Proposal to encode: SYMBOL FOR TYPE A ELECTRONICS (replaces L2/18-058)

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11/05/2018

Introduction. This document is an updated version of L2/18-058 incorporating feedback given to me during UTC 155.

Use of the character. According to various sources, the character is also used in Japan to indicate that an electrical appliance is of the A type, while the CIRCLED POSTAL MARK (3036 \bigcirc) is used to indicate B type appliances. The distinction between the two is that of likelihood of accident. It is perhaps this reason why it was included in the Morisawa and Sha Ken glyph sets. It is unknown why the original version of the KPS 9566 standard included it or why it was removed in more recent versions.

Rationale for encoding. While it is no longer present in the most recent version of the KPS 9566 standard, that only means it is not required for roundtrip compatibility with newer versions, but potentially great amounts of legacy data (which may be of historical significance) may contain the symbol.

Its use as a marker of electrical compliance, while not a reason for encoding, it's a reason to consider since it seems arbitrary to encode one of the symbols but not the other.

Since the circled postal mark was encoded so soon, there is no document to refer to, for the original rationale, so perhaps it was included for reasons unrelated to the electrical national standard. But even the consortium recognizes the lack of semantic distinction by giving the CIRCLED POSTAL MARK a compatibility mapping to the POSTAL MARK (3012 $\overline{}$). In other words, whatever the reason for including the circled postal mark should be enough to include this symbol.

Why atomic encoding is better. The only methods to encode a glyph are as follows:

- Proprietary font
- Standardized Variation Sequence
- Grapheme cluster sequence
- Atomic encoding

The two first methods suffer from the same problem, in that there is no obvious base character to modify. One could suggest POSTAL MARK U+3012, but the presence of other enclosed characters has set the precedent several times, that enclosed versions of characters are not unifiable. Requiring users to map the character to another codepoint would be against the consortium's principles.

Another option is to compose it, but this would require the encoding of a COMBINING ENCLOSING DOWN POINTING TRIANGLE, and support for the enclosing characters is currently lacking, not just at the font level but at the rendering engine level. The consortium has encoded characters like the CIRCLED DIGIT ONE even though there was already a COMBINING ENCLOSING CIRCLE to compose it with. And this potential new character would only be used with the postal mark, so it is not ideal.

Name. During discussion, it was brought up that the name was not adequate because the character in question had nothing to do with postage, but this is however fallacious. The name was intended to adequately describe the glyph; indeed, a similar name was proposed by the DPRK in their original proposal (WHITE DOWN-POINTING TRIANGLE WITH POSTAL MARK). That's like saying that the name LATIN CROSS is inadequate, because the character in question has nothing to do with the verb "cross". The same way that cross is a generic term, so it's postal mark.

I can say with certainty that both North Korean and Japanese users would expect a name related to the postal mark, specially considering than in the proprietary glyph sets mentioned below it is placed adjacent to other postal mark symbols.

A possible alternative is DOWN TACK WITH OVERBAR ENCLOSED IN DOWN POINTING TRIANGLE, or JAPANESE SYMBOL FOR TYPE A ELECTRONICS, but the consortium should use the more expected name, whatever that might be, and for that, proper consultation with the national bodies should be made.

Following the feedback given by the ad-hoc, the proposed name is now: SYMBOL FOR TYPE A ELECTRONICS, however the original name (POSTAL MARK ENCLOSED IN DOWN POINTING TRAINGLE) is proposed as an informative alias.

Codepoint and reference. Following the ad-hoc recommendation, I no longer propose it to be in the Idepgraphic Symbols and Punctuation block, but at 1F1B0 in the Enclosed Alphanumeric Supplement block.

Entry.

1F1B0 ♥ SYMBOL FOR TYPE A ELECTRONICS

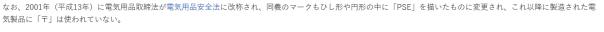
- = postal mark enclosed in down pointing triangle
- For type B electronics use 3036 🖶

郵便以外の〒マーク [編集]

郵便以外で利用される〒マークとして、次のようなものが存在する。

電気用品取締法 [編集]

家庭用電気製品やその他の電気器具について、電気用品取締法に基づく試験に合格した証印として、逆三角形(甲種)や円形(乙種)の中に「〒」を描いたマークが使われ ていた。その由来はかつて「逓信省電気試験所」が電気製品に関する試験を行っていたためとされている。なお、逓信省電気試験所は商工省に移管の後、電気試験業務は日 本電気計器検定所 (経済産業省所管) に引き継がれている。





1985年(昭和60年)より電話機やファックスなどの端末機器について電気通信事業法の技術基準適合認定として、また、1987年(昭和62年)より携帯電話端 末やPHS端末などの無線機器について電波法の技術基準適合証明として、「〒」を用いた円形マークを用いていたが、1991年(平成3年)に統一され、1995年 (平成7年)より稲妻のデザインと「干」を組み合わせた円形の**技適マーク**が使用されている。なお、2010年(平成22年)からは、印刷やラベル貼付以外に ディスプレイ表示させることも認められた。



旧電気用品 石

取締法・甲種

旧電気用品 凸

Figure 1. Entry on the japanese wikipedia page for the postal mark:

https://ja.wikipedia.org/wiki/%E9%83%B5%E4%BE%BF%E8%A8%98%E5%8F%B7

会[Ken Lunde (小林劍)

74E8

Following

「乙種電気用品」か「U+3036 🕏 CIRCLED POSTAL MARK」(左)と「甲種電気用品」(右)

6 Translate from Japanese T 1 00 963D 963E 963F 9640 74C8 74C9 74CA **74CB** O 964F 9652 9650 9651 74D8 74D9 74DA **74DB** T

Figure 2. Tweet by Ken Lunde demonstrating its inclusion in the Morisawa glyph set.

