

Service Manual

Compact Disc Changer
SL-PD847

Simplified

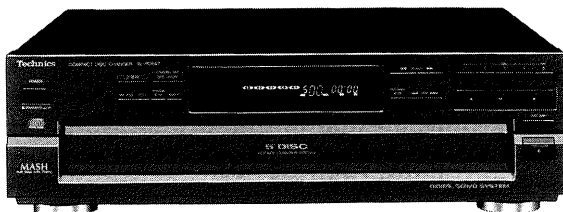
**COMPACT
disc
DIGITAL AUDIO**

DIGITAL

MASH
multi-stage noise shaping

Colour

(K) ... Black Type



Area

Suffix for Model No.	Area	Colour
(E)	Europe.	(K)
(GC)	Asia, Latin America, Middle Near East and Africa.	
(GN)	Oceania.	

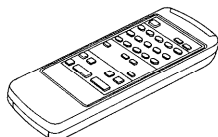
Please file and use this manual together with the service manual for Model No. SL-PD647 (E, GC, GN), Order No. AD9304104C8.

Note: • This simplified service manual is provided to indicate the main differences between the original model No. SL-PD647 (E) and the subsequent model No. SL-PD847 (E, GC, GN).

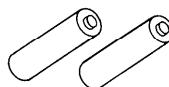
- ※
- Technics (or Panasonic) developed the world's first MASH type DAC and ADC. MASH technology was invented by NTT (LSI Labs).
 - MASH is a trademark of NTT.

ADDITION

ACCESSORIES (page 3 of Service Manual.)



Remote-control transmitter (RAK-SL002WH)..... 1 pc.



Batteries "AAA" (R03/UM4): These are available on sale route. for remote-control transmitter 2 pcs.

CHANGES

CHANGE IN REPLACEMENT PARTS LIST (on pages 46~48, 53 of Service Manual.)

- Notes:** • Mentioned in this parts list is only those different from Model No. SL-PD647 (E). All other parts are the same as for SL-PD647 (E).
- Important safety notice: Components identified by Δ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
 - The "(SF)" mark denotes the standard part.

Ref. No.	Change of Part No.		Part Name & Description	Remarks
	SL-PD647 (E)	SL-PD847 (E, GC, GN)		
INTEGRATED CIRCUIT(S)				
IC401	UPD78043B014	UPD78043A013	IC, SYSTEM CONTROL & FL DRIVE	
IC601	—	RCDHC-278	IC, REMOTE SENSOR	Addition

Technics

Ref. No.	Change of Part No.		Part Name & Description	Remarks
	SL-PD647 (E)	→ SL-PD847 (E, GC, GN)		
TRANSISTOR(S)				
Q471	—	UN4212TA	TRANSISTOR	Addition
Q472	UN4212TA	—	TRANSISTOR	Deletion
Q473	2SA1309A-R	—	TRANSISTOR	Deletion
DIODE(S)				
D414	—	MA4051MTA	DIODE	Addition
D471	MA165	—	DIODE	Deletion
TRANSFORMER(S)				
PT701	RTP1K4B012	RTP1K4B012	POWER TRANSFORMER	(E, GN) △
		RTP1K4E020	POWER TRANSFORMER	(GC) △
SWITCH(ES)				
S605	—	EVQ21405R	SW, ID SCAN	Addition
S606	—	EVQ21405R	SW, TAPE LENGTH	Addition
S701	—	—	—	(E, GN)
		SSR187-1	SW, VOLTAGE ADJ.	(GC) △ Addition
JACK(S)				
JK471	—	RJJ33T01	SYNCHRO EDIT	Addition
JK472	RJJ33TR01	—	REMOTE CONTROL	Deletion
JK701	SJS9236	SJS9236	AC INLET	(E, GN) △
		SJSD16	AC INLET	(GC) △
RESISTORS				
R471	—	ERDS2TJ100	1/4W 10	Addition
R472	—	ERDS2TJ102	1/4W 1K	Addition
R474	—	ERDS2TJ561	1/4W 560	Addition
R475	—	ERDS2TJ223	1/4W 22K	Addition
R476	ERDS2TJ272T	—	1/4W 2.7K	Deletion
R477	ERDS2TJ562	—	1/4W 5.6K	Deletion
R478	ERDS2TJ103	—	1/4W 10K	Deletion
R479	ERDS2TJ100	—	1/4W 10	Deletion
CAPACITORS				
C472, 473	—	ECBT1C103NS5	16V 0.01U	Addition
C601	ECFR1E104ZF5	ECFR1E103KR	25V 0.01U	
CABINET AND CHASSIS				
12	RFKHLPD647EK	RFKHLPD847EK	REAR PANEL ASS'Y	(E)
		RFKHLPD847GC	REAR PANEL ASS'Y	(GC)
		RFKHLPD847GN	REAR PANEL ASS'Y	(GN)
37	RFKGLPD647EK	RFKGLPD847EK	FRONT PANEL ASS'Y	
37-1	RGK0470	RGK0470A	FRONT ORNAMENT PLATE	
PACKING MATERIAL				
P1	RPG1495	RPG1496	PACKING CASE	
P5	—	RPQ0273	PAD	Addition
ACCESSORIES				
A1	RQT1987-E	RQT1987-E	INSTRUCTION MANUAL	(E)
		RFKSLPD847GC	INSTRUCTION MANUAL ASS'Y	(GC)
		RQT1843-L	INSTRUCTION MANUAL	(GN)
A2	RQA0013	RQA0013	WARRANTY CARD	(E)
		—	—	(GC)
		RQX7433ZA	WARRANTY CARD	(GN)
A4	RJA0019-2K	RJA0019-2K	AC POWER SUPPLY CORD	(E, GC) △ (SF)
		SJA173	AC POWER SUPPLY CORD	(GN) △ (SF)
A6	SJP2257T	—	REMOTE CONTROL CABLE	Deletion
A7	—	—	—	(E, GN)
		RQLA0134	VOLTAGE CAUTION LABEL	(GC) Addition
A8	—	—	—	(E, GN)
A9	—	SJP5213-2	POWER PLUG ADAPTOR	(GC) △ Addition
A9	—	RAK-SL002WH	REMOTE CONTROL TRANSMITTER	Addition
A9-1	—	RKK0020-K	BATTERY COVER FOR R/C TRANSMITTER	Addition

SCHEMATIC DIAGRAM

(page 37~39 of Service Manual.)

(This schematic diagram may be modified at any time with development of new technology.)

Note:

- S551 : Up/down det. switch.
- S552 : Open det. switch.
- S601 : Time mode (TIME MODE) select switch.
- S602 : Spiral (SPIRAL) switch.
- S603 : Random (RANDOM) switch.
- S604 : Repeat (REPEAT) switch.
- S605 : ID scan (ID SCAN) switch.
- S606 : Tape length (TAPE LENGTH) switch.
- S608, 609 : Search (SEARCH) switches.
[S608: ◀◀, S609: ▶▶]
- S610~614 : Disc (DISC 1~5) switches.
[S610: 1, S611: 2, S612: 3, S613: 4, S614: 5]
- S615 : Program mode (PROGRAM MODE) switch.
- S616, 617 : Skip (SKIP) switches.
[S616: ◀◀, S617: ▶▶]
- S618 : Disc skip (DISC SKIP) switch.
- S619 : Loading drawer open/close (▲ OPEN/CLOSE) switch.
- S620 : Stop (■ STOP) switch.
- S621 : Pause (■ PAUSE) switch.
- S622 : Play (▶ PLAY) switch.
- S624 : Power (POWER) switch.
- S701 : Voltage adj. switch in "240V" position.
(110V ↔ 127V ↔ 220V ↔ 240V)
[For (GC) area only.]

• The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis.
Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

* The parenthesized are the values of voltage generated during playing (Test disc 1kHz, L+R, 0dB), others are voltage values in stop mode.

Important safety notice:

Components identified by ▲ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used as occasion calls. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

• The supply part number is described alone in the replacement parts.

