

1993. 10. 1 1

KES

Technical Drawing-Sizes And Format of Drawings

KES A-B201A

(EST.) 1987-04-01

(REV.) 1991-03-02

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1. Scope of Application

This standard specifies the automobile part Engineering drawing.

2. Definition of Terminology

(1) Simplified drawing

It is the drawing that instructs to follow the original drawing unless it is changed.

In the case where parts of the original drawing are changed with new parts.

(2) Standard drawing

The original drawing that is the standard of the simplified drawing.

(3) Multi-use drawing

It shall conform to KES A-B202(Making Method of Multi-Use drawing)

(4) Frame

Because it is impossible to put a drawing of LONG SIZE(A01) in one picture of micro-film, it has to be put into 2 or 3 pictures. Frame means each picture.

(5) Overlapping lines

When copying a Long Sized drawing which was separately photographed in microfilm, overlapping lines are used to easily put them together in case they overlap.

(6) GRID(Datum line)

When drawing up parts or parts groups on a drawing, datum line indicates a perspective box which is used to make the positioning relation with an automobile body clear..

3. Size of Drawing

3.1 The dimension of AO-A4(Standard size) and AOL(Long Size) drawings are the same as table 1. and only in A0, it is possible to extend lengthwise.

3.2 The correct position of the drawing is such that the longer side is the horizontal side. However, for A4, the longerside is the vertical side for the correct position.

4. Outline of Drawing

4.1 The Size of outline

Outline shall be made on a drawing as shown in Table

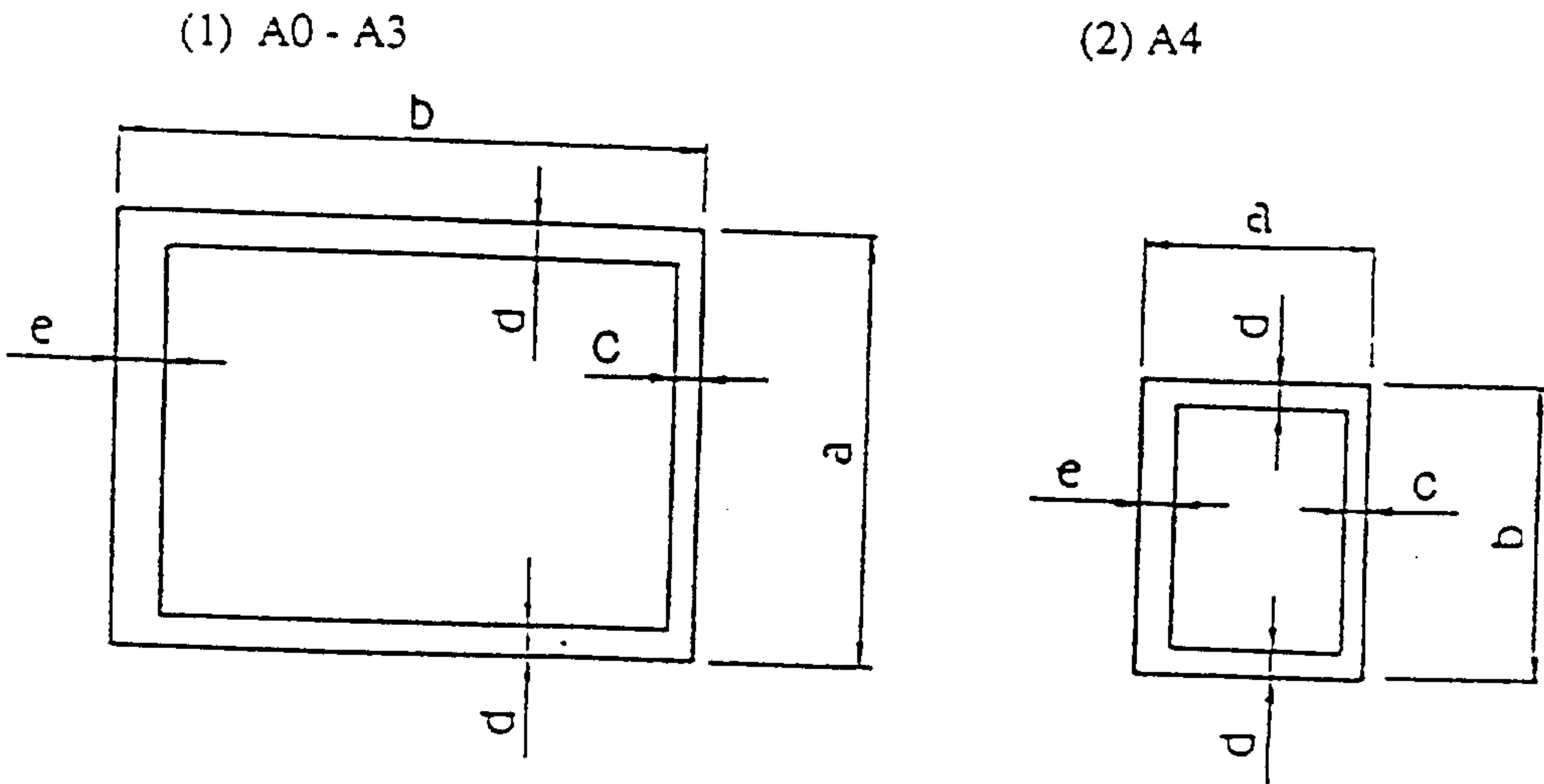
Table 1.

