

# MONGOLIAN BASE FORMS, POSITIONAL FORMS, & VARIANT FORMS

(With great appreciation to Dr. Quejingzhabu for his many years of research and counsel  
and Microsoft staff Aaron Bell / Andrew Glass for our many man-years of collaboration) **WG2 N4752R2**  
September 27, 2016 (Greg Eck - greyson@postone.net)

**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. This paper is not meant to be a replacement for the Chinese Standard nor the Ulaanbaatar Mongolian Standard. It is derived from these two standards. Suggestions such as in the yellow/violet highlighting is derived from external discussions such as the Unicode Forum.

## 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 form is not the isolate (1824, 1826, 184A, 184B, 184F, 1859, 185D, 185E, 1861, 1862, 1863, 1873, 1874, 1875, 1876), the first line will define the Unicode form as already stated, the second line will define the main isolate (termed the first isolate), the second line and following will define additional potential isolates.

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

\$ – 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

& – 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 (such glyphs at this position are only the recommended form, not a required form).

**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 NNBS model (DS00-NNBS). 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

NOTE: A Mongolian vertical font should also **the following punctuation ...**

## Marks

1885	(xx_x)	ᠪ	MONGOLIAN LETTER ALI GALI BALUDA (this is not a letter – it is a diacritic mark)
1886	(xx_x)	ᠪᠪ	MONGOLIAN LETTER ALI GALI THREE BALUDA (this is not a letter – it is a diacritic mark)
18A9	(x_)	ᠪᠣ	MONGOLIAN LETTER ALI GALI DAGALGA (this is not a letter – it is a diacritic mark)

## Control Characters

180B	(xxxx)	FV 51	MONGOLIAN FREE VARIATION SELECTOR ONE
180C	(xxxx)	FV 52	MONGOLIAN FREE VARIATION SELECTOR TWO
180D	(xxxx)	FV 53	MONGOLIAN FREE VARIATION SELECTOR THREE

## Format Characters

180E	(xxxx)	MV S	MONGOLIAN VOWEL SEPARATOR (or ... Mongolian Tsatslag Connector)
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NOTE: A Mongolian vertical font should also include the control characters NNBSF (U+202F), ZWJ (U+200D), ZNWJ (U+200C) and at least VS01 (U+FE00) with potentially more VSxx.

### Numbers

(rotated 90 degrees clockwise in vertical display)

1810	(xx_)	0	MONGOLIAN DIGIT ZERO
1811	(xx_)	1	MONGOLIAN DIGIT ONE
1812	(xx_)	2	MONGOLIAN DIGIT TWO
1813	(xx_)	3	MONGOLIAN DIGIT THREE
1814	(xx_)	4	MONGOLIAN DIGIT FOUR
1815	(xx_)	5	MONGOLIAN DIGIT FIVE
1816	(xx_)	6	MONGOLIAN DIGIT SIX
1817	(xx_)	7	MONGOLIAN DIGIT SEVEN
1818	(xx_)	8	MONGOLIAN DIGIT EIGHT
1819	(xx_)	9	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	(_xx)	ᠮ	MONGOLIAN SIBE SYLLABLE BOUNDARY MARKER
1807+ZWJ	(_)	ᠮ	Initial Form
ZWJ+1807+ZWJ	(_xx)	ᠮ	Medial Form
ZWJ+1807	(_)	ᠮ	Final Form

The question has been raised as to whether this character might be more broadly used than just in Sibe and Manchu.

180A	(xxxx)	ᠨ	MONGOLIAN NIRUGU
180A+ZWJ	(xxxx)	ᠨ	Initial Form
ZWJ+180A+ZWJ	(xxxx)	ᠨ	Medial Form
ZWJ+180A	(xxxx)	ᠨ	First Final Form
ZWