5% 1/16W
R521	1-218-285-11	CHIP 75	5% 1/16W
R522	1-218-285-11	CHIP 75	5% 1/16W
R527	1-216-079-00	CHIP 18K	5% 1/10W
R528	1-216-049-91	CHIP 1K	5% 1/10W
R529	1-216-067-00	CHIP 5.6K	5% 1/10W
R530	1-216-304-11	CHIP 3.3	5% 1/10W
R541	1-216-045-91	CHIP 680	5% 1/10W (5500/5502)
R541	1-216-295-91	CONDUCTOR, CHIP	(5501/5503)
R542	1-216-045-91	CHIP 680	5% 1/10W (5500/5502)
R542	1-216-295-91	CONDUCTOR, CHIP	(5501/5503)
R543	1-216-045-91	CHIP 680	5% 1/10W (5500/5502)
R543	1-216-295-91	CONDUCTOR, CHIP	(5501/5503)
R602	1-216-864-11	CONDUCTOR, CHIP	
• R606	1-216-821-71	CHIP 1K	5% 1/16W
R615	1-216-053-00	CHIP 1.5K	5% 1/10W
R616	1-216-062-00	CHIP 3.6K	5% 1/10W
R617	1-216-057-00	CHIP 2.2K	5% 1/10W
R618	1-216-051-00	CHIP 1.2K	5% 1/10W
R701	1-216-829-11	CHIP 4.7K	5% 1/16W
R702	1-216-835-11	CHIP 15K	5% 1/16W
R703	1-216-844-11	CHIP 82K	5% 1/16W
• R704	1-216-833-11	CHIP 10K	5% 1/16W
R705	1-216-845-11	CHIP 100K	5% 1/16W

Ref. No.	Part No.	Description	Remark
R706	1-216-853-11	CHIP	470K 5% 1/16W
R707	1-216-696-11	METAL CHIP	1.5K 0.5% 1/16W
R708	1-216-841-11	CHIP	47K 5% 1/16W
R709	1-216-849-11	CHIP	220K 5% 1/16W
• R710	1-216-833-11	CHIP	10K 5% 1/16W
R711	1-216-852-11	CHIP	390K 5% 1/16W
R712	1-216-827-11	CHIP	3.3K 5% 1/16W
R713	1-216-703-11	METAL CHIP	3.0K 0.5% 1/16W
R714	1-216-827-11	CHIP	3.3K 5% 1/16W
R715	1-216-848-11	CHIP	180K 5% 1/16W
R716	1-216-729-11	METAL CHIP	36K 0.5% 1/16W
R717	1-216-809-11	CHIP	100 5% 1/16W
R718	1-216-849-11	CHIP	220K 5% 1/16W
R719	1-216-853-11	CHIP	470K 5% 1/16W
R720	1-216-853-11	CHIP	470K 5% 1/16W
R723	1-216-839-11	CHIP	33K 5% 1/16W
R725	1-216-841-11	CHIP	47K 5% 1/16W
R726	1-216-729-11	METAL CHIP	36K 0.5% 1/16W
R727	1-216-835-11	CHIP	15K 5% 1/16W
R728	1-216-703-11	METAL CHIP	3.0K 0.5% 1/16W
R731	1-216-696-11	METAL CHIP	1.5K 0.5% 1/16W
R732	1-216-835-11	CHIP	15K 5% 1/16W
R733	1-216-845-11	CHIP	100K 5% 1/16W
R734	1-216-823-11	CHIP	1.5K 5% 1/16W
R735	1-216-864-11	CONDUCTOR, CHIP	
R736	1-216-841-11	CHIP	47K 5% 1/16W
R737	1-216-837-11	CHIP	22K 5% 1/16W
R738	1-216-707-11	CHIP	4.3K 0.5% 1/16W
R739	1-216-822-11	CHIP	1.2K 5% 1/16W
• R740	1-216-821-71	CHIP	1K 5% 1/16W
R741	1-216-840-11	CHIP	39K 5% 1/16W
R745	1-216-883-11	CHIP	33K 0.5% 1/16W
R746	1-216-883-11	CHIP	33K 0.5% 1/16W
R747	1-216-009-00	CHIP	22 5% 1/10W
R748	1-216-903-11	CHIP	220K 0.5% 1/16W
R749	1-216-903-11	CHIP	220K 0.5% 1/16W
R750	1-216-009-00	CHIP	22 5% 1/10W
• R765	1-216-833-11	CHIP	10K 5% 1/16W
R769	1-216-286-11	CHIP	91 5% 1/16W
• R770	1-216-833-11	CHIP	10K 5% 1/16W
R771	1-216-840-11	CHIP	39K 5% 1/16W
• R772	1-216-833-11	CHIP	10K 5% 1/16W
R773	1-216-845-11	CHIP	100K 5% 1/16W
R774	1-216-829-11	CHIP	4.7K 5% 1/16W
R775	1-216-840-11	CHIP	39K 5% 1/16W
R777	1-216-864-11	CONDUCTOR, CHIP	
R778	1-216-864-11	CONDUCTOR, CHIP	
R780	1-216-864-11	CONDUCTOR, CHIP	
R901	1-216-864-91	CONDUCTOR, CHIP	(5500)
R902	1-216-864-91	CONDUCTOR, CHIP	(5501)
R903	1-216-864-91	CONDUCTOR, CHIP	(5502)
R907	1-216-864-91	CONDUCTOR, CHIP	(5503)

Ref. No.	Part No.	Description	Remark
		< NETWORK RESISTOR >	
• RB111	1-233-813-21	NETWORK 150	
• RB112	1-233-813-21	NETWORK 150	
• RB113	1-233-813-21	NETWORK 150	
• RB114	1-233-813-21	NETWORK 150	
• RB115	1-233-813-21	NETWORK 150	
• RB116	1-233-813-21	NETWORK 150	
• RB117	1-233-813-21	NETWORK 150	
• RB118	1-233-813-21	NETWORK 150	
		< VARIABLE RESISTOR >	
RV703	1-223-588-11	RES. ADJ. CARBON 47K	
		< SWITCH >	
• S301	1-570-953-21	PUSH SWITCH (1KEY)	
		< VIBRATOR >	
X101	1-760-566-22	VIBRATOR, CRYSTAL (67.73MHz)	
X201	1-760-567-21	VIBRATOR, CRYSTAL (53.69MHz)	(5500/5501/5503)
X201	1-760-568-21	VIBRATOR, CRYSTAL (53.20MHz)	(5502)
•	•	•	•

PU-18 (-72/-82)

Ref. No.	Part No.	Description	Remark
*	A-6423-460-A	PU-18 BOARD, COMPLETE	(5500 : -72/-82)
*	A-6423-490-A	PU-18 BOARD, COMPLETE	(5502 : -72/-82)
*	A-6423-491-A	PU-18 BOARD, COMPLETE	(5501 : -72/-82)
*	A-6423-507-A	PU-18 BOARD, COMPLETE	(5503 : -72/-82)

*	3-973-812-01	COVER, PUSH SWITCH	
		< CAPACITOR >	
* C100	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C101	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C102	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C103	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
* C104	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C105	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C106	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C108	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C109	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C110	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C111	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C112	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C113	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C114	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C115	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
* C116	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
C117	1-164-232-11	CERAMIC 0.01uF	10% 50V
* C118	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
C119	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
* C120	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
C121	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C122	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C123	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C124	1-115-156-11	CERAMIC 1uF	10V
* C125	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
* C126	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
* C127	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
* C128	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
* C129	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
* C130	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
* C131	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
* C132	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C133	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C134	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C135	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
C136	1-164-232-11	CERAMIC 0.01uF	10% 50V
C137	1-163-275-11	CERAMIC 1000PF	5% 50V
C138	1-164-232-11	CERAMIC 0.01uF	10% 50V
C139	1-164-232-11	CERAMIC 0.01uF	10% 50V
C140	1-164-232-11	CERAMIC 0.01uF	10% 50V
* C144	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C145	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
C155	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C157	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C158	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V

Ref. No.	Part No.	Description	Remark
C159	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
C162	1-162-970-11	CERAMIC CHIP 0.01uF	10% 25V
* C201	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C202	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C203	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C204	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C205	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C206	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C208	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C209	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C210	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C211	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C212	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C213	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C214	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C215	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C216	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C217	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C218	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C219	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C220	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C221	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C222	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C223	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C224	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C225	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C226	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C227	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C228	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C231	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C232	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C235	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
* C237	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C238	1-164-232-11	CERAMIC 0.01uF	10% 50V
C239	1-163-275-11	CERAMIC 1000PF	5% 50V
C240	1-164-232-11	CERAMIC 0.01uF	10% 50V
C241	1-164-232-11	CERAMIC 0.01uF	10% 50V
C242	1-164-232-11	CERAMIC 0.01uF	10% 50V
C243	1-164-232-11	CERAMIC 0.01uF	10% 50V
* C244	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
* C245	1-162-927-71	CERAMIC CHIP 100PF	5% 50V
* C301	1-162-964-11	CERAMIC CHIP 1000PF	10% 50V
C302	1-162-970-11	CERAMIC CHIP 0.1uF	10% 25V
* C304	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C305	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C306	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C307	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C310	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C314	1-164-156-11	CERAMIC CHIP 0.1uF	25V
* C315	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C316	1-164-232-11	CERAMIC 0.01uF	10% 50V
* C323	1-164-156-11	CERAMIC CHIP 0.1uF	25V
C324	1-115-156-11	CERAMIC 1uF	10V

