

# MONGOLIAN BASE FORMS, POSITIONAL FORMS, & VARIANT FORMS

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**TARGET AUDIENCE:** Font developers

**OBJECTIVE:** Full specification of Mongolian/Todo/Sibe/Manchu/Aligali script base forms, positional forms, and variant forms. It should be noted that full specification of implementation logic is beyond the scope of this paper. It should be noted that the emphasis of this paper is stand-alone text rather than running text. However, all running text forms, aside from ligatures should be found here.

## LEGEND

The first line of a given character section will always give the Unicode form. If the Unicode form matches the main isolate form, then there will be no line for the isolate and it will be understood that the first line of a section also gives the main isolate form. Given this situation along with there being another isolate, the second line will define the second isolate. Given the rare case where the Unicode presentation glyph is not the main stand-alone isolate, the first line will define the Unicode glyph as already stated, the second line will define the first/main isolate, the second line and following will define additional potential isolates.

\$ – Ligatures formed at this code-point appear in the initial-medial, initial-final, medial-medial, medial-final positions. These code-points should actually include an isolate loop to signify the initial/medial feminine forms which are found in the ligatures but never show up independently

\* – Feminine ligatures formed using this consonantal isolate appear in the initial-medial, initial-final, medial-medial, medial-final positions

& – Variants used with the FVS only for reasons of stylistics, archaic anomalies as well as some few contemporary spelling anomalies, compound spellings, and foreign spellings

% – Unicode code-point forms are not specified as an isolate therefore the only way of viewing these glyphs is by positional simulation using ZWJ. FVS specification should be a future consideration for ease of usage in stand-alone environments.

There are 13 such cases.

(X<sub>1</sub>X<sub>2</sub>X<sub>3</sub>X<sub>4</sub>) – denotes script usage (X<sub>1</sub>=Mongolian, X<sub>2</sub>=Todo, X<sub>3</sub>=Sibe, X<sub>4</sub>=Manchu); positional glyphs which show no “X” at all are to be understood as undefined

**Yellow highlighting** denotes a difference from the Chinese Standard GB/T 26226-2010

**Purple highlighting** indicates the proposal for a new FVS assignment

**Blue highlighting** notes a need for refinement or just additional information

NOTE: There is an appendix to this paper which discusses the MVS model (DS00-MVS) as well as the NNBSB model (DS00-NNBSB). Assumptions inherent to these models will impact certain notations in this paper.

## Punctuation

1800	(xx_)	?	MONGOLIAN BIRGA
11660	(xx_)	᠋?	MONGOLIAN BIRGA WITH ORNAMENT
11664	(xx_)	᠋᠋	MONGOLIAN BIRGA WITH DOUBLE ORNAMENT
11662	(xx_)	᠋᠋᠋	MONGOLIAN DOUBLE BIRGA WITH ORNAMENT
11663	(xx_)	᠋᠋᠋᠋	MONGOLIAN TRIPLE BIRGA WITH ORNAMENT
11661	(xx_)	᠋	MONGOLIAN ROTATED BIRGA
11665	(xx_)	᠋	MONGOLIAN ROTATED BIRGA WITH ORNAMENT
11666	(xx_)	᠋᠋	MONGOLIAN ROTATED BIRGA WITH DOUBLE ORNAMENT
11667	(xx_)	᠋	MONGOLIAN INVERTED BIRGA
11668	(xx_)	᠋᠋	MONGOLIAN INVERTED BIRGA WITH DOUBLE ORNAMENT
11669	(xx_)	᠋	MONGOLIAN SWIRL BIRGA
1166A	(xx_)	᠋᠋	MONGOLIAN SWIRL BIRGA WITH ORNAMENT
1166B	(xx_)	᠋᠋᠋	MONGOLIAN SWIRL BIRGA WITH DOUBLE ORNAMENT
1166C	(xx_)	᠋᠋᠋᠋	MONGOLIAN TURNED SWIRL BIRGA WITH DOUBLE ORNAMENT
1801	(xxxx)	᠋᠋᠋᠋	MONGOLIAN ELLIPSIS
1802	(xx_)	᠋	MONGOLIAN COMMA
1803	(xx_)	᠋᠋	MONGOLIAN FULL STOP
1804	(xxxx)	᠋	MONGOLIAN COLON
1805	(xx_)	᠋᠋᠋᠋	MONGOLIAN FOUR DOTS
1806	(_x_)	᠋	MONGOLIAN TODO SOFT HYPHEN

1808	(__x)	᠋	MONGOLIAN MANCHU COMMA
1809	(__x)	᠋᠋	MONGOLIAN MANCHU FULL STOP

## Marks

1885	(xx_x)	᠋᠋᠋	MONGOLIAN LETTER ALI GALI BALUDA (this is not a letter – it is a diacritic mark; should have the perforated circle added here)
1886	(xx_x)	᠋᠋᠋᠋	MONGOLIAN LETTER ALI GALI THREE BALUDA (this is not a letter – it is a diacritic mark; should have the perforated circle added here)
18A9	(x__)	᠋᠋	MONGOLIAN LETTER ALI GALI DAGALGA (this is not a letter – it is a diacritic mark)

## Control Characters

180B	(xxxx)	᠋᠋᠋᠋	MONGOLIAN FREE VARIATION SELECTOR ONE
180C	(xxxx)	᠋᠋᠋᠋	MONGOLIAN FREE VARIATION SELECTOR TWO
180D	(xxxx)	᠋᠋᠋᠋	MONGOLIAN FREE VARIATION SELECTOR THREE
180E	(x__)	᠋᠋	MONGOLIAN VOWEL SEPARATOR
180F	(xxxx)	᠋᠋᠋᠋	MONGOLIAN FREE VARIATION SELECTOR FOUR

STATUS: Check to see whether this is in the new 2016 Chinese Standard (graphic will show a “4”)

NOTE: A Mongolian vertical font should also include the control characters NNBSB (202F), ZWJ (200D) and ZNWJ (200C))

## Numbers

(rotated 90 degrees clockwise in vertical display)

1810	(xx_)	0	MONGOLIAN DIGIT ZERO
1811	(xx_)	᠑	MONGOLIAN DIGIT ONE
1812	(xx_)	᠒	MONGOLIAN DIGIT TWO
1813	(xx_)	᠓	MONGOLIAN DIGIT THREE
1814	(xx_)	᠔	MONGOLIAN DIGIT FOUR
1815	(xx_)	᠕	MONGOLIAN DIGIT FIVE
1816	(xx_)	᠖	MONGOLIAN DIGIT SIX
1817	(xx_)	᠗	MONGOLIAN DIGIT SEVEN
1818	(xx_)	᠘	MONGOLIAN DIGIT EIGHT
1819	(xx_)	᠙	MONGOLIAN DIGIT NINE

NOTE: These digits should also be rotate-able 270 degrees clockwise from current display (either by the font or by upper-level layout)

NOTE: A Mongolian vertical font should also have Latin digits which will rotate 270 degrees clockwise from current display also (either by the font or by upper-level layout)

- 181A <reserved>
- 181B <reserved>
- 181C <reserved>
- 181D <reserved>
- 181E <reserved>
- 181F <reserved>

### Mongolian Letters

1807 ( \_x ) ᠎ MONGOLIAN SIBE SYLLABLE BOUNDARY MARKER

- 1807+ZWJ ( ) ᠎ *Initial Form*
- ZWJ+1807+ZWJ ( \_x ) ᠎ *Medial Form*
- ZWJ+1807 ( ) ᠎ *Final Form*

180A (xxxx) ᠏ MONGOLIAN NIRUGU

- 180A+ZWJ (xxxx) ᠏ *Initial Form*
- ZWJ+180A+ZWJ (xxxx) ᠏ *Medial Form*
- ZWJ+180A (xxxx) ᠏ *First Final Form*

STATUS: Check to see whether this is in the new 2016 Chinese Standard

ZWJ+180A+FVS1 (xxxx) ᠏ *Second Final Form*

STATUS: Not expected to be in the new 2016 Chinese Standard

1820 (xxxx) ᠋ MONGOLIAN LETTER A

- 1820+FVS1 (xx\_) ᠋ *Second Isolate Form*
- 1820+ZWJ (xxxx) ᠋ *First Initial Form*
- ZWJ+1820+ZWJ (xxxx) ᠋ *First Medial Form*
- ZWJ+1820+FVS1+ZWJ (xx\_) ᠋ *Second Medial Form<sup>ⓔ</sup>*
- ZWJ+1820+FVS2+ZWJ (xx\_) ᠋ *Third Medial Form*

(only implemented with NNBSPP - actually - processed as initial in ACA suffix)

ZWJ+1820 (xxxx) ᠋ *First Final Form*

ZWJ+1820+FVS1 (xx\_) ᠋ *Second Final Form*

(only implemented with MVS/NNBSPP)

1821 (x\_) ᠋ MONGOLIAN LETTER E

- 1821+ZWJ (x\_) ᠋ *First Initial Form*
- 1821+FVS1+ZWJ (x\_) ᠋ *Second Initial Form<sup>ⓔ</sup>*
- ZWJ+1821+ZWJ (x\_) ᠋ *Medial Form*
- ZWJ+1821 (x\_) ᠋ *First Final Form*
- ZWJ+1821+FVS1 (x\_) ᠋ *Second Final Form*