剣 Ken Lunde (小林剣) Following SK (写研) コードの「甲種電気用品」記号

74E9

74EA

74EB

2F74 --FCF4 グループ外字 2 F 7 5 × FCF5 グループ外字 2F76 00 FCF6 グループ外字 FCF7 グループ外字 2 F 7 8 FCF8 グループ外字 2 F 7 9 FCF9 グループ外字 2 F 7 A FCFA グループ外字 2 F 7 B 3 FCFB グループ外字 FCFC グル プ外字 2 F 7 D FCFD グループ外字 FCFE グループ外字 2F7E 2 F 7 F FCFO グループ外字 407 -

Figure 3. Inclusion in the SK code glyph set along with other already encoded characters such as POSTAL MARK FACE ■ and JAPANESE INDUSTRIAL STANDARD SYMBOL ﴿.).

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행렬	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
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2	«	>>	$\sqrt{}$	S	\propto	•.•	S	SS	§	€	€	\subseteq	⊇	\cup	\supset	∉	∌	⊈	⊉	Ø	$\not\supset$	U	\cap	\wedge
3	8	9								A	В	С	D	Е	F	G	Н	Ι	J	K	L	M	N	O
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5	Ц	Ч	Ш	Щ	Ъ	Ы	Ь	Э	Ю	Я														
6	Ω									α	β	γ	δ	3	ζ	η	θ	ι	κ	λ	μ	ν	ξ	0
7	24)	23	26	27	28	29	30			1	Ū	Œ	2	₪	(H)	(3)	0	Ø	3	ⅎ	€	교	3	•
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9	_	+		+	F	Т	4	工	+	٦	7	٦		L	L	Г	Г	-			H	4	4	\dashv
10	じ	す	ず	せ	ぜ	そ	ぞ	た	だ	ち	ぢ	つ	つ	づ	て	で	논	تع	な	に	ぬ	ね	の	は
11	ジ	ス	ズ	セ	ゼ	ソ	ゾ	タ	ダ	チ	ヂ	ツ	ツ	ヅ	テ	デ	ト	ド	ナ	=	ヌ	ネ	ノ	7)
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Figure 4. Original inclusion in the KPS 9566 standard:

https://web.archive.org/web/20 151125222129/https://www.itsc j.ipsj.or.jp/iso-ir/202.pdf



Figure 5. Page discussing the history of its use in Japan: http://www.s-ninsho.com/s history.html

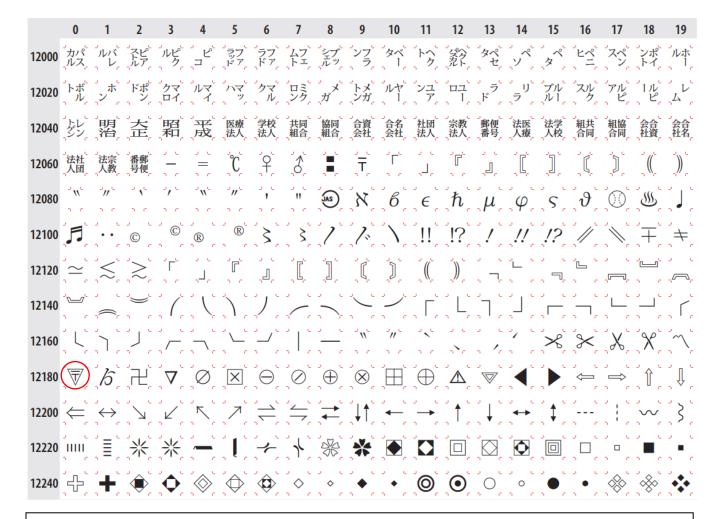


Figure 6. Inclusion in the Adobe-Japan1-6 glyph set:

https://www.adobe.com/content/dam/acom/en/devnet/font/pdfs/5078.Adobe-Japan1-6.pdf

ISO/IEC JTC 1/SC 2/WG 2 PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 10646.1

Please fill all the sections A, B and C below.

Please read Principles and Procedures Document (P & P) from http://std.dkuug.dk/JTC1/SC2/WG2/docs/principles.html for guidelines and details before filling this form.

Please ensure you are using the latest Form from http://std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html. See also http://std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html. See also http://std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html. See also http://std.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html. See also http://std.dkuug.dk/JTC1/SC2/WG2/docs/roadmaps.html. For latest Roadmaps.

