TECHNICAL REPORT

[Blue]
DATE. Oct. 4, 1982
NO. C-711
MODEL. CS,QS,EL,PC,CE Printer

Industrial Instruments Group
Reliability & Quality Control Department.

PARTS CHANGES (VOL.28)

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	CS-1122 CS-2122 QS-1122 QS-2122	U. S. A.	GCABB2613CC01	AM	GCABB2613CC03	N	AM	Top cabinet (for U.S.A., CANADA)	1	Sep.	D
2	EL-1124 EL-2124 QS-2124	All countries	VHiSC43525F01	AZ	VHiSC43526F01	N	BA	L. S. i	3	Aug.	D
3	EL-515	All countries	VHiSC43525A01	AZ	VHiSC43526A01	N	BA	L. S. i	3	Aug.	D

1: Interchangeable.
2: Current type replaceable with new type.
New type not replaceable with current type.
3: Current type not replaceable with new type.
New type replaceable with current type.
4: Not interchangeable.
5: Interchangeable if replaced with same types of related parts in use.
6: 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, only the new parts will be in supply after the stock of the current parts runs out.
E: Current parts is in supply.

(Changes)

1. Structural change

To satisfy the CSA Requirements on machines for Canada, structural change will be made for the latch of the top cabinet.
Because the same top cabinet is employed for U.S. and Canada, the parts code for the U.S. item will be revised exactly same as the one for Canada which has already been revised before.

2 & 3. Revision in CA key performance

(Current type)

In case if the CA key is depressed in a middle of operation, the display may be not cleared away but show random numbers.
So further depression of the key is necessary to clear the display.

(New type)

Even if the CA key is depressed during the operation, the display will be completely cleared away.

No.	Model	Area	Current		New			Time of change (from prod of)		Parts supply
			Parts ocde	Price rank	Parts code	New mark	Price rank	Interchangeability Description		
6	EL-218K (NEW) EL-220 (S) (NEW) EL-508A	All countries	QTANZ1325CCN1	AA	QTANZ1409CCZZ	N	AA	Battery terminal +	1	Sep.	D
7			QTANZ1326CCN1	AA	QTANZ1410CCZZ	N	AA	Battery terminal -	1		
8	PC-1500	All countries	VHiMA1066//-1	AT	VHiMA1066//-1		AT	IC (Power regulator)	1	Aug.	B
					VHiEHM718L70N		AT				
9	CE-150	All countries	-	-	TCAUH1195CCZZ	N	AB	Caution label	-	Aug.	C

(Changes)

6 & 7. Structural change

In order to attain shared use with those of other models, a change is made for the structure of battery terminal which is connecting to the LSI.

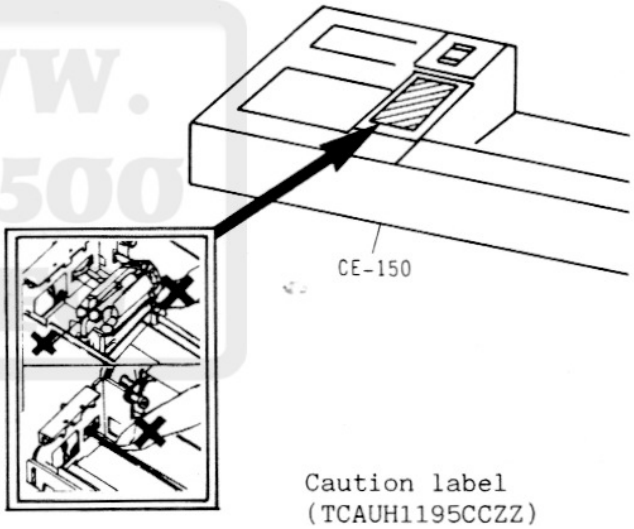
(Current) | (New)

8. Use of two kinds of power regulator IC's for the same model

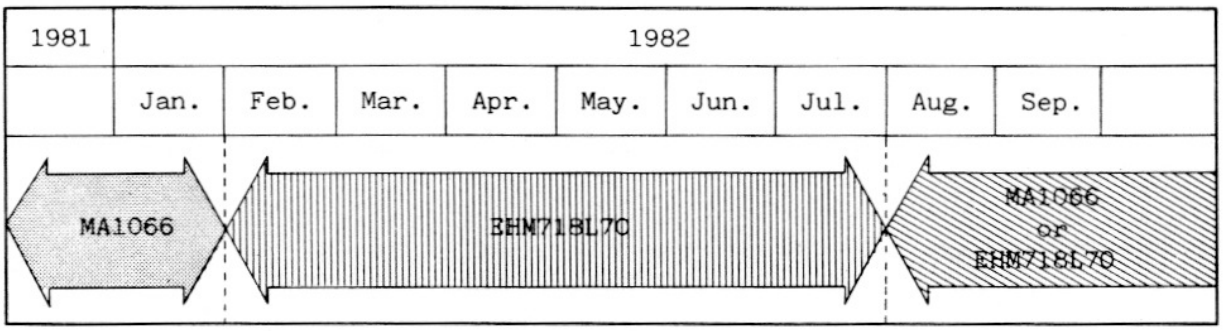
Although different power regulator IC's were used as described below, two kinds will be mixedly put into use effectively from the August production. Since pin configuration and internal circuit are the same for both types, there will be no problem at all when either one is used for servicing.