(only implemented with MVS/NNBSPP)

1822 (x\_) ᠋ MONGOLIAN LETTER I

- 1822+ZWJ (x\_) ᠋ *Initial Form*
  - ZWJ+1822+ZWJ (x\_) ᠋ *First Medial Form*
- (also implemented with NNBSPP - actually processed as initial with instrumental suffix)
- ZWJ+1822+FVS1+ZWJ (x\_) ᠋ *Second Medial Form<sup>ⓔ</sup>*

ZWJ+1822+FVS2+ZWJ (x\_) ᠋ *Third Medial Form*

STATUS: Check to see whether this is in the new 2016 Chinese Standard

ZWJ+1822+FVS3+ZWJ (x\_) ᠋ *Fourth Medial Form*

STATUS: Check to see whether this is in the new 2016 Chinese Standard

(needed to over-ride default context) (NAI+FVS2+MA)

ZWJ+1822 (x\_) ᠋ *First Final Form*

(also implemented with NNBSPP - actually processed as isolate in accusative suffix)

ZWJ+1822+FVS1 (x\_) ᠋ *Second Final Form*

STATUS: Check to see whether this is in the new 2016 Chinese Standard

1823 (x\_xx) ᠋ MONGOLIAN LETTER O

- 1823+ZWJ (x\_xx) ᠋ *Initial Form*
- ZWJ+1823+ZWJ (x\_xx) ᠋ *First Medial Form*
- ZWJ+1823+FVS1+ZWJ (x\_) ᠋ *Second Medial Form<sup>ⓔ</sup>*
- ZWJ+1823 (x\_xx) ᠋ *First Final Form*
- ZWJ+1823+FVS1 (x\_xx) ᠋ *Second Final Form<sup>ⓔ</sup>*

1824 (x\_) ᠋ MONGOLIAN LETTER U

- 1824 (x\_) ᠋ *First Isolate Form*
  - 1824+FVS1 (x\_) ᠋ *Second Isolate Form*
- (NOTE: this is also the Unicode presentation form)

- 1824+ZWJ (x\_) ᠋ *Initial Form*
- ZWJ+1824+ZWJ (x\_) ᠋ *First Medial Form*

(also implemented with NNBSPP - actually processed as initial in genitive suffix)

ZWJ+1824+FVS1+ZWJ (x\_) ᠋ *Second Medial Form<sup>ⓔ</sup>*

ZWJ+1824 (x\_) ᠋ *First Final Form*

(also implemented with NNBSPP - actually processed as isolate in genitive suffix)

ZWJ+1824+FVS1 (x\_) ᠋ *Second Final Form<sup>ⓔ</sup>*

STATUS: Check to see whether this is in the new 2016 Chinese Standard

ZWJ+1824+FVS2 (x\_) ᠋ *Third Final Form*

STATUS: Check to see whether this is in the new 2016 Chinese Standard

(dotted - only implemented with NNBSPP - actually processed as isolate in genitive suffix)

1825 (x\_) ᠋ MONGOLIAN LETTER OE

- 1825+ZWJ (x\_) ᠋ *Initial Form*
  - ZWJ+1825+ZWJ (x\_) ᠋ *First Medial Form*
  - ZWJ+1825+FVS1+ZWJ (x\_) ᠋ *Second Medial Form*
- (context-driven)

ZWJ+1825+FVS2+ZWJ (x\_) ᠋ *Third Medial Form<sup>ⓔ</sup>*

ZWJ+1825 (x\_) ᠋ *First Final Form*

ZWJ+1825+FVS1 (x\_) ᠋ *Second Final Form<sup>ⓔ</sup>*

1826 (x\_) ᠋ MONGOLIAN LETTER UE

- 1826 (x\_) ᠋ *First Isolate Form*
  - 1826+FVS1 (x\_) ᠋ *Second Isolate Form*
  - 1826+FVS2 (x\_) ᠋ *Third Isolate Form*
- (NOTE: this is also the Unicode presentation form)
- 1826+ZWJ (x\_) ᠋ *Initial Form*

ZWJ+1826+ZWJ	᠋ (x_) <i>First Medial Form</i> <small>(also implemented with NNBSF actually processed as initial in genitive suffix)</small>
ZWJ+1826+FVS1+ZWJ	᠋ (x_) <i>Second Medial Form</i> <small>(context-driven)</small>
ZWJ+1826+FVS2+ZWJ	᠋ (x_) <i>Third Medial Form</i> <sup>᠋</sup>
ZWJ+1826+FVS3+ZWJ	᠋ (x_) <i>Fourth Medial Form</i> <small>STATUS: Check to see whether this is in the new 2016 Chinese Standard (needed to handle DUEGER without NNBSF)</small>
ZWJ+1826	᠋ (x_) <i>First Final Form</i> <small>(also implemented with NNBSF actually processed as isolate in genitive suffix)</small>
ZWJ+1826+FVS1	᠋ (x_) <i>Second Final Form</i> <sup>᠋</sup>
ZWJ+1826+FVS2	᠋ (x_) <i>Third Final Form</i> <small>STATUS: Check to see whether this is in the new 2016 Chinese Standard (dotted - only implemented with NNBSF - actually processed as isolate in genitive suffix)</small>

1827 (x_) ᠋	MONGOLIAN LETTER EE
1827+ZWJ	᠋ (x_) <i>Initial Form</i>
ZWJ+1827+ZWJ	᠋ (x_) <i>Medial Form</i>
ZWJ+1827	᠋ (x_) <i>Final Form</i>

1828 (xxxx) ᠋	MONGOLIAN LETTER NA
1828+ZWJ	᠋ (xxxx) <i>First Initial Form</i> <small>(also context-driven in Todo)</small>
1828+FVS1+ZWJ	᠋ (x_) <i>Second Initial Form</i> <sup>᠋</sup>
ZWJ+1828+ZWJ	᠋ (xxxx) <i>First Medial Form</i> <small>(context-driven) (may be implemented as a toggle)</small>
ZWJ+1828+FVS1+ZWJ	᠋ (xxxx) <i>Second Medial Form</i> <small>(context-driven as a toggle, so in actuality could be dotted or undotted)</small>
ZWJ+1828+FVS2+ZWJ	᠋ (x_) <i>Third Medial Form</i> <small>(only implemented with MVS actually - processed as final when pre-MVS)</small>
ZWJ+1828+FVS3+ZWJ	᠋ (x_) <i>Fourth Medial Form</i> <small>(context-driven, Todo only)</small>
ZWJ+1828+FVS4+ZWJ	᠋ (x_) <i>Fifth Medial Form</i> <small>STATUS: Not expected to be in the new 2016 Chinese Standard (AN+FVS4+AR must remove the dot)</small>
ZWJ+1828	᠋ (xxxx) <i>First Final Form</i>

1829 (x_x) ᠋	MONGOLIAN LETTER ANG
1829+ZWJ	᠋ (x_) <i>Initial Form</i>
ZWJ+1829+ZWJ	᠋ (x_x) <i>Medial Form</i>
ZWJ+1829	᠋ (x_x) <i>Final Form</i>

182A (x_xx) ᠋	MONGOLIAN LETTER BA <sup>s</sup>
182A+ZWJ	᠋ (x_xx) <i>Initial Form</i>
ZWJ+182A+ZWJ	᠋ (x_xx) <i>Medial Form</i>
ZWJ+182A	᠋ (x_xx) <i>First Final Form</i>
ZWJ+182A+FVS1	᠋ (x_) <i>Second Final Form</i> <sup>᠋</sup>

182B (x_) ᠋	MONGOLIAN LETTER PA <sup>s</sup>
182B+ZWJ	᠋ (x_) <i>Initial Form</i>
ZWJ+182B+ZWJ	᠋ (x_) <i>Medial Form</i>
ZWJ+182B	᠋ (x_) <i>Final Form</i>

182C (x_) ᠋	MONGOLIAN LETTER QA
182C+FVS1	᠋ (x_) <i>Second Isolate Form</i> <sup>*</sup>

182C+FVS2	᠋ (x_) <i>Third Isolate Form</i> <sup>*</sup>
182C+ZWJ	᠋ (x_) <i>First Initial Form</i>
182C+FVS1+ZWJ	᠋ (x_) <i>Second Initial Form</i> <sup>᠋</sup>
182C+FVS2+ZWJ	᠋ (x_) <i>Third Initial Form</i> <small>STATUS: Check to see whether this is in the new 2016 Chinese Standard</small>
ZWJ+182C+ZWJ	᠋ (x_) <i>First Medial Form</i>
ZWJ+182C+FVS1+ZWJ	᠋ (x_) <i>Second Medial Form</i> <sup>᠋</sup>
ZWJ+182C+FVS2+ZWJ	᠋ (x_) <i>Third Medial Form</i> <small>(actually - processed as final when pre-MVS) (Chinese Standard has dotted variant first - however all fonts show non-dotted variant first)</small>
ZWJ+182C+FVS3+ZWJ	᠋ (x_) <i>Fourth Medial Form</i> <sup>᠋</sup> <small>(actually - processed as final when pre-MVS) (Chinese Standard has dotted variant first - however all fonts show non-dotted variant first)</small>

182D (x_) ᠋	MONGOLIAN LETTER GA
182D+FVS1	᠋ (x_) <i>Second Isolate Form</i> <sup>*</sup> <small>(Chinese Standard uses ZWJ instead of FVS)</small>
182D+FVS2	᠋ (x_) <i>Third Isolate Form</i> <sup>*</sup>
182D+ZWJ	᠋ (x_) <i>First Initial Form</i>
182D+FVS1+ZWJ	᠋ (x_) <i>Second Initial Form</i> <sup>᠋</sup>
182D+FVS2+ZWJ	᠋ (x_) <i>Third Initial Form</i> <small>STATUS: Check to see whether this is in the new 2016 Chinese Standard (context-driven)</small>
ZWJ+182D+ZWJ	᠋ (x_) <i>First Medial Form</i>
ZWJ+182D+FVS1+ZWJ	᠋ (x_) <i>Second Medial Form</i> <small>(context-driven)</small>
ZWJ+182D+FVS2+ZWJ	᠋ (x_) <i>Third Medial Form</i> <small>(only implemented with MVS) (actually - processed as final when pre-MVS)</small>
ZWJ+182D+FVS3+ZWJ	᠋ (x_) <i>Fourth Medial Form</i> <small>(context-driven)</small>
ZWJ+182D+FVS4+ZWJ	᠋ (x_) <i>Fifth Medial Form</i> <small>STATUS: Check to see whether this is in the new 2016 Chinese Standard (needed to over-ride default context) (COG+FVS4+A+FVS1+GULA)</small>
ZWJ+182D	᠋ (x_) <i>First Final Form</i> <small>(NOTE: error in Chinese Standard - missing)</small>
ZWJ+182D+FVS1	᠋ (x_) <i>Second Final Form</i> <small>(needed to over-ride default context) (SIG+FVS1)</small>
ZWJ+182D+FVS2	᠋ (x_) <i>Third Final Form</i> <small>(context-driven) (ABSIG+FVS2)</small>

182E (x_xx) ᠋	MONGOLIAN LETTER MA
182E+ZWJ	᠋ (x_xx) <i>Initial Form</i>
ZWJ+182E+ZWJ	᠋ (x_xx) <i>Medial Form</i>
ZWJ+182E	᠋ (x_xx) <i>Final Form</i> <small>(also implemented with MVS)</small>

182F (xxxx) ᠋	MONGOLIAN LETTER LA
182F+ZWJ	᠋ (xxxx) <i>Initial Form</i>
ZWJ+182F+ZWJ	᠋ (xxxx) <i>Medial Form</i>
ZWJ+182F	᠋ (xxxx) <i>Final Form</i> <small>(also implemented with MVS)</small>

1830 (xxxx) ᠋	MONGOLIAN LETTER SA
1830+ZWJ	᠋ (xxxx) <i>Initial Form</i>
ZWJ+1830+ZWJ	᠋ (xxxx) <i>Medial Form</i>

ZWJ+1830	᠋ (xxxx)	First Final Form
ZWJ+1830+FVS1	᠋ (x_)	Second Final Form <sup>&amp;</sup>
ZWJ+1830+FVS2	᠋ (x_)	Third Final Form <sup>&amp;</sup>
1831 (xx_)	᠋	MONGOLIAN LETTER SHA
1831+ZWJ	᠋ (xx_)	Initial Form
ZWJ+1831+ZWJ	᠋ (xx_)	Medial Form
ZWJ+1831	᠋ (xx_)	Final Form
1832 (x_)	᠋	MONGOLIAN LETTER TA
1832+ZWJ	᠋ (x_)	Initial Form
ZWJ+1832+ZWJ	᠋ (x_)	First Medial Form
ZWJ+1832+FVS1+ZWJ	᠋ (x_)	Second Medial Form <sup>&amp;</sup>
ZWJ+1832	᠋ (x_)	Final Form
1833 (x_)	᠋	MONGOLIAN LETTER DA
1833+ZWJ	᠋ (x_)	First Initial Form
1833+FVS1+ZWJ	᠋ (x_)	Second Initial Form <small>(also implemented with NNBSPP)</small>
ZWJ+1833+ZWJ	᠋ (x_)	First Medial Form
ZWJ+1833+FVS1+ZWJ	᠋ (x_)	Second Medial Form <small>(context-driven)</small>
ZWJ+1833	᠋ (x_)	First Final Form
ZWJ+1833+FVS1	᠋ (x_)	Second Final Form <sup>&amp;</sup>
1834 (xxxx)	᠋	MONGOLIAN LETTER CHA
1834+ZWJ	᠋ (xxxx)	Initial Form
ZWJ+1834+ZWJ	᠋ (xxxx)	Medial Form
ZWJ+1834	᠋ (x_)	Final Form
1835 (x_x)	᠋	MONGOLIAN LETTER JA
1835+ZWJ	᠋ (x_x)	Initial Form
ZWJ+1835+ZWJ	᠋ (x_x)	First Medial Form
ZWJ+1835+FVS1+ZWJ	᠋ (x_)	Second Medial Form <small>(implemented with MVS &amp; NNBSPP only - actually - processed as final when pre-MVS/NNBSPP)</small>
ZWJ+1835	᠋ (x_)	First Final Form
1836 (x_xx)	᠋	MONGOLIAN LETTER YA
1836+ZWJ	᠋ (x_xx)	First Initial Form
1836+FVS1+ZWJ	᠋ (x_)	Second Initial Form <small>(context-driven)</small>
ZWJ+1836+ZWJ	᠋ (x_xx)	First Medial Form
ZWJ+1836+FVS1+ZWJ	᠋ (x_)	Second Medial Form <small>(context-driven AND also needed to over-ride default context)</small>
ZWJ+1836+FVS2+ZWJ	᠋ (x_)	Third Medial Form <small>(implemented with MVS &amp; NNBSPP only - actually - processed as final when pre-MVS/NNBSPP)</small>
ZWJ+1836	᠋ (x_)	Final Form
1837 (xxx_)	᠋	MONGOLIAN LETTER RA
1837+ZWJ	᠋ (xxx_)	Initial Form
ZWJ+1837+ZWJ	᠋ (xxx_)	Medial Form
ZWJ+1837	᠋ (xxx_)	Final Form <small>(also implemented with MVS)</small>

1838 (xxxx)	᠋	MONGOLIAN LETTER WA
1838+ZWJ	᠋ (xxxx)	Initial Form
ZWJ+1838+ZWJ	᠋ (xxxx)	First Medial Form
ZWJ+1838+FVS1+ZWJ	᠋ (x_)	Second Medial Form <small>(context-driven)</small>
ZWJ+1838	᠋ (x_)	First Final Form
ZWJ+1838+FVS1	᠋ (x_)	Second Final Form <sup>&amp;</sup> <small>(only implemented with MVS)</small>
1839 (x_)	᠋	MONGOLIAN LETTER FA <sup>s</sup>
1839+ZWJ	᠋ (x_)	Initial Form
ZWJ+1839+ZWJ	᠋ (x_)	Medial Form
ZWJ+1839	᠋ (x_)	Final Form
183A (xxxx)	᠋	MONGOLIAN LETTER KA <sup>s</sup>
183A+ZWJ	᠋ (xxxx)	Initial Form
ZWJ+183A+ZWJ	᠋ (xxxx)	Medial Form
ZWJ+183A	᠋ (x_)	Final Form
183B (xx_)	᠋	MONGOLIAN LETTER KHA <sup>s</sup>
183B+ZWJ	᠋ (xx_)	Initial Form
ZWJ+183B+ZWJ	᠋ (xx_)	Medial Form
ZWJ+183B	᠋ (xx_)	Final Form
183C (x_)	᠋	MONGOLIAN LETTER TSA
183C+ZWJ	᠋ (x_)	Initial Form
ZWJ+183C+ZWJ	᠋ (x_)	Medial Form
ZWJ+183C	᠋ (x_)	Final Form
183D (x_)	᠋	MONGOLIAN LETTER ZA
183D+ZWJ	᠋ (x_)	Initial Form
ZWJ+183D+ZWJ	᠋ (x_)	Medial Form
ZWJ+183D	᠋ (x_)	Final Form
183E (x_)	᠋	MONGOLIAN LETTER HAA
183E+ZWJ	᠋ (x_)	Initial Form
ZWJ+183E+ZWJ	᠋ (x_)	Medial Form
ZWJ+183E	᠋ (x_)	Final Form
183F (x_)	᠋	MONGOLIAN LETTER ZRA
183F+ZWJ	᠋ (x_)	Initial Form
ZWJ+183F+ZWJ	᠋ (x_)	Medial Form
ZWJ+183F	᠋ (x_)	Final Form
1840 (xx_)	᠋	MONGOLIAN LETTER LHA
1840+ZWJ	᠋ (xx_)	Initial Form
ZWJ+1840+ZWJ	᠋ (xx_)	Medial Form
ZWJ+1840	᠋ (x_)	Final Form

1841	(x_)	ᠵ	MONGOLIAN LETTER ZHI
1841+ZWJ		ᠵ (x_)	<i>Initial Form</i>
ZWJ+1841+ZWJ		ᠵ (x_)	<i>Medial Form</i>
ZWJ+1841		ᠵ ( )	<i>Final Form</i>

1842	(x_)	ᠴ	MONGOLIAN LETTER CHI
1842+ZWJ		ᠴ (x_)	<i>Initial Form</i>
ZWJ+1842+ZWJ		ᠴ (x_)	<i>Medial Form</i>
ZWJ+1842		ᠴ ( )	<i>Final Form</i>

### Todo Letters

1843	(x_)	ᠠ	MONGOLIAN LETTER TODO LONG VOWEL SIGN
1843+ZWJ		ᠠ (x_)	<i>Initial Form</i>
		(context-driven)	
ZWJ+1843+ZWJ		ᠠ (x_)	<i>Medial Form</i>
		(context-driven)	
ZWJ+1843		ᠠ (x_)	<i>First Final Form</i>
		(context-driven)	
ZWJ+1843+FVS1		ᠠ (x_)	<i>Second Final Form</i>

STATUS: Check to see whether this is in the new 2016 Chinese Standard

1844	(x_)	ᠡ	MONGOLIAN LETTER TODO E
1844+ZWJ		ᠡ (x_)	<i>Initial Form</i>
ZWJ+1844+ZWJ		ᠡ (x_)	<i>First Medial Form</i>
ZWJ+1844+FVS1+ZWJ		ᠡ (x_)	<i>Second Medial Form<sup>ⓔ</sup></i>
ZWJ+1844		ᠡ (x_)	<i>Final Form</i>

1845	(x_)	ᠢ	MONGOLIAN LETTER TODO I
1845+ZWJ		ᠢ (x_)	<i>Initial Form</i>
ZWJ+1845+ZWJ		ᠢ (x_)	<i>First Medial Form</i>
ZWJ+1845+FVS1+ZWJ		ᠢ (x_)	<i>Second Medial Form</i>
		(context-driven)	
ZWJ+1845		ᠢ (x_)	<i>Final Form</i>

1846	(x_)	ᠣ	MONGOLIAN LETTER TODO O
1846+ZWJ		ᠣ (x_)	<i>Initial Form</i>
ZWJ+1846+ZWJ		ᠣ (x_)	<i>First Medial Form</i>
ZWJ+1846+FVS1+ZWJ		ᠣ (x_)	<i>Second Medial Form<sup>ⓔ</sup></i>
ZWJ+1846		ᠣ (x_)	<i>Final Form</i>

1847	(x_)	ᠤ	MONGOLIAN LETTER TODO U
1847+FVS1		ᠤ (x_)	<i>Second Isolate Form</i>
1847+ZWJ		ᠤ (x_)	<i>Initial Form</i>
ZWJ+1847+ZWJ		ᠤ (x_)	<i>First Medial Form</i>
ZWJ+1847+FVS1+ZWJ		ᠤ (x_)	<i>Second Medial Form<sup>ⓔ</sup></i>
ZWJ+1847+FVS2+ZWJ		ᠤ (x_)	<i>Third Medial Form</i>
		(context-driven)	
ZWJ+1847		ᠤ (x_)	<i>First Final Form</i>
ZWJ+1847+FVS1		ᠤ (x_)	<i>Second Final Form</i>
		(context-driven)	

1848	(x_)	ᠥ	MONGOLIAN LETTER TODO OE
1848+ZWJ		ᠥ (x_)	<i>Initial Form</i>
ZWJ+1848+ZWJ		ᠥ (x_)	<i>First Medial Form</i>
ZWJ+1848+FVS1+ZWJ		ᠥ (x_)	<i>Second Medial Form<sup>ⓔ</sup></i>
ZWJ+1848		ᠥ (x_)	<i>Final Form</i>

1849	(x_)	ᠦ	MONGOLIAN LETTER TODO UE
1849+FVS1		ᠦ (x_)	<i>Second Isolate Form</i>
1849+ZWJ		ᠦ (x_)	<i>Initial Form</i>
ZWJ+1849+ZWJ		ᠦ (x_)	<i>First Medial Form</i>
ZWJ+1849+FVS1+ZWJ		ᠦ (x_)	<i>Second Medial Form<sup>ⓔ</sup></i>
ZWJ+1849		ᠦ (x_)	<i>Final Form</i>

184A	(x_)	ᠨ	MONGOLIAN LETTER TODO ANG
184A		ᠨ ( )	<i>Isolate Form</i>
184A+ZWJ		ᠨ ( )	<i>Initial Form</i>
ZWJ+184A+ZWJ		ᠨ (x_)	<i>Medial Form</i>
ZWJ+184A		ᠨ (x_)	<i>Final Form<sup>Ⓜ</sup></i>

184B	(x_)	ᠪ	MONGOLIAN LETTER TODO BA
184B		ᠪ ( )	<i>Isolate Form</i>
184B+ZWJ		ᠪ (x_)	<i>Initial Form</i>
ZWJ+184B+ZWJ		ᠪ (x_)	<i>Medial Form</i>
ZWJ+184B		ᠪ (x_)	<i>Final Form<sup>Ⓜ</sup></i>

184C	(x_)	ᠮ	MONGOLIAN LETTER TODO PA <sup>ᠰ</sup>
184C+ZWJ		ᠮ (x_)	<i>Initial Form</i>
ZWJ+184C+ZWJ		ᠮ (x_)	<i>Medial Form</i>
ZWJ+184C		ᠮ (x_)	<i>Final Form</i>

184D	(x_)	ᠮ	MONGOLIAN LETTER TODO QA
184D+FVS1		ᠮ (x_)	<i>Second Isolate Form<sup>*</sup></i>
184D+ZWJ		ᠮ (x_)	<i>Initial Form</i>
ZWJ+184D+ZWJ		ᠮ (x_)	<i>Medial Form</i>
ZWJ+184D		ᠮ (x_)	<i>Final Form</i>

184E	(x_)	ᠮ	MONGOLIAN LETTER TODO GA
184E+FVS1		ᠮ (x_)	<i>Second Isolate Form<sup>*</sup></i>
184E+ZWJ		ᠮ (x_)	<i>Initial Form</i>
ZWJ+184E+ZWJ		ᠮ (x_)	<i>First Medial Form</i>
ZWJ+184E+FVS1+ZWJ		ᠮ (x_)	<i>Second Medial Form</i>
		(context-driven)	
ZWJ+184E		ᠮ (x_)	<i>Final Form</i>

184F	(x_)	ᠮ	MONGOLIAN LETTER TODO MA
184F		ᠮ ( )	<i>Isolate Form</i>
184F+ZWJ		ᠮ (x_)	<i>Initial Form</i>
ZWJ+184F+ZWJ		ᠮ (x_)	<i>Medial Form</i>
ZWJ+184F		ᠮ (x_)	<i>Final Form<sup>Ⓜ</sup></i>

1850	(x_)	ᠲ	MONGOLIAN LETTER TODO TA	185A	(x_)	ᠳ	MONGOLIAN LETTER TODO JIA
1850+ZWJ		ᠲ (x_)	<i>Initial Form</i>	185A+ZWJ		ᠳ (x_)	<i>Initial Form</i>
ZWJ+1850+ZWJ		ᠲ (x_)	<i>Medial Form</i>	ZWJ+185A+ZWJ		ᠳ ( )	<i>Medial Form</i>
ZWJ+1850		ᠲ (x_)	<i>Final Form</i>	ZWJ+185A		ᠳ ( )	<i>Final Form</i>
1851	(x_)	ᠳ	MONGOLIAN LETTER TODO DA	185B	(xx_)	ᠴ	MONGOLIAN LETTER TODO NIA
1851+ZWJ		ᠳ (x_)	<i>Initial Form</i>	185B+ZWJ		ᠴ (x_)	<i>Initial Form</i>
ZWJ+1851+ZWJ		ᠳ (x_)	<i>Medial Form</i>	ZWJ+185B+ZWJ		ᠴ ( )	<i>Medial Form</i>
ZWJ+1851		ᠳ (x_)	<i>Final Form</i>	ZWJ+185B		ᠴ ( )	<i>Final Form</i>
1852	(x_)	ᠴ	MONGOLIAN LETTER TODO CHA	185C	(xx_)	ᠵ	MONGOLIAN LETTER TODO DZA
1852+ZWJ		ᠴ (x_)	<i>Initial Form</i>	185C+ZWJ		ᠵ (xx_)	<i>Initial Form</i>
ZWJ+1852+ZWJ		ᠴ (x_)	<i>Medial Form</i>	ZWJ+185C+ZWJ		ᠵ (xx_)	<i>Medial Form</i>
ZWJ+1852		ᠴ (x_)	<i>Final Form</i>	ZWJ+185C		ᠵ (x_)	<i>Final Form</i>
1853	(xx_)	ᠵ	MONGOLIAN LETTER TODO JA				<b>Sibe Letters</b>
1853+ZWJ		ᠵ (xx_)	<i>Initial Form</i>	185D	(_xx)	ᠶ	MONGOLIAN LETTER SIBE E
ZWJ+1853+ZWJ		ᠵ (xx_)	<i>Medial Form</i>	185D		ᠶ (x_)	<i>Isolate Form</i>
ZWJ+1853		ᠵ (x_)	<i>Final Form</i>	185D+ZWJ		ᠶ (xx)	<i>Initial Form</i>
1854	(x_)	ᠶ	MONGOLIAN LETTER TODO TSA	ZWJ+185D+ZWJ		ᠶ (xx)	<i>First Medial Form</i>
1854+ZWJ		ᠶ (x_)	<i>Initial Form</i>	ZWJ+185D+FVS1+ZWJ		ᠶ (xx)	<i>Second Medial Form</i>
ZWJ+1854+ZWJ		ᠶ (x_)	<i>Medial Form</i>	ZWJ+185D		ᠶ (xx)	<i>First Final Form</i> <sup>%</sup>
ZWJ+1854		ᠶ (x_)	<i>Final Form</i>	ZWJ+185D+FVS1		ᠶ (xx)	<i>Second Final Form</i>
1855		ᠶ	MONGOLIAN LETTER TODO YA				<small>(context-driven)</small>
1855+ZWJ		ᠶ (x_)	<i>Initial Form</i>	185E	(x_)	ᠷ	MONGOLIAN LETTER SIBE I
ZWJ+1855+ZWJ		ᠶ (x_)	<i>Medial Form</i>	185E		ᠷ (x_)	<i>Isolate Form</i>
ZWJ+1855		ᠶ ( )	<i>Final Form</i>	185E+ZWJ		ᠷ (x_)	<i>Initial Form</i>
1856	(x_)	ᠷ	MONGOLIAN LETTER TODO WA	ZWJ+185E+ZWJ		ᠷ (x_)	<i>First Medial Form</i>
1856+ZWJ		ᠷ (x_)	<i>Initial Form</i>	ZWJ+185E+FVS1+ZWJ		ᠷ (x_)	<i>Second Medial Form</i> <sup>%</sup>
ZWJ+1856+ZWJ		ᠷ (x_)	<i>Medial Form</i>	ZWJ+185E+FVS2+ZWJ		ᠷ (x_)	<i>Third Medial Form</i>
ZWJ+1856		ᠷ (x_)	<i>Final Form</i>	ZWJ+185E		ᠷ (x_)	<i>First Final Form</i>
1857	(x_)	ᠸ	MONGOLIAN LETTER TODO KA <sup>§</sup>				<small>(also implemented with NNBSF - actually processed as isolate in accusative suffix)</small>
1857+ZWJ		ᠸ (x_)	<i>Initial Form</i>	ZWJ+185E+FVS1		ᠷ (x_)	<i>Second Final Form</i>
ZWJ+1857+ZWJ		ᠸ (x_)	<i>Medial Form</i>	ZWJ+185E+FVS2		ᠷ (x_)	<i>Third Final Form</i>
ZWJ+1857		ᠸ (x_)	<i>Final Form</i>	185F	(_xx)	ᠸ	MONGOLIAN LETTER SIBE IY
1858	(xx_)	ᠸ	MONGOLIAN LETTER TODO GAA <sup>§</sup>	185F+ZWJ		ᠸ ( )	<i>Initial Form</i>
1858+ZWJ		ᠸ (xx_)	<i>Initial Form</i>	ZWJ+185F+ZWJ		ᠸ (xx)	<i>Medial Form</i>
ZWJ+1858+ZWJ		ᠸ (xx_)	<i>Medial Form</i>	ZWJ+185F		ᠸ (xx)	<i>Final Form</i>
ZWJ+1858		ᠸ ( )	<i>Final Form</i>	1860	(_xx)	ᠹ	MONGOLIAN LETTER SIBE UE
1859	(x_)	ᠹ	MONGOLIAN LETTER TODO HAA	1860+ZWJ		ᠹ (xx)	<i>Initial Form</i>
1859		ᠹ ( )	<i>Isolate Form</i>	ZWJ+1860+ZWJ		ᠹ (xx)	<i>First Medial Form</i>
1859+ZWJ		ᠹ (x_)	<i>Initial Form</i>	ZWJ+1860+FVS1+ZWJ		ᠹ (xx)	<i>Second Medial Form</i>
ZWJ+1859+ZWJ		ᠹ (x_)	<i>Medial Form</i>	ZWJ+1860		ᠹ (xx)	<i>First Final Form</i>
ZWJ+1859		ᠹ (x_)	<i>Final Form</i> <sup>%</sup>	ZWJ+1860+FVS1		ᠹ (xx)	<i>Second Final Form</i>

ZWJ+1860+FVS2	(context-driven) ᠋ (xx) <i>Third Final Form</i> (context-driven not in current USVL)		ZWJ+1868+FVS1+ZWJ	᠋ (xx) <i>Second Medial Form</i> (context-driven)
1861 (xx) ᠋	MONGOLIAN LETTER SIBE U		ZWJ+1868+FVS2+ZWJ	᠋ (xx) <i>Third Medial Form</i> (no context currently – more research needed here)
1861	᠋ (x) <i>Isolate Form</i>		ZWJ+1868	᠋ (xx) <i>Final Form</i>
1861+ZWJ	᠋ (x) <i>Initial Form</i>	1869 (xx) ᠋	MONGOLIAN LETTER SIBE DA	
ZWJ+1861+ZWJ	᠋ (xx) <i>Medial Form</i> *	1869+ZWJ	᠋ (xx) <i>First Initial Form</i>	
ZWJ+1861	᠋ (xx) <i>Final Form</i>	1869+FVS1+ZWJ	᠋ (xx) <i>Second Initial Form</i> (context-driven and also NNBSPP)	
1862 (x) ᠋	MONGOLIAN LETTER SIBE ANG	ZWJ+1869+ZWJ	᠋ (xx) <i>First Medial Form</i>	
1862	᠋ ( ) <i>Isolate Form</i>	ZWJ+1869+FVS1+ZWJ	᠋ (xx) <i>Second Medial Form</i> (context-driven)	
1862+ZWJ	᠋ ( ) <i>Initial Form</i>	ZWJ+1869	᠋ ( ) <i>Final Form</i>	
ZWJ+1862+ZWJ	᠋ (x) <i>Medial Form</i>	186A (x) ᠋	MONGOLIAN LETTER SIBE JA	
ZWJ+1862	᠋ (x) <i>Final Form</i> *	186A+ZWJ	᠋ (x) <i>Initial Form</i>	
1863 (x) ᠋	MONGOLIAN LETTER SIBE KA	ZWJ+186A+ZWJ	᠋ (x) <i>Medial Form</i>	
1863	᠋ (x) <i>First Isolate Form</i>	ZWJ+186A	᠋ ( ) <i>Final Form</i>	
1863+FVS1	᠋ (x) <i>Second Isolate Form</i> *	186B (xx) ᠋	MONGOLIAN LETTER SIBE FA	
1863+ZWJ	᠋ (x) <i>Initial Form</i>	186B+ZWJ	᠋ (x) <i>Initial Form</i>	
ZWJ+1863+ZWJ	᠋ (x) <i>First Medial Form</i>	ZWJ+186B+ZWJ	᠋ (x) <i>Medial Form</i>	
ZWJ+1863+FVS1+ZWJ	᠋ (x) <i>Second Medial Form</i> (context-driven)	ZWJ+186B	᠋ ( ) <i>Final Form</i>	
ZWJ+1863	᠋ (x) <i>Final Form</i> *	186C (xx) ᠋	MONGOLIAN LETTER SIBE GAA <sup>s</sup>	
1864 (xx) ᠋	MONGOLIAN LETTER SIBE GA	186C+ZWJ	᠋ (x) <i>Initial Form</i>	
1864+FVS1	᠋ (xx) <i>Second Isolate Form</i> *	ZWJ+186C+ZWJ	᠋ (x) <i>Medial Form</i>	
1864+ZWJ	᠋ (xx) <i>Initial Form</i>	ZWJ+186C	᠋ ( ) <i>Final Form</i>	
ZWJ+1864+ZWJ	᠋ (xx) <i>Medial Form</i>	186D (xx) ᠋	MONGOLIAN LETTER SIBE HAA <sup>s</sup>	
ZWJ+1864	᠋ ( ) <i>Final Form</i>	186D+ZWJ	᠋ (x) <i>Initial Form</i>	
1865 (xx) ᠋	MONGOLIAN LETTER SIBE HA	ZWJ+186D+ZWJ	᠋ (x) <i>Medial Form</i>	
1865+FVS1	᠋ (xx) <i>Second Isolate Form</i> *	ZWJ+186D	᠋ ( ) <i>Final Form</i>	
1865+ZWJ	᠋ (xx) <i>Initial Form</i>	186E (xx) ᠋	MONGOLIAN LETTER SIBE TSA	
ZWJ+1865+ZWJ	᠋ (xx) <i>Medial Form</i>	186E+ZWJ	᠋ (xx) <i>Initial Form</i>	
ZWJ+1865	᠋ ( ) <i>Final Form</i>	ZWJ+186E+ZWJ	᠋ (xx) <i>Medial Form</i>	
1866 (xx) ᠋	MONGOLIAN LETTER SIBE PA <sup>s</sup>	ZWJ+186E	᠋ (xx) <i>Final Form</i>	
1866+ZWJ	᠋ (xx) <i>Initial Form</i>	186F (xx) ᠋	MONGOLIAN LETTER SIBE ZA	
ZWJ+1866+ZWJ	᠋ (xx) <i>Medial Form</i>	186F+ZWJ	᠋ (xx) <i>First Initial Form</i>	
ZWJ+1866	᠋ ( ) <i>Final Form</i>	186F+FVS1+ZWJ	᠋ (xx) <i>Second Initial Form</i> (context-driven)	
1867 (xx) ᠋	MONGOLIAN LETTER SIBE SHA	ZWJ+186F+ZWJ	᠋ (xx) <i>First Medial Form</i>	
1867+ZWJ	᠋ (xx) <i>Initial Form</i>	ZWJ+186F+FVS1+ZWJ	᠋ (xx) <i>Second Medial Form</i> (context-driven)	
ZWJ+1867+ZWJ	᠋ (xx) <i>Medial Form</i>	ZWJ+186F	᠋ (xx) <i>Final Form</i>	
ZWJ+1867	᠋ (x) <i>Final Form</i>	1870 (xx) ᠋	MONGOLIAN LETTER SIBE RAA	
1868 (xx) ᠋	MONGOLIAN LETTER SIBE TA	1870+ZWJ	᠋ (xx) <i>Initial Form</i>	
1868+ZWJ	᠋ (xx) <i>First Initial Form</i>	ZWJ+1870+ZWJ	᠋ (xx) <i>Medial Form</i>	
1868+FVS1+ZWJ	᠋ (xx) <i>Second Initial Form</i> (context-driven)	ZWJ+1870	᠋ (xx) <i>Final Form</i>	
ZWJ+1868+ZWJ	᠋ (xx) <i>First Medial Form</i>			

