

Title: Considerations on Mongolian Code Chart

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Reference: WG2 N4884

Summary: This document is proposing an update of the Mongolian code charts according to findings in document N4884. This has no bearing on the overall discussion concerning the Mongolian encoding model. The main goal is to ensure the most accurate representation of the current encoding of the Mongolian block.

The document N4884 'Positional Mismatches in Mongolian Encoding' contains in Appendix A contains a 'Full chart of the Mongolian variant specifications in TUS without editorial errors. That chart aims at representing the Mongolian code chart as intended (minus the newly proposed U+1878), including positional shapes and FVS variants. The differences between N4884 and the current Mongolian code charts in both Unicode 10.0 and the PDAM1.3 code charts are mainly classified in the following three categories:

- Treatment of isolates: N4884 does not always specify isolate forms, because they may not exist in Mongolian. On the other side, the expectation of the Unicode code chart was that the representative glyph was the isolate first form unless it was mentioned explicitly in the list of positional forms. The representative glyph is the glyph shown on the same line as the character name (and in the cells of the initial pages showing the glyphs in tabular format).
- Positional forms missing in the Unicode code charts. These charts are missing some isolate forms, therefore giving the incorrect impression that the current representative glyph are the isolate forms.
- Unattested position forms presented in the Unicode code charts. According to N4884, any empty cell in the table presented in its Appendix A represented unattested position forms (isolate, initial, medial, or final). For some characters, there are no positional forms presented at all. For others, only some are missing. On the other hand, the Unicode code charts tend to present a fully populated positional context because inherently there is no restriction in what can be created by a user, even if it does not make sense from an orthography point of view.

To address these issues, the author suggests modifying the Mongolian Unicode code charts in the following manners:

- 1) Explicitly state that unless mentioned explicitly, for any code point entry containing position forms, the representative glyph for the isolated first form is undefined,
- 2) Add the missing isolate first forms as specified by N4884,
- 3) When a code point has no positional forms in N4884, remove these in the code charts, this does not fully define the representative glyph for the isolated first form if any.
- 4) When a code point has no isolate first form in N4884, it will be implied by the above item 1 that the isolate first form is undefined. This can be modified in the future once the preferred isolate first forms are defined for additional Mongolian code points.
- 5) When a code point has some missing position forms other than isolate first form, it is suggested to use a generic symbol showing unattested, something like U+22A0 ☒. Once attestation or preferred practice is found, these positions can be populated by the appropriate glyph(s).

- 6) It is possible that some code points that have no position forms shown based on the item 3 above will be shown with such forms in the future, if evidences are found.

The following pages show a prototype of the modified Mongolian code charts per amendment 1.3 and the modification suggested above and can be the candidate representation for ISO/IEC 10646:2016 Amendment 1 and Unicode version 11.0.

Appendix

List of changes from Unicode 10.0 chart:

Removal of all positional forms for: 1806, 1807, 1841, 1842, 1858, 185A, 185B, 186C, 186D, 1870, 188C, 188D, 188E, 188F, 1890, 1891, 1892, 1893, 1895, 1897, 1898, 1899, 18A0, 18A6, 18A7, 18A8.

Removal of initial first form for: 1829, 1843, 184A, 185F, 1862, 1887, 1888

Removal of medial first form for: 1851, 1887, 1888, 1889

Removal of final first form for: 182C, 1836, 1840, 1844, 1855, 1864, 1865, 1866, 1869, 186A, 186B, 186E, 186F, 1871, 1872, 1876, 1877, 1889, 188A, 188B, 1894, 1896, 189A, 189B, 189C, 189D, 189E, 189F, 18A1, 18A2, 18A3, 18A4, 18A5, 18AA

Addition of isolate first form for: 1820, 1821, 1822, 1823, 1825, 1827, 182C, 182D, 1845, 1846, 1847, 1848, 1849, 184E, 1860, 1863, 1864, 1865, 1874, 1887, 1888, 1889.

List of explicitly recognized isolate first forms

The following code points have recognized explicit isolate first forms: 1820..1827, 182C..182D, 1845..1849, 184E, 185D, 185E, 1860..1861, 1863..1865, 1873..1874.

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	180	181	182	183	184	185	186	187	188	189	18A
0	 1800	 1810	 1820	 1830	 1840	 1850	 1860	 1870	 1880	 1890	 18A0
1	 1801	 1811	 1821	 1831	 1841	 1851	 1861	 1871	 1881	 1891	 18A1
2	 1802	 1812	 1822	 1832	 1842	 1852	 1862	 1872	 1882	 1892	 18A2
3	 1803	 1813	 1823	 1833	 1843	 1853	 1863	 1873	 1883	 1893	 18A3
4	 1804	 1814	 1824	 1834	 1844	 1854	 1864	 1874	 1884	 1894	 18A4
5	 1805	 1815	 1825	 1835	 1845	 1855	 1865	 1875	 1885	 1895	 18A5
6	 1806	 1816	 1826	 1836	 1846	 1856	 1866	 1876	 1886	 1896	 18A6
7	 1807	 1817	 1827	 1837	 1847	 1857	 1867	 1877	 1887	 1897	 18A7
8	 1808	 1818	 1828	 1838	 1848	 1858	 1868	 1878	 1888	 1898	 18A8
9	 1809	 1819	 1829	 1839	 1849	 1859	 1869	 1879	 1889	 1899	 18A9
A	 180A	 181A	 182A	 183A	 184A	 185A	 186A	 187A	 188A	 189A	 18AA
B	 180B	 181B	 182B	 183B	 184B	 185B	 186B	 187B	 188B	 189B	 18AB
C	 180C	 181C	 182C	 183C	 184C	 185C	 186C	 187C	 188C	 189C	 18AC
D	 180D	 181D	 182D	 183D	 184D	 185D	 186D	 187D	 188D	 189D	 18AD
E	 180E	 181E	 182E	 183E	 184E	 185E	 186E	 187E	 188E	 189E	 18AE
F	 180F	 181F	 182F	 183F	 184F	 185F	 186F	 187F	 188F	 189F	 18AF

Punctuation

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

- 1800 𐎯 MONGOLIAN BIRGA
→ 0F04 𐎯 tibetan mark initial yig mgo mdun ma
- 1801 𐎰 MONGOLIAN ELLIPSIS
- 1802 𐎱 MONGOLIAN COMMA
- 1803 𐎲 MONGOLIAN FULL STOP
- 1804 𐎳 MONGOLIAN COLON
- 1805 𐎴 MONGOLIAN FOUR DOTS
• marks the end of a chapter
- 1806 𐎵 MONGOLIAN TODO SOFT HYPHEN
• not a format control character, but simply a hyphen for Todo
→ 00AD 𐎵 soft hyphen
- 1807 𐎶 MONGOLIAN SIBE SYLLABLE BOUNDARY MARKER
- 1808 𐎷 MONGOLIAN MANCHU COMMA
- 1809 𐎸 MONGOLIAN MANCHU FULL STOP
- 180A 𐎹 MONGOLIAN NIRUGU

Format controls

- 180B 𐎺 MONGOLIAN FREE VARIATION SELECTOR ONE
• abbreviated FVS1
- 180C 𐎻 MONGOLIAN FREE VARIATION SELECTOR TWO
• abbreviated FVS2
- 180D 𐎼 MONGOLIAN FREE VARIATION SELECTOR THREE
• abbreviated FVS3
- 180E 𐎽 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 with no known distinct position forms shown are shown without them. Letters with unattested position forms use a special symbol 22A0 to indicate the lack of attestation.

