

Unicode Technical Report #54

UNICODE® MONGOLIAN 12.1 SNAPSHOT

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Summary

This technical report documents the state of the Unicode Mongolian code chart, names list, and glyph variants as of Unicode 12.1.

Status

This document has been reviewed by Unicode members and other interested parties, and has been approved for publication by the Unicode Consortium. This is a stable document and may be used as reference material or cited as a normative reference by other specifications.

A Unicode Technical Report (UTR) contains informative material. Conformance to the Unicode Standard does not imply conformance to any UTR. Other specifications, however, are free to make normative references to a UTR.

Please submit corrigenda and other comments with the online reporting form [[Feedback](#)]. Related information that is useful in understanding this document is found in the [References](#). For the latest version of the Unicode Standard see [[Unicode](#)]. For a list of current Unicode Technical Reports see [[Reports](#)]. For more information about versions of the Unicode Standard, see [[Versions](#)].

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1. OVERVIEW

After the publication of Unicode 12.1, the Unicode Technical Committee decided that it would be best to split the problem of documentation of the details of glyph variation in Mongolian from the documentation of the code points, names, and basic reference glyphs for Mongolian characters in the Unicode code charts.

This technical report preserves the state of code charts for Mongolian as of Unicode 12.1, the last version which printed all the variant information interspersed with the rest of the basic code chart information. This report should serve as an easily accessible baseline for the development of alternative documentation vehicles for Mongolian glyph variation, which will be more complete, better aligned with a fully explained text model for Mongolian, and easier to maintain directly than Unicode code charts.

2. BACKGROUND

There are a number of strong reasons to separate the documentation of glyph variation for Mongolian from the basic code charts.

There are two major classes of glyph variation impacting the rendering and display of Mongolian text:

- Positional Variants
- Standardized Variation Sequences

The positional variants are changes in the shapes of Mongolian letters, depending on their relative position with a cursively connected sequence of letters. In particular, letter forms may change shape in initial, medial, and/or final positions. The standardized variation sequences involve specific sequences of a letter plus a one of several dedicated Mongolian Free Variation Selector (FVS) characters. Each defined combination of letter plus FVS has a particular expected shape outcome. For both positional variants and standardized variation sequences, in many instances, the shape may be influenced by further details of the morphological context for the word.

The Mongolian code charts have gradually gotten more complex over the years, in an attempt to convey all this shaping information. As of Version 12.1, all of the positional variants and all of the standardized variation sequences were displayed together in the Mongolian code chart. The net effect has turned out not to be particularly clear or helpful—instead the result is to overwhelm the user of the code chart with a mass of glyph variant detail, without sufficient information or structure to make sense of all this detail. Separation of this information into structured alternatives to the basic code charts can result in much more comprehensible outcomes.

A second major concern is that the Mongolian script encoding encompasses more than just the writing system for modern Mongolian (Hudum). It also includes repertoire to cover Todo, Sibe, Manchu, and Ali Gali (Sanskrit). The code chart necessarily includes all of the repertoire for all of these writing systems together in one chart. The inclusion of all repertoire in one chart makes it very difficult to distinguish the relevant glyph variation which applies to each writing system.

Third, the tooling which is used to format the PDF file for the Unicode code charts is very complex software that was not optimized specifically for any one script, and certainly not for the details of Mongolian glyph variants. It can be very frustrating for people who wish to improve the documentation of the Mongolian text model or to improve that model, when they run into the tooling barriers which make it difficult to easily adjust the display of glyph variants. Separation of the glyph variant information into documents that can be maintained with normal editorial tools, instead of complicated, proprietary, code chart formatting software, would make it possible to be much more responsive to reports of problems in the documentation and in the Mongolian text model.

Finally, the Unicode code charts are only updated once with each new release of the Unicode Standard, and each update is therefore closely tied to the Unicode release cycle. Separation of the glyph variant information and documentation of all the associated contextual rules and their interaction with the Mongolian text model, from the production of versioned code charts would also make it possible to update this information much more quickly. Documentation types such as Unicode Technical Reports and Unicode Technical Notes are not tied to the Unicode release cycle, and thus would be more appropriate vehicles for quick turnaround of documentation and model improvements.

3. MONGOLIAN VERSION 12.1 CODE CHART

The Mongolian code chart for Version 12.1 of the Unicode Standard is appended to the end of this document.

That chart is identical to what was published for the Mongolian block as of Version 12.1, including the cover sheet, as well as the list of all variant forms appended after the formatted names list. That chart is also accessible in the archived complete code charts for the entire Unicode 12.1 standard, but for Mongolian reference purposes, it is much easier to refer here to this single code chart for the Mongolian block.

The code chart for the Mongolian Supplement block (U+11660..U+1167F) contains no information about glyph variants for normal Mongolian letters, so is not included here. The maintenance of that code chart is not a particular issue of concern for the details of the Mongolian text model.

REFERENCES

[Unicode] The latest version of the Unicode Standard can be found at
<https://www.unicode.org/versions/latest/>

- [Charts12.1] The complete archival Version 12.1 code charts are at <https://www.unicode.org/Public/12.1.0/charts/>
- [UTNxxx] Text representation and shaping specification of the Mongolian script [L2/19-368](#) [currently in draft; final document to be published as a Unicode Technical Note]

MODIFICATIONS

The following summarizes modifications from the previous revision of this document.

Revision 3:

- First approved version.

Revision 2:

- Draft Unicode Technical Report.
- Incorporated full 12.1 Mongolian code chart directly into the text of the UTR.

Revision 1:

- Initial proposed draft Unicode Technical Report.

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Mongolian

Range: 1800–18AF

This file contains an excerpt from the character code tables and list of character names for
The Unicode Standard, Version 12.1

This file may be changed at any time without notice to reflect errata or other updates to the Unicode Standard.
See <http://www.unicode.org/errata/> for an up-to-date list of errata.

See <http://www.unicode.org/charts/> for access to a complete list of the latest character code charts.
See <http://www.unicode.org/charts/PDF/Unicode-12.1/> for charts showing only the characters added in Unicode 12.1.
See <http://www.unicode.org/Public/12.1.0/charts/> for a complete archived file of character code charts for Unicode 12.1.

Disclaimer

These charts are provided as the online reference to the character contents of the Unicode Standard, Version 12.1 but do not provide all the information needed to fully support individual scripts using the Unicode Standard. For a complete understanding of the use of the characters contained in this file, please consult the appropriate sections of The Unicode Standard, Version 12.1, online at <http://www.unicode.org/versions/Unicode12.1.0/>, as well as Unicode Standard Annexes #9, #11, #14, #15, #24, #29, #31, #34, #38, #41, #42, #44, #45, and #50, the other Unicode Technical Reports and Standards, and the Unicode Character Database, which are available online.

See <http://www.unicode.org/ucd/> and <http://www.unicode.org/reports/>

A thorough understanding of the information contained in these additional sources is required for a successful implementation.

Fonts

The shapes of the reference glyphs used in these code charts are not prescriptive. Considerable variation is to be expected in actual fonts. The particular fonts used in these charts were provided to the Unicode Consortium by a number of different font designers, who own the rights to the fonts.

See <http://www.unicode.org/charts/fonts.html> for a list.

Terms of Use

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The fonts and font data used in production of these code charts may NOT be extracted, or used in any other way in any product or publication, without permission or license granted by the typeface owner(s).

The Unicode Consortium is not liable for errors or omissions in this file or the standard itself. Information on characters added to the Unicode Standard since the publication of the most recent version of the Unicode Standard, as well as on characters currently being considered for addition to the Unicode Standard can be found on the Unicode web site.

See <http://www.unicode.org/pending/pending.html> and <http://www.unicode.org/alloc/Pipeline.html>.

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	180	181	182	183	184	185	186	187	188	189	18A
0											
1											
2											
3											
4											
5											
6											
7											
8											
9											
A											
B											
C											
D											
E											
F											

Punctuation

Additional birgas are encoded in the Mongolian Supplement block at 11660-1167F.

- 1800 ? MONGOLIAN BIRGA
→ 0F04 ཅ tibetan mark initial yig mgo mdun ma
- 1801 ⋯ MONGOLIAN ELLIPSIS
- 1802 , MONGOLIAN COMMA
- 1803 ⋈ MONGOLIAN FULL STOP
- 1804 : MONGOLIAN COLON
- 1805 ⋄ MONGOLIAN FOUR DOTS
• marks the end of a chapter
- 1806 − MONGOLIAN TODO SOFT HYPHEN
• not a format control character, but simply a hyphen for Todo
• also used in the Hudum (modern Mongolian) writing system
→ 00AD ^{SHY} soft hyphen
- 1807 ⚭ MONGOLIAN SIBE SYLLABLE BOUNDARY MARKER
- 1808 › MONGOLIAN MANCHU COMMA
- 1809 » MONGOLIAN MANCHU FULL STOP
- 180A - MONGOLIAN NIRUGU

Format controls

- 180B ^{FV}_{S1} MONGOLIAN FREE VARIATION SELECTOR ONE
• abbreviated FVS1
- 180C ^{FV}_{S2} MONGOLIAN FREE VARIATION SELECTOR TWO
• abbreviated FVS2
- 180D ^{FV}_{S3} MONGOLIAN FREE VARIATION SELECTOR THREE
• abbreviated FVS3
- 180E ^{MV}_S MONGOLIAN VOWEL SEPARATOR
• abbreviated MVS

Digits

- 1810 0 MONGOLIAN DIGIT ZERO
- 1811 1 MONGOLIAN DIGIT ONE
- 1812 2 MONGOLIAN DIGIT TWO
- 1813 3 MONGOLIAN DIGIT THREE
- 1814 4 MONGOLIAN DIGIT FOUR
- 1815 5 MONGOLIAN DIGIT FIVE
- 1816 6 MONGOLIAN DIGIT SIX
- 1817 7 MONGOLIAN DIGIT SEVEN
- 1818 8 MONGOLIAN DIGIT EIGHT
- 1819 9 MONGOLIAN DIGIT NINE

Basic letters

Cross-references show commonly used Cyrillic transliterations.

Letters unspecified for distinct positional forms are shown without them. Letters with unspecified positional forms use a squared question mark to indicate the gap. All vowels are expected to have explicit isolate forms. For consonants the isolate first form is the initial first form unless specified otherwise.

- 1820 ¹ MONGOLIAN LETTER A
→ 0430 а cyrillic small letter a
~ 1820 ¹ first form (isolate)
~ 1820 ¹ first form (initial)
~ 1820 ¹ first form (medial)
~ 1820 ¹ first form (final)
~ 1820 180B ¹ second form (isolate)
~ 1820 180B ¹ second form (medial)
~ 1820 180B ¹ second form (final)
~ 1820 180C ¹ third form (medial)
- 1821 ² MONGOLIAN LETTER E
→ 044D э cyrillic small letter e
~ 1821 ² first form (isolate)
~ 1821 ² first form (initial)
~ 1821 ² first form (medial)
~ 1821 ² first form (final)
~ 1821 180B ² second form (initial)
~ 1821 180B ² second form (final)
- 1822 ³ MONGOLIAN LETTER I
→ 0438 и cyrillic small letter i
~ 1822 ³ first form (isolate)
~ 1822 ³ first form (initial)
~ 1822 ³ first form (medial)
~ 1822 ³ first form (final)
~ 1822 180B ³ second form (medial)
- 1823 ⁴ MONGOLIAN LETTER O
→ 043E о cyrillic small letter o
~ 1823 ⁴ first form (isolate)
~ 1823 ⁴ first form (initial)
~ 1823 ⁴ first form (medial)
~ 1823 ⁴ first form (final)
~ 1823 180B ⁴ second form (medial)
~ 1823 180B ⁴ second form (final)
- 1824 ⁵ MONGOLIAN LETTER U
→ 0443 у cyrillic small letter u
~ 1824 ⁵ first form (isolate)
~ 1824 ⁵ first form (initial)
~ 1824 ⁵ first form (medial)
~ 1824 ⁵ first form (final)
~ 1824 180B ⁵ second form (medial)
- 1825 ⁶ MONGOLIAN LETTER OE
→ 04E9 ө cyrillic small letter barred o
~ 1825 ⁶ first form (isolate)
~ 1825 ⁶ first form (initial)
~ 1825 ⁶ first form (medial)
~ 1825 ⁶ first form (final)
~ 1825 180B ⁶ second form (medial)
~ 1825 180B ⁶ second form (final)
~ 1825 180C ⁶ third form (medial)

- 1826 **ᠤ** **MONGOLIAN LETTER UE**
 → 04AF **У** cyrillic small letter straight u
 ~ 1826 **ᠤ** first form (isolate)
 ~ 1826 **ᠤ** first form (initial)
 ~ 1826 **ᠤ** first form (medial)
 ~ 1826 **ᠤ** first form (final)
 ~ 1826 180B **ᠤ** second form (isolate)
 ~ 1826 180B **ᠤ** second form (medial)
 ~ 1826 180B **ᠤ** second form (final)
 ~ 1826 180C **ᠤ** third form (medial)
- 1827 **ᠡ** **MONGOLIAN LETTER EE**
 ~ 1827 **ᠡ** first form (isolate)
 ~ 1827 **ᠡ** first form (initial)
 ~ 1827 **ᠡ** first form (medial)
 ~ 1827 **ᠡ** first form (final)
- 1828 **ᠨ** **MONGOLIAN LETTER NA**
 → 043D **Н** cyrillic small letter en
 ~ 1828 **ᠨ** first form (initial)
 ~ 1828 **ᠨ** first form (medial)
 ~ 1828 **ᠨ** first form (final)
 ~ 1828 180B **ᠨ** second form (initial)
 ~ 1828 180B **ᠨ** second form (medial)
 ~ 1828 180C **ᠨ** third form (medial)
 ~ 1828 180D **ᠨ** fourth form (medial)
- 1829 **ᠠ** **MONGOLIAN LETTER ANG**
 ~ 1829 **ᠠ** first form (initial)
 ~ 1829 **ᠠ** first form (medial)
 ~ 1829 **ᠠ** first form (final)
- 182A **ᠪ** **MONGOLIAN LETTER BA**
 → 0431 **Б** cyrillic small letter be
 ~ 182A **ᠪ** first form (initial)
 ~ 182A **ᠪ** first form (medial)
 ~ 182A **ᠪ** first form (final)
 ~ 182A 180B **ᠪ** second form (final)
- 182B **ᠫ** **MONGOLIAN LETTER PA**
 → 043F **П** cyrillic small letter pe
 ~ 182B **ᠫ** first form (initial)
 ~ 182B **ᠫ** first form (medial)
 ~ 182B **ᠫ** first form (final)
- 182C **ᠬ** **MONGOLIAN LETTER QA**
 → 0445 **Х** cyrillic small letter ha
 ~ 182C **ᠬ** first form (isolate)
 ~ 182C **ᠬ** first form (initial)
 ~ 182C **ᠬ** first form (medial)
 ~ 182C **ᠬ** first form (final)
 ~ 182C 180B **ᠬ** second form (isolate)
 ~ 182C 180B **ᠬ** second form (initial)
 ~ 182C 180B **ᠬ** second form (medial)
 ~ 182C 180C **ᠬ** third form (medial)
 ~ 182C 180D **ᠬ** fourth form (medial)
- 182D **ᠭ** **MONGOLIAN LETTER GA**
 → 0433 **Г** cyrillic small letter ghe
 ~ 182D **ᠭ** first form (isolate)
 ~ 182D **ᠭ** first form (initial)
 ~ 182D **ᠭ** first form (medial)
 ~ 182D **ᠭ** first form (final)
 ~ 182D 180B **ᠭ** second form (initial)
 ~ 182D 180B **ᠭ** second form (medial)
 ~ 182D 180B **ᠭ** second form (final)
 ~ 182D 180C **ᠭ** third form (medial)
 ~ 182D 180D **ᠭ** fourth form (medial)