Ref. No.	Part No.	Description	Remark
C325	1-126-205-11	ELECT	47uF 20% 6.3V
• C326	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C327	1-115-156-11	CERAMIC	1uF 10V
C333	1-115-156-11	CERAMIC	1uF 10V
• C401	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C402	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C403	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C404	1-162-964-11	CERAMIC CHIP	1000PF 10% 50V
• C405	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C406	1-128-004-11	ELECT CHIP	10uF 20% 16V
C407	1-128-004-11	ELECT CHIP	10uF 20% 16V
• C408	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C423	1-128-004-11	ELECT CHIP	10uF 20% 16V
C424	1-128-004-11	ELECT CHIP	10uF 20% 16V
• C432	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C443	1-124-778-00	ELECT	22uF 20% 6.3V
C444	1-164-232-11	CERAMIC	0.01uF 10% 50V
C445	1-164-232-11	CERAMIC	0.01uF 10% 50V
C501	1-162-910-11	CERAMIC CHIP	5PF 0.25PF 50V
C502	1-162-923-11	CERAMIC CHIP	47PF 5% 50V
• C504	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C505	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C506	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C507	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C508	1-126-205-11	ELECT	47uF 20% 6.3V
• C509	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C510	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C511	1-128-004-11	ELECT CHIP	10uF 20% 16V
• C512	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C513	1-126-206-11	ELECT	100uF 20% 6.3V
C518	1-126-246-11	ELECT	220uF 20% 4V
C519	1-128-004-11	ELECT CHIP	10uF 20% 16V
C522	1-126-246-11	ELECT	220uF 20% 4V
C523	1-164-460-11	CERAMIC CHIP	62PF 5% 50V
C523	1-162-922-91	CERAMIC CHIP	39PF 5% 50V (5500/5501/5503) (5502)
• C524	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C527	1-126-246-11	ELECT	220uF 20% 4V
C528	1-126-246-11	ELECT	220uF 20% 4V
• C529	1-162-927-71	CERAMIC CHIP	100PF 5% 50V
• C530	1-162-927-71	CERAMIC CHIP	100PF 5% 50V
C601	1-126-204-11	ELECT	47uF 20% 16V
C602	1-126-246-11	ELECT	220uF 20% 4V
C605	1-126-204-11	ELECT	47uF 20% 16V
C606	1-164-232-11	CERAMIC	0.01uF 10% 50V
• C607	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C608	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C609	1-164-232-11	CERAMIC	0.01uF 10% 50V
C611	1-128-004-11	ELECT CHIP	10uF 20% 16V
C615	1-104-851-11	TANTLUM CHIP	10uF 20% 10V
C616	1-124-778-00	ELECT	22uF 20% 6.3V
C617	1-104-908-11	TANTLUM CHIP	47uF 20% 4V

Ref. No.	Part No.	Description	Remark
• C620	1-162-964-11	CERAMIC CHIP	1000PF 10% 50V
C621	1-115-156-11	CERAMIC	1uF 10V
• C622	1-162-964-11	CERAMIC CHIP	1000PF 10% 50V
C624	1-128-004-11	ELECT CHIP	10uF 20% 16V
C625	1-164-232-11	CERAMIC	0.01uF 10% 50V
C626	1-164-232-11	CERAMIC	0.01uF 10% 50V
• C701	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C702	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C703	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
C704	1-162-967-11	CERAMIC CHIP	3300PF 10% 50V
C705	1-126-191-11	ELECT	0.47uF 20% 50V
• C706	1-162-927-71	CERAMIC CHIP	100PF 5% 50V
C707	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V
C708	1-162-965-11	CERAMIC CHIP	1500PF 10% 50V
C709	1-164-174-11	CERAMIC CHIP	8200PF 10% 25V
C711	1-135-149-21	TANTLUM CHIP	2.2uF 20% 6.3V
C712	1-164-730-11	CERAMIC CHIP	1200PF 10% 50V
C713	1-164-730-11	CERAMIC CHIP	1200PF 10% 50V
C714	1-162-968-11	CERAMIC CHIP	4700PF 10% 50V
C715	1-165-176-11	CERAMIC CHIP	0.047uF 10% 16V
• C716	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C719	1-165-176-11	CERAMIC CHIP	0.047uF 10% 16V
C720	1-162-962-11	CERAMIC CHIP	470PF 10% 50V
C722	1-164-730-11	CERAMIC CHIP	1200PF 10% 50V
C723	1-164-730-11	CERAMIC CHIP	1200PF 10% 50V
C724	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C725	1-162-962-11	CERAMIC CHIP	470PF 10% 50V
C726	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C728	1-162-926-11	CERAMIC CHIP	82PF 5% 50V
• C729	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C731	1-128-004-11	ELECT CHIP	10uF 20% 16V
C734	1-128-004-11	ELECT CHIP	10uF 20% 16V
• C735	1-162-927-71	CERAMIC CHIP	100PF 5% 50V
C736	1-104-847-11	TANTLUM CHIP	22uF 20% 4V
C737	1-104-847-11	TANTLUM CHIP	22uF 20% 4V
C738	1-126-205-11	ELECT	47uF 20% 6.3V
• C739	1-162-964-11	CERAMIC CHIP	1000PF 10% 50V
C740	1-104-847-11	TANTLUM CHIP	22uF 20% 4V
C741	1-104-847-11	TANTLUM CHIP	22uF 20% 4V
C742	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
• C743	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C744	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C745	1-128-004-11	ELECT CHIP	10uF 20% 16V
• C746	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C748	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C754	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C755	1-164-156-11	CERAMIC CHIP	0.1uF 25V
C756	1-124-778-00	ELECT	22uF 20% 6.3V
C761	1-165-176-11	CERAMIC CHIP	0.047uF 10% 16V
• C762	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C763	1-164-156-11	CERAMIC CHIP	0.1uF 25V
• C764	1-162-927-71	CERAMIC CHIP	100PF 5% 50V

Ref. No.	Part No.	Description	Remark
< CONNECTOR >			
CN102	1-770-305-11	CONNECTOR, FFC/FPC (LIF(NON-ZIF)) 10P	
• CN103	1-770-129-11	CONNECTOR, SQUARE 68P	
• CN104	1-779-028-11	CONNECTOR, SQUARE 8P	
• CN502	1-779-029-11	CONNECTOR, SQUARE 12P	
CN602	1-766-278-11	PIN, CONNECTOR (PC BOARD) 5P	
CN701	1-573-290-21	PIN, CONNECTOR (1.5mm) (SMD) 4P	
CN702	1-779-071-21	CONNECTOR, FFC/FPC (LIF(NON-ZIF)) 16P	
< DIODE >			
D101	8-719-036-80	DIODE RD3.9SB-T1	
D102	8-719-036-80	DIODE RD3.9SB-T1	
D103	8-719-036-80	DIODE RD3.9SB-T1	
D104	8-719-036-80	DIODE RD3.9SB-T1	
D105	8-719-036-80	DIODE RD3.9SB-T1	
D106	8-719-036-80	DIODE RD3.9SB-T1	
D107	8-719-036-80	DIODE RD3.9SB-T1	
D108	8-719-036-80	DIODE RD3.9SB-T1	
D109	8-719-036-80	DIODE RD3.9SB-T1	
D110	8-719-036-80	DIODE RD3.9SB-T1	
D111	8-719-036-80	DIODE RD3.9SB-T1	
D112	8-719-036-80	DIODE RD3.9SB-T1	
D114	8-719-036-80	DIODE RD3.9SB-T1	
D118	8-719-423-30	DIODE MA8120-TX	
D119	8-719-423-30	DIODE MA8120-TX	
D120	8-719-036-80	DIODE RD3.9SB-T1	
D121	8-719-423-30	DIODE MA8120-TX	
D401	8-719-941-09	DIODE DAP202U	
D406	8-719-036-80	DIODE RD3.9SB-T1	
D407	8-719-036-80	DIODE RD3.9SB-T1	
D408	8-719-036-80	DIODE RD3.9SB-T1	
D409	8-719-036-80	DIODE RD3.9SB-T1	
D501	8-719-423-30	DIODE MA8120-TX	
D502	8-719-423-30	DIODE MA8120-TX	
D503	8-719-423-30	DIODE MA8120-TX	
D504	8-719-423-30	DIODE MA8120-TX	
D505	8-719-423-30	DIODE MA8120-TX	
D506	8-719-423-30	DIODE MA8120-TX	
D507	8-719-423-30	DIODE MA8120-TX	
D509	8-719-423-30	DIODE MA8120-TX	
D510	8-719-423-30	DIODE MA8120-TX	
D511	8-719-423-30	DIODE MA8120-TX	
D701	8-719-423-30	DIODE MA8120-TX	
D702	8-719-423-30	DIODE MA8120-TX	
D703	8-719-423-30	DIODE MA8120-TX	
D704	8-719-423-30	DIODE MA8120-TX	
< FERRITE BEAD >			
FB102	1-500-104-21	BEAD, FERRITE (SMD)	
FB104	1-500-104-21	BEAD, FERRITE (SMD)	
FB105	1-216-176-11	CHIP 120	5% 1/8W
FB401	1-414-555-21	INDUCTOR (CHIP)	

Ref. No.	Part No.	Description	Remark
FB402	1-414-555-21	INDUCTOR (CHIP)	
FB501	1-414-235-11	BEAD, FERRITE (SMD)	
FB502	1-500-113-11	BEAD, FERRITE (CHIP)	
FB601	1-414-235-11	BEAD, FERRITE (SMD)	
FB701	1-500-449-21	BEAD, FERRITE (SMD)	
FB702	1-500-449-21	BEAD, FERRITE (SMD)	
FB703	1-500-449-21	BEAD, FERRITE (SMD)	
FB704	1-500-449-21	BEAD, FERRITE (SMD)	
< BEAD, FERRITE >			
FL101	1-414-235-11	BEAD, FERRITE (SMD)	
FL102	1-414-235-11	BEAD, FERRITE (SMD)	
FL103	1-414-235-11	BEAD, FERRITE (SMD)	
FL104	1-414-235-11	BEAD, FERRITE (SMD)	
FL105	1-550-907-21	BEAD, FERRITE (CHIP)	
FL106	1-550-907-21	BEAD, FERRITE (CHIP)	
FL107	1-500-113-11	BEAD, FERRITE (CHIP)	
FL108	1-500-113-11	BEAD, FERRITE (CHIP)	
FL109	1-500-113-11	BEAD, FERRITE (CHIP)	
FL110	1-500-113-11	BEAD, FERRITE (CHIP)	
FL111	1-500-113-11	BEAD, FERRITE (CHIP)	
FL112	1-500-113-11	BEAD, FERRITE (CHIP)	
• FL113	1-216-029-00	CHIP 150	5% 1/10W
• FL116	1-216-027-00	CHIP 120	5% 1/10W
• FL117	1-216-029-00	CHIP 150	5% 1/10W
• FL118	1-216-029-00	CHIP 150	5% 1/10W
• FL129	1-216-029-00	CHIP 150	5% 1/10W
FL130	1-216-027-00	CHIP 120	5% 1/10W
• FL141	1-216-029-00	CHIP 150	5% 1/10W
• FL142	1-216-029-00	CHIP 150	5% 1/10W
• FL143	1-216-029-00	CHIP 150	5% 1/10W
• FL144	1-216-029-00	CHIP 150	5% 1/10W
FL146	1-216-027-00	CHIP 120	5% 1/10W
• FL147	1-216-029-00	CHIP 150	5% 1/10W
• FL148	1-216-029-00	CHIP 150	5% 1/10W
• FL159	1-216-029-00	CHIP 150	5% 1/10W
• FL160	1-216-029-00	CHIP 150	5% 1/10W
FL170	1-216-027-00	CHIP 120	5% 1/10W
• FL171	1-216-029-00	CHIP 150	5% 1/10W
• FL172	1-216-029-00	CHIP 150	5% 1/10W
FL173	1-500-113-11	BEAD, FERRITE (CHIP)	
< IC >			
• IC102	8-759-487-22	IC MSM534031E-01GSKPR2	(5500)
• IC102	8-759-469-67	IC M23L4101M-3030	(5502)
• IC102	8-759-469-68	IC KM23V4000CG-2030	(5501/5503)
• IC103	8-759-387-16	IC CXD8606Q	
• IC106	8-759-377-18	IC TC51V18325BJ-60S(YE)	
IC201	8-759-369-81	IC KM4132G271Q-12	
• IC202	8-759-440-92	IC TDA8771AH/C1/R1, 518	(5500/5502)
• IC202	8-759-478-55	IC MC141685FTEB	(5501/5503)
• IC203	8-759-366-69	IC CXD8561Q	
• IC303	8-752-386-16	IC CXK5V8257BTM-10LL-T6	

Ref. No.	Part No.	Description	Remark
* IC304	8-759-469-65	IC MC68HC05G6-C3030PBPE	(5502)
* IC304	8-759-469-70	IC MC68HC05G6-C2030PBEB	(5501)
* IC304	8-759-458-08	IC MC68HC05G6PB-SC430925PBEB	(5500/5503)
IC305	8-752-377-68	IC CXD1815Q	
IC308	8-752-380-05	IC CXD2925Q	
IC310	8-759-177-00	IC HNS14260ALJ8Z	
* IC402	8-759-445-70	IC AK4309A-VM-E2	
IC501	8-752-068-43	IC CXA1645M	
IC601	8-759-284-63	IC TA78M05F (TE16L)	
IC701	8-752-379-23	IC CXD2545Q	
IC702	8-759-701-01	IC NJM2904M	
IC703	8-752-069-29	IC CXA1791N	
* IC704	8-759-455-91	IC BA6392FP-E2	
* IC706	8-759-452-25	IC uPC5023GR-118-GJG-E2	
* IC708	8-759-344-00	IC NJM2100E (TE2)	
< INDUCTOR >			
L101	1-412-052-21	INDUCTOR 1uH	
L102	1-412-052-21	INDUCTOR 1uH	
L104	1-412-052-21	INDUCTOR 1uH	
L105	1-412-052-21	INDUCTOR 1uH	
L106	1-412-052-21	INDUCTOR 1uH	
L110	1-412-052-21	INDUCTOR 1uH	
L111	1-412-052-21	INDUCTOR 1uH	
L303	1-412-951-11	INDUCTOR 10uH	
L304	1-412-951-11	INDUCTOR 10uH	
L401	1-412-951-11	INDUCTOR 10uH	
L507	1-412-957-11	INDUCTOR 33uH	
L601	1-412-052-21	INDUCTOR 1uH	
L604	1-410-733-11	INDUCTOR (CHIP) 0.22uH	
L605	1-410-378-11	INDUCTOR (CHIP) 5.6uH	
L606	1-412-052-21	INDUCTOR 1uH	
L607	1-412-052-21	INDUCTOR 1uH	
L701	1-412-951-11	INDUCTOR 10uH	
L711	1-412-951-11	INDUCTOR 10uH	
< IC LINK >			
△PS601	1-576-123-21	LINK IC	
△PS602	1-576-123-21	LINK IC	
△PS603	1-576-123-21	LINK IC	
△PS604	1-533-282-21	LINK IC	
△PS605	1-576-259-11	LINK IC	
< TRANSISTOR >			
Q101	8-729-900-53	TRANSISTOR DTC114EK	
Q102	8-729-900-53	TRANSISTOR DTC114EK	
Q103	8-729-900-53	TRANSISTOR DTC114EK	
Q104	8-729-900-53	TRANSISTOR DTC114EK	
Q401	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q402	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q403	8-729-921-72	TRANSISTOR 2SD1781K-R	
Q404	8-729-921-72	TRANSISTOR 2SD1781K-R	
Q501	8-729-026-48	TRANSISTOR 2SA1037AK-T146-Q	
Q502	8-729-026-48	TRANSISTOR 2SA1037AK-T146-Q	

Ref. No.	Part No.	Description	Remark
Q503	8-729-026-48	TRANSISTOR 2SA1037AK-T146-Q	
Q505	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q506	8-729-141-48	TRANSISTOR 2SB624-BV345	
Q609	8-729-141-48	TRANSISTOR 2SB624-BV345	
Q610	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q611	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q701	8-729-903-46	TRANSISTOR 2SB1132-P	
Q702	8-729-027-56	TRANSISTOR DTC143TKA-T146	
< RESISTOR >			
R103	1-216-813-11	CHIP 220 5% 1/16W	
* R104	1-216-801-71	CHIP 22 5% 1/16W	
R107	1-216-009-00	CHIP 22 5% 1/10W	
R108	1-216-809-11	CHIP 100 5% 1/16W	
R109	1-216-809-11	CHIP 100 5% 1/16W	
R110	1-216-809-11	CHIP 100 5% 1/16W	
* R111	1-216-801-71	CHIP 22 5% 1/16W	
* R112	1-216-801-71	CHIP 22 5% 1/16W	
* R113	1-216-801-71	CHIP 22 5% 1/16W	
* R114	1-216-801-71	CHIP 22 5% 1/16W	
* R115	1-216-801-71	CHIP 22 5% 1/16W	
R116	1-216-864-11	CONDUCTOR CHIP	
* R122	1-216-801-71	CHIP 22 5% 1/16W	
* R123	1-216-801-71	CHIP 22 5% 1/16W	
* R124	1-216-801-71	CHIP 22 5% 1/16W	
* R125	1-216-801-71	CHIP 22 5% 1/16W	
* R126	1-216-801-71	CHIP 22 5% 1/16W	
* R127	1-216-801-71	CHIP 22 5% 1/16W	
* R128	1-216-801-71	CHIP 22 5% 1/16W	
* R129	1-216-801-71	CHIP 22 5% 1/16W	
* R130	1-216-833-11	CHIP 10K 5% 1/16W	
* R131	1-216-833-11	CHIP 10K 5% 1/16W	
* R132	1-216-821-71	CHIP 1K 5% 1/16W	
* R133	1-216-821-71	CHIP 1K 5% 1/16W	
* R134	1-216-821-71	CHIP 1K 5% 1/16W	
R135	1-216-817-11	CHIP 470 5% 1/16W	
R136	1-216-817-11	CHIP 470 5% 1/16W	
R137	1-216-805-11	CHIP 47 5% 1/16W	
R138	1-216-805-11	CHIP 47 5% 1/16W	
R139	1-216-817-11	CHIP 470 5% 1/16W	
R140	1-216-817-11	CHIP 470 5% 1/16W	
R141	1-216-817-11	CHIP 470 5% 1/16W	
R142	1-216-817-11	CHIP 470 5% 1/16W	
* R143	1-216-801-71	CHIP 22 5% 1/16W	
* R144	1-216-801-71	CHIP 22 5% 1/16W	
* R145	1-216-801-71	CHIP 22 5% 1/16W	
* R146	1-216-821-71	CHIP 1K 5% 1/16W	
* R147	1-216-801-71	CHIP 22 5% 1/16W	
* R148	1-216-821-71	CHIP 1K 5% 1/16W	
* R149	1-414-482-21	INDUCTOR (CHIP) 82nH	
R150	1-216-805-11	CHIP 47 5% 1/16W	
* R152	1-216-801-71	CHIP 22 5% 1/16W	
* R153	1-216-801-71	CHIP 22 5% 1/16W	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