1871 ( \_xx) **ᠠᠯᠤ** MONGOLIAN LETTER SIBE CHA  
 1871+ZWJ **ᠠᠯᠤ** ( \_xx) *Initial Form*  
 ZWJ+1871+ZWJ **ᠠᠯᠤ** ( \_xx) *Medial Form*  
 ZWJ+1871 **ᠠᠯᠤ** ( \_) *Final Form*

1872 ( \_x) **ᠠᠯᠤ** MONGOLIAN LETTER SIBE ZHA  
 1872+ZWJ **ᠠᠯᠤ** ( \_x) *Initial Form*  
 ZWJ+1872+ZWJ **ᠠᠯᠤ** ( \_x) *Medial Form*  
 ZWJ+1872 **ᠠᠯᠤ** ( \_) *Final Form*

### Manchu Letters

1873 ( \_x) **ᠠᠯᠤ** MONGOLIAN LETTER MANCHU I  
 1873 **ᠠᠯᠤ** ( \_x) *Isolate Form*  
 1873+ZWJ **ᠠᠯᠤ** ( \_x) *Initial Form*  
 ZWJ+1873+ZWJ **ᠠᠯᠤ** ( \_x) *First Medial Form*  
 ZWJ+1873+FVS1+ZWJ **ᠠᠯᠤ** ( \_x) *Second Medial Form*  
 (context-driven)  
 ZWJ+1873+FVS2+ZWJ **ᠠᠯᠤ** ( \_x) *Third Medial Form*<sup>°</sup>  
 ZWJ+1873+FVS3+ZWJ **ᠠᠯᠤ** ( \_x) *Fourth Medial Form*  
 ZWJ+1873 **ᠠᠯᠤ** ( \_x) *First Final Form*  
 (also implemented with NNBSF actually processed as isolate in accusative suffix)  
 ZWJ+1873+FVS1 **ᠠᠯᠤ** ( \_x) *Second Final Form*  
 ZWJ+1873+FVS2 **ᠠᠯᠤ** ( \_x) *Third Final Form*  
 ZWJ+1873+FVS3 **ᠠᠯᠤ** ( \_x) *Fourth Final Form*  
 (context-driven)  
 (not in current USVL)

1874 ( \_x) **ᠠᠯᠤ** MONGOLIAN LETTER MANCHU KA  
 1874 **ᠠᠯᠤ** ( \_x) *First Isolate Form*  
 1874+FVS1 **ᠠᠯᠤ** ( \_x) *Second Isolate Form*  
 1874+ZWJ **ᠠᠯᠤ** ( \_x) *Initial Form*  
 ZWJ+1874+ZWJ **ᠠᠯᠤ** ( \_x) *First Medial Form*  
 ZWJ+1874+FVS1+ZWJ **ᠠᠯᠤ** ( \_x) *Second Medial Form*  
 (context-driven)  
 ZWJ+1874+FVS2+ZWJ **ᠠᠯᠤ** ( \_x) *Third Medial Form*  
 (context-driven)  
 ZWJ+1874+FVS3+ZWJ **ᠠᠯᠤ** ( \_x) *Fourth Medial Form*  
 ZWJ+1874 **ᠠᠯᠤ** ( \_x) *First Final Form*<sup>°</sup>  
 ZWJ+1874+FVS1 **ᠠᠯᠤ** ( \_x) *Second Final Form*  
 (context-driven)  
 ZWJ+1874+FVS2 **ᠠᠯᠤ** ( \_x) *Third Final Form*

1875 ( \_x) **ᠠᠯᠤ** MONGOLIAN LETTER MANCHU RA  
 1875 **ᠠᠯᠤ** ( \_) *Isolate Form*  
 1875+ZWJ **ᠠᠯᠤ** ( \_x) *Initial Form*  
 ZWJ+1875+ZWJ **ᠠᠯᠤ** ( \_x) *Medial Form*  
 ZWJ+1875 **ᠠᠯᠤ** ( \_x) *Final Form*<sup>°</sup>

1876 ( \_x) **ᠠᠯᠤ** MONGOLIAN LETTER MANCHU FA  
 1876 **ᠠᠯᠤ** ( \_) *Isolate Form*  
 1876+ZWJ **ᠠᠯᠤ** ( \_x) *First Initial Form*

1876+FVS1+ZWJ **ᠠᠯᠤ** ( \_x) *Second Initial Form*  
 (context-driven)  
 ZWJ+1876+ZWJ **ᠠᠯᠤ** ( \_x) *First Medial Form*<sup>°</sup>  
 ZWJ+1876+FVS1+ZWJ **ᠠᠯᠤ** ( \_x) *Second Medial Form*  
 (context-driven)  
 ZWJ+1876 **ᠠᠯᠤ** ( \_) *Final Form*

1877 ( \_x) **ᠠᠯᠤ** MONGOLIAN LETTER MANCHU ZHA  
 1877+ZWJ **ᠠᠯᠤ** ( \_x) *Initial Form*  
 ZWJ+1877+ZWJ **ᠠᠯᠤ** ( \_x) *Medial Form*  
 ZWJ+1877 **ᠠᠯᠤ** ( \_) *Final Form*

1878 <reserved>  
 1879 <reserved>  
 187A <reserved>  
 187B <reserved>  
 187C <reserved>  
 187D <reserved>  
 187E <reserved>  
 187F <reserved>

### Ali Gali Letters

1880 (xx\_x) **ᠠᠯᠤ** MONGOLIAN LETTER ALI GALI ANUSVARA  
 1880+FVS1 **ᠠᠯᠤ** (xx\_x) *Second Form*

1881 (xx\_x) **ᠠᠯᠤ** MONGOLIAN LETTER ALI GALI VISARGA ONE  
 1881+FVS1 **ᠠᠯᠤ** (xx\_x) *Second Form*

1882 (xx\_x) **ᠠᠯᠤ** MONGOLIAN LETTER ALI GALI DAMARU

1883 (xx\_x) **ᠠᠯᠤ** MONGOLIAN LETTER ALI GALI UBADAMA

1884 (xx\_x) **ᠠᠯᠤ** MONGOLIAN LETTER ALI GALI INVERTED UBADAMA

1887 (xx\_x) **ᠠᠯᠤ** MONGOLIAN LETTER ALI GALI A  
 1887+ZWJ **ᠠᠯᠤ** ( \_) *Initial Form*  
 ZWJ+1887+ZWJ **ᠠᠯᠤ** ( \_) *Medial Form*  
 ZWJ+1887 **ᠠᠯᠤ** (x\_x) *First Final Form*  
 ZWJ+1887+FVS1 **ᠠᠯᠤ** (x\_x) *Second Final Form*  
 ZWJ+1887+FVS2 **ᠠᠯᠤ** (xx\_x) *Third Final Form*  
 ZWJ+1887+FVS3 **ᠠᠯᠤ** (xx\_x) *Fourth Final Form*  
 ZWJ+1887+FVS4 **ᠠᠯᠤ** (x\_x) *Fifth Final Form*

1888 (x\_x) **ᠠᠯᠤ** MONGOLIAN LETTER ALI GALI I  
 1888+ZWJ **ᠠᠯᠤ** ( \_) *Initial Form*  
 ZWJ+1888+ZWJ **ᠠᠯᠤ** (x\_x) *First Medial Form*  
 ZWJ+1888+ZWJ+FVS1 **ᠠᠯᠤ** (x\_x) *Second Medial Form*  
 (context-driven)  
 (not in current USVL)  
 ZWJ+1888 **ᠠᠯᠤ** (x\_x) *First Final Form*  
 ZWJ+1888+FVS1 **ᠠᠯᠤ** ( \_x) *Second Final Form*  
 (context-driven)