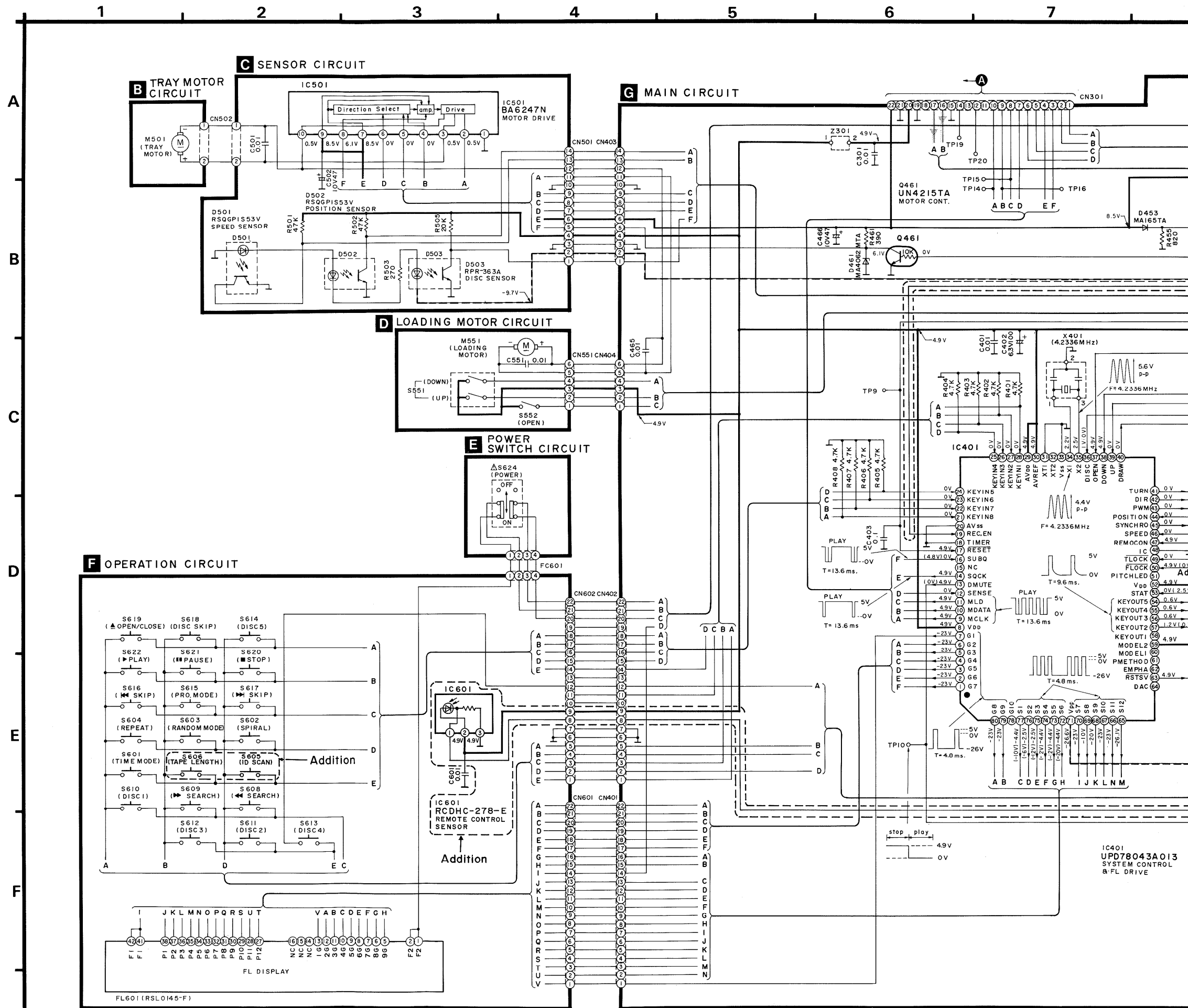
Part No.	Production Part No.	Supply Part No.
IC11	LM2940T5M	LM2940T5
IC451, 801	BA4558FT1	SVIBA4558F
IC601	RCDHC-278-E	RCDHC-278

- ——— / ——— : Positive voltage lines and negative voltage lines.
- ——— : Audio signal lines.

Caution!

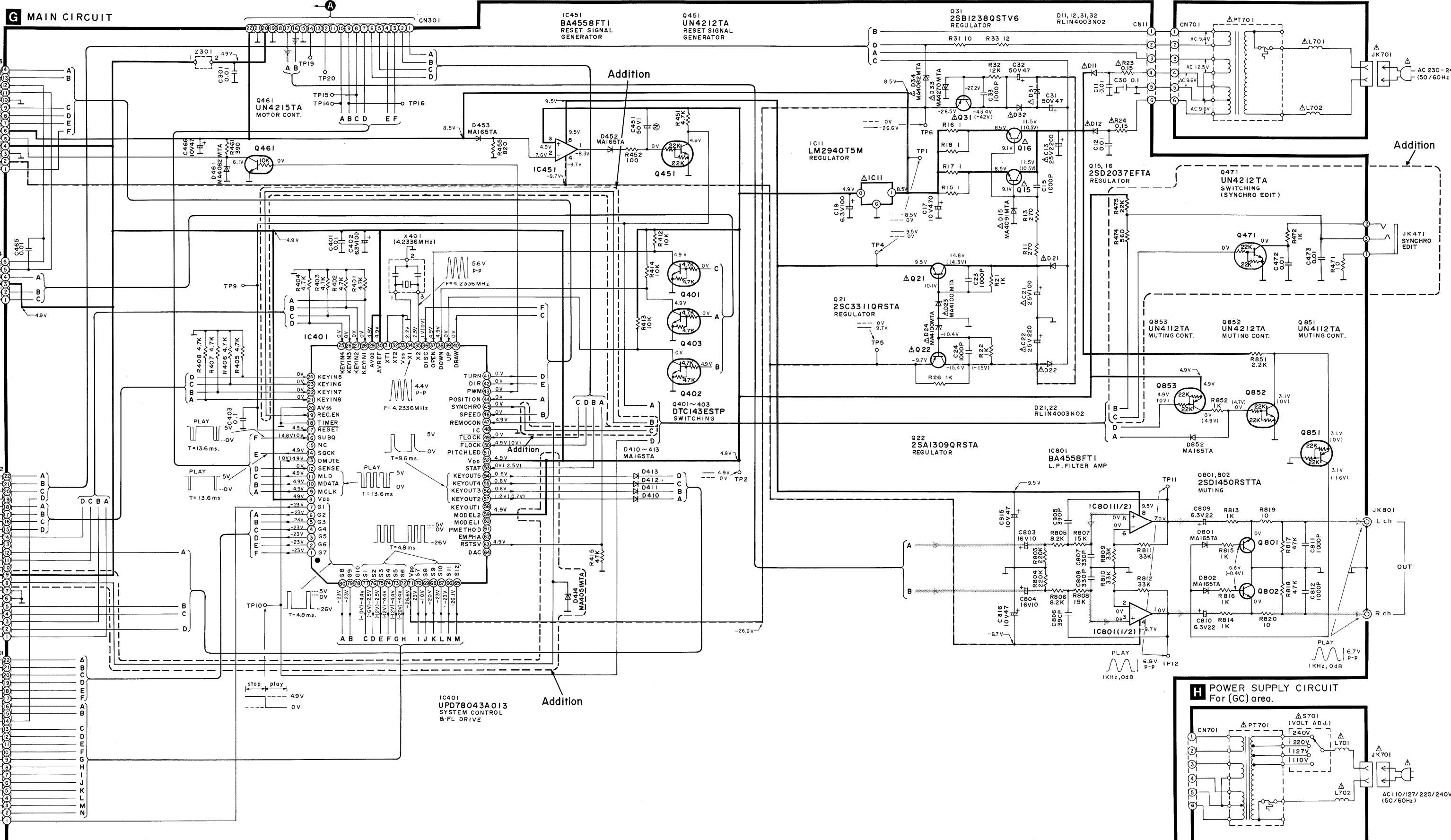
IC and LSI are sensitive to static electricity. Secondary trouble can be prevented by taking care during repair.