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PU-18 (-72/-82)

Ref. No.	Part No.	Description		Remark
R154	1-216-815-11	CHIP	330	5% 1/16W
• R155	1-216-833-11	CHIP	10K	5% 1/16W
R168	1-216-295-91	CONDUCTOR, CHIP		
R169	1-216-295-91	CONDUCTOR, CHIP		
R201	1-216-819-91	CHIP	680	5% 1/16W #
R202	1-550-907-21	BEAD, FERRITE (CHIP)		
R204	1-216-813-11	CHIP	220	5% 1/16W
• R206	1-216-801-71	CHIP	22	5% 1/16W
R207	1-216-829-11	CHIP	4.7K	5% 1/16W
• R208	1-216-801-71	CHIP	22	5% 1/16W
• R209	1-216-801-71	CHIP	22	5% 1/16W
• R210	1-216-801-71	CHIP	22	5% 1/16W
• R211	1-216-801-71	CHIP	22	5% 1/16W
• R212	1-216-801-71	CHIP	22	5% 1/16W
• R213	1-216-801-71	CHIP	22	5% 1/16W
• R214	1-216-801-71	CHIP	22	5% 1/16W
R215	1-216-829-11	CHIP	4.7K	5% 1/16W
R217	1-216-864-11	CONDUCTOR, CHIP		
• R301	1-216-833-11	CHIP	10K	5% 1/16W
• R302	1-216-833-11	CHIP	10K	5% 1/16W
• R303	1-216-821-71	CHIP	1K	5% 1/16W
• R304	1-216-821-71	CHIP	1K	5% 1/16W
• R305	1-216-821-71	CHIP	1K	5% 1/16W
R320	1-218-285-11	CHIP	75	5% 1/16W
• R323	1-216-821-71	CHIP	1K	5% 1/16W
• R324	1-216-821-71	CHIP	1K	5% 1/16W
• R325	1-216-821-71	CHIP	1K	5% 1/16W
• R328	1-216-833-11	CHIP	10K	5% 1/16W
• R330	1-216-833-11	CHIP	10K	5% 1/16W
R331	1-216-813-11	CHIP	220	5% 1/16W
R332	1-216-295-91	CONDUCTOR, CHIP		
• R335	1-216-801-71	CHIP	22	5% 1/16W
R338	1-216-830-11	CHIP	5.6K	5% 1/16W
• R339	1-216-821-71	CHIP	1K	5% 1/16W
• R340	1-216-801-71	CHIP	22	5% 1/16W
• R341	1-216-801-71	CHIP	22	5% 1/16W
• R342	1-216-801-71	CHIP	22	5% 1/16W
R423	1-216-845-11	CHIP	100K	5% 1/16W
R424	1-216-845-11	CHIP	100K	5% 1/16W
• R425	1-216-821-71	CHIP	1K	5% 1/16W
• R426	1-216-821-71	CHIP	1K	5% 1/16W
• R427	1-216-821-71	CHIP	1K	5% 1/16W
• R428	1-216-821-71	CHIP	1K	5% 1/16W
R429	1-216-809-11	CHIP	100	5% 1/16W
R430	1-216-809-11	CHIP	100	5% 1/16W
R443	1-216-295-91	CONDUCTOR, CHIP		
R444	1-216-797-11	CHIP	10	5% 1/16W
R445	1-216-813-11	CHIP	220	5% 1/16W
R446	1-216-826-11	CHIP	2.7K	5% 1/16W
• R447	1-216-833-11	CHIP	10K	5% 1/16W
R501	1-216-825-11	CHIP	2.2K	5% 1/16W
R502	1-216-825-11	CHIP	2.2K	5% 1/16W
• R503	1-216-029-00	CHIP	150	5% 1/10W #

Ref. No.	Part No.	Description		Remark
• R504	1-216-029-00	CHIP	150	5% 1/10W
• R505	1-216-029-00	CHIP	150	5% 1/10W
• R510	1-216-821-71	CHIP	1K	5% 1/16W
• R511	1-216-821-71	CHIP	1K	5% 1/16W
• R512	1-216-821-71	CHIP	1K	5% 1/16W
R515	1-216-089-91	CHIP	47K	5% 1/10W
R516	1-218-292-11	CHIP	20K	5% 1/16W
R516	1-218-876-91	CHIP	16K	0.5% 1/16W (5500/5501/5503)
R517	1-218-285-11	CHIP	75	5% 1/16W (5502)
R518	1-218-285-11	CHIP	75	5% 1/16W
R519	1-218-285-11	CHIP	75	5% 1/16W
R520	1-218-285-11	CHIP	75	5% 1/16W
R521	1-218-285-11	CHIP	75	5% 1/16W
R522	1-218-285-11	CHIP	75	5% 1/16W
R527	1-216-079-00	CHIP	18K	5% 1/10W
R528	1-216-049-91	CHIP	1K	5% 1/10W
R529	1-216-067-00	CHIP	5.6K	5% 1/10W
R530	1-216-304-11	CHIP	3.3	5% 1/10W
R541	1-216-295-91	CONDUCTOR, CHIP		
R542	1-216-295-91	CONDUCTOR, CHIP		
R543	1-216-295-91	CONDUCTOR, CHIP		
R602	1-216-864-11	CONDUCTOR, CHIP		
• R606	1-216-821-71	CHIP	1K	5% 1/16W
R615	1-216-053-00	CHIP	1.5K	5% 1/10W
R616	1-216-062-00	CHIP	3.6K	5% 1/10W
R617	1-216-057-00	CHIP	2.2K	5% 1/10W
R618	1-216-051-00	CHIP	1.2K	5% 1/10W
R701	1-216-829-11	CHIP	4.7K	5% 1/16W
R702	1-216-835-11	CHIP	15K	5% 1/16W
R703	1-216-844-11	CHIP	82K	5% 1/16W
• R704	1-216-833-11	CHIP	10K	5% 1/16W
R705	1-216-845-11	CHIP	100K	5% 1/16W
R706	1-216-853-11	CHIP	470K	5% 1/16W
R707	1-218-696-11	METAL CHIP	1.5K	0.5% 1/16W
R708	1-216-841-11	CHIP	47K	5% 1/16W
R709	1-216-849-11	CHIP	220K	5% 1/16W
• R710	1-216-833-11	CHIP	10K	5% 1/16W
R711	1-216-852-11	CHIP	390K	5% 1/16W
R712	1-216-827-11	CHIP	3.3K	5% 1/16W
R713	1-218-703-11	METAL CHIP	3.0K	0.5% 1/16W
R714	1-216-827-11	CHIP	3.3K	5% 1/16W
R715	1-216-848-11	CHIP	180K	5% 1/16W
R716	1-218-729-11	METAL CHIP	36K	0.5% 1/16W
R717	1-216-809-11	CHIP	100	5% 1/16W
R718	1-216-849-11	CHIP	220K	5% 1/16W
R719	1-216-853-11	CHIP	470K	5% 1/16W
R720	1-216-853-11	CHIP	470K	5% 1/16W
R723	1-216-839-11	CHIP	33K	5% 1/16W
R725	1-216-841-11	CHIP	47K	5% 1/16W
R726	1-218-729-11	METAL CHIP	36K	0.5% 1/16W
R727	1-216-835-11	CHIP	15K	5% 1/16W

Ref. No.	Part No.	Description	Remark
R728	1-218-703-11	METAL CHIP 3.0K 0.5% 1/16W	
R731	1-218-696-11	METAL CHIP 1.5K 0.5% 1/16W	
R732	1-216-835-11	CHIP 15K 5% 1/16W	
R733	1-216-845-11	CHIP 100K 5% 1/16W	
R734	1-216-823-11	CHIP 1.5K 5% 1/16W	
R735	1-216-864-11	CONDUCTOR, CHIP	
R736	1-216-841-11	CHIP 47K 5% 1/16W	
R737	1-216-837-11	CHIP 22K 5% 1/16W	
R738	1-218-707-11	CHIP 4.3K 5% 1/16W	
R739	1-216-822-11	CHIP 1.2K 5% 1/16W	
R740	1-216-821-71	CHIP 1K 5% 1/16W	
R741	1-216-840-11	CHIP 39K 5% 1/16W	
R745	1-218-883-11	CHIP 33K 0.5% 1/16W	
R746	1-218-883-11	CHIP 33K 0.5% 1/16W	
R747	1-216-009-00	CHIP 22 5% 1/10W	
R748	1-218-903-11	CHIP 220K 0.5% 1/16W	
R749	1-218-903-11	CHIP 220K 0.5% 1/16W	
R750	1-216-009-00	CHIP 22 5% 1/10W	
R765	1-216-833-11	CHIP 10K 5% 1/16W	
R769	1-218-286-11	CHIP 91 5% 1/16W	
R770	1-216-833-11	CHIP 10K 5% 1/16W	
R771	1-216-840-11	CHIP 39K 5% 1/16W	
R772	1-216-833-11	CHIP 10K 5% 1/16W	
R773	1-216-845-11	CHIP 100K 5% 1/16W	
R774	1-216-829-11	CHIP 4.7K 5% 1/16W	
R775	1-216-840-11	CHIP 39K 5% 1/16W	
R777	1-216-864-11	CONDUCTOR, CHIP	
R778	1-216-864-11	CONDUCTOR, CHIP	
R780	1-216-864-11	CONDUCTOR, CHIP	
< NETWORK RESISTOR >			
RB111	1-233-813-21	NETWORK 150	
RB112	1-233-813-21	NETWORK 150	
RB113	1-233-813-21	NETWORK 150	
RB114	1-233-813-21	NETWORK 150	
RB115	1-233-813-21	NETWORK 150	
RB116	1-233-813-21	NETWORK 150	
RB117	1-233-813-21	NETWORK 150	
RB118	1-233-813-21	NETWORK 150	
< VARIABLE RESISTOR >			
RV703	1-223-588-11	RES, ADJ, CARBON 47K	
< SWITCH >			
S301	1-570-953-21	PUSH SWITCH (1KEY)	
< VIBRATOR >			
X101	1-760-566-21	VIBRATOR, CRYSTAL (67.73MHz)	
X201	1-760-567-21	VIBRATOR, CRYSTAL (53.69MHz)	
		(5500/5501/5503)	
X201	1-760-568-21	VIBRATOR, CRYSTAL (53.20MHz)	(5502)