- 182E **ᠮ** **MONGOLIAN LETTER MA**
 → 043C **М** cyrillic small letter em
 ~ 182E **ᠮ** first form (initial)
 ~ 182E **ᠮ** first form (medial)
 ~ 182E **ᠮ** first form (final)
- 182F **ᠯ** **MONGOLIAN LETTER LA**
 → 043B **Л** cyrillic small letter el
 ~ 182F **ᠯ** first form (initial)
 ~ 182F **ᠯ** first form (medial)
 ~ 182F **ᠯ** first form (final)
- 1830 **ᠰ** **MONGOLIAN LETTER SA**
 → 0441 **С** cyrillic small letter es
 ~ 1830 **ᠰ** first form (initial)
 ~ 1830 **ᠰ** first form (medial)
 ~ 1830 **ᠰ** first form (final)
 ~ 1830 180B **ᠰ** second form (final)
 ~ 1830 180C **ᠰ** third form (final)
- 1831 **ᠱ** **MONGOLIAN LETTER SHA**
 → 0448 **Ш** cyrillic small letter sha
 ~ 1831 **ᠱ** first form (initial)
 ~ 1831 **ᠱ** first form (medial)
 ~ 1831 **ᠱ** first form (final)
- 1832 **ᠲ** **MONGOLIAN LETTER TA**
 → 0442 **Т** cyrillic small letter te
 ~ 1832 **ᠲ** first form (initial)
 ~ 1832 **ᠲ** first form (medial)
 ~ 1832 **ᠲ** first form (final)
 ~ 1832 180B **ᠲ** second form (medial)
- 1833 **ᠳ** **MONGOLIAN LETTER DA**
 → 0434 **Д** cyrillic small letter de
 ~ 1833 **ᠳ** first form (initial)
 ~ 1833 **ᠳ** first form (medial)
 ~ 1833 **ᠳ** first form (final)
 ~ 1833 180B **ᠳ** second form (initial)
 ~ 1833 180B **ᠳ** second form (medial)
 ~ 1833 180B **ᠳ** second form (final)
- 1834 **ᠴ** **MONGOLIAN LETTER CHA**
 → 0447 **Ч** cyrillic small letter che
 ~ 1834 **ᠴ** first form (initial)
 ~ 1834 **ᠴ** first form (medial)
 ~ 1834 **ᠴ** first form (final)
- 1835 **ᠵ** **MONGOLIAN LETTER JA**
 → 0436 **Ж** cyrillic small letter zhe
 ~ 1835 **ᠵ** first form (initial)
 ~ 1835 **ᠵ** first form (medial)
 ~ 1835 **ᠵ** first form (final)
 ~ 1835 180B **ᠵ** second form (medial)
- 1836 **ᠶ** **MONGOLIAN LETTER YA**
 → 0439 **Й** cyrillic small letter short i
 ~ 1836 **ᠶ** first form (initial)
 ~ 1836 **ᠶ** first form (medial)
 ~ 1836 **ᠶ** first form (final)
 ~ 1836 180B **ᠶ** second form (initial)
 ~ 1836 180B **ᠶ** second form (medial)
 ~ 1836 180C **ᠶ** third form (medial)
- 1837 **ᠷ** **MONGOLIAN LETTER RA**
 → 0440 **Р** cyrillic small letter er
 ~ 1837 **ᠷ** first form (initial)
 ~ 1837 **ᠷ** first form (medial)
 ~ 1837 **ᠷ** first form (final)

- 1838 **ᠠ** MONGOLIAN LETTER WA
 → 0432 **в** cyrillic small letter ve
 ~ 1838 **ᠠ** first form (initial)
 ~ 1838 **ᠡ** first form (medial)
 ~ 1838 **ᠢ** first form (final)
 ~ 1838 180B **ᠣ** second form (final)
- 1839 **ᠡ** MONGOLIAN LETTER FA
 → 0444 **ф** cyrillic small letter ef
 ~ 1839 **ᠡ** first form (initial)
 ~ 1839 **ᠢ** first form (medial)
 ~ 1839 **ᠣ** first form (final)
- 183A **ᠢ** MONGOLIAN LETTER KA
 → 0445 **х** cyrillic small letter ha
 ~ 183A **ᠢ** first form (initial)
 ~ 183A **ᠣ** first form (medial)
 ~ 183A **ᠣ** first form (final)
- 183B **ᠣ** MONGOLIAN LETTER KHA
 → 043A **к** cyrillic small letter ka
 ~ 183B **ᠣ** first form (initial)
 ~ 183B **ᠣ** first form (medial)
 ~ 183B **ᠣ** first form (final)
- 183C **ᠣ** MONGOLIAN LETTER TSA
 → 0446 **ц** cyrillic small letter tse
 ~ 183C **ᠣ** first form (initial)
 ~ 183C **ᠣ** first form (medial)
 ~ 183C **ᠣ** first form (final)
- 183D **ᠣ** MONGOLIAN LETTER ZA
 → 0437 **з** cyrillic small letter ze
 ~ 183D **ᠣ** first form (initial)
 ~ 183D **ᠣ** first form (medial)
 ~ 183D **ᠣ** first form (final)
- 183E **ᠣ** MONGOLIAN LETTER HAA
 → 0445 **х** cyrillic small letter ha
 ~ 183E **ᠣ** first form (initial)
 ~ 183E **ᠣ** first form (medial)
 ~ 183E **ᠣ** first form (final)
- 183F **ᠣ** MONGOLIAN LETTER ZRA
 → 0436 **ж** cyrillic small letter zhe
 ~ 183F **ᠣ** first form (initial)
 ~ 183F **ᠣ** first form (medial)
 ~ 183F **ᠣ** first form (final)
- 1840 **ᠣ** MONGOLIAN LETTER LHA
 ~ 1840 **ᠣ** first form (initial)
 ~ 1840 **ᠣ** first form (medial)
 ~ 1840 **ᠣ** first form (final)
- 1841 **ᠣ** MONGOLIAN LETTER ZHI
- 1842 **ᠣ** MONGOLIAN LETTER CHI