- 1820 𐎿 MONGOLIAN LETTER A
→ 0430 а cyrillic small letter a
~ 1820 𐎿 first form (isolate)
~ 1820 𐎿 first form (initial)
~ 1820 𐎿 first form (medial)
~ 1820 𐎿 first form (final)
~ 1820 180B 𐎿 second form (isolate)
~ 1820 180B 𐎿 second form (medial)
~ 1820 180B 𐎿 second form (final)
~ 1820 180C 𐎿 third form (medial)

- 1821 𐏀 MONGOLIAN LETTER E
→ 044D э cyrillic small letter e
~ 1821 𐏀 first form (isolate)
~ 1821 𐏀 first form (initial)
~ 1821 𐏀 first form (medial)
~ 1821 𐏀 first form (final)
~ 1821 180B 𐏀 second form (initial)
~ 1821 180B 𐏀 second form (final)
- 1822 𐏁 MONGOLIAN LETTER I
→ 0438 и cyrillic small letter i
~ 1822 𐏁 first form (isolate)
~ 1822 𐏁 first form (initial)
~ 1822 𐏁 first form (medial)
~ 1822 𐏁 first form (final)
~ 1822 180B 𐏁 second form (medial)
- 1823 𐏂 MONGOLIAN LETTER O
→ 043E о cyrillic small letter o
~ 1823 𐏂 first form (isolate)
~ 1823 𐏂 first form (initial)
~ 1823 𐏂 first form (medial)
~ 1823 𐏂 first form (final)
~ 1823 180B 𐏂 second form (medial)
~ 1823 180B 𐏂 second form (final)
- 1824 𐏃 MONGOLIAN LETTER U
→ 0443 у cyrillic small letter u
~ 1824 𐏃 first form (isolate)
~ 1824 𐏃 first form (initial)
~ 1824 𐏃 first form (medial)
~ 1824 𐏃 first form (final)
~ 1824 180B 𐏃 second form (medial)
- 1825 𐏄 MONGOLIAN LETTER OE
→ 04E9 ө cyrillic small letter barred o
~ 1825 𐏄 first form (isolate)
~ 1825 𐏄 first form (initial)
~ 1825 𐏄 first form (medial)
~ 1825 𐏄 first form (final)
~ 1825 180B 𐏄 second form (medial)
~ 1825 180B 𐏄 second form (final)
~ 1825 180C 𐏄 third form (medial)
- 1826 𐏅 MONGOLIAN LETTER UE
→ 04AF ү cyrillic small letter straight u
~ 1826 𐏅 first form (isolate)
~ 1826 𐏅 first form (initial)
~ 1826 𐏅 first form (medial)
~ 1826 𐏅 first form (final)
~ 1826 180B 𐏅 second form (isolate)
~ 1826 180B 𐏅 second form (medial)
~ 1826 180B 𐏅 second form (final)
~ 1826 180C 𐏅 third form (medial)
- 1827 𐏆 MONGOLIAN LETTER EE
~ 1827 𐏆 first form (isolate)
~ 1827 𐏆 first form (initial)
~ 1827 𐏆 first form (medial)
~ 1827 𐏆 first form (final)
- 1828 𐏇 MONGOLIAN LETTER NA
→ 043D н cyrillic small letter en
~ 1828 𐏇 first form (initial)
~ 1828 𐏇 first form (medial)
~ 1828 𐏇 first form (final)
~ 1828 180B 𐏇 second form (initial)
~ 1828 180B 𐏇 second form (medial)
~ 1828 180C 𐏇 third form (medial)
~ 1828 180D 𐏇 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 ᠪ 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 ᠮ MONGOLIAN LETTER PA
 → 043F ᠮ cyrillic small letter pe
 ~ 182B ᠮ first form (initial)
 ~ 182B ᠮ first form (medial)
 ~ 182B ᠮ first form (final)
- 182C ᠬ MONGOLIAN LETTER QA
 → 0445 ᠬ 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 ᠭ 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 ᠡ MONGOLIAN LETTER MA
 → 043C ᠡ cyrillic small letter em
 ~ 182E ᠡ first form (initial)
 ~ 182E ᠡ first form (medial)
 ~ 182E ᠡ first form (final)
- 182F ᠢ MONGOLIAN LETTER LA
 → 043B ᠢ cyrillic small letter el
 ~ 182F ᠢ first form (initial)
 ~ 182F ᠢ first form (medial)
 ~ 182F ᠢ first form (final)
- 1830 ᠰ MONGOLIAN LETTER SA
 → 0441 ᠰ 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 ᠱ 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 ᠲ 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 ᠳ 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 ᠴ 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 ᠵ 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 ᠶ 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 ᠷ cyrillic small letter er
 ~ 1837 ᠷ first form (initial)
 ~ 1837 ᠷ first form (medial)
 ~ 1837 ᠷ first form (final)
- 1838 ᠸ MONGOLIAN LETTER WA
 → 0432 ᠸ cyrillic small letter ve
 ~ 1838 ᠸ first form (initial)
 ~ 1838 ᠸ first form (medial)
 ~ 1838 ᠸ first form (final)
 ~ 1838 180B ᠸ second form (final)
- 1839 ᠹ MONGOLIAN LETTER FA
 → 0444 ᠹ cyrillic small letter ef
 ~ 1839 ᠹ first form (initial)
 ~ 1839 ᠹ first form (medial)
 ~ 1839 ᠹ first form (final)
- 183A ᠨ MONGOLIAN LETTER KA
 → 0445 ᠨ cyrillic small letter ha
 ~ 183A ᠨ first form (initial)
 ~ 183A ᠨ first form (medial)
 ~ 183A ᠨ first form (final)
- 183B ᠬ MONGOLIAN LETTER KHA
 → 043A ᠬ cyrillic small letter ka
 ~ 183B ᠬ first form (initial)
 ~ 183B ᠬ first form (medial)
 ~ 183B ᠬ first form (final)