Size	Standard Size					Long Size			
	A4	A3	A2	A1	A0	A0L			
a × c	210 × 297	297 × 420	420 × 594	594 × 841	841 × 1189	841 × 1689	841 × 2278	841 × 2778	841 × 3367
c	10	10	15	20	25	25	25	25	25
d	10	15	15	15	20	20	20	20	20
e	25	25	25	35	45	45	45	45	45

4.2 Contour line

The contour line of a drawing shall be a continuous line of the thickness of 0.5mm or more

ex) a,b,c,d of Table 1 are as follows :



5. Title Column

5.1 In case of standard size drawing

5.1.1 Format

The format shall be as shown in Fig 1, and write in A1 of Attached Table 1 for A4-A2 and A0 of Attached Table 2 for A0.

rules											
special mention					No.	ECN No.	DATE	ON OFF	DWG.change No.	Note	BY
drawing											
dimension	material		SURF. TRT		PRO. DWG. No.						
quality					PRO. PART No.						
machining assembling					NAME						
dimension of related parts	DWG.DATE	WT	THK	Scale	DWG. No.						
					PART No.						
English	drawing	design		special	divisional	Angle.					
				manager	manager	3RD Projection					

Fig. 1

5.1.2 Position of Title Column

At the lower right corner inside the contour line

(1) A4

(2) A3 - A0

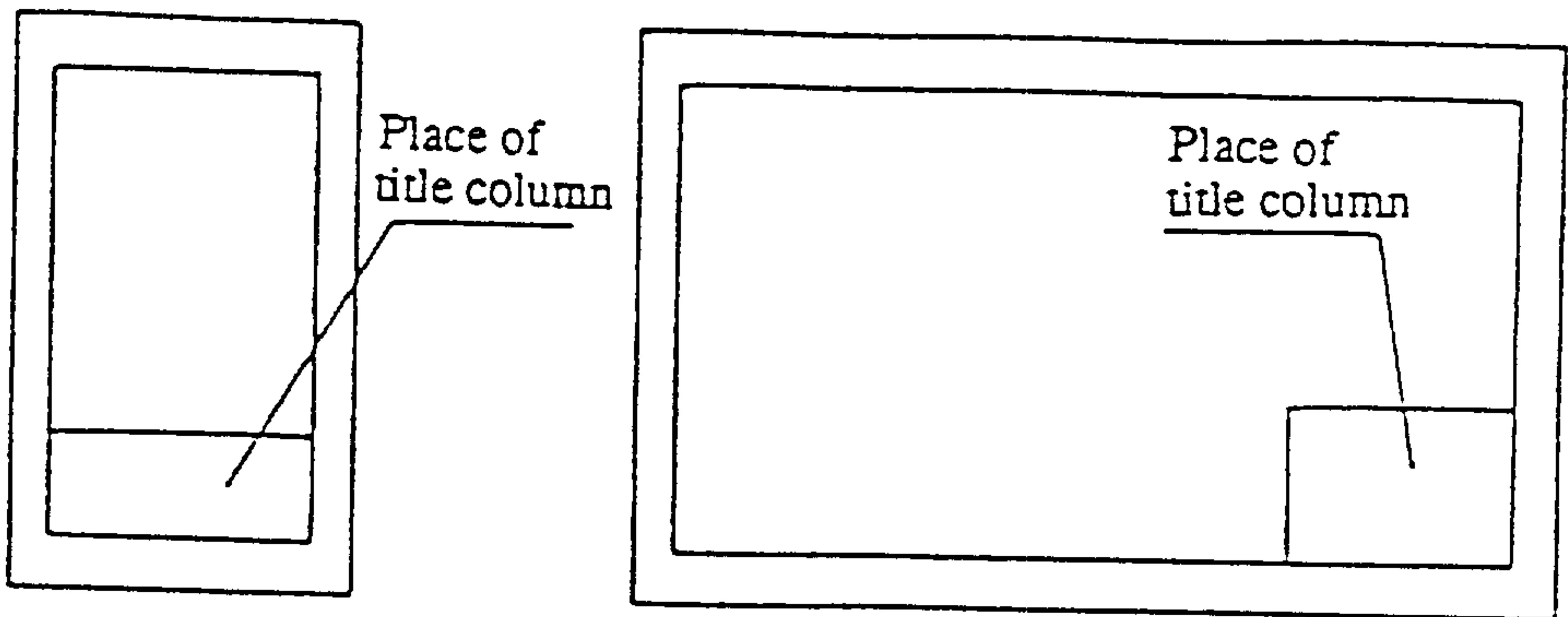


Fig. 2

5.1.3 Filling - in Method

The size of letters shall conform to the standard of letters used for engineering.

(1) Part number

The formal part numbers are filled in as follows.

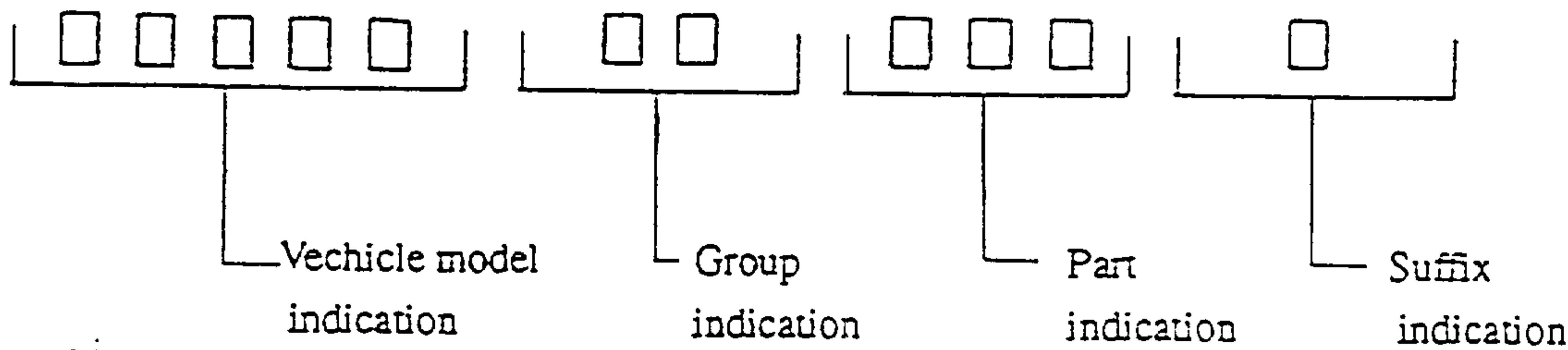
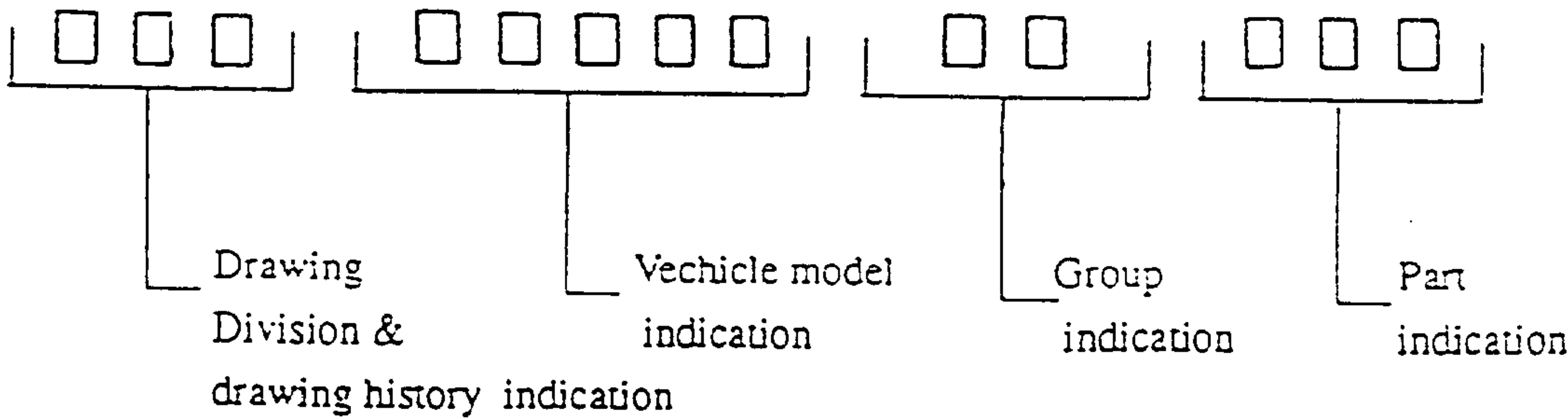