Todo letters

- 1843 **ᠣ** MONGOLIAN LETTER TODO LONG VOWEL SIGN
 ~ 1843 **ᠣ** first form (initial)
 ~ 1843 **ᠣ** first form (medial)
 ~ 1843 **ᠣ** first form (final)
- 1844 **ᠣ** MONGOLIAN LETTER TODO E
 ~ 1844 **ᠣ** first form (isolate)
 ~ 1844 **ᠣ** first form (initial)
 ~ 1844 **ᠣ** first form (medial)
 ~ 1844 **ᠣ** first form (final)
 ~ 1844 180B **ᠣ** second form (medial)

- 1845 **ᠣ** MONGOLIAN LETTER TODO I
 ~ 1845 **ᠣ** first form (isolate)
 ~ 1845 **ᠣ** first form (initial)
 ~ 1845 **ᠣ** first form (medial)
 ~ 1845 **ᠣ** first form (final)
 ~ 1845 180B **ᠣ** second form (medial)
- 1846 **ᠣ** MONGOLIAN LETTER TODO O
 ~ 1846 **ᠣ** first form (isolate)
 ~ 1846 **ᠣ** first form (initial)
 ~ 1846 **ᠣ** first form (medial)
 ~ 1846 **ᠣ** first form (final)
 ~ 1846 180B **ᠣ** second form (medial)
- 1847 **ᠣ** MONGOLIAN LETTER TODO U
 ~ 1847 **ᠣ** first form (isolate)
 ~ 1847 **ᠣ** first form (initial)
 ~ 1847 **ᠣ** first form (medial)
 ~ 1847 **ᠣ** first form (final)
 ~ 1847 180B **ᠣ** second form (isolate)
 ~ 1847 180B **ᠣ** second form (medial)
 ~ 1847 180B **ᠣ** second form (final)
 ~ 1847 180C **ᠣ** third form (medial)
- 1848 **ᠣ** MONGOLIAN LETTER TODO OE
 ~ 1848 **ᠣ** first form (isolate)
 ~ 1848 **ᠣ** first form (initial)
 ~ 1848 **ᠣ** first form (medial)
 ~ 1848 **ᠣ** first form (final)
 ~ 1848 180B **ᠣ** second form (medial)
- 1849 **ᠣ** MONGOLIAN LETTER TODO UE
 ~ 1849 **ᠣ** first form (isolate)
 ~ 1849 **ᠣ** first form (initial)
 ~ 1849 **ᠣ** first form (medial)
 ~ 1849 **ᠣ** first form (final)
 ~ 1849 180B **ᠣ** second form (isolate)
 ~ 1849 180B **ᠣ** second form (medial)
- 184A **ᠣ** MONGOLIAN LETTER TODO ANG
 ~ 184A **ᠣ** first form (initial)
 ~ 184A **ᠣ** first form (medial)
 ~ 184A **ᠣ** first form (final)
- 184B **ᠣ** MONGOLIAN LETTER TODO BA
 ~ 184B **ᠣ** first form (initial)
 ~ 184B **ᠣ** first form (medial)
 ~ 184B **ᠣ** first form (final)
- 184C **ᠣ** MONGOLIAN LETTER TODO PA
 ~ 184C **ᠣ** first form (initial)
 ~ 184C **ᠣ** first form (medial)
 ~ 184C **ᠣ** first form (final)
- 184D **ᠣ** MONGOLIAN LETTER TODO QA
 ~ 184D **ᠣ** first form (initial)
 ~ 184D **ᠣ** first form (medial)
 ~ 184D **ᠣ** first form (final)
 ~ 184D 180B **ᠣ** second form (initial)
 ~ 184D 180B **ᠣ** second form (medial)
- 184E **ᠣ** MONGOLIAN LETTER TODO GA
 ~ 184E **ᠣ** first form (isolate)
 ~ 184E **ᠣ** first form (initial)
 ~ 184E **ᠣ** first form (medial)
 ~ 184E **ᠣ** first form (final)
 ~ 184E 180B **ᠣ** second form (medial)
- 184F **ᠣ** MONGOLIAN LETTER TODO MA
 ~ 184F **ᠣ** first form (initial)
 ~ 184F **ᠣ** first form (medial)
 ~ 184F **ᠣ** first form (final)

- 1850  MONGOLIAN LETTER TODO TA
 ~ 1850  first form (initial)
 ~ 1850  first form (medial)
 ~ 1850  first form (final)
- 1851  MONGOLIAN LETTER TODO DA
 ~ 1851  first form (initial)
 ~ 1851  first form (medial)
 ~ 1851  first form (final)
- 1852  MONGOLIAN LETTER TODO CHA
 ~ 1852  first form (initial)
 ~ 1852  first form (medial)
 ~ 1852  first form (final)
- 1853  MONGOLIAN LETTER TODO JA
 ~ 1853  first form (initial)
 ~ 1853  first form (medial)
 ~ 1853  first form (final)
- 1854  MONGOLIAN LETTER TODO TSA
 ~ 1854  first form (initial)
 ~ 1854  first form (medial)
 ~ 1854  first form (final)
- 1855  MONGOLIAN LETTER TODO YA
 ~ 1855  first form (initial)
 ~ 1855  first form (medial)
 ~ 1855  first form (final)
- 1856  MONGOLIAN LETTER TODO WA
 ~ 1856  first form (initial)
 ~ 1856  first form (medial)
 ~ 1856  first form (final)
- 1857  MONGOLIAN LETTER TODO KA
 ~ 1857  first form (initial)
 ~ 1857  first form (medial)
 ~ 1857  first form (final)
- 1858  MONGOLIAN LETTER TODO GAA
- 1859  MONGOLIAN LETTER TODO HAA
 ~ 1859  first form (initial)
 ~ 1859  first form (medial)
 ~ 1859  first form (final)
- 185A  MONGOLIAN LETTER TODO JIA
- 185B  MONGOLIAN LETTER TODO NIA
- 185C  MONGOLIAN LETTER TODO DZA
 ~ 185C  first form (initial)
 ~ 185C  first form (medial)
 ~ 185C  first form (final)

Sibe letters

- 185D  MONGOLIAN LETTER SIBE E
 ~ 185D  first form (isolate)
 ~ 185D  first form (initial)
 ~ 185D  first form (medial)
 ~ 185D  first form (final)
 ~ 185D 180B  second form (medial)
 ~ 185D 180B  second form (final)
- 185E  MONGOLIAN LETTER SIBE I
 ~ 185E  first form (isolate)
 ~ 185E  first form (initial)
 ~ 185E  first form (medial)
 ~ 185E  first form (final)
 ~ 185E 180B  second form (medial)
 ~ 185E 180B  second form (final)
 ~ 185E 180C  third form (medial)
 ~ 185E 180C  third form (final)