- Cover the parts boxes made of plastics with aluminum foil.
- Ground the soldering iron.
- Put a conductive mat on the work table.
- Do not touch the pins of IC or LSI with fingers directly.

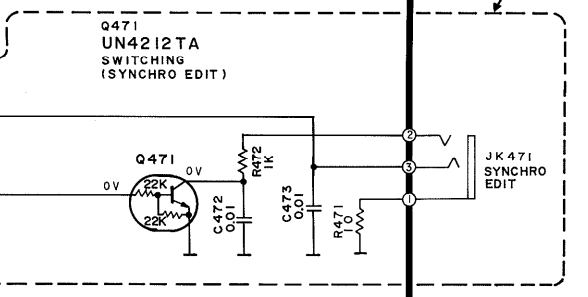
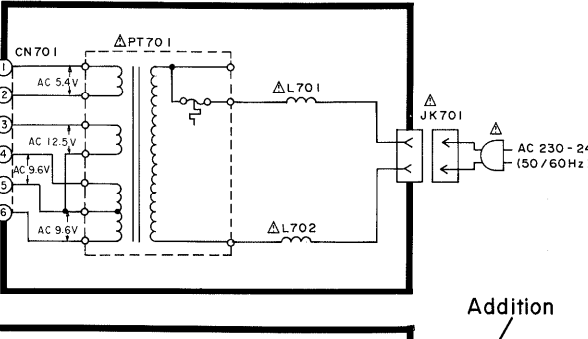