Ref. No.	Part No.	Description	Remark
△	1-468-176-11	POWER BLOCK	(5500)
< CAPACITOR >			
△C001	FILM	0.1uF 125V	ECQE1A104SKF
△C003	ELECT	100uF 200V	ECA2DHG101
△C004	CERAMIC	220PF 1KV	ECKR3A221KBP
△C005	FILM	0.1uF 50V	ECQV1H104JL
△C007	CERAMIC	1000PF 250V	250E102M
△C008	FILM	4700PF 50V	ECQ81H472JF
△C009	FILM	6800PF 50V	ECQ81H682KF
△C010	CERAMIC	4700PF 250V	HRR2R472K
△C013	FILM	2200PF 50V	ECQ81H222JF
△C102	ELECT	560uF 25V	EEUFC1E561
△C103	ELECT	560uF 25V	EEUFC1E561
△C104	ELECT	220uF 25V	EEUFC1E221
△C105	ELECT	330uF 25V	EEUFC1E331
△C106	FILM	0.022uF 50V	ECQ81H223KF
△C107	ELECT	1uF 50V	ECEA1H010
< CONNECTOR >			
△CN001	AC INLET	250V 2.5A	ACMD8PG39
△CN101	CONNECTOR	EH5	B5B-EH-F7
< DIODE >			
△D001	DIODE	400V 1A	ERA15-04
△D002	DIODE	400V 1A	ERA15-04
△D003	DIODE	400V 1A	ERA15-04
△D004	DIODE	400V 1A	ERA15-04
△D006	DIODE	80V 0.15A	MA165
△D007	DIODE	80V 0.15A	MA165
△D009	DIODE	80V 0.15A	MA165
△D011	DIODE	800V 0.5A	ERA22-08
△D101	DIODE	30V 3A	31DQ03L
△D102	DIODE	40V 3A	SB340
< FUSE >			
△F101	FUSE	250V 2A	232002V2
< IC >			
△IC101	IC		M51957BL
< INDUCTOR >			
△L001	FILTER CHOKE	26mH 0.4A	ELF15N004A
△L101	CHOKE	3.3uH 2.5A	3R3N
△L102	CHOKE	3.3uH 2.5A	3R3N
< PHOTOCOUPLER >			
△PC001	PHOTOCOUPLER	PC	PS2501-1
< DIODE >			
△PD101	LED	90mW 30mA	LNJ301MPUJA

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POWER BLOCK

Ref. No.	Part No.	Description	Remark
< TRANSISTOR >			
△Q001	TRANSISTOR	40W 500V 2SK2125	
△Q002	TRANSISTOR	0.3W 20V 2SD1450	
△Q101	TRANSISTOR	0.3W 50V 2SC3311A	
△Q102	TRANSISTOR	0.3W 50V 2SC3311A	
△Q103	TRANSISTOR	0.3W 50V 2SA1309A	
△Q104	TRANSISTOR	0.3W 50V UN421D	
< RESISTOR >			
△R001	CARBON	1M 0.5W ERDS1TJ105	
△R002	CARBON	150K 0.25W ERDS2TJ154	
△R003	CARBON	180K 0.25W ERDS2TJ184	
△R004	METAL OXIDE	220 1W ERG1SJ221	
△R006	CARBON	220 0.5W ERDS1TJ221	
△R007	CARBON	15K 0.25W ERDS2TJ153	
△R008	METAL	13.7K 0.25W EROS2TKF1372	
△R009	CARBON	33 0.25W ERDS2TJ330	
△R010	CARBON	220 0.25W ERDS2TJ221	
△R011	CARBON	150K 0.5W ERDS1TJ154	
△R101	CARBON	68 0.5W ERDS1TJ680	
△R103	CARBON	47 0.25W ERDS2TJ470	
△R104	CARBON	1.8K 0.25W ERDS2TJ182	
		1.9K 0.25W ERDS2TJ192	
		2K 0.25W ERDS2TJ202	
△R105	CARBON	3.9K 0.25W ERDS2TJ392	
△R107	CARBON	120 0.25W ERDS2TJ121	
△R108	CARBON	220 0.25W ERDS2TJ221	
△R109	CARBON	330 0.5W ERDS1TJ331	
△R110	CARBON	1.5K 0.25W ERDS2TJ152	
△R111	CARBON	15 0.25W ERDS2TJ150	
△R112	CARBON	180 0.25W ERDS2TJ181	
△R113	METAL	13.3K 0.25W EROS2TKF1332	
△R114	METAL	10K 0.25W EROS2TKF1002	
△R115	CARBON	130 0.25W ERDS2TJ131	
△R116	CARBON	47 0.25W ERDS2TJ470	
< SWITCH >			
△SW101	SWITCH	12V 3A SLASBB03 (POWER)	
△SW102	SWITCH	12V 3A ESE20B6 (RESET)	
< TRANSFORMER >			
△T001	TRANSFORMER	ETB29KL115#	
< VARIABLE RESISTOR >			
△VR101	RES. ADJ. CARBON	500 0.3W EVMEASA01B52	
< DIODE >			
△ZD001	ZENER	4.7V 0.4W MA4047	
△ZD101	ZENER	5.6V 0.4W MA4056	
△ZD102	ZENER	5.1V 0.5W RD5.1EB	
△ZD103	ZENER	12V 0.5W RD12EB	

Ref. No.	Part No.	Description	Remark
△ZD104	ZENER	5.1V 0.4W MA4051	

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POWER BLOCK

Ref. No.	Part No.	Description	Remark
△	1-468-218-11	POWER BLOCK *****	(5501)
< CAPACITOR >			
△C001	FILM	0.1uF 275V MKP20104M	
△C003	ELECT	100uF 200V ECA2DHG101	
△C004	CERAMIC	220PF 1KV ECKR3A221KBP	
△C005	FILM	0.1uF 50V ECQV1H104JL	
△C007	CERAMIC	1000PF 250V KH102M	
△C008	FILM	4700PF 50V ECQB1H472JF	
△C009	FILM	6800PF 50V ECQB1H682KF	
△C010	CERAMIC	4700PF 250V HRR2R472K	
△C013	FILM	2200PF 50V ECQB1H222JF	
△C102	ELECT	560uF 25V EEUFC1E561	
△C103	ELECT	560uF 25V EEUFC1E561	
△C104	ELECT	220uF 25V EEUFC1E221	
△C105	ELECT	330uF 25V EEUFC1E331	
△C106	FILM	0.022uF 50V ECQB1H223KF	
△C107	ELECT	1uF 50V ECEA1HJ010	
< CONNECTOR >			
△CN001	AC INLET	250V 2.5A ACM09PG41	
△CN101	CONNECTOR	EHS B5B-EH-TV4	
< DIODE >			
△D001	DIODE	400V 1A ERA15-04	
△D002	DIODE	400V 1A ERA15-04	
△D003	DIODE	400V 1A ERA15-04	
△D004	DIODE	400V 1A ERA15-04	
△D006	DIODE	80V 0.15A MA165	
△D007	DIODE	80V 0.15A MA165	
△D009	DIODE	80V 0.15A MA165	
△D011	DIODE	800V 0.5A ERA22-08	
△D101	DIODE	30V 3A 31DQ03L	
△D102	DIODE	40V 3A SB340	
< FUSE >			
△F001	FUSE	250V 2A 239 2A	
< IC >			
△IC101	IC	M51957BL	
< INDUCTOR >			
△L001	FILTER CHOKE	26mH 0.4A ELF15N004A	
△L101	CHOKE	3.3uH 2.5A 3R3N	
△L102	CHOKE	3.3uH 2.5A 3R3N	
< PHOTOCOUPLER >			
△PC001	OPTOISOLATOR	PC PS2501-1	
< DIODE >			
△PD101	LED	90mW 30mA LNJ301MPUJA	