- 185F  MONGOLIAN LETTER SIBE IY
 ~ 185F  first form (initial)
 ~ 185F  first form (medial)
 ~ 185F  first form (final)
- 1860  MONGOLIAN LETTER SIBE UE
 ~ 1860  first form (isolate)
 ~ 1860  first form (initial)
 ~ 1860  first form (medial)
 ~ 1860  first form (final)
 ~ 1860 180B  second form (medial)
 ~ 1860 180B  second form (final)
- 1861  MONGOLIAN LETTER SIBE U
 ~ 1861  first form (isolate)
 ~ 1861  first form (initial)
 ~ 1861  first form (medial)
 ~ 1861  first form (final)
- 1862  MONGOLIAN LETTER SIBE ANG
 ~ 1862  first form (initial)
 ~ 1862  first form (medial)
 ~ 1862  first form (final)
- 1863  MONGOLIAN LETTER SIBE KA
 ~ 1863  first form (isolate)
 ~ 1863  first form (initial)
 ~ 1863  first form (medial)
 ~ 1863  first form (final)
 ~ 1863 180B  second form (medial)
- 1864  MONGOLIAN LETTER SIBE GA
 ~ 1864  first form (isolate)
 ~ 1864  first form (initial)
 ~ 1864  first form (medial)
 ~ 1864  first form (final)
- 1865  MONGOLIAN LETTER SIBE HA
 ~ 1865  first form (isolate)
 ~ 1865  first form (initial)
 ~ 1865  first form (medial)
 ~ 1865  first form (final)
- 1866  MONGOLIAN LETTER SIBE PA
 ~ 1866  first form (initial)
 ~ 1866  first form (medial)
 ~ 1866  first form (final)
- 1867  MONGOLIAN LETTER SIBE SHA
 ~ 1867  first form (initial)
 ~ 1867  first form (medial)
 ~ 1867  first form (final)
- 1868  MONGOLIAN LETTER SIBE TA
 ~ 1868  first form (initial)
 ~ 1868  first form (medial)
 ~ 1868  first form (final)
 ~ 1868 180B  second form (initial)
 ~ 1868 180B  second form (medial)
 ~ 1868 180C  third form (medial)
- 1869  MONGOLIAN LETTER SIBE DA
 ~ 1869  first form (initial)
 ~ 1869  first form (medial)
 ~ 1869  first form (final)
 ~ 1869 180B  second form (initial)
 ~ 1869 180B  second form (medial)
- 186A  MONGOLIAN LETTER SIBE JA
 ~ 186A  first form (initial)
 ~ 186A  first form (medial)
 ~ 186A  first form (final)

- 186B  MONGOLIAN LETTER SIBE FA
 ~ 186B  first form (initial)
 ~ 186B  first form (medial)
 ~ 186B  first form (final)
- 186C  MONGOLIAN LETTER SIBE GAA
- 186D  MONGOLIAN LETTER SIBE HAA
- 186E  MONGOLIAN LETTER SIBE TSA
 ~ 186E  first form (initial)
 ~ 186E  first form (medial)
 ~ 186E  first form (final)
- 186F  MONGOLIAN LETTER SIBE ZA
 ~ 186F  first form (initial)
 ~ 186F  first form (medial)
 ~ 186F  first form (final)
 ~ 186F 180B  second form (initial)
 ~ 186F 180B  second form (medial)
- 1870  MONGOLIAN LETTER SIBE RAA
- 1871  MONGOLIAN LETTER SIBE CHA
 ~ 1871  first form (initial)
 ~ 1871  first form (medial)
 ~ 1871  first form (final)
- 1872  MONGOLIAN LETTER SIBE ZHA
 ~ 1872  first form (initial)
 ~ 1872  first form (medial)
 ~ 1872  first form (final)

Manchu letters

- 1873  MONGOLIAN LETTER MANCHU I
 ~ 1873  first form (isolate)
 ~ 1873  first form (initial)
 ~ 1873  first form (medial)
 ~ 1873  first form (final)
 ~ 1873 180B  second form (medial)
 ~ 1873 180B  second form (final)
 ~ 1873 180C  third form (medial)
 ~ 1873 180C  third form (final)
 ~ 1873 180D  fourth form (medial)
- 1874  MONGOLIAN LETTER MANCHU KA
 ~ 1874  first form (isolate)
 ~ 1874  first form (initial)
 ~ 1874  first form (medial)
 ~ 1874  first form (final)
 ~ 1874 180B  second form (medial)
 ~ 1874 180B  second form (final)
 ~ 1874 180C  third form (medial)
 ~ 1874 180C  third form (final)
 ~ 1874 180D  fourth form (medial)
- 1875  MONGOLIAN LETTER MANCHU RA
 ~ 1875  first form (initial)
 ~ 1875  first form (medial)
 ~ 1875  first form (final)
- 1876  MONGOLIAN LETTER MANCHU FA
 ~ 1876  first form (initial)
 ~ 1876  first form (medial)
 ~ 1876  first form (final)
 ~ 1876 180B  second form (initial)
 ~ 1876 180B  second form (medial)
- 1877  MONGOLIAN LETTER MANCHU ZHA
 ~ 1877  first form (initial)
 ~ 1877  first form (medial)
 ~ 1877  first form (final)

Buryat letter

- 1878  MONGOLIAN LETTER CHA WITH TWO DOTS
 ~ 1878  first form (initial)
 ~ 1878  first form (medial)
 ~ 1878  first form (final)

Extensions for Sanskrit and Tibetan

- 1880  MONGOLIAN LETTER ALI GALI ANUSVARA ONE
 → 0F83  tibetan sign sna ldan
 ~ 1880 180B  second form
- 1881  MONGOLIAN LETTER ALI GALI VISARGA ONE
 → 0F7F  tibetan sign rnam bcad
 ~ 1881 180B  second form
- 1882  MONGOLIAN LETTER ALI GALI DAMARU
 → 0F88  tibetan sign lce tsa can
- 1883  MONGOLIAN LETTER ALI GALI UBADAMA
- 1884  MONGOLIAN LETTER ALI GALI INVERTED UBADAMA
 → 0F89  tibetan sign mchu can
- 1885  MONGOLIAN LETTER ALI GALI BALUDA
 → 0F85  tibetan mark paluta
- 1886  MONGOLIAN LETTER ALI GALI THREE BALUDA
- 1887  MONGOLIAN LETTER ALI GALI A
 ~ 1887  first form (isolate)
 ~ 1887  first form (initial)
 ~ 1887  first form (medial)
 ~ 1887  first form (final)
 ~ 1887 180B  second form (isolate)
 ~ 1887 180B  second form (final)
 ~ 1887 180C  third form (final)
 ~ 1887 180D  fourth form (final)
- 1888  MONGOLIAN LETTER ALI GALI I
 ~ 1888  first form (isolate)
 ~ 1888  first form (initial)
 ~ 1888  first form (medial)
 ~ 1888  first form (final)
 ~ 1888 180B  second form (final)
- 1889  MONGOLIAN LETTER ALI GALI KA
 ~ 1889  first form (isolate)
 ~ 1889  first form (initial)
 ~ 1889  first form (medial)
 ~ 1889  first form (final)
- 188A  MONGOLIAN LETTER ALI GALI NGA
 ~ 188A  first form (initial)
 ~ 188A  first form (medial)
 ~ 188A  first form (final)
 ~ 188A 180B  second form (initial)
 ~ 188A 180B  second form (medial)
- 188B  MONGOLIAN LETTER ALI GALI CA
 ~ 188B  first form (initial)
 ~ 188B  first form (medial)
 ~ 188B  first form (final)
- 188C  MONGOLIAN LETTER ALI GALI TTA
- 188D  MONGOLIAN LETTER ALI GALI TTHA
- 188E  MONGOLIAN LETTER ALI GALI DDA
- 188F  MONGOLIAN LETTER ALI GALI NNA
- 1890  MONGOLIAN LETTER ALI GALI TA
- 1891  MONGOLIAN LETTER ALI GALI DA
- 1892  MONGOLIAN LETTER ALI GALI PA
- 1893  MONGOLIAN LETTER ALI GALI PHA

1894 ᠰ MONGOLIAN LETTER ALI GALI SSA
 ~ 1894 ᠰ first form (initial)
 ~ 1894 ᠰ first form (medial)
 ~ 1894 ᠰ first form (final)

1895 ᠱ MONGOLIAN LETTER ALI GALI ZHA

1896 ᠰ MONGOLIAN LETTER ALI GALI ZA
 ~ 1896 ᠰ first form (initial)
 ~ 1896 ᠰ first form (medial)
 ~ 1896 ᠰ first form (final)

1897 ᠠ MONGOLIAN LETTER ALI GALI AH

1898 ᠲ MONGOLIAN LETTER TODO ALI GALI TA

1899 ᠵ MONGOLIAN LETTER TODO ALI GALI ZHA

189A ᠭ MONGOLIAN LETTER MANCHU ALI GALI GHA
 ~ 189A ᠭ first form (initial)
 ~ 189A ᠭ first form (medial)
 ~ 189A ᠭ first form (final)

189B ᠨ MONGOLIAN LETTER MANCHU ALI GALI NGA
 ~ 189B ᠨ first form (initial)
 ~ 189B ᠨ first form (medial)
 ~ 189B ᠨ first form (final)

189C ᠠ MONGOLIAN LETTER MANCHU ALI GALI CA
 ~ 189C ᠠ first form (initial)
 ~ 189C ᠠ first form (medial)
 ~ 189C ᠠ first form (final)

189D ᠨ MONGOLIAN LETTER MANCHU ALI GALI JHA
 ~ 189D ᠨ first form (initial)
 ~ 189D ᠨ first form (medial)
 ~ 189D ᠨ first form (final)

189E ᠮ MONGOLIAN LETTER MANCHU ALI GALI TTA
 ~ 189E ᠮ first form (initial)
 ~ 189E ᠮ first form (medial)
 ~ 189E ᠮ first form (final)

189F ᠮ MONGOLIAN LETTER MANCHU ALI GALI DDHA
 ~ 189F ᠮ first form (initial)
 ~ 189F ᠮ first form (medial)
 ~ 189F ᠮ first form (final)

18A0 ᠮ MONGOLIAN LETTER MANCHU ALI GALI TA

18A1 ᠮ MONGOLIAN LETTER MANCHU ALI GALI DHA
 ~ 18A1 ᠮ first form (initial)
 ~ 18A1 ᠮ first form (medial)
 ~ 18A1 ᠮ first form (final)

18A2 ᠰ MONGOLIAN LETTER MANCHU ALI GALI SSA
 ~ 18A2 ᠰ first form (initial)
 ~ 18A2 ᠰ first form (medial)
 ~ 18A2 ᠰ first form (final)

18A3 ᠰ MONGOLIAN LETTER MANCHU ALI GALI CYA
 ~ 18A3 ᠰ first form (initial)
 ~ 18A3 ᠰ first form (medial)
 ~ 18A3 ᠰ first form (final)

18A4 ᠱ MONGOLIAN LETTER MANCHU ALI GALI ZHA
 ~ 18A4 ᠱ first form (initial)
 ~ 18A4 ᠱ first form (medial)
 ~ 18A4 ᠱ first form (final)

18A5 ᠱ MONGOLIAN LETTER MANCHU ALI GALI ZA
 ~ 18A5 ᠱ first form (initial)
 ~ 18A5 ᠱ first form (medial)
 ~ 18A5 ᠱ first form (final)

18A6 ᠠ MONGOLIAN LETTER ALI GALI HALF U

18A7 ᠡ MONGOLIAN LETTER ALI GALI HALF YA

18A8 ᠢ MONGOLIAN LETTER MANCHU ALI GALI BHA

18A9 ᠣ MONGOLIAN LETTER ALI GALI DAGALGA

18AA ᠬ MONGOLIAN LETTER MANCHU ALI GALI LHA
 ~ 18AA ᠬ first form (initial)
 ~ 18AA ᠬ first form (medial)
 ~ 18AA ᠬ first form (final)

Positional Forms and Standardized Variation Sequences Unlike other blocks, these variation sequences use the script-specific variation selectors for Mongolian.	
1820	1820 MONGOLIAN LETTER A 1820 first form (isolate) 1820 first form (initial) 1820 first form (medial) 1820 first form (final) 1820 second form (isolate) 1820 180B second form (medial) 1820 180B second form (final) 1820 180B third form (medial)
1821	1820 180C MONGOLIAN LETTER E 1821 first form (isolate) 1821 first form (initial) 1821 first form (medial) 1821 first form (final) 1821 second form (initial) 1821 180B second form (final)
1822	1822 MONGOLIAN LETTER I 1822 first form (isolate) 1822 first form (initial) 1822 first form (medial) 1822 first form (final) 1822 second form (medial)
1822 180B	
1823	1822 180B MONGOLIAN LETTER O 1823 first form (isolate) 1823 first form (initial) 1823 first form (medial) 1823 first form (final) 1823 second form (medial) 1823 180B second form (final)
1823 180B	

1824  MONGOLIAN LETTER U 1824  first form (isolate) 1824  first form (initial) 1824  first form (medial) 1824  first form (final) 1824  second form (medial)	1826  MONGOLIAN LETTER UE 1826  first form (isolate) 1826  first form (initial) 1826  first form (medial) 1826  first form (final) 1826  second form (isolate)
1825  MONGOLIAN LETTER OE 1825  first form (isolate) 1825  first form (initial) 1825  first form (medial) 1825  first form (final) 1825  second form (medial) 1825 180B  second form (final) 1825 180B  third form (medial) 1825 180C	1826 180B  second form (medial) 1826 180B  second form (final) 1826 180B  third form (medial) 1826 180C 1827  MONGOLIAN LETTER EE 1827  first form (isolate) 1827  first form (initial) 1827  first form (medial) 1827  first form (final) 1827

1828		MONGOLIAN LETTER NA	182B		MONGOLIAN LETTER PA
1828		first form (initial)	182B		first form (initial)
1828		first form (medial)	182B		first form (medial)
1828		first form (final)	182B		first form (final)
1828		second form (initial)	182C		MONGOLIAN LETTER QA
1828 180B		second form (medial)	182C		first form (isolate)
1828 180B		third form (medial)	182C		first form (initial)
1828 180C		fourth form (medial)	182C		first form (medial)
1829		MONGOLIAN LETTER ANG	182C		first form (final)
1829		first form (initial)	182C		second form (isolate)
1829		first form (medial)	182C 180B		second form (initial)
1829		first form (final)	182C 180B		second form (medial)
182A		MONGOLIAN LETTER BA	182C 180B		third form (medial)
182A		first form (initial)	182C 180C		fourth form (medial)
182A		first form (medial)	182C 180D		
182A		first form (final)			
182A		second form (final)			

182D  MONGOLIAN LETTER GA 182D  first form (isolate) 182D  first form (initial) 182D  first form (medial) 182D  first form (final) 182D  second form (initial) 182D 180B  second form (medial) 182D 180B  second form (final) 182D 180B  third form (medial) 182D 180C  fourth form (medial) 182D 180D  MONGOLIAN LETTER MA 182E  first form (initial) 182E  first form (medial) 182E  first form (final) 182E  MONGOLIAN LETTER LA 182F  first form (initial) 182F  first form (medial) 182F  first form (final) 182F	1830  MONGOLIAN LETTER SA 1830  first form (initial) 1830  first form (medial) 1830  first form (final) 1830  second form (final) 1830 180B  third form (final) 1830 180C  MONGOLIAN LETTER SHA 1831  first form (initial) 1831  first form (medial) 1831  first form (final) 1831  MONGOLIAN LETTER TA 1832  first form (initial) 1832  first form (medial) 1832  first form (final) 1832  second form (medial) 1832 180B
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1833  MONGOLIAN LETTER DA 1833  first form (initial) 1833  first form (medial) 1833  first form (final) 1833  second form (initial) 1833 180B  second form (medial) 1833 180B  second form (final) 1833 180B	1836  MONGOLIAN LETTER YA 1836  first form (initial) 1836  first form (medial) 1836  first form (final) 1836  second form (initial) 1836 180B  second form (medial) 1836 180B  third form (medial) 1836 180C
1834  MONGOLIAN LETTER CHA 1834  first form (initial) 1834  first form (medial) 1834  first form (final) 1834	1837  MONGOLIAN LETTER RA 1837  first form (initial) 1837  first form (medial) 1837  first form (final) 1837
1835  MONGOLIAN LETTER JA 1835  first form (initial) 1835  first form (medial) 1835  first form (final) 1835  second form (medial) 1835 180B	1838  MONGOLIAN LETTER WA 1838  first form (initial) 1838  first form (medial) 1838  first form (final) 1838  second form (final) 1838 180B

1839		MONGOLIAN LETTER FA	183D		MONGOLIAN LETTER ZA
	1839			183D	
		first form (initial)			first form (initial)
	1839			183D	
		first form (medial)			first form (medial)
	1839			183D	
		first form (final)			first form (final)
	1839			183D	
183A		MONGOLIAN LETTER KA	183E		MONGOLIAN LETTER HAA
	183A			183E	
		first form (initial)			first form (initial)
	183A			183E	
		first form (medial)			first form (medial)
	183A			183E	
		first form (final)			first form (final)
	183A			183E	
183B		MONGOLIAN LETTER KHA	183F		MONGOLIAN LETTER ZRA
	183B			183F	
		first form (initial)			first form (initial)
	183B			183F	
		first form (medial)			first form (medial)
	183B			183F	
		first form (final)			first form (final)
	183B			183F	
183C		MONGOLIAN LETTER TSA	1840		MONGOLIAN LETTER LHA
	183C			1840	
		first form (initial)			first form (initial)
	183C			1840	
		first form (medial)			first form (medial)
	183C			1840	
		first form (final)			first form (final)
	183C			1840	
		first form (final)			first form (final)
	183C			1840	

1843	᠊	MONGOLIAN LETTER TODO LONG VOWEL SIGN
1843	᠊	first form (initial)
1843	᠊	first form (medial)
1843	᠊	first form (final)
1844	ᠡ	MONGOLIAN LETTER TODO E
1844	ᠡ	first form (isolate)
1844	ᠡ	first form (initial)
1844	ᠡ	first form (medial)
1844	ᠡ	first form (final)
1844	ᠡ	second form (medial)
1844 180B	ᠢ	MONGOLIAN LETTER TODO I
1845	ᠢ	first form (isolate)
1845	ᠢ	first form (initial)
1845	ᠢ	first form (medial)
1845	ᠢ	first form (final)
1845	ᠢ	second form (medial)
1845 180B		
1846	ᠣ	MONGOLIAN LETTER TODO O
1846	ᠣ	first form (isolate)
1846	ᠣ	first form (initial)
1846	ᠣ	first form (medial)
1846	ᠣ	first form (final)
1846	ᠣ	second form (medial)
1846 180B		
1847	ᠤ	MONGOLIAN LETTER TODO U
1847	ᠤ	first form (isolate)
1847	ᠤ	first form (initial)
1847	ᠤ	first form (medial)
1847	ᠤ	first form (final)
1847	ᠤ	second form (isolate)
1847 180B	ᠤ	second form (medial)
1847 180B	ᠤ	second form (final)
1847 180B	ᠤ	third form (medial)
1847 180C		

1848  MONGOLIAN LETTER TODO OE 1848  first form (isolate) 1848  first form (initial) 1848  first form (medial) 1848  first form (final) 1848  second form (medial)	184B  MONGOLIAN LETTER TODO BA 184B  first form (initial) 184B  first form (medial) 184B  first form (final) 184C  MONGOLIAN LETTER TODO PA 184C  first form (initial)
1849  MONGOLIAN LETTER TODO UE 1849  first form (isolate) 1849  first form (initial) 1849  first form (medial) 1849  first form (final) 1849  second form (isolate) 1849 180B  second form (medial)	184C  first form (medial) 184C  first form (final) 184D  MONGOLIAN LETTER TODO QA 184D  first form (initial) 184D  first form (medial) 184D  first form (final) 184D  second form (initial)
184A  MONGOLIAN LETTER TODO ANG 184A  first form (initial) 184A  first form (medial) 184A  first form (final)	184D 180B  second form (medial) 184D 180B

184E		MONGOLIAN LETTER TODO GA	1852		MONGOLIAN LETTER TODO CHA
184E		first form (isolate)	1852		first form (initial)
184E		first form (initial)	1852		first form (medial)
184E		first form (medial)	1852		first form (final)
184E		first form (final)	1853		MONGOLIAN LETTER TODO JA
184E		second form (medial)	1853		first form (initial)
184E 180B			1853		first form (medial)
184F		MONGOLIAN LETTER TODO MA	1853		first form (final)
184F		first form (initial)	1854		MONGOLIAN LETTER TODO TSA
184F		first form (medial)	1854		first form (initial)
184F		first form (final)	1854		first form (medial)
1850		MONGOLIAN LETTER TODO TA	1854		first form (final)
1850		first form (initial)	1855		MONGOLIAN LETTER TODO YA
1850		first form (medial)	1855		first form (initial)
1850		first form (final)	1855		first form (medial)
1851		MONGOLIAN LETTER TODO DA	1855		first form (final)
1851		first form (initial)	1855		
1851		first form (medial)			
1851		first form (final)			
1851					

1856		MONGOLIAN LETTER TODO WA	185D		MONGOLIAN LETTER SIBE E
1856		first form (initial)	185D		first form (isolate)
1856		first form (medial)	185D		first form (initial)
1856		first form (final)	185D		first form (medial)
1857		MONGOLIAN LETTER TODO KA	185D		first form (final)
1857		first form (initial)	185D		second form (medial)
1857		first form (medial)	185D 180B		second form (final)
1857		first form (final)	185D 180B		
1859		MONGOLIAN LETTER TODO HAA	185E		MONGOLIAN LETTER SIBE I
1859		first form (initial)	185E		first form (isolate)
1859		first form (medial)	185E		first form (initial)
1859		first form (final)	185E		first form (medial)
185C		MONGOLIAN LETTER TODO DZA	185E		first form (final)
185C		first form (initial)	185E		second form (medial)
185C		first form (medial)	185E 180B		second form (final)
185C		first form (final)	185E 180B		third form (medial)
185C			185E 180C		third form (final)
			185E 180C		