1889 (xx\_x) **ᠠᠯᠤ** MONGOLIAN LETTER ALI GALI KA<sup>+</sup>



1889+ZWJ	ᠠ (xx_) <i>Initial Form</i>	ZWJ+1889+ZWJ	ᠠ ( ) <i>Medial Form</i>	ZWJ+1889	ᠠ ( ) <i>Final Form</i>	ZWJ+1892	ᠠ ( ) <i>Final Form</i>
188A (xx_) ᠠ	MONGOLIAN LETTER ALI GALI NGA	188A+ZWJ	ᠠ (xx_) <i>First Initial Form</i>	188A+FVS1+ZWJ	ᠠ (xx_) <i>Second Initial Form</i> <small>(context-driven)</small>	1893 (xx_) ᠠ	MONGOLIAN LETTER ALI GALI PHA <sup>S</sup>
ZWJ+188A+ZWJ	ᠠ (xx_) <i>First Medial Form</i>	ZWJ+188A+FVS1+ZWJ	ᠠ (xx_) <i>Second Medial Form</i> <small>(context-driven)</small>	ZWJ+188A	ᠠ ( ) <i>Final Form</i>	1893+ZWJ	ᠠ (x_) <i>Initial Form</i>
188B (xx_) ᠡ	MONGOLIAN LETTER ALI GALI CA	188B+ZWJ	ᠡ (xx_) <i>Initial Form</i>	ZWJ+188B+ZWJ	ᠡ (xx_) <i>Medial Form</i>	ZWJ+1893+ZWJ	ᠡ ( ) <i>Medial Form</i>
188B+ZWJ	ᠡ (xx_) <i>Initial Form</i>	ZWJ+188B	ᠡ ( ) <i>Final Form</i>	188C (xx_) ᠢ	MONGOLIAN LETTER ALI GALI TTA	ZWJ+1893	ᠡ ( ) <i>Final Form</i>
ZWJ+188B+ZWJ	ᠡ (xx_) <i>Medial Form</i>	188C+ZWJ	ᠢ (x_) <i>Initial Form</i>	ZWJ+188C+ZWJ	ᠢ ( ) <i>Medial Form</i>	1894 (xx_) ᠢ	MONGOLIAN LETTER ALI GALI SSA
ZWJ+188B	ᠡ ( ) <i>Final Form</i>	ZWJ+188C	ᠢ ( ) <i>Final Form</i>	188D (xx_) ᠣ	MONGOLIAN LETTER ALI GALI TTHA	1894+ZWJ	ᠢ (xx_) <i>Initial Form</i>
188C (xx_) ᠢ	MONGOLIAN LETTER ALI GALI TTA	188D+ZWJ	ᠣ (x_) <i>Initial Form</i>	ZWJ+188D+ZWJ	ᠣ ( ) <i>Medial Form</i>	ZWJ+1894+ZWJ	ᠢ (xx_) <i>Medial Form</i>
188C+ZWJ	ᠢ (x_) <i>Initial Form</i>	ZWJ+188D	ᠣ ( ) <i>Final Form</i>	188E (xx_) ᠣ	MONGOLIAN LETTER ALI GALI DDA	ZWJ+1894	ᠢ ( ) <i>Final Form</i>
ZWJ+188C+ZWJ	ᠢ ( ) <i>Medial Form</i>	188E+ZWJ	ᠣ (x_) <i>Initial Form</i>	ZWJ+188E+ZWJ	ᠣ ( ) <i>Medial Form</i>	1895 (x_) ᠣ	MONGOLIAN LETTER ALI GALI ZHA
ZWJ+188C	ᠢ ( ) <i>Final Form</i>	ZWJ+188E	ᠣ ( ) <i>Final Form</i>	188F (xx_x) ᠣ	MONGOLIAN LETTER ALI GALI NNA	1895+ZWJ	ᠣ (x_) <i>Initial Form</i>
188D (xx_) ᠣ	MONGOLIAN LETTER ALI GALI TTHA	188F+ZWJ	ᠣ (x_) <i>Initial Form</i>	ZWJ+188F+ZWJ	ᠣ ( ) <i>Medial Form</i>	ZWJ+1895+ZWJ	ᠣ ( ) <i>Medial Form</i>
188D+ZWJ	ᠣ (x_) <i>Initial Form</i>	ZWJ+188F	ᠣ ( ) <i>Final Form</i>	1890 (x_) ᠣ	MONGOLIAN LETTER ALI GALI TA	ZWJ+1895	ᠣ ( ) <i>Final Form</i>
ZWJ+188D+ZWJ	ᠣ ( ) <i>Medial Form</i>	1890+ZWJ	ᠣ (x_) <i>Initial Form</i>	1891 (x_) ᠣ	MONGOLIAN LETTER ALI GALI DA	1896+ZWJ	ᠣ (xx_) <i>Initial Form</i>
ZWJ+188D	ᠣ ( ) <i>Final Form</i>	ZWJ+1890+ZWJ	ᠣ ( ) <i>Medial Form</i>	1891+ZWJ	ᠣ (x_) <i>Initial Form</i>	ZWJ+1896+ZWJ	ᠣ (xx_) <i>Medial Form</i>
188E (xx_) ᠣ	MONGOLIAN LETTER ALI GALI DDA	ZWJ+1890	ᠣ ( ) <i>Final Form</i>	1892 (xx_x) ᠣ	MONGOLIAN LETTER ALI GALI PA <sup>S</sup>	1896+ZWJ	ᠣ (xx_) <i>Initial Form</i>
188E+ZWJ	ᠣ (x_) <i>Initial Form</i>	1891 (x_) ᠣ	MONGOLIAN LETTER ALI GALI DA	1892+ZWJ	ᠣ (x_) <i>Initial Form</i>	1897 (xx_) ᠣ	MONGOLIAN LETTER ALI GALI AH
ZWJ+188E+ZWJ	ᠣ ( ) <i>Medial Form</i>	1891+ZWJ	ᠣ (x_) <i>Initial Form</i>	ZWJ+1892+ZWJ	ᠣ ( ) <i>Medial Form</i>	1897+ZWJ	ᠣ (x_) <i>Initial Form</i>
ZWJ+188E	ᠣ ( ) <i>Final Form</i>	ZWJ+1891	ᠣ ( ) <i>Final Form</i>	1892+ZWJ	ᠣ ( ) <i>Medial Form</i>	ZWJ+1897+ZWJ	ᠣ ( ) <i>Medial Form</i>
188F (xx_x) ᠣ	MONGOLIAN LETTER ALI GALI NNA	1892 (xx_x) ᠣ	MONGOLIAN LETTER ALI GALI PA <sup>S</sup>	1892+ZWJ	ᠣ (x_) <i>Initial Form</i>	ZWJ+1897	ᠣ ( ) <i>Final Form</i>
188F+ZWJ	ᠣ (x_) <i>Initial Form</i>	1892+ZWJ	ᠣ (x_) <i>Initial Form</i>	ZWJ+1892+ZWJ	ᠣ ( ) <i>Medial Form</i>	1898 (x_) ᠣ	MONGOLIAN LETTER TODO ALI GALI TA
ZWJ+188F+ZWJ	ᠣ ( ) <i>Medial Form</i>	1892+ZWJ	ᠣ (x_) <i>Initial Form</i>	1892+ZWJ	ᠣ ( ) <i>Medial Form</i>	1898+ZWJ	ᠣ (x_) <i>Initial Form</i>
ZWJ+188F	ᠣ ( ) <i>Final Form</i>	1892+ZWJ	ᠣ ( ) <i>Medial Form</i>	1892+ZWJ	ᠣ ( ) <i>Final Form</i>	ZWJ+1898+ZWJ	ᠣ ( ) <i>Medial Form</i>
1890 (x_) ᠣ	MONGOLIAN LETTER ALI GALI TA	1892+ZWJ	ᠣ (x_) <i>Initial Form</i>	1892+ZWJ	ᠣ ( ) <i>Medial Form</i>	ZWJ+1898	ᠣ ( ) <i>Final Form</i>
1890+ZWJ	ᠣ (x_) <i>Initial Form</i>	1892+ZWJ	ᠣ ( ) <i>Medial Form</i>	1892+ZWJ	ᠣ ( ) <i>Final Form</i>	1899 (x_) ᠣ	MONGOLIAN LETTER TODO ALI GALI ZHA
ZWJ+1890+ZWJ	ᠣ ( ) <i>Medial Form</i>	1892+ZWJ	ᠣ ( ) <i>Final Form</i>	1892+ZWJ	ᠣ ( ) <i>Final Form</i>	1899+ZWJ	ᠣ (x_) <i>Initial Form</i>
ZWJ+1890	ᠣ ( ) <i>Final Form</i>	1892+ZWJ	ᠣ ( ) <i>Final Form</i>	1892+ZWJ	ᠣ ( ) <i>Final Form</i>	ZWJ+1899+ZWJ	ᠣ ( ) <i>Medial Form</i>
1891 (x_) ᠣ	MONGOLIAN LETTER ALI GALI DA	1892+ZWJ	ᠣ (x_) <i>Initial Form</i>	1892+ZWJ	ᠣ ( ) <i>Medial Form</i>	ZWJ+1899	ᠣ ( ) <i>Final Form</i>
1891+ZWJ	ᠣ (x_) <i>Initial Form</i>	1892+ZWJ	ᠣ ( ) <i>Medial Form</i>	1892+ZWJ	ᠣ ( ) <i>Final Form</i>	189A (x_) ᠣ	MONGOLIAN LETTER MANCHU ALI GALI GHA
ZWJ+1891+ZWJ	ᠣ ( ) <i>Medial Form</i>	1892+ZWJ	ᠣ ( ) <i>Final Form</i>	1892+ZWJ	ᠣ ( ) <i>Final Form</i>	189A+ZWJ	ᠣ (x_) <i>Initial Form</i>
ZWJ+1891	ᠣ ( ) <i>Final Form</i>	1892+ZWJ	ᠣ ( ) <i>Final Form</i>	1892+ZWJ	ᠣ ( ) <i>Final Form</i>	ZWJ+189A+ZWJ	ᠣ (x_) <i>Medial Form</i>
1892 (xx_x) ᠣ	MONGOLIAN LETTER ALI GALI PA <sup>S</sup>	1892+ZWJ	ᠣ (x_) <i>Initial Form</i>	1892+ZWJ	ᠣ ( ) <i>Medial Form</i>	ZWJ+189A	ᠣ ( ) <i>Final Form</i>
1892+ZWJ	ᠣ (x_) <i>Initial Form</i>	1892+ZWJ	ᠣ ( ) <i>Medial Form</i>	1892+ZWJ	ᠣ ( ) <i>Final Form</i>	189B (x_) ᠣ	MONGOLIAN LETTER MANCHU ALI GALI NGA
ZWJ+1892+ZWJ	ᠣ ( ) <i>Medial Form</i>	1892+ZWJ	ᠣ ( ) <i>Final Form</i>	1892+ZWJ	ᠣ ( ) <i>Final Form</i>	189B+ZWJ	ᠣ (x_) <i>Initial Form</i>
1892+ZWJ	ᠣ (x_) <i>Initial Form</i>	1892+ZWJ	ᠣ ( ) <i>Medial Form</i>	1892+ZWJ	ᠣ ( ) <i>Final Form</i>	ZWJ+189B+ZWJ	ᠣ (x_) <i>Medial Form</i>
ZWJ+1892+ZWJ	ᠣ ( ) <i>Medial Form</i>	1892+ZWJ	ᠣ ( ) <i>Final Form</i>	1892+ZWJ	ᠣ ( ) <i>Final Form</i>	ZWJ+189B	ᠣ ( ) <i>Final Form</i>
1892+ZWJ	ᠣ (x_) <i>Initial Form</i>	1892+ZWJ	ᠣ ( ) <i>Medial Form</i>	1892+ZWJ	ᠣ ( ) <i>Final Form</i>	189C (x_) ᠣ	MONGOLIAN LETTER MANCHU ALI GALI CA
ZWJ+1892+ZWJ	ᠣ ( ) <i>Medial Form</i>	1892+ZWJ	ᠣ ( ) <i>Final Form</i>	1892+ZWJ	ᠣ ( ) <i>Final Form</i>	189C+ZWJ	ᠣ (x_) <i>Initial Form</i>
1892+ZWJ	ᠣ (x_) <i>Initial Form</i>	1892+ZWJ	ᠣ ( ) <i>Medial Form</i>	1892+ZWJ	ᠣ ( ) <i>Final Form</i>	ZWJ+189C+ZWJ	ᠣ (x_) <i>Medial Form</i>
ZWJ+1892+ZWJ	ᠣ ( ) <i>Medial Form</i>	1892+ZWJ	ᠣ ( ) <i>Final Form</i>	1892+ZWJ	ᠣ ( ) <i>Final Form</i>	ZWJ+189C	ᠣ ( ) <i>Final Form</i>