A. Administrative

4 Titles	UPOL FOR TYPE A FLECTRONICS									
1. Title: Proposal to encode: SYMBOL FOR TYPE A ELECTRONICS										
	ardo Marín Silva									
3. Requester type (Member body/Liaison/Individual contribution)										
4. Submission date:	11/05/2018									
5. Requester's reference (if applicable):										
6. Choose one of the following: This is a complete proposal:										
(or) More information will be provided later:										
B. Technical – General										
1. Choose one of the following:										
a. This proposal is for a new script (set of characters):										
Proposed name of script: b. The proposal is for addition of character(s) to an existing block:										
	deographic Symbols and Punctuation									
2. Number of characters in proposal:										
3. Proposed category (select one from below - see section 2.2 o										
A-Contemporary B.1-Specialized (small collection)	B.2-Specialized (large collection)									
C-Major extinct D-Attested extinct	E-Minor extinct									
F-Archaic Hieroglyphic or Ideographic	G-Obscure or questionable usage symbols									
4. Is a repertoire including character names provided?	Yes									
a. If YES, are the names in accordance with the "character naming guidelines"										
in Annex L of P&P document?										
b. Are the character shapes attached in a legible form suitable for review? Yes										
5. Fonts related:										
a. Who will provide the appropriate computerized font to the Project Editor of 10646 for publishing the										
standard?										
b. Identify the party granting a license for use of the font by the editors (include address, e-mail, ftp-site, etc.):										
b. Identity the party granting a license for use of the fortrol by the editors (include address, e-mail, htp-site, etc.).										
6. References:										
a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided? Yes										
b. Are published examples of use (such as samples from newspapers, magazines, or other sources)										
of proposed characters attached? Yes										
7. Special encoding issues:										
Does the proposal address other aspects of character data processing (if applicable) such as input,										
presentation, sorting, searching, indexing, transliteration et	c. (if yes please enclose information)? No									
8. Additional Information:										
Submitters are invited to provide any additional information about Properties of the proposed Character(s) or Script										
that will assist in correct understanding of and correct linguistic processing of the proposed character(s) or script.										
Examples of such properties are: Casing information, Numeric information, Currency information, Display behaviour										
information such as line breaks, widths etc., Combining behaviour, Spacing behaviour, Directional behaviour, Default										
Collation behaviour, relevance in Mark Up contexts, Compatibility equivalence and other Unicode normalization related information. See the Unicode standard at http://www.unicode.org for such information on other scripts. Also										
see Unicode Character Database (http://www.unicode.org/reports/tr44/) and associated Unicode Technical Reports										
for information needed for consideration by the Unicode Technic										
13. Illiamation needed for consideration by the officed recilling	ar committee for includion in the officeae clandara.									

Form number: N4502-F (Original 1994-10-14; Revised 1995-01, 1995-04, 1996-04, 1996-08, 1999-03, 2001-05, 2001-09, 2003-11, 2005-01, 2005-09, 2005-10, 2007-03, 2008-05, 2009-11, 2011-03, 2012-01)

C. Technical - Justification

Has this proposal for addition of character(s) been submitted before?	Yes							
If YES explain This addresses the issues rai								
2. Has contact been made to members of the user community (for example: N	•							
user groups of the script or characters, other experts, etc.)?	No							
If YES, with whom?								
If YES, available relevant documents:								
3. Information on the user community for the proposed characters (for example)								
size, demographics, information technology use, or publishing use) is in	cluded? No							
Reference: 4. The context of use for the proposed characters (type of use; common or rai	oommon							
http://www.a.ninaha.com/a								
5. Are the proposed characters in current use by the user community?	No							
If YES, where? Reference:								
6. After giving due considerations to the principles in the P&P document must								
in the BMP?	No							
If YES, is a rationale provided?								
If YES, reference:								
7. Should the proposed characters be kept together in a contiguous range (rat								
8. Can any of the proposed characters be considered a presentation form of a								
character or character sequence?	No							
If YES, is a rationale for its inclusion provided?								
If YES, reference:								
9. Can any of the proposed characters be encoded using a composed character sequence of either								
existing characters or other proposed characters?	Yes Yes							
If YES, is a rationale for its inclusion provided? If YES, reference: Why atomic e	ncoding is better							
10. Can any of the proposed character(s) be considered to be similar (in appe								
to, or could be confused with, an existing character?								
If YES, is a rationale for its inclusion provided?	No							
If YES, reference:								
11. Does the proposal include use of combining characters and/or use of com	posite sequences? No							
If YES, is a rationale for such use provided?								
If YES, reference:								
Is a list of composite sequences and their corresponding glyph images (graphic symbols) provided?							
If YES, reference:								
$12.\ \mbox{Does}$ the proposal contain characters with any special properties such as								
control function or similar semantics?	No							
If YES, describe in detail (include attachment if necessary)								
42. Door the approach contain any laboratory to the containing the containing to the containing	No							
13. Does the proposal contain any Ideographic compatibility characters? If YES, are the equivalent corresponding unified ideographic characters identified?								
If YES, reference:	identified?							
II 1 LO, 161616106.								