185F  MONGOLIAN LETTER SIBE IY 185F  first form (initial) 185F  first form (medial) 185F  first form (final) 1860  MONGOLIAN LETTER SIBE UE 1860  first form (isolate) 1860  first form (initial) 1860  first form (medial) 1860  first form (final) 1860  second form (medial) 1860 180B  second form (final) 1860 180B  MONGOLIAN LETTER SIBE U 1861  first form (isolate) 1861  first form (initial) 1861  first form (medial) 1861  first form (final) 1861	1862  MONGOLIAN LETTER SIBE ANG 1862  first form (initial) 1862  first form (medial) 1862  first form (final) 1863  MONGOLIAN LETTER SIBE KA 1863  first form (isolate) 1863  first form (initial) 1863  first form (medial) 1863  first form (final) 1863  second form (medial) 1863 180B  MONGOLIAN LETTER SIBE GA 1864  first form (isolate) 1864  first form (initial) 1864  first form (medial) 1864  first form (final) 1864
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1865  MONGOLIAN LETTER SIBE HA 1865  first form (isolate) 1865  first form (initial) 1865  first form (medial) 1865  first form (final) 1866  MONGOLIAN LETTER SIBE PA 1866  first form (initial) 1866  first form (medial) 1866  first form (final) 1867  MONGOLIAN LETTER SIBE SHA 1867  first form (initial) 1867  first form (medial) 1867  first form (final)	1868  MONGOLIAN LETTER SIBE TA 1868  first form (initial) 1868  first form (medial) 1868  first form (final) 1868  second form (initial) 1868 180B  second form (medial) 1868 180B  third form (medial) 1869  MONGOLIAN LETTER SIBE DA 1869  first form (initial) 1869  first form (medial) 1869  first form (final) 1869  second form (initial) 1869 180B  second form (medial) 186A  MONGOLIAN LETTER SIBE JA 186A  first form (initial) 186A  first form (medial) 186A  first form (final)
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186B  MONGOLIAN LETTER SIBE FA 186B  first form (initial) 186B  first form (medial) 186B  first form (final) 186E  MONGOLIAN LETTER SIBE TSA 186E  first form (initial) 186E  first form (medial) 186E  first form (final) 186F  MONGOLIAN LETTER SIBE ZA 186F  first form (initial) 186F  first form (medial) 186F  first form (final) 186F  second form (initial) 186F 180B  second form (medial) 1871  MONGOLIAN LETTER SIBE CHA 1871  first form (initial) 1871  first form (medial) 1871  first form (final)	1872  MONGOLIAN LETTER SIBE ZHA 1872  first form (initial) 1872  first form (medial) 1872  first form (final) 1873  MONGOLIAN LETTER MANCHU I 1873  first form (isolate) 1873  first form (initial) 1873  first form (medial) 1873  first form (final) 1873  second form (medial) 1873 180B  second form (final) 1873 180B  third form (medial) 1873 180C  third form (final) 1873 180C  fourth form (medial) 1873 180D
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1874 MONGOLIAN LETTER MANCHU KA 1874  1874  first form (isolate) 1874  first form (initial) 1874  first form (medial) 1874  first form (final) 1874  second form (medial) 1874 180B  second form (final) 1874 180B  third form (medial) 1874 180C  third form (final) 1874 180C  fourth form (medial)	1876 MONGOLIAN LETTER MANCHU FA 1876  1876  first form (initial) 1876  first form (medial) 1876  first form (final) 1876  second form (initial) 1876 180B  second form (medial)
1875 MONGOLIAN LETTER MANCHU RA 1875  1875  first form (initial) 1875  first form (medial) 1875  first form (final)	1877 MONGOLIAN LETTER MANCHU ZHA 1877  1877  first form (initial) 1877  first form (medial) 1877  first form (final) 1877  1878  first form (initial) 1878  first form (medial) 1878  first form (final)
	1880 MONGOLIAN LETTER ALI GALI ANUSVARA ONE 1880  1880  second form 1881 MONGOLIAN LETTER ALI GALI VISARGA ONE 1881  1881  second form

1887  MONGOLIAN LETTER ALI GALI A 1887  first form (isolate) 1887  first form (initial) 1887  first form (medial) 1887  first form (final) 1887  second form (isolate) 1887 180B  second form (final) 1887 180B  third form (final) 1887 180C  fourth form (final)	1889  MONGOLIAN LETTER ALI GALI KA 1889  first form (isolate) 1889  first form (initial) 1889  first form (medial) 1889  first form (final) 1889 188A  MONGOLIAN LETTER ALI GALI NG A 188A  first form (initial) 188A  first form (medial) 188A  first form (final) 188A  second form (initial) 188A 180B  second form (medial)
1888  MONGOLIAN LETTER ALI GALI I 1888  first form (isolate) 1888  first form (initial) 1888  first form (medial) 1888  first form (final) 1888  second form (final) 1888 180B	188B  MONGOLIAN LETTER ALI GALI CA 188B  first form (initial) 188B  first form (medial) 188B  first form (final) 188B

1894		MONGOLIAN LETTER ALI GALI SSA	189C		MONGOLIAN LETTER MANCHU ALI GALI CA
1894		first form (initial)	189C		first form (initial)
1894		first form (medial)	189C		first form (medial)
1894		first form (final)	189C		first form (final)
1896		MONGOLIAN LETTER ALI GALI ZA	189D		MONGOLIAN LETTER MANCHU ALI GALI JHA
1896		first form (initial)	189D		first form (initial)
1896		first form (medial)	189D		first form (medial)
1896		first form (final)	189D		first form (final)
189A		MONGOLIAN LETTER MANCHU ALI GALI GHA	189E		MONGOLIAN LETTER MANCHU ALI GALI TTA
189A		first form (initial)	189E		first form (initial)
189A		first form (medial)	189E		first form (medial)
189A		first form (final)	189E		first form (final)
189B		MONGOLIAN LETTER MANCHU ALI GALI NGA	189F		MONGOLIAN LETTER MANCHU ALI GALI DDHA
189B		first form (initial)	189F		first form (initial)
189B		first form (medial)	189F		first form (medial)
189B		first form (final)	189F		first form (final)

18A1		MONGOLIAN LETTER MANCHU ALI GALI DHA
18A1		first form (initial)
18A1		first form (medial)
18A1		first form (final)
18A2		MONGOLIAN LETTER MANCHU ALI GALI SSA
18A2		first form (initial)
18A2		first form (medial)
18A2		first form (final)
18A3		MONGOLIAN LETTER MANCHU ALI GALI CYA
18A3		first form (initial)
18A3		first form (medial)
18A3		first form (final)
18A4		MONGOLIAN LETTER MANCHU ALI GALI ZHA
18A4		first form (initial)
18A4		first form (medial)
18A4		first form (final)
18A4		
18A5		MONGOLIAN LETTER MANCHU ALI GALI ZA
18A5		first form (initial)
18A5		first form (medial)
18A5		first form (final)
18AA		MONGOLIAN LETTER MANCHU ALI GALI LHA
18AA		first form (initial)
18AA		first form (medial)
18AA		first form (final)
18AA		