Ref. No.	Part No.	Description	Remark
< TRANSISTOR >			
△Q001	FET	40W 500V 2SK2125	
△Q002	TRANSISTOR	0.3W 20V 2SD1450	
△Q101	TRANSISTOR	0.3W 50V 2SC3311A	
△Q102	TRANSISTOR	0.3W 50V 2SC3311A	
△Q103	TRANSISTOR	0.3W 50V 2SA1309A	
△Q104	TRANSISTOR	0.3W 50V UN421D	
< RESISTOR >			
△R001	CARBON	1M 0.5W ERDS1TJ105	
△R002	CARBON	6.8M 0.5W ERC12UGK685	
△R003	CARBON	180K 0.25W ERDS2TJ184	
△R004	METAL OXIDE	220 1W ERG1SJ221	
△R005	CARBON	150K 0.25W ERDS2TJ154	
△R006	CARBON	220 0.5W ERDS1TJ221	
△R007	CARBON	15K 0.25W ERDS2TJ153	
△R008	METAL	13.7K 0.25W EROS2TKF1372	
△R009	CARBON	33 0.25W ERDS2TJ330	
△R010	CARBON	220 0.25W ERDS2TJ221	
△R011	CARBON	150K 0.5W ERDS1TJ154	
△R101	CARBON	68 0.5W ERDS1TJ680	
△R103	CARBON	47 0.25W ERDS2TJ470	
△R104	CARBON	1.8K 0.25W ERDS2TJ182	
△R105	CARBON	3.9K 0.25W ERDS2TJ392	
△R106	CARBON	2.2K 0.25W ERDS2TJ222	
△R107	CARBON	120 0.25W ERDS2TJ121	
△R108	CARBON	220 0.25W ERDS2TJ221	
△R109	CARBON	330 0.5W ERDS1TJ331	
△R110	CARBON	1.5K 0.25W ERDS2TJ152	
△R111	CARBON	15 0.25W ERDS2TJ150	
△R112	CARBON	180 0.25W ERDS2TJ181	
△R113	METAL	13.3K 0.25W EROS2TKF1332	
△R114	METAL	10K 0.25W EROS2TKF1002	
△R115	CARBON	130 0.25W ERDS2TJ131	
△R116	CARBON	47 0.25W ERDS2TJ470	
< SWITCH >			
△SW101	SWITCH	12V 3A SLASBB03 (POWER)	
△SW102	SWITCH	12V 3A ESE20B6 (RESET)	
< TRANSFORMER >			
△T001	TRANSFORMER	ETB29KL115#	
< VARIABLE RESISTOR >			
△VR101	RES, ADJ. CARBON	500 0.3W EVMEASAO1B52	
< DIODE >			
△ZD001	ZENER	4.7V 0.4W MA4047	
△ZD101	ZENER	5.6V 0.4W MA4056	
△ZD102	ZENER	5.1V 0.5W RDS.1EB	
△ZD103	ZENER	12V 0.5W RD12EB	

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POWER BLOCK

Ref. No.	Part No.	Description	Remark
△ZD104	ZENER	5.1V 0.4W MA4051	
.....			

Ref. No.	Part No.	Description	Remark
△	1-468-218-21	POWER BLOCK	(5501)
			
		HOLDER LED	
		< CAPACITOR >	
△C101	METAL	0.1uF 250V	R40
△C103	CERAMIC	1500PF 125V	KH
△C104	ELECT	120uF 200V	YK
△C105	METAL	0.033uF 400V	MMW-EF
△C106	CHIP	4700PF 50V	
△C107	CHIP	220PF 50V	
△C108	CHIP	0.01uF 50V	
△C110	CHIP	0.01uF 50V	
△C111	ELECT	47uF 35V	YK
△C112	CERAMIC	220PF 1KV	
△C201	ELECT	1000uF 16V	YXF
△C202	ELECT	470uF 16V	YK
△C203	ELECT	2200uF 10V	YXF
△C204	ELECT	1000uF 6.3V	YK
△C205	CERAMIC	1000PF 1KV	
△C206	CHIP	0.1uF 25V	
△C207	CHIP (ADJ)	0.22uF 16V	
△C209	CHIP	4700PF 50V	
△C210	CHIP	0.01uF 50V	
		< CONNECTOR >	
△CN101	AC INLET		AC-MD9PG41
△CN201	CONNECTOR	5P	EH
		< DIODE >	
△D101	DIODE	400V 1A	1A4
△D102	DIODE	400V 1A	1A4
△D103	DIODE	400V 1A	1A4
△D104	DIODE	400V 1A	1A4
△D105	DIODE	600V 1A	RMPG06J
△D106	DIODE	200V 0.8A	AU022
△D108	DIODE	35V 100mA	MA165
△D109	ZENER	27V 370mW	MA4270
△D201	DIODE	40V 3A	31DQ04-FC5
△D202	DIODE	30V 10A	F10P03QL
△D203	ZENER	12V 1W	M2120
△D204	ZENER	3V 370mW	MA4030
△D205	ZENER	5.6V 370mW	MA4056
		< FUSE >	
△F001	FUSE	125V 2A	237
		< IC >	
△IC101	IC		UC3842AN
△IC201	IC		AN1431T
△IC202	IC		PST5981NR

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POWER BLOCK

Ref. No.	Part No.	Description	Remark
< COIL >			
△L101	LINE FILTER	SS10V-05180	
△L201	CHOKE	10uH	
△L202	CHOKE	10uH	
< LED >			
△LED201	LED	30mA HLMF-D505#2UK	
< PHOTO COUPLER >			
△PC101	PHOTO COUPLER	ON3131	
< TRANSISTOR >			
△Q101	TRANSISTOR	450V 3A FS3KM-9	
△Q201	TRANSISTOR	50V 0.15A 2SC2412K	
△Q202	TRANSISTOR	50V 0.1A DTC114EK	
< RESISTOR >			
△R101	CARBON	1M 1/2W	
△R102	CARBON	56K 1/4W	
△R103	CARBON	56K 1/4W	
△R105	CARBON	100K 1/2W	
△R106	METAL	1 1W MOS1	
△R107	CARBON	330 1/4W F	
△R108	CHIP	10K 1/10W	
△R109	CHIP	470 1/10W	
△R110	CHIP (ADJ)	1/10W	
△R116	CARBON	220 1/4W	
△R117	CHIP	6.8K 1/10W	
△R118	CARBON	22 1/4W	
△R119	METAL OXIDE	100 1W ERG1S	
△R120	SOLID	6.8M 1/2W ERC12UG	
△R201	CARBON	330 1/2W	
△R202	CARBON	22 1/4W	
△R203	CARBON	120 1/4W	
△R204	CHIP (ADJ)	470 1/10W	
△R205	CHIP	1K 1/10W	
△R206	CHIP	10K 1/10W	
△R207	CHIP	1K 1/10W	
△R208	CHIP	4.7K 1/10W	
△R209	CHIP	3.3K 1/10W	
△R210	CHIP	1K 1/10W	
△R212	CHIP	1K 1/10W	
△R213	CHIP	10K 1/10W	
△R215	CARBON	120 1/4W	
△R217	CHIP	1K 1/10W	
< SWITCH >			
△SW201	SWITCH	SL-ASBB03	
△SW202	SWITCH		

Ref. No.	Part No.	Description	Remark
< TRANSFORMER >			
△T101	TRANSFORMER	ETS28AD1V5AC	
< VARIABLE RESISTOR >			
△VR201	RES, ADJ.	2K	
.....			

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POWER BLOCK

Ref. No.	Part No.	Description	Remark
△	1-468-218-31	POWER BLOCK *****	(5501)
	HEAT SINK	LM40791	
	SCREW	NACPEW-B3-10ZF	
	HOLDER, FUSE	PFC5000-0203	
	COVER, LED	LF5-9.2	
< CAPACITOR >			
△C001	FILM	0.047uF 250V	QEX2E473JTP2CS
△C003	ELECT	100uF 200V	UV22D101MHHBSOTM
△C004	CERAMIC	220PF 1KV	TPD07R221K1K
△C005	CERAMIC	6800PF 250V	TPD12R682K250
△C006	FILM	0.022uF 100V	QYX2A223JTP5TA
△C007	CERAMIC	0.1uF 50V	TRPE132R104K50
△C008	FILM	0.047uF 100V	QYX2A473JTP5TA
△C010	CERAMIC	1500PF 250V	TP209E152MKH
△C012	CERAMIC	0.1uF 50V	TRPE132R104K50
△C101	ELECT	560uF 16V	UPJ1C561MPH1TD
△C102	ELECT	820uF 16V	UPJ1C821MPH1TD
△C103	ELECT	180uF 16V	UPF1C181MEH1TA
△C104	ELECT	180uF 16V	UPF1C181MEH1TA
△C105	ELECT	2.2uF 50V	UVR1H2R2MDA1TA
△C106	FILM	1uF 50V	UVR1H010MDA1TA
< CONNECTOR >			
△CN001	AC INLET	AC-M09PG41	
△CN002	CONNECTOR	B5B-EH-TS	
< DIODE >			
△D001	DIODE	400V 1A	MPG06G-G3
△D002	DIODE	400V 1A	MPG06G-G3
△D003	DIODE	400V 1A	MPG06G-G3
△D004	DIODE	400V 1A	MPG06G-G3
△D005	DIODE	600V 0.5A	ERA22-06V3R
△D006	DIODE	200V 0.5A	ERA22-02V3R
△D007	DIODE	80V 100mA	1SS252T-77
△D008	DIODE	400V 1A	MPG06G-G3
△D009	DIODE	80V 100mA	1SS252T-77
△D101	DIODE	40V 2.6A	ERC81-004L
△D102	DIODE	40V 2.6A	ERC81-004L
△D103	DIODE	12V 1W	RD12F-T7-B2
△D104	DIODE	80V 100mA	1SS252T-77
△D105	DIODE	5.1V 400mA	RD5.1ES-T1-AB2
△D106	DIODE	80V 100mA	1SS252T-77
< FUSE >			
△F001	FUSE	125V 2A	237SA2AT-JUC
< IC >			
△IC101	IC	uPC1093J-1-T	
△IC102	IC	M519578L	

