

TECHNICAL REPORT

(Blue)

DATE. Jul. 30, 1982

NO. C-708

MODEL. EL,CS,OS,CE,
PC Printer

Parts Change (VOL. 26)

Industrial Instruments Group
Reliability & Quality Control Department.

No.	Model	Area	Current		New			Time of change (from		prod of)	Parts supply
			Parts code	Price rank	Parts code	New mark	Price rank	Interchangeability			
								Description			
1	EL-318 EL-505H EL-512 EL-5103	All countries	PPAPM1025CCZZ	AA	(Abolished)	-	-	Memo pad	-	Jul.	E
2			-	-	PCUSG1149CCZZ		AA	Cushion	-	Mid-Feb.	C
3	EL-5194	All countries	PCUSG1149CCZZ	AA	(Abolished)	-	-	Cushion	-	Jun.	E

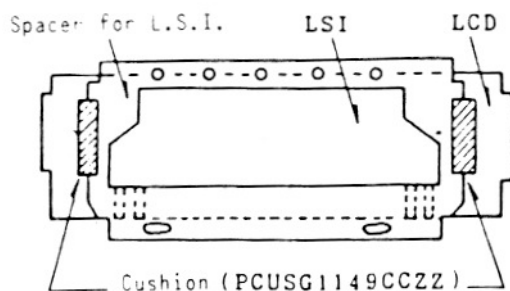
1. Interchangeable.
 2. Current type replaceable with new type.
 3. New type not replaceable with current type.
 4. Current type not replaceable with new type.
 5. New type replaceable with current type.
 6. Not interchangeable.
 7. Interchangeable if replaced with same types of related parts in use.
 8. Others. Refer to the textual explanation.

A: After the stock of the current parts runs out, we will supply the new parts.
 B: Both parts, current and new, will be in supply.
 C: New parts will be in immediate supply.
 D: Both parts, current and new, will be in supply, however, until the new parts will be in supply after the stock of the current parts runs out.
 E: Current parts is in supply.

(Changes)

1. Discontinued use of memo pad

2. Adoption of cushion

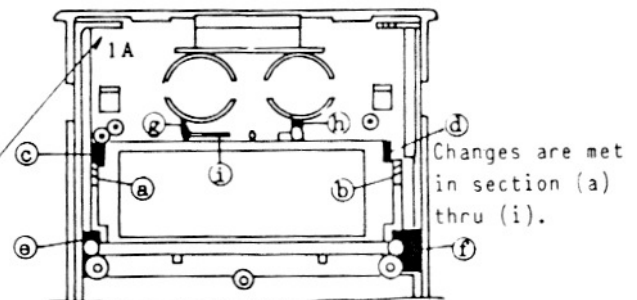


OLD	1 or 2
NEW	1A or 2A

3. Discontinued use of cushion

Use of the cushion will be discontinued due to structural change in the top cabinet.

* Change in the top cabinet



* Interchangeability

Cushion Top cabinet	Used	Not used
Old	Yes	No
New	No	Yes

NOTE: There is no parts code change for the top cabinet.