図 (DWG. No.) 部 (PART. No.)	KK201 53 250
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In case of the single drawing, the suffix indication shall be the newest and the old one shall be abolished.

(2) Prototype part number

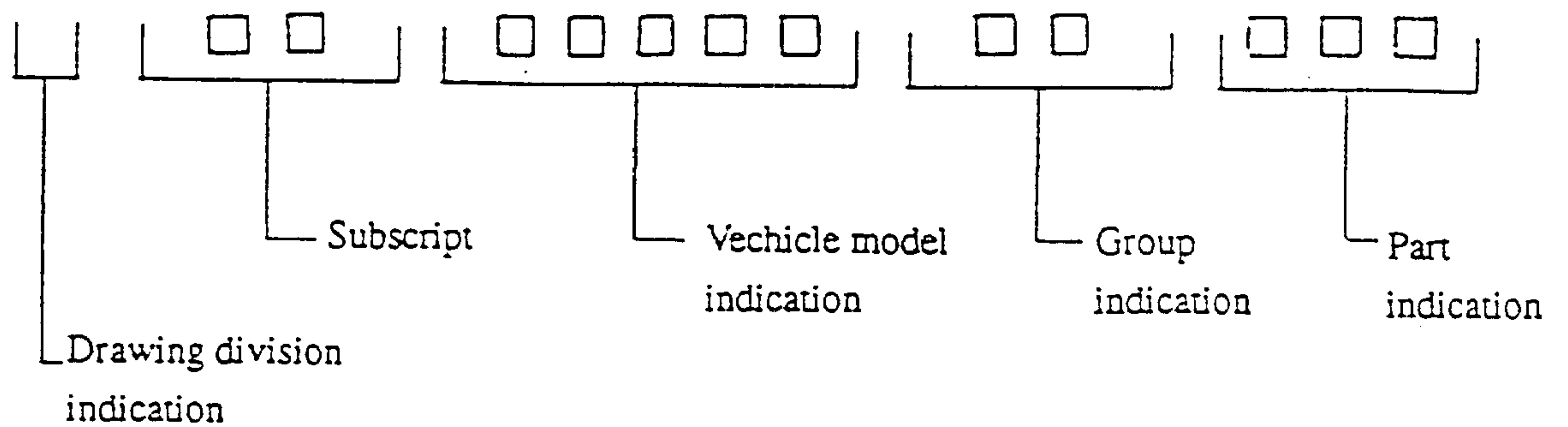
Prototype part numbers represented by symbols ZY are filled in as follows.