Ref. No.	Part No.	Description	Remark
< COIL >			
△L001	COIL	22mH 0.4A	LF-4D-E223
△L101	COIL	10uH 1.9A	TSL0709RA100K1R9
△L102	COIL	10uH 1.9A	TSL0709RA100K1R9
< PHOTOCOUPLER >			
△PC001	PHOTOCOUPLER	80V 80mA	PS2561-1D
< LED >			
△PD101	LED	30mA	LT5E8B
< TRANSISTOR >			
△Q001	TRANSISTOR	450V 5.0A	2SC4054-4012
△Q002	TRANSISTOR	32V 500mA	2SC1741STP
△Q101	TRANSISTOR	50V 100mA	DTC143ESTP
< RESISTOR >			
△R001	CARBON	330K 1/4W	RDFP25ST2A334J
△R002	CARBON	47K 1/2W	RDFP50ST5A473J
△R003	CARBON	330K 1/4W	RDFP16ST2A334J
△R005	CARBON	100 1/2W	RDFP50ST5A101J
△R006	CARBON	2.7K 1/4W	RDFP16ST2A272J
△R007	CARBON	4.7 1/4W	RDFP16ST2A477J
△R009	METAL OXIDE	0.39 1W	RSS01WST5AR39J
△R010	CARBON	47 1/4W	RDFP16ST2A470J
△R011	CARBON	22K 1/4W	RDFP16ST2A223J
△R012	CARBON	3.3K 1/4W	RDFP16ST2A332J
△R013	CARBON	6.8M 1/2W	RCR50-ST5A685J
△R014	METAL OXIDE	100 1W	RSS01WST5A101J
△R101	CARBON	560 1/4W	RDFP16ST2A561J
△R102	CARBON	100 1/4W	RDFP16ST2A101J
△R103	CARBON	100 1/4W	RDFP16ST2A101J
△R104	CARBON	470 1/4W	RDFP16ST2A471J
△R105	CARBON	470 1/4W	RDFP16ST2A471J
△R106	METAL	470 1/4W	SNZP16ST2A4700D
△R107	METAL (ADJ)	1.1K 1/4W	SNZP16ST2A1101D
	METAL	953 1/4W	SNZP16ST2A9530D
	METAL	965 1/4W	SNZP16ST2A9650D
	METAL	976 1/4W	SNZP16ST2A9760D
	METAL	988 1/4W	SNZP16ST2A9880D
	METAL	1.0K 1/4W	SNZP16ST2A1001D
	METAL	1.01K 1/4W	SNZP16ST2A1011D
	METAL	1.02K 1/4W	SNZP16ST2A1021D
	METAL	1.04K 1/4W	SNZP16ST2A1041D
	METAL	1.05K 1/4W	SNZP16ST2A1051D
	METAL	1.06K 1/4W	SNZP16ST2A1061D
	METAL	1.07K 1/4W	SNZP16ST2A1071D
	METAL	1.09K 1/4W	SNZP16ST2A1091D
	METAL	1.11K 1/4W	SNZP16ST2A1111D
	METAL	1.13K 1/4W	SNZP16ST2A1131D
△R108	CARBON	120 1/4W	RDFP16ST2A121J

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POWER BLOCK

Ref. No.	Part No.	Description	Remark
△R109	METAL	13.3K 1/4W	SNZP16ST2A1332F
△R110	METAL	10K 1/4W	SNZP16ST2A1002F
△R111	CARBON	15 1/4W	RDFP16ST2A150J
△R112	CARBON	180 1/4W	RDFP16ST2A181J
< SWITCH >			
△SW101	SWITCH	12V 3A	SL-ASBB03 (POWER)
△SW102	SWITCH		ESE20B9 (RESET)
< TRANSFORMER >			
△T001	CONVERTER TRANSFORMER		N-T00-979C

Ref. No.	Part No.	Description	Remark
△	1-468-219-13	POWER BLOCK	(5502)

	HEAT SINK	LM40791	
	SCREW	NACPEW-B3*10ZF	
	HOLDER, FUSE	PFC5000-0203	
	COVER, LED	LF5-9.2	
< CAPACITOR >			
△C001	FILM	0.047uF 250V	QEX2E473KTP2CS
△C002	FILM	0.047uF 250V	QEX2E473KTP2CS
△C003	ELECT	47uF 400V	UV22G470MHH6TN
△C004	CERAMIC	68PF 1KV	TPD07SL680J1K
△C005	CERAMIC	1000PF 1KV	TPD09R102K1K
△C006	FILM	0.022uF 100V	QYX2A223JTP5TA
△C007	CERAMIC	0.1uF 50V	TRPE132R104K50
△C008	FILM	0.047uF 100V	QYX2A473JTP5TA
△C010	CERAMIC	2200PF 250V	TP210E222MKH
△C011	CERAMIC	2200PF 250V	TP210E222MKH
△C012	CERAMIC	0.1uF 50V	TRPE132R104K50
△C101	ELECT	560uF 16V	UPJ1C561MPH1TD
△C102	ELECT	820uF 16V	UPJ1C821MPH1TD
△C103	ELECT	180uF 16V	UPF1C181MEH1TA
△C104	ELECT	180uF 16V	UPF1C181MEH1TA
△C105	ELECT	2.2uF 50V	UVR1H2R2MDA1TA
△C106	ELECT	1uF 50V	UVR1H010MDA1TA
< CONNECTOR >			
△CN001	AC INLET		AC-M08PG39
△CN002	CONNECTOR		B5B-EH-TS
< DIODE >			
△D001	DIODE	600V 1A	ERA15-06V3R
△D002	DIODE	600V 1A	ERA15-06V3R
△D003	DIODE	600V 1A	ERA15-06V3R
△D004	DIODE	600V 1A	ERA15-06V3R
△D005	DIODE	800V 0.5A	ERA22-08V3R
△D006	DIODE	200V 0.5A	ERA22-02V3R
△D007	DIODE	80V 100mA	1SS252T-77
△D008	DIODE	600V 1A	ERA15-06V3R
△D101	DIODE	40V 2.6A	ERC81-004L
△D102	DIODE	40V 2.6A	ERC81-004L
△D103	DIODE	10V 400mA	RD10ES-T1-AB2
△D104	DIODE	80V 100mA	1SS252T-77
△D105	DIODE	5.1V 400mA	RD5.1ES-T1-AB2
△D106	DIODE	80V 100mA	1SS252T-77
< FUSE >			
△F001	FUSE	250V 1.6A	215SB-1R6AA-SB
< IC >			
△IC101	IC		uPC1093J-1-T
△IC102	IC		M51957BL

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POWER BLOCK

Ref. No.	Part No.	Description	Remark
< COIL >			
△L001	COIL	33mH 0.3A LF-4D-333	
△L101	COIL	10uH 1.9A TSL0709RA100K1R9	
△L102	COIL	10uH 1.9A TSL0709RA100K1R9	
< PHOTOCOUPLER >			
△PC001	PHOTOCOUPLER	80V 80mA PS2561-1DV	
< LED >			
△PD101	LED	30mA LTSE88	
< TRANSISTOR >			
△Q001	TRANSISTOR	800V 2.0A 2SC4231	
△Q002	TRANSISTOR	50V 150mA 2SC1740STP	
△Q101	TRANSISTOR	50V 100mA DTC143ESTP	
< RESISTOR >			
△R001	CARBON	330K 1/2W RDFP50ST5A334J	
△R002	CARBON	330K 1/2W RDFP50ST5A334J	
△R003	CARBON	820K 1/2W RDFP50ST5A824J	
△R005	CARBON	120 1/2W RDFP50ST5A151J	
△R006	CARBON	2.7K 1/4W RDFP16ST2A272J	
△R007	CARBON	4.7 1/4W RDFP16ST2A4R7J	
△R009	METAL OXIDE	0.68 1W RSS01WST5AR68J	
△R010	CARBON	100 1/4W RDFP16ST2A101J	
△R011	CARBON	6.8K 1/4W RDFP16ST2A682J	
△R012	CARBON	820 1/4W RDFP16ST2A821J	
△R101	CARBON	560 1/4W RDFP16ST2A561J	
△R102	CARBON	100 1/4W RDFP16ST2A101J	
△R103	CARBON	100 1/4W RDFP16ST2A101J	
△R104	CARBON	470 1/4W RDFP16ST2A471J	
△R105	CARBON	470 1/4W RDFP16ST2A471J	
△R106	METAL	470 1/4W SNZP16ST2A4700D	
△R107	METAL	(ADJ)	
	METAL	1.1K 1/4W SNZP16ST2A1101D	
	METAL	953 1/4W SNZP16ST2A9530D	
	METAL	965 1/4W SNZP16ST2A9650D	
	METAL	976 1/4W SNZP16ST2A9760D	
	METAL	988 1/4W SNZP16ST2A9880D	
	METAL	1.0K 1/4W SNZP16ST2A1001D	
	METAL	1.01K 1/4W SNZP16ST2A1011D	
	METAL	1.02K 1/4W SNZP16ST2A1021D	
	METAL	1.04K 1/4W SNZP16ST2A1041D	
	METAL	1.05K 1/4W SNZP16ST2A1051D	
	METAL	1.06K 1/4W SNZP16ST2A1061D	
	METAL	1.07K 1/4W SNZP16ST2A1071D	
	METAL	1.09K 1/4W SNZP16ST2A1091D	
	METAL	1.11K 1/4W SNZP16ST2A1111D	
	METAL	1.13K 1/4W SNZP16ST2A1131D	
△R108	CARBON	120 1/4W RDFP16ST2A121J	
△R109	METAL	13.3K 1/4W SNZP16ST2A1332F	
△R110	METAL	10K 1/4W SNZP16ST2A1002F	