183C  **MONGOLIAN LETTER TSA**
 → 0446  cyrillic small letter tse
 ~ 183C  first form (initial)
 ~ 183C  first form (medial)
 ~ 183C  first form (final)

183D  **MONGOLIAN LETTER ZA**
 → 0437  cyrillic small letter ze
 ~ 183D  first form (initial)
 ~ 183D  first form (medial)
 ~ 183D  first form (final)

183E  **MONGOLIAN LETTER HAA**
 → 0445  cyrillic small letter ha
 ~ 183E  first form (initial)
 ~ 183E  first form (medial)
 ~ 183E  first form (final)

183F  **MONGOLIAN LETTER ZRA**
 → 0436  cyrillic small letter zhe
 ~ 183F  first form (initial)
 ~ 183F  first form (medial)
 ~ 183F  first form (final)

1840  **MONGOLIAN LETTER LHA**
 ~ 1840  first form (initial)
 ~ 1840  first form (medial)
 ~ 1840  first form (final)

1841  **MONGOLIAN LETTER ZHI**

1842  **MONGOLIAN LETTER CHI**

Todo letters

1843  **MONGOLIAN LETTER TODO LONG VOWEL SIGN**
 ~ 1843  first form (initial)
 ~ 1843  first form (medial)
 ~ 1843  first form (final)

1844  **MONGOLIAN LETTER TODO E**
 ~ 1844  first form (initial)
 ~ 1844  first form (medial)
 ~ 1844  first form (final)
 ~ 1844 180B  second form (medial)

1845  **MONGOLIAN LETTER TODO I**
 ~ 1845  first form (isolate)
 ~ 1845  first form (initial)
 ~ 1845  first form (medial)
 ~ 1845  first form (final)
 ~ 1845 180B  second form (medial)

1846  **MONGOLIAN LETTER TODO O**
 ~ 1846  first form (isolate)
 ~ 1846  first form (initial)
 ~ 1846  first form (medial)
 ~ 1846  first form (final)
 ~ 1846 180B  second form (medial)