試作 図番 (PRO. DWG. No.) 試作 部番 (PRO. PART. No.)	Z02 KK201 53 250
---	------------------

(3) Drawing number

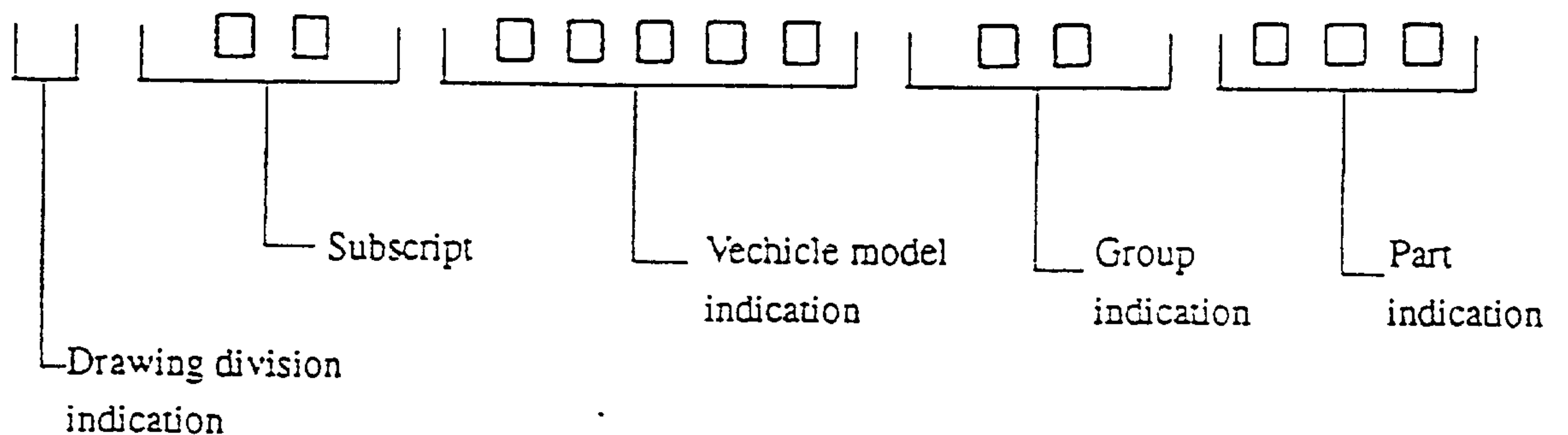
The formal drawing numbers are filled in as follows.



図番 (DWG. No.) 部番 (PART. No.)	T 0 2 K K 2 0 1 5 3 3 0 0
---------------------------------------	---------------------------

(4) Prototype drawing number(PRO. DWG. NO.)

Prototype drawing numbers are filled in as follows.



試作 図番 (PRO. DWG. No.) 試作 部番 (PRO. PART. No.)	S 0 2 K K 2 0 1 5 3 0 1 0
---	---------------------------

(5) Part (Name)

The name is filled in English as follows and the number of letters including . and blank shall be less than 20.

品名 (NAME)	H I N G E - F R O N T , L H
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(6) Material(MATERIAL)

Material is filled in on the basis of KS, but when there is no material that corresponds to KS, the material of KES is filled in like the following example.)

材 質(MATERIAL)
R-BB610

(7) Surface treatment(SURF. TRY)

Surface treatment is filled in on the basis of KS, but when there is no surface treatment which corresponds to KS, the surface treatment of KES is filled in like the following example.)

表面处理(SURF.TRT)
MFZn T1-C

(8) Thickness(THK)

The thickness of material is filled in like the example.)

板 厚(THK)
2.3 mm

(9) Weight (WT)

Weight of the part which is written on the drawing is filled in like the example.
(write down to three places of decimals)
example)

Weight(WT)
0.22 kg

(10) Drawing date(Dwg. Date)

Drawing date is filled in by the order of year, month and day like the example.

example :

作成日 (DWG.DATE)
91.01.25

(11) Scale(SCALE)

Scale of engineering is filled in like the example.

example :

尺度 (SCALE)
1 / 1

(12) Drawing history

(A) Drawing history number.