189D	(__x)	ᠵᠢᠨ	MONGOLIAN LETTER MANCHU ALI GALI JHA
189D+ZWJ		ᠵᠢᠨ (x)	<i>Initial Form</i>
ZWJ+189D+ZWJ		ᠵᠢᠨ (x)	<i>Medial Form</i>
ZWJ+189D		ᠵᠢᠨ ( )	<i>Final Form</i>
189E	(__x)	ᠲᠠ	MONGOLIAN LETTER MANCHU ALI GALI TTA
189E+ZWJ		ᠲᠠ (x)	<i>Initial Form</i>
ZWJ+189E+ZWJ		ᠲᠠ (x)	<i>Medial Form</i>
ZWJ+189E		ᠲᠠ ( )	<i>Final Form</i>
189F	(__x)	ᠳᠬᠠ	MONGOLIAN LETTER MANCHU ALI GALI DDHA
189F+ZWJ		ᠳᠬᠠ (x)	<i>Initial Form</i>
ZWJ+189F+ZWJ		ᠳᠬᠠ (x)	<i>Medial Form</i>
ZWJ+189F		ᠳᠬᠠ ( )	<i>Final Form</i>
18A0	(__x)	ᠲᠠ	MONGOLIAN LETTER MANCHU ALI GALI TA
18A0+ZWJ		ᠲᠠ (x)	<i>First Initial Form</i>
18A0+FVS1+ZWJ		ᠲᠠ (x)	<i>Second Initial Form</i>
		(context-driven not in current USVL)	
ZWJ+18A0+ZWJ		ᠲᠠ (x)	<i>First Medial Form</i>
ZWJ+18A0+FVS1+ZWJ		ᠲᠠ (x)	<i>Second Medial Form</i>
		(context-driven not in current USVL)	
ZWJ+18A0		ᠲᠠ ( )	<i>Final Form</i>
18A1	(__x)	ᠳᠠ	MONGOLIAN LETTER MANCHU ALI GALI DHA
18A1+ZWJ		ᠳᠠ (x)	<i>First Initial Form</i>
18A1+FVS1+ZWJ		ᠳᠠ ( )	<i>Second Initial Form</i>
		(context-driven not in current USVL)	
ZWJ+18A1+ZWJ		ᠳᠠ (x)	<i>First Medial Form</i>
ZWJ+18A1+FVS1+ZWJ		ᠳᠠ ( )	<i>Second Medial Form</i>
		(context-driven not in current USVL)	
ZWJ+18A1		ᠳᠠ ( )	<i>Final Form</i>
18A2	(__x)	ᠰᠠ	MONGOLIAN LETTER MANCHU ALI GALI SSA
18A2+ZWJ		ᠰᠠ (x)	<i>Initial Form</i>
ZWJ+18A2+ZWJ		ᠰᠠ (x)	<i>Medial Form</i>
ZWJ+18A2		ᠰᠠ ( )	<i>Final Form</i>
18A3	(__x)	ᠴᠠ	MONGOLIAN LETTER MANCHU ALI GALI C YA
18A3+ZWJ		ᠴᠠ (x)	<i>Initial Form</i>
ZWJ+18A3+ZWJ		ᠴᠠ (x)	<i>Medial Form</i>
ZWJ+18A3		ᠴᠠ ( )	<i>Final Form</i>
18A4	(__x)	ᠵᠠ	MONGOLIAN LETTER MANCHU ALI GALI ZHA
18A4+ZWJ		ᠵᠠ (x)	<i>Initial Form</i>
ZWJ+18A4+ZWJ		ᠵᠠ (x)	<i>Medial Form</i>
ZWJ+18A4		ᠵᠠ ( )	<i>Final Form</i>
18A5	(__x)	ᠵᠠ	MONGOLIAN LETTER MANCHU ALI GALI ZA
18A5+ZWJ		ᠵᠠ (x)	<i>Initial Form</i>

ZWJ+18A5+ZWJ		ᠵᠠ (x)	<i>Medial Form</i>
ZWJ+18A5		ᠵᠠ ( )	<i>Final Form</i>
18A6	(xx__)	ᠤ	MONGOLIAN LETTER ALI GALI HALF U
18A6+ZWJ		ᠤ (x)	<i>Initial Form</i>
ZWJ+18A6+ZWJ		ᠤ ( )	<i>Medial Form</i>
ZWJ+18A6		ᠤ ( )	<i>Final Form</i>
18A7	(xx__)	ᠶ	MONGOLIAN LETTER ALI GALI HALF YA
18A7+ZWJ		ᠶ (x)	<i>Initial Form</i>
ZWJ+18A7+ZWJ		ᠶ ( )	<i>Medial Form</i>
ZWJ+18A7		ᠶ ( )	<i>Final Form</i>
18A8	(__x)	ᠪᠬᠠ	MONGOLIAN LETTER MANCHU ALI GALI BHA*
18A8+ZWJ		ᠪᠬᠠ (x)	<i>Initial Form</i>
ZWJ+18A8+ZWJ		ᠪᠬᠠ ( )	<i>Medial Form</i>
ZWJ+18A8		ᠪᠬᠠ ( )	<i>Final Form</i>
18AA	(__x)	ᠬᠠ	MONGOLIAN LETTER MANCHU ALI GALI LHA
18AA+ZWJ		ᠬᠠ (x)	<i>Initial Form</i>
ZWJ+18AA+ZWJ		ᠬᠠ (x)	<i>Medial Form</i>
ZWJ+18AA		ᠬᠠ ( )	<i>Final Form</i>