1847  **MONGOLIAN LETTER TODO U**
 ~ 1847  first form (isolate)
 ~ 1847  first form (initial)
 ~ 1847  first form (medial)
 ~ 1847  first form (final)
 ~ 1847 180B  second form (isolate)
 ~ 1847 180B  second form (medial)
 ~ 1847 180B  second form (final)
 ~ 1847 180C  third form (medial)

1848  **MONGOLIAN LETTER TODO OE**
 ~ 1848  first form (isolate)
 ~ 1848  first form (initial)
 ~ 1848  first form (medial)
 ~ 1848  first form (final)
 ~ 1848 180B  second form (medial)

1849  **MONGOLIAN LETTER TODO UE**
 ~ 1849  first form (isolate)
 ~ 1849  first form (initial)
 ~ 1849  first form (medial)
 ~ 1849  first form (final)
 ~ 1849 180B  second form (isolate)
 ~ 1849 180B  second form (medial)

184A  **MONGOLIAN LETTER TODO ANG**
 ~ 184A  first form (initial)
 ~ 184A  first form (medial)
 ~ 184A  first form (final)

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)
 ~ 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 180B  second form (initial)
 ~ 184D 180B  second form (medial)

184E  **MONGOLIAN LETTER TODO GA**
 ~ 184E  first form (isolate)
 ~ 184E  first form (initial)
 ~ 184E  first form (medial)
 ~ 184E  first form (final)
 ~ 184E 180B  second form (medial)

184F  **MONGOLIAN LETTER TODO MA**
 ~ 184F  first form (initial)
 ~ 184F  first form (medial)
 ~ 184F  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 ࠨ MONGOLIAN LETTER SIBE ZHA

- ~ 1872 ࠨ first form (initial)
- ~ 1872 ࠨ first form (medial)
- ~ 1872 ࠨ 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 NGU

- ~ 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 ࠽ MONGOLIAN LETTER ALI GALI SSA

- ~ 1894 ࠽ first form (initial)
- ~ 1894 ࠽ first form (medial)
- ~ 1894 ࠽ first form (final)

1895 ࠽ MONGOLIAN LETTER ALI GALI ZHA

1896 ࠽ MONGOLIAN LETTER ALI GALI ZA

- ~ 1896 ࠽ first form (initial)
- ~ 1896 ࠽ first form (medial)
- ~ 1896 ࠽ first form (final)

1897 ࠽ MONGOLIAN LETTER ALI GALI AH

1898 ࠽ MONGOLIAN LETTER TODO ALI GALI TA

1899 ࠽ MONGOLIAN LETTER TODO ALI GALI ZHA

189A ࠽ MONGOLIAN LETTER MANCHU ALI GALI GHA

- ~ 189A ࠽ first form (initial)
- ~ 189A ࠽ first form (medial)
- ~ 189A ࠽ first form (final)

189B ࠽ MONGOLIAN LETTER MANCHU ALI GALI NGU

- ~ 189B ࠽ first form (initial)
- ~ 189B ࠽ first form (medial)
- ~ 189B ࠽ first form (final)

189C ࠽ MONGOLIAN LETTER MANCHU ALI GALI CA

- ~ 189C ࠽ first form (initial)
- ~ 189C ࠽ first form (medial)
- ~ 189C ࠽ first form (final)