Ref. No.	Part No.	Description	Remark
△R111	CARBON	15 1/4W RDFP16ST2A150J	
△R112	CARBON	180 1/4W RDFP16ST2A181J	
< SWITCH >			
△SW101	SWITCH	12V 3A SL-AS8B03 (POWER)	
△SW102	SWITCH	ESE20B9 (RESET)	
< TRANSFORMER >			
△T001	CONVERTER TRANSFORMER	N-T00-956C	

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POWER BLOCK

Ref. No.	Part No.	Description	Remark
△	1-468-243-11	POWER BLOCK *****	(5503)
< CAPACITOR >			
△C001	FILM	0.1uF 275V	MKP20104M
△C003	CERAMIC	2200PF 250V	KH222M
△C004	CERAMIC	2200PF 250V	KH222M
△C005	ELECT	82uF 400V	ECOS2GB820
△C008	CERAMIC	47PF 1KV	DE1SL470J
△C009	FILM	0.15uF 50V	ECQV1H154JL
△C010	FILM	2200PF 50V	ECQB1H222JF
△C011	FILM	6800PF 50V	ECQB1H682KF
△C012	FILM	4700PF 630V	ECQE6472KZ
△C013	FILM	1000PF 50V	ECQB1H102JF
△C102	ELECT	560uF 25V	EEUFC1E561
△C103	ELECT	560uF 25V	EEUFC1E561
△C104	ELECT	220uF 25V	EEUFC1E221
△C105	ELECT	330uF 25V	EEUFC1E331
△C106	FILM	0.068uF 50V	ECQB1H683
△C107	ELECT	1uF 50V	ECEA1HJ010
< CONNECTOR >			
△CN001	AC INLET	250V 2.5A	ACMD8PG39
△CN101	CONNECTOR	EH5	B5B-EH-TV4
< DIODE >			
△D001	DIODE	600V 1A	S1WB60
△D003	DIODE	80V 0.15A	MA165
△D004	DIODE	80V 0.15A	MA165
△D007	DIODE	80V 0.15A	MA165
△D008	DIODE	1kV 0.5A	ERA22-10
△D101	DIODE	35V 10A	FCQ10A3L
△D102	DIODE	60V 6A	FCQ6A6
△D103	DIODE	45V 5A	MA7D49A
< FUSE >			
△F001	FUSE	250V 1.6A	19181 1.6A
< IC >			
△IC101	IC	1.25V RESET	M51957BL
< COIL >			
△L001	FILTER CHOKE	43mH 0.3A	ELF15N003A
△L101	CHOKE	3.3uH 2.5A	3R3N
△L102	CHOKE	3.3uH 2.5A	3R3N
< PHOTOCOUPLER >			
△PC001	OPTOISOLATOR	PC	PS2561L-1
< LED >			
△PD101	LED	90mW 30mA	LNJ301MPOJAD

Ref. No.	Part No.	Description	Remark
< TRANSISTOR >			
△Q001	TRANSISTOR	50W800V3	2SK2129
△Q002	TRANSISTOR	0.3W 25V	2SD1450
△Q101	TRANSISTOR	0.3W 50V	2SC3311A
△Q102	TRANSISTOR	0.3W 50V	2SC3311A
△Q103	TRANSISTOR	0.3W 50V	2SA1309A
△Q104	TRANSISTOR	0.3W 50V	UN421D
< RESISTOR >			
△R001	CARBON	470K 0.5W	ERDS1TJ474
△R002	CARBON	15K 0.25W	ESDS2TJ153
△R003	METAL OXIDE	330 1W	ERG1ST331
△R004	METAL	11K 0.25W	EROS2TKF1102
△R005	CARBON	33 0.25W	ERDS2TJ330
△R006	METAL	20K 0.25W	EROS2TKF2002
△R007	CARBON	390 0.25W	ERDS2TJ391
△R008	CARBON	150 0.5W	ERDS1TJ151
△R009	CARBON	82K 0.25W	ERDS2TJ823
△R010	CARBON	82K 0.25W	ERDS2TJ823
△R011	METAL OXIDE	100K 2W	ERG2SJ104
△R012	CARBON	100K 0.25W	ERDS2TJ104
△R013	CARBON	100K 0.25W	ERDS2TJ104
△R103	CARBON	56 0.25W	ERDS2TJ560
△R104	METAL	324-374 0.25W	EROS2TKF3240-3740
△R105	METAL	768 0.25W	EROS2TKF7680
△R107	CARBON	220 0.25W	ERDS2TJ221
△R108	CARBON	220 0.25W	ERDS2TJ221
△R110	CARBON	1.5K 0.25W	ERDS2TJ152
△R111	CARBON	15 0.25W	ERDS2TJ150
△R112	CARBON	180K 0.25W	ERDS2TJ181
△R113	METAL	13.3K 0.25W	EROS2TKF1332
△R114	METAL	10K 0.25W	EROS2TKF1002
△R115	CARBON	130 0.25W	ERDS2TJ131
△R116	CARBON	56 0.25W	ERDS2TJ560
△R117	CARBON	1.2K 0.25W	ERDS2TJ122
< SWITCH >			
△SW101	SWITCH		ESB32101M
△SW102	SWITCH		ESE2086
< TRANSFORMER >			
△T001	TRANSFORMER		ETB28AE166**
< DIODE >			
△ZD001	ZENER DIODE	4.7V 0.4W	MA4047
△ZD002	ZENER DIODE	5.6V 0.4W	MA4056
△ZD101	ZENER DIODE	5.1V 0.4W	MA4051
△ZD102	ZENER DIODE	5.1V 0.5W	RD5.1B
△ZD103	ZENER DIODE	12V 0.5W	RD12EB
△ZD104	ZENER DIODE	5.1V 0.4W	MA4051

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

POWER BLOCK

Ref.No.	Part No.	Description	Remark
		MISCELLANEOUS *****	
△5	8-820-011-01	PICK-UP, OPTICAL KSM-440ADM/C1N	
• 6	1-777-919-11	CABLE, FLAT (FFC-215)	
• 7	1-500-226-21	BEAD, FERRITE	
• 14	1-537-836-17	TERMINAL BOARD (FRONT)	

Ref.No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS *****	
<SCPH-5500>			
△	1-769-322-11	CORD, POWER	
•	1-775-957-11	CORD, CONNECTION (CONTROLLER)	
•	3-961-986-01	SHEET, PROTECTION	
•	3-967-122-01	CUSHION	
•	3-859-256-01	MANUAL INSTRUCTION (JAPANESE)	
<SCPH-5501>			
△	1-775-549-21	CORD, POWER	
•	1-775-957-23	CORD, CONNECTION (CONTROLLER)	
•	1-777-918-21	CORD, CONNECTION	
•	3-860-046-11	MANUAL INSTRUCTION (ENGLISH, FRENCH, SPANISH)	
•	3-966-400-01	MANUAL INSTRUCTION (ENGLISH, FRENCH, SPANISH)	
<SCPH-5502A>			
△	1-696-819-21	CORD, POWER	
•	1-775-957-23	CORD, CONNECTION (CONTROLLER)	
•	1-777-918-21	CORD, CONNECTION	
•	3-973-676-11	MANUAL INSTRUCTION (ENGLISH, FRENCH, SPANISH)	
<SCPH-5502B>			
	1-475-177-41	ADAPTOR, RF	
△	1-751-673-21	CORD, POWER	
•	1-775-957-23	CORD, CONNECTION (CONTROLLER)	
•	3-860-044-11	MANUAL INSTRUCTION (ENGLISH, FRENCH, SPANISH)	
•	3-860-045-11	MANUAL INSTRUCTION (GERMAN, ITALIAN, DUTCH, DANISH, FINNISH, SWEDISH)	
<SCPH-5502C>			
	1-573-291-11	CONNECTOR, CONVERSION	
△	1-575-131-11	CORD, POWER	
•	1-775-957-23	CORD, CONNECTION (CONTROLLER)	
•	1-777-918-21	CORD, CONNECTION	
•	3-860-044-11	MANUAL INSTRUCTION (ENGLISH, FRENCH, SPANISH)	
•	3-860-045-11	MANUAL INSTRUCTION (GERMAN, ITALIAN, DUTCH, DANISH, FINNISH, SWEDISH)	
<SCPH-5503>			
	1-573-291-11	CONNECTOR, CONVERSION	
•	1-775-957-14	CORD, CONNECTION (CONTROLLER)	
△	1-777-806-11	CORD, POWER	
•	3-961-986-01	SHEET, PROTECTION	
•	3-967-122-01	CUSHION	
•	3-860-692-11	MANUAL INSTRUCTION (ENGLISH, CHINESE)	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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