5 6 7 8 9 10 11 12 13 14

G MAIN CIRCUIT

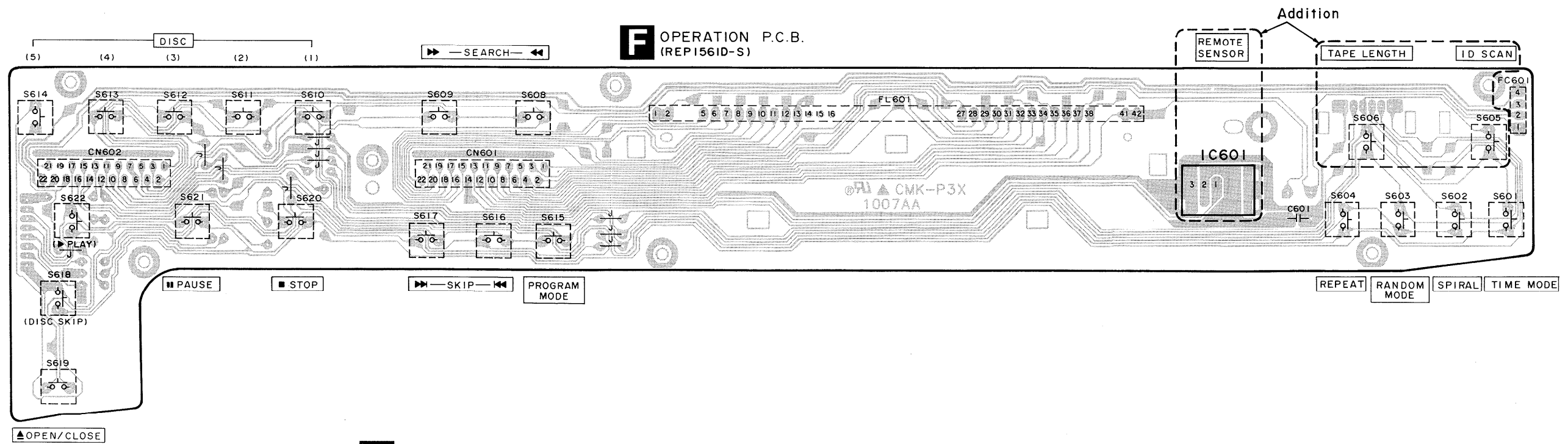


H POWER SUPPLY CIRCUIT For (E,GN) areas.

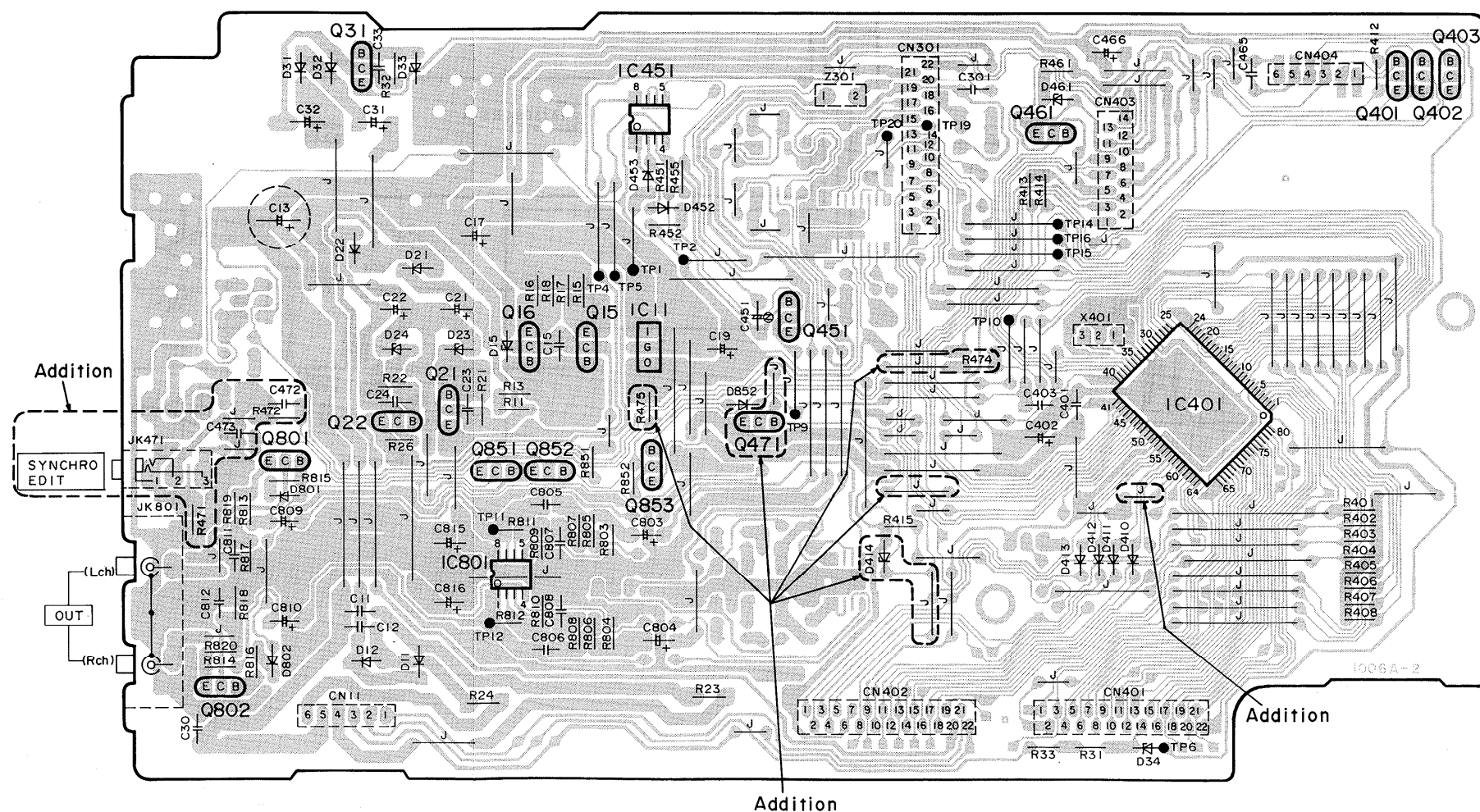


PRINTED CIRCUIT BOARDS (page 41, 42 of Service Manual.)

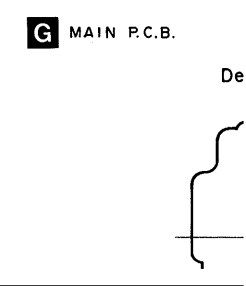
A
B
C
D
E
F
G



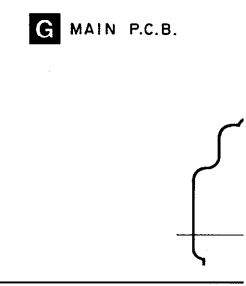
MAIN P.C.B. (REP1560E-M)



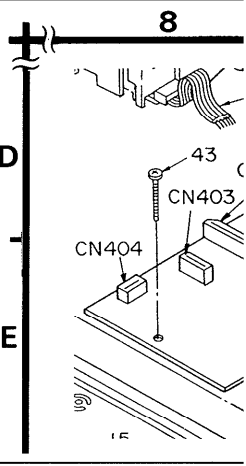
WIRING CO (page 44 of Servi SL-PD647 (E)



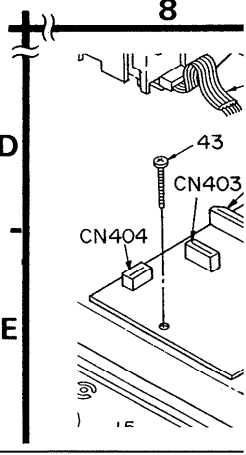
SL-PD847 (E,

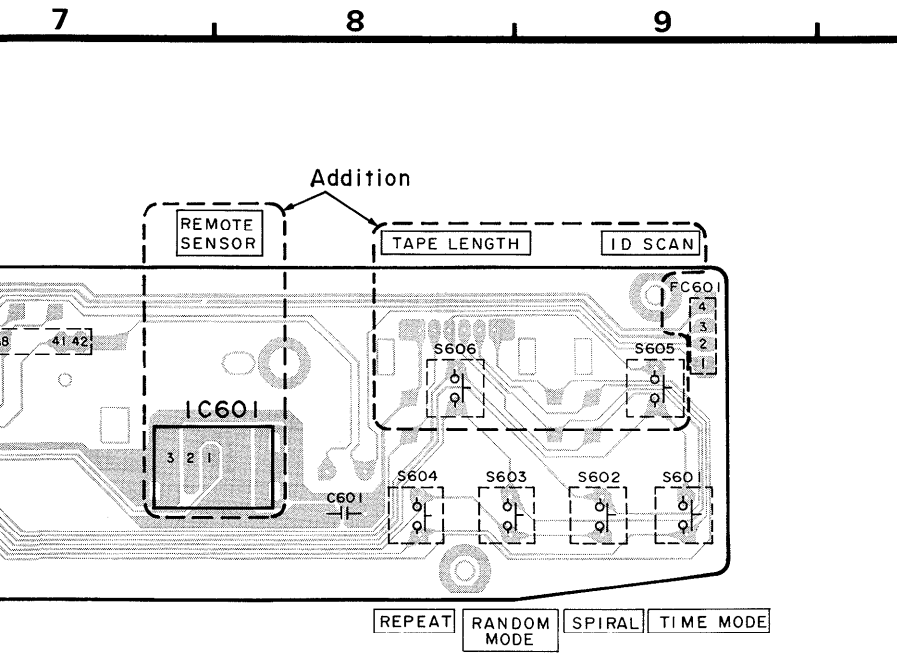


EXPLODED (page 50 of Servi SL-PD647 (E)



SL-PD847 (E,

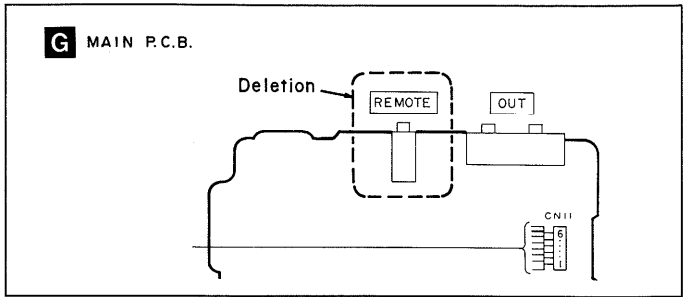




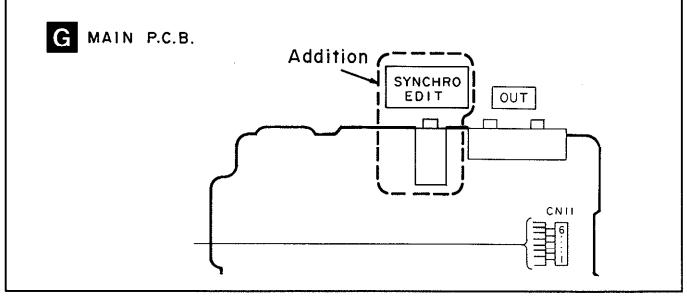
WIRING CONNECTION DIAGRAM

(page 44 of Service Manual.)

SL-PD647 (E)



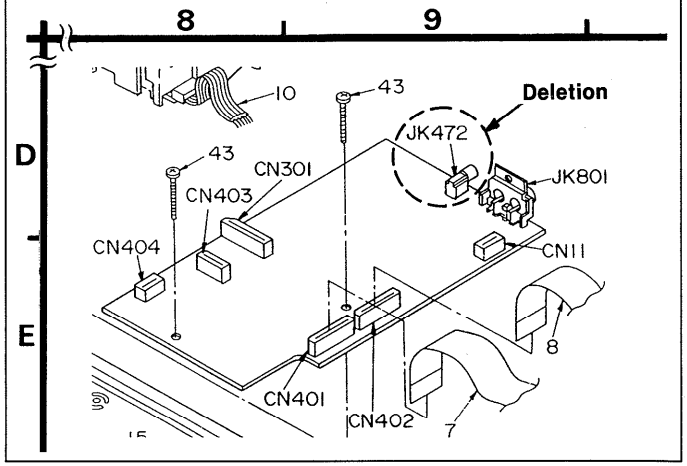
SL-PD847 (E, GC, GN)



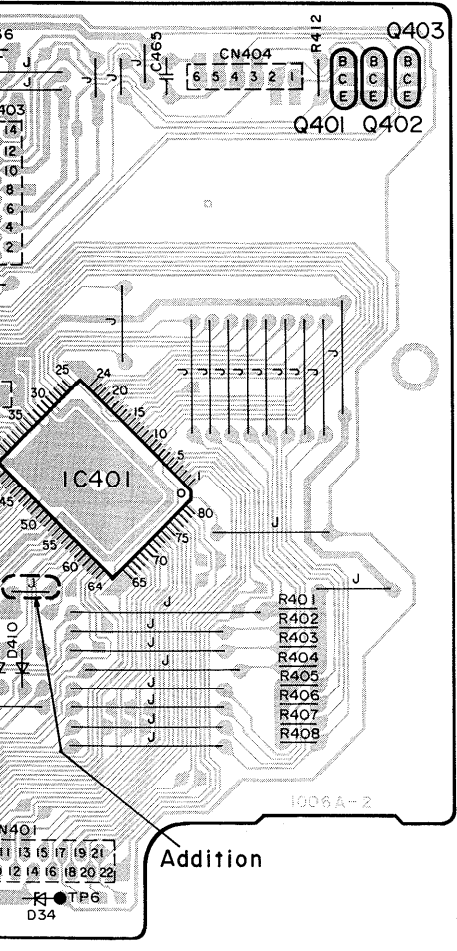
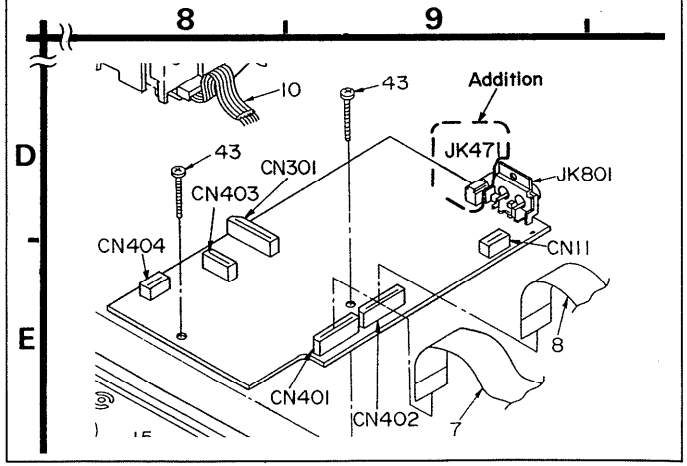
EXPLODED VIEWS

(page 50 of Service Manual.)

SL-PD647 (E)