1/40

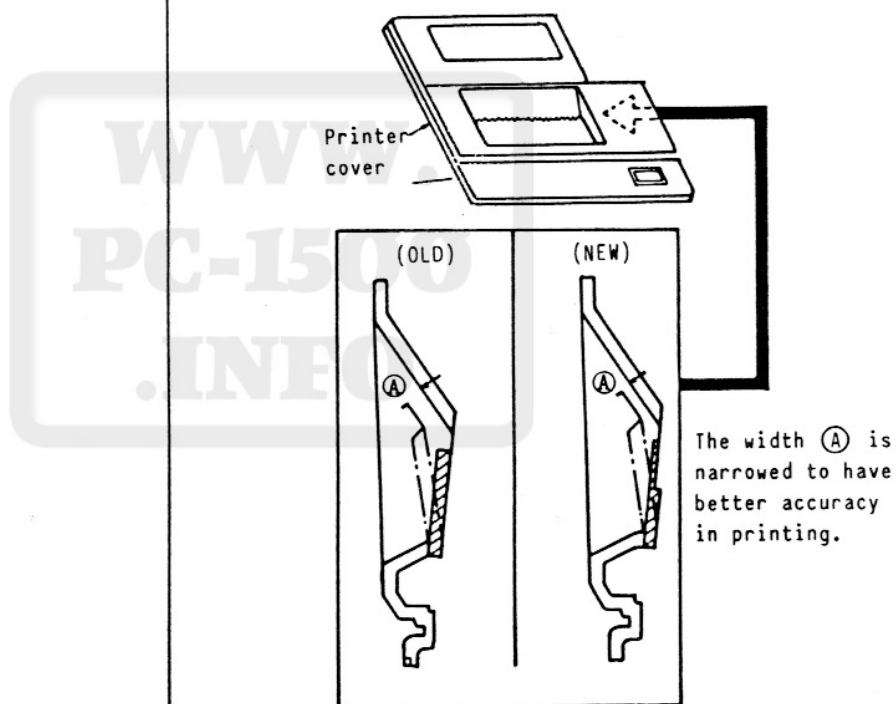
No.	Model	Area	Current		New			Time of change (from			Parts supply
			Parts code	Price rank	Parts code	New mark	Price rank	Interchangeability		prod of)	
								Description			
4	CS-1183 QS-1183	All countries	VVK11ST28//-1	AX	VVKFiP11D6A-1		AV	Display tube	1	Jul.	D
5	EL-1193	All countries	VVK11ST28ZA-1	AW	VVKFiP11D6A-1		AV	Display tube	1	Jul.	D
6	CE-150	All countries	CCOVA1335CC01	AE	CCOVA1356CC01	N	AP	Printer cover	3	Mid-Jul.	D
7	PC-1500	All countries	VHiSC613128FN	BH	VHiSC613128F4	N	BF	ROM	4	Mid-Jun.	B

(Changes)

4. Structural change

5. Change in manufacturer

6. Structural change



(Side view from inside of the printer cover)

7. Change in ROM specification

[illegible]

No.	Changed subject	Old SC613128 A01 or SC613128 A03	New SC613128 A04
4	INPUT #	When variables named by two letters (for example, like "AA" or "BC\$") are used in INPUT # statement, the variables must be specified in the data area beforehand. If not specified, ERROR 43 will occur. (This is not applied to array variable.)	It is not necessary to specify two letter variables in the data area beforehand. (This is not applied to array variable. The data array variable must first be dimensioned, using DIM.)
5	USING	When putting USING clause with numeric variables such as AA, CF, B2 so on, ERROR message may not appear.	When putting USING clause with numeric variables, ERROR 7 will occur.
6	AND OR NOT	If AND, OR and NOT are executed in addition to the results of previous AND, OR and NOT, the symbol(--) must be added. (Example) A OR --(NOT 2)	It is not necessary to add the symbol(--). (Example) A OR (NOT 2)

PC-1500
.INFO

No.	Model	Area	Current		New			Time of change (from			Parts supply
			Parts code	Price rank	Parts code	New mark	Price rank	Interchangeability		prod of)	
								Description			
8	PC-1500	All countries	DUNTK6381CCZZ	CA	DUNTK6814CCZZ	N	CA	Key PWB unit	6	Jul.	D
9			DUNTK6382CCZZ	BX	DUNTK6815CCZZ	N	BU	Operation PWB unit	6	Jul.	D
10			RH-DZ1008CCNI	AC	(Abolished)	-	-	Diode DAN202	6	Jul.	E
11			VRS-IP2BD562J	AA	(Abolished)	-	-	Resistor 1/8W 5.6k ohm	6	Jul.	E
12			-	-	VRS-IP2BD105J		AA	Resistor 1/8W 1M ohm	-	Jul.	C

(Changes)

8. Changes in key PWB unit

Use of jumper wire and circuit pattern cut applied to prevent *display of unnecessary segments in LCD are discontinued.

Also, disuse of jumper wire and change in printed circuit pattern are executed for the change of the RAM R/W signal circuit. For more details after the change, refer to "PC-1500 Key PWB (from the July 1982 production)" that will be issued separately.

- * When switch on, all segments appear and can be always seen as the digit 8. Therefore other digits except 8 will be illegible for unnecessary segments displayed.

9 & 12. Change in Operation PWB unit

Seven pieces of 1M ohms, 1/8W, chip type resistors are inserted to prevent the unnecessary segments-display in the LCD. Also, use of the jumper wire is discontinued. This involves change in the circuit pattern. For details after the change, refer to "PC-1500 Operation PWB (from the July 1982 production)" that will be issued separately.

(Circuit change to prevent the unnecessary segments-display in the LCD)

Production month	Key PWB	Operation PWB
Up to February	-	-
March	-	Seven pieces of 1M ohm, 1/8W, resistors are inserted between HO-6 and Vdisp for the machine in problem of the unnecessary segments-display.
April thru June	Cut in the printed circuit pattern and insertion of jumper wire.	-
July and after	-	Seven pieces of 1M ohms, 1/8W, chip type resistors are inserted between HO - 6 and Vdisp.

-Interchangeability-

Except preventive measures for the unnecessary segment-display in LCD, there is interchangeability between the old and new types of the Key PWB unit and Operation PWB, respectively.

°Interchangeability in connection with preventive measures for the unnecessary segment-display in LCD

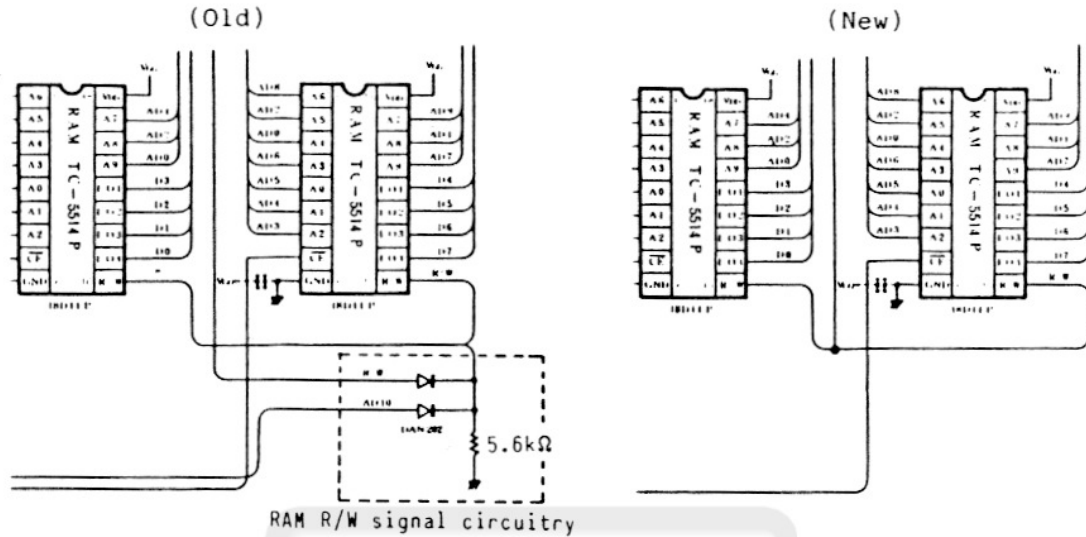
Operation PWB Key PWB	w/o preventive measures	w/preventive measures
w/o preventive measures	No	Yes
w/preventive measures	Yes	Yes