- 189D  MONGOLIAN LETTER MANCHU ALI GALI JHA
 ~ 189D  first form (initial)
 ~ 189D  first form (medial)
 ~ 189D  first form (final)
- 189E  MONGOLIAN LETTER MANCHU ALI GALI TTA
 ~ 189E  first form (initial)
 ~ 189E  first form (medial)
 ~ 189E  first form (final)
- 189F  MONGOLIAN LETTER MANCHU ALI GALI DDHA
 ~ 189F  first form (initial)
 ~ 189F  first form (medial)
 ~ 189F  first form (final)
- 18A0  MONGOLIAN LETTER MANCHU ALI GALI TA
- 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)
- 18A5  MONGOLIAN LETTER MANCHU ALI GALI ZA
 ~ 18A5  first form (initial)
 ~ 18A5  first form (medial)
 ~ 18A5  first form (final)
- 18A6  MONGOLIAN LETTER ALI GALI HALF U
- 18A7  MONGOLIAN LETTER ALI GALI HALF YA
- 18A8  MONGOLIAN LETTER MANCHU ALI GALI BHA
- 18A9  MONGOLIAN LETTER ALI GALI DAGALGA
- 18AA  MONGOLIAN LETTER MANCHU ALI GALI LHA
 ~ 18AA  first form (initial)
 ~ 18AA  first form (medial)
 ~ 18AA  first form (final)

Contextual Variants and Standardized Variation Sequences

Unlike other blocks, these variation sequences use the script-specific variation selectors for Mongolian.

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)

1820 180C

1821



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)

1821 180B

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



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

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

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) 182E  MONGOLIAN LETTER MA 182E  first form (initial) 182E  first form (medial) 182E  first form (final) 182F  MONGOLIAN LETTER LA 182F  first form (initial) 182F  first form (medial) 182F  first form (final)	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) 1831  MONGOLIAN LETTER SHA 1831  first form (initial) 1831  first form (medial) 1831  first form (final) 1832  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 ᠳ MONGOLIAN LETTER DA 1833 ᠳ first form (initial) 1833 ᠳ first form (medial) 1833 ᠳ first form (final) 1833 ᠳ second form (initial) 1833 180B ᠳ second form (medial) 1833 180B ᠳ second form (final) 1833 180B 1834 ᠴ MONGOLIAN LETTER CHA 1834 ᠴ first form (initial) 1834 ᠴ first form (medial) 1834 ᠴ first form (final) 1834 ᠵ MONGOLIAN LETTER JA 1835 ᠵ first form (initial) 1835 ᠵ first form (medial) 1835 ᠵ first form (final) 1835 ᠵ second form (medial) 1835 180B	1836 ᠶ MONGOLIAN LETTER YA 1836 ᠶ first form (initial) 1836 ᠶ first form (medial) 1836 ᠶ first form (final) 1836 ᠶ second form (initial) 1836 180B ᠶ second form (medial) 1836 180B ᠶ third form (medial) 1836 180C 1837 ᠷ MONGOLIAN LETTER RA 1837 ᠷ first form (initial) 1837 ᠷ first form (medial) 1837 ᠷ first form (final) 1837 ᠸ MONGOLIAN LETTER WA 1838 ᠸ first form (initial) 1838 ᠸ first form (medial) 1838 ᠸ first form (final) 1838 ᠸ second form (final) 1838 180B
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1839		MONGOLIAN LETTER FA
1839		first form (initial)
1839		first form (medial)
1839		first form (final)
183A		MONGOLIAN LETTER KA
183A		first form (initial)
183A		first form (medial)
183A		first form (final)
183B		MONGOLIAN LETTER KHA
183B		first form (initial)
183B		first form (medial)
183B		first form (final)
183C		MONGOLIAN LETTER TSA
183C		first form (initial)
183C		first form (medial)
183C		first form (final)
183D		MONGOLIAN LETTER ZA
183D		first form (initial)
183D		first form (medial)
183D		first form (final)
183E		MONGOLIAN LETTER HAA
183E		first form (initial)
183E		first form (medial)
183E		first form (final)
183F		MONGOLIAN LETTER ZRA
183F		first form (initial)
183F		first form (medial)
183F		first form (final)
1840		MONGOLIAN LETTER LHA
1840		first form (initial)
1840		first form (medial)
1840		first form (final)