9. Adoption of caution label

A caution label will be used on the location under the printer cover (see figure below).



Caution label
(TCAUH1195CCZZ)

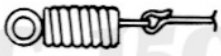


No.	Model	Area	Current		New			Time of change (from prod of)		Parts supply
			Parts code	Price rank	Parts code	New mark	Price rank	Interchangeability Description		
13	CE-153	All countries	PGUMS1410CCZZ	AB	PGUMS1416CCZZ	N	AC	Rubber foot	1	May	A
14	Printer DPG1301 (CE-150)		00PDG020/////	AF	00P17-0013-01	N	AF	Wire unit	3	Mid-Jul.	D
15			00PDG013-02//	AK	00PDG069/////	N	AK	Bobbin gear unit	1	Mid-Aug.	A

13. Structural change

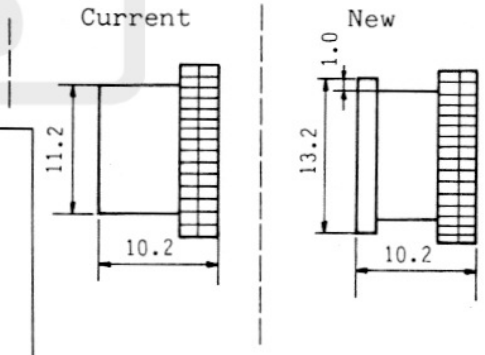
14. Material change

To increase margin for the life of the printer, different material will be used for the carriage drive wire unit.

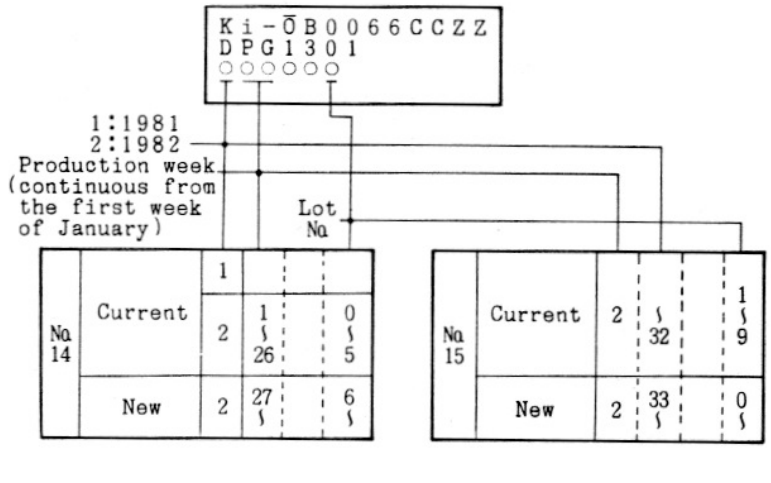
	Current type	New type
Material of wire	Tetron	Stainless steel
Color of wire	White	Black
Outer diameter of wire	Ø 0.4	Ø 0.36
Spring structure		

15. Structural change

In order to attain shared use of the parts with those of other models, change is met in the structure of the bobbin gear.



(Distinction between the printer units, No. 14 and No. 15)



P. S. As there have been an erroneous description in the T/R C-708 "PARTS CHANGES (Vol. 26)", make correction as in the following.

<table>
<tr><td>Page</td><td></td><td></td></tr>
<tr><td rowspan="2">3/10</td><td>Wrong</td><td>
<table>
<tr><td>No.</td><td>Old
SC613128 A01 or SC613128 A03</td><td>New
SC613128 A04</td></tr>
<tr><td>1</td><td>*Radian or gradient mode
When calculate SIN π/18, COS π/18, TAN π/18, please it as A=π/18 first, then compute as SIN A, COS A and TAN A reapectively.</td><td>*Radian or gradient mode
You can compute directly as SIN π/18, COS π/18 and TAN π/18.</td></tr>
</table>
</td></tr>
<tr><td>Correct</td><td>
<table>
<tr><td>No.</td><td>Old
SC613128 A01 or SC613128 A03</td><td>New
SC613128 A04</td></tr>
<tr><td>1</td><td>*Radian mode
When calculate SIN π/18, COS π/18, TAN π/18, please it as A=π/18 first, then compute as SIN A, COS A and TAN A reapectively.
----
*Gradient mode
When calculate SIN 20/18, COS 20/18, TAN 20/18, please it as A=20/18 first, then compute as SIN A, COS A and TAN A reapectively.</td><td>*Radian mode
You can compute directly as SIN π/18, COS π/18 and TAN π/18.
----
*Gradient mode
You can compute directly as SIN 20/18, COS 20/18 and TAN 20/18.</td></tr>
</table>
</td></tr>
</table>