Drawing history number of a drawing is filled in orderly from the bottom like Ex.(1) and (2).

(B) Engineering changing number(E.C.N NO)

According to the numbering of engineering changing numbers, they are filled in like Ex. (1) and (2).

(C) Date

Like the by description date column of the announcement of engineering change, the date is filled in the order of year, month, and day like Ex. (1) and (2).

(D) ON, OFF(revision Code)

When ON or OFF of parts, whose engineering is changed in multi-use drawing, occurs ON or OFF is filled in like Ex.(2).

(E) Symbol of E.C.N

In case of the single drawing, this column is filled in like Ex.1.

(F) Note E.C.N

The summary of engineering changes of the original drawing is filled in like Ex.(1) and (2).

(G) Name of the engineer (BY)

The name of the engineer who changed the original drawing is filled in in Korean or Chinese characters like Ex.(1) and (2) use of signs not permitted.

Ex(1) Single drawing

△								
△								
△	1K-G011	91.01.21	-	B	φ8 — φ10			○
△	1K-G223	90.12.11	-	A	L = 20-25			○
No.	図案 No. (ECN No.)	年. 月. 日 (DATE)	ON OFF	図案 符号	図 案 内 容 (NOTE)			図案者 (BY)

Ex(2) Multi-use drawing

△								
△								
△	1K-G115	91.01.05	○	-	OFF 0 K202 53 300			○
△	1K-G131	90.12.27	○	-	ON 0 K201 53 300			○
No.	図案 No. (ECN No.)	年. 月. 日 (DATE)	ON OFF	図案 符号	図 案 内 容 (NOTE)			図案者 (BY)

(H) Processing method of drawing history

Drawing history is filled in from the lowest column up according to the chronological order.. In case all 7 columns have been filled like Ex.(3), erase all and rewrite the 7th column in the lowest column, then start again as shown in the example(4) below.

Subscript is the number of drawing history.

△	OK-G121	90 12 03						○
△	OK-G079	90 12 17						○
△	OK-G035	90 11 27						○
△	9K-G997	89 10 21	B					○
△	9K-G961	89 10 02						○
△	9K-G857	89 09 15	A					○
△	9K-G763	89 09 23						○
No.	図案 No. (ECN No.)	年. 月. 日 (DATE)	ON OFF	図案 符号	図 案 内 容 (NOTE)			図案者 (BY)

Ex(3)



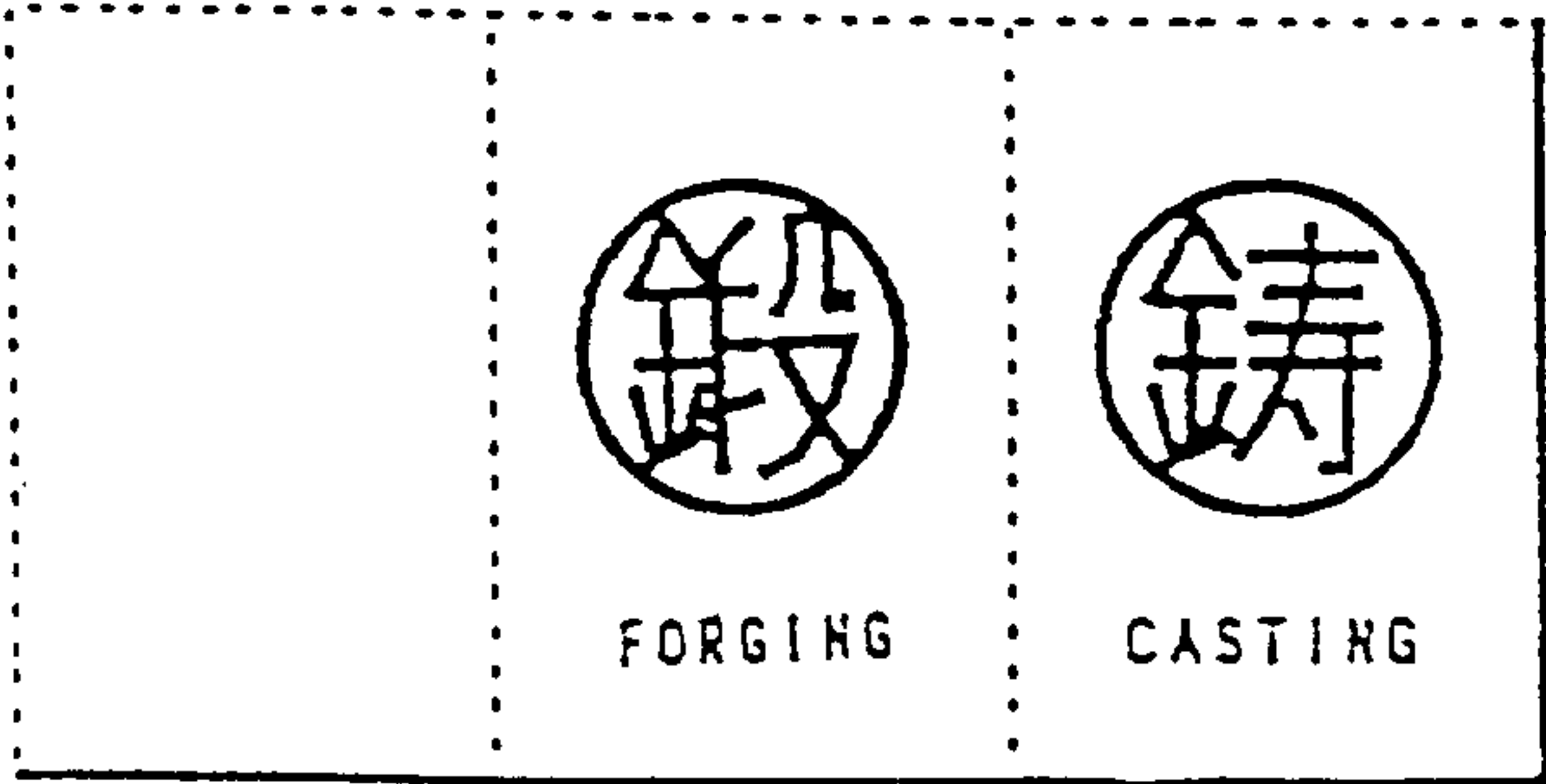
△								
△								
△								
△	1K-G079	91.01.30						○
△	1K-G015	91.01.10	C					○
△	OK-G121	90 12 03						○
No.	図案 No. (ECN No.)	年. 月. 日 (DATE)	ON OFF	図案 符号	図 案 内 容 (NOTE)			図案者 (BY)

Ex(4)

(13) Stamping division

Stamping column on drawing shall be stamped in the right side as shown below.

Example :



5.2 In case of LONG SIZE drawing

5.2.1 Format

In case of long size drawing, the title is filled in on right side of FRM, and the subtitle. on the other side of FRM.

(1) Title column

It shall conform to 5.1 (in case of standard size drawing)

(2) Subtitle column

It shall be as shown in Fig 3.