1843	ᠤ	MONGOLIAN LETTER TODO LONG VOWEL SIGN
1843	ᠤ	first form (initial)
1843	ᠤ	first form (medial)
1843	ᠤ	first form (final)
1844	ᠡ	MONGOLIAN LETTER TODO E
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	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	ᠣ	second form (medial)
1847 180B	ᠤ	second form (final)
1847 180B	ᠣ	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 184E  first form (isolate) 184E  first form (initial) 184E  first form (medial) 184E  first form (final) 184E  second form (medial) 184E 180B  MONGOLIAN LETTER TODO MA 184F  first form (initial) 184F  first form (medial) 184F  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)
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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) 1859  MONGOLIAN LETTER TODO HAA 1859  first form (initial) 1859  first form (medial) 1859  first form (final) 185C  MONGOLIAN LETTER TODO DZA 185C  first form (initial) 185C  first form (medial) 185C  first form (final)	185D  MONGOLIAN LETTER SIBE E 185D  first form (isolate) 185D  first form (initial) 185D  first form (medial) 185D  first form (final) 185D  second form (medial) 185D 180B  second form (final) 185D 180B  MONGOLIAN LETTER SIBE I 185E  first form (isolate) 185E  first form (initial) 185E  first form (medial) 185E  first form (final) 185E  second form (medial) 185E 180B  second form (final) 185E 180B  third form (medial) 185E 180C  third form (final) 185E 180C
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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) 1861  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)
1868 180C		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)
1869 180B		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) 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		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)
1874 180D		
1875		MONGOLIAN LETTER MANCHU RA
1875		first form (initial)
1875		first form (medial)
1875		first form (final)
1875		
1876		MONGOLIAN LETTER MANCHU FA
1876		first form (initial)
1876		first form (medial)
1876		first form (final)
1876		second form (initial)
1876 180B		second form (medial)
1876 180B		
1877		MONGOLIAN LETTER MANCHU ZHA
1877		first form (initial)
1877		first form (medial)
1877		first form (final)
1877		
1878		MONGOLIAN LETTER CHA WITH TWO DOTS
1878		first form (initial)
1878		first form (medial)
1878		first form (final)
1878		
1880		MONGOLIAN LETTER ALI GALI ANUSVARA ONE
1880		second form
1880 180B		
1881		MONGOLIAN LETTER ALI GALI VISARGA ONE
1881		second form
1881 180B		

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) 1887 180D  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	1889  MONGOLIAN LETTER ALI GALI KA 1889  first form (isolate) 1889  first form (initial) 1889  first form (medial) 1889  first form (final) 1889  MONGOLIAN LETTER ALI GALI NGA 188A  first form (initial) 188A  first form (medial) 188A  first form (final) 188A  second form (initial) 188A 180B  second form (medial) 188A 180B  MONGOLIAN LETTER ALI GALI CA 188B  first form (initial) 188B  first form (medial) 188B  first form (final) 188B
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1894  MONGOLIAN LETTER ALI GALI SSA 1894  first form (initial) 1894  first form (medial) 1894  first form (final)	189C  MONGOLIAN LETTER MANCHU ALI GALI CA 189C  first form (initial) 189C  first form (medial) 189C  first form (final)
1896  MONGOLIAN LETTER ALI GALI ZA 1896  first form (initial) 1896  first form (medial) 1896  first form (final)	189D  MONGOLIAN LETTER MANCHU ALI GALI JHA 189D  first form (initial) 189D  first form (medial) 189D  first form (final)
189A  MONGOLIAN LETTER MANCHU ALI GALI GHHA 189A  first form (initial) 189A  first form (medial) 189A  first form (final)	189E  MONGOLIAN LETTER MANCHU ALI GALI TTA 189E  first form (initial) 189E  first form (medial) 189E  first form (final)
189B  MONGOLIAN LETTER MANCHU ALI GALI NGA 189B  first form (initial) 189B  first form (medial) 189B  first form (final)	189F  MONGOLIAN LETTER MANCHU ALI GALI DDHA 189F  first form (initial) 189F  first form (medial) 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)	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)
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