°Identifying preventive measures for the unnecessary segment-display in LCD

PWB	w/o preventive measures		w/preventive measures	
	Production date (parts code)	Reference material	Production date (parts code)	Reference material
Key PWB	Before the Mar. 1982, production (part of DUNTK6381 CCZZ)	PC-1500 Service Manual and PC-1500 Key PWB (from the Feb. 1982 production)	Apr., May, and Jun., 1982, productions (part of DUNTK 6381CCZZ)	PC-1500 Key PWB (from the Apr. 1982 production)
	After the Jul. 1982, production (DUNTK 6814CCZZ)	PC-1500 Key PWB (from the Jul. 1982 production)		
Operation PWB	Before the Mar. 1982, production, except for the machine on which the unnecessary segment-display in LCD is observed (part of DUNTK6382CCZZ).	PC-1500 Service Manual	Part of the Mar., 1982 production (part of DUNTK6382 CCZZ).	PC-1500 Service Manual and T/R C-706.
			After the Jul. 1982, production (DUNTK6815CCZZ)	PC-1500 Operation PWB (from the Jul. 1982 production)

10 & 11. Discontinued use of RAM R/W signal circuit

Because a ROM that incorporates the RAM R/W signal circuitry (SC613128 A03 or A04) is used from the top of July production, the use of the present circuitry will be discontinued. SC613128 A03 can be used for the machine before the June production.



-Interchangeability between SC613128 ROM and RAM R/W signal circuitry-

R/W signal circuitry ROM	Used	Not used
SC61328 A01	Yes	No
SC61328 A03 or SC61328 A04	Yes	Yes

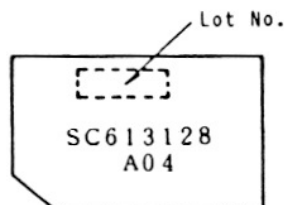
NOTES: (1) ROM parts code

°SC61328 A01 } VHiSC61328FN
°SC61328 A03 }

°SC61328 A04: VHiSC61328F4

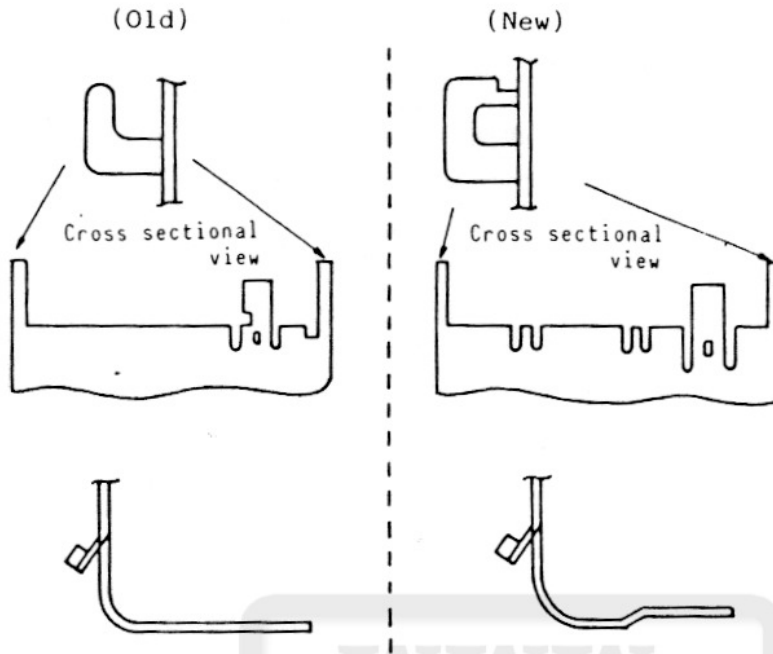
(2) ROM name indication

(Example)

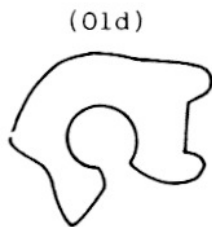


16. Structural change

Shape of the frame unit. paper guide is changed.