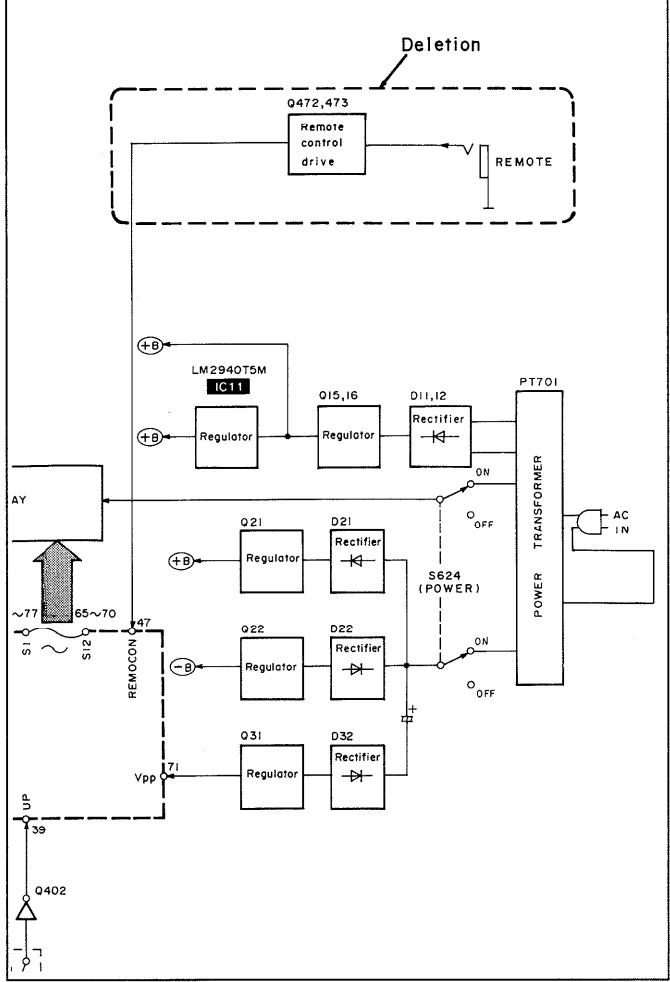


SL-PD847 (E, GC, GN)

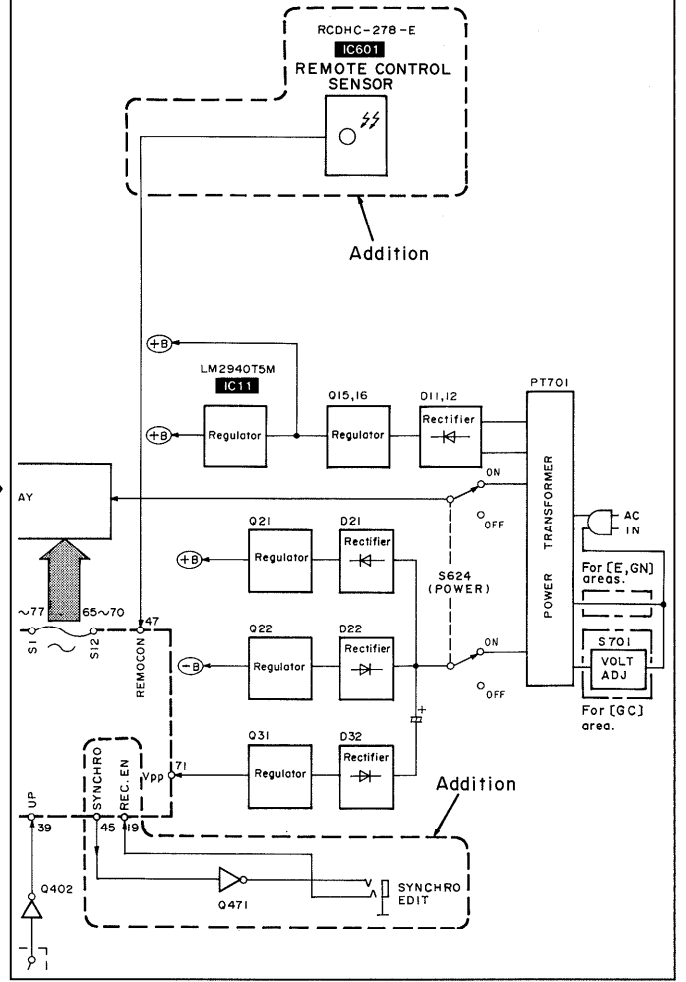


BLOCK DIAGRAM (page 33 of Service Manual.)

SL-PD647 (E)

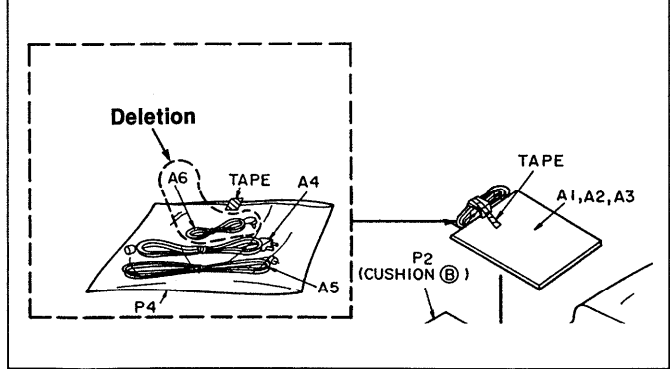


SL-PD847 (E, GC, GN)



PACKAGING (page 47 of Service Manual.)

SL-PD647 (E)



SL-PD847 (E, GC, GN)