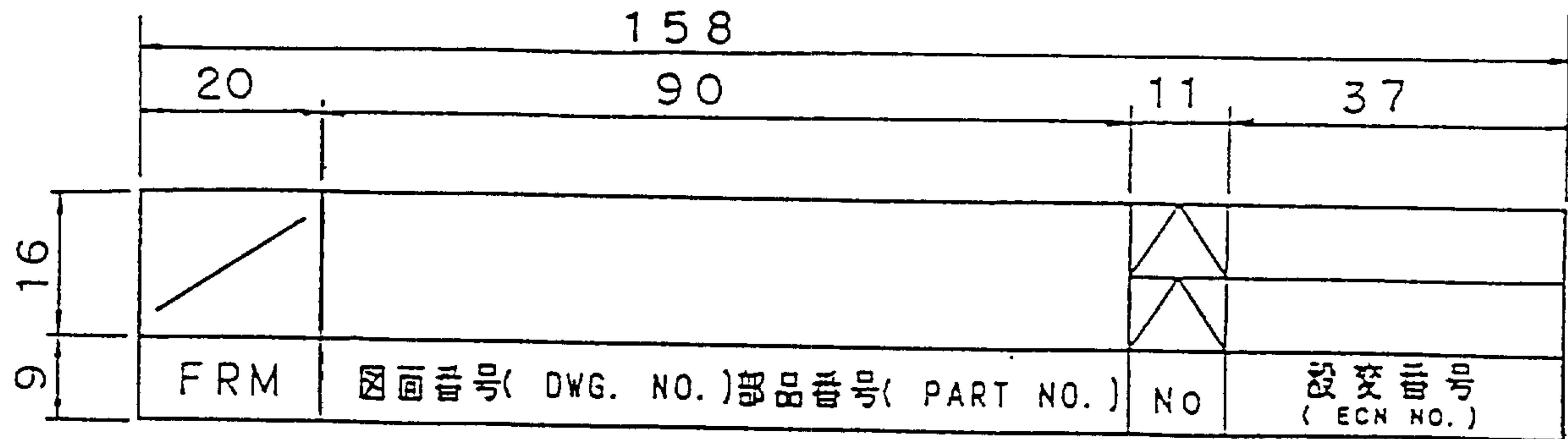
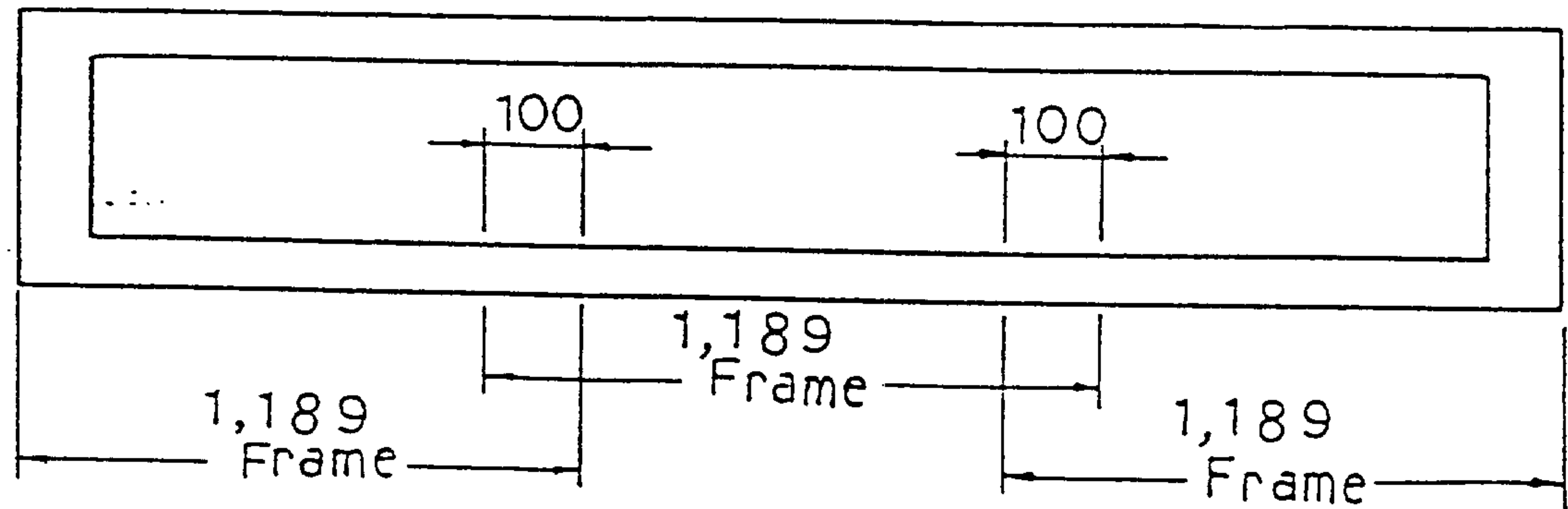


Fig.3.

note) The place of FRM is prescribed to be fixed according to the size of drawing.



5.2.2 Filling - in place

(1) Title column

It conforms to the standard in clause 5.1.(for standard size drawing).

(2) Subtitle column

It shall be filled in the place which is indicated Attached Table 4.

5.2.3 Filling - in Method

(1) Title column

It conforms to the standard in clause 5.1.