17. Structural change



(New)

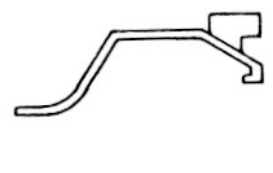


18. Structural change

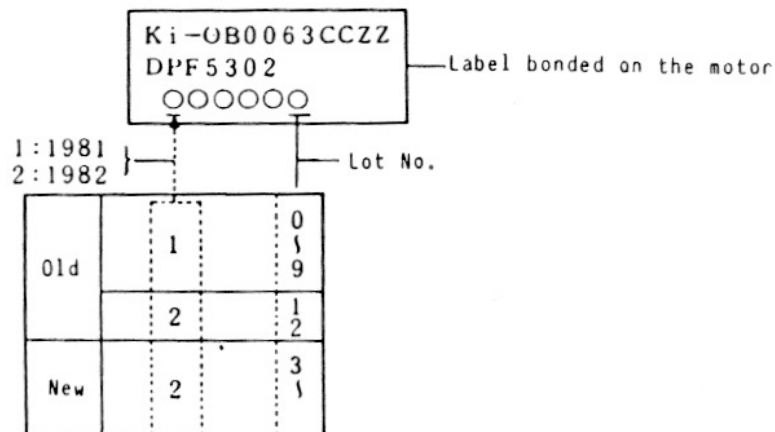
(Old)



(New)



-Identifying the printer units of No.16 thru No.18-



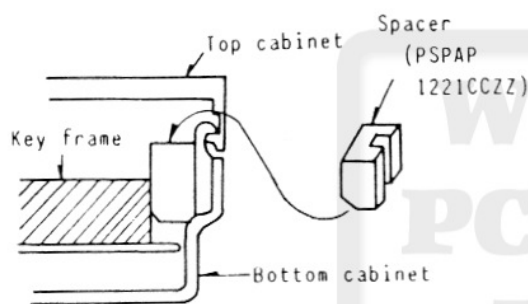
No.	Model	Area	Current		New			Time of change (form		prod of)	Parts supply
			Parts code	Price rank	Parts code	New mark	price rank	Interchangeability			
								Description			
19	CS-1122 CS-2122	CANADA	GCABB2613CC01	AM	GCABB2613CC03	N	AM	Top cabinet (for CANADA)	-	*	C
20			-	-	PSPAP1221CCZZ	N	AE	Spacer	-		
21	CS-1122		PFI1W1400CC02	AE	PFI1W1400CC04	N	AK	Display filter	-		
22	CS-2122		PFI1W1400CC01	AE	PFI1W1400CC03	N	AK	Display filter	-		

.* From the first production lot.

(Changes)

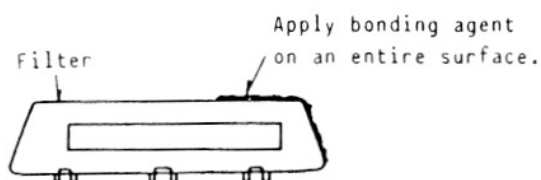
19. Structural change

20. Adoption of spacer

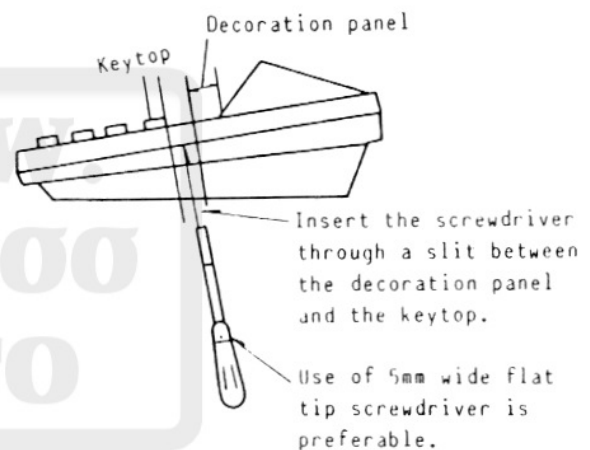


21 & 22. Material change

Top cabinet will be bonded with the filter using the bonding agent (#565) over an entire joint surface, instead of latches.



Opening the top cabinet for the Canadian model



Insert the flat-tip screwdriver with an inclination of about 45° against the side of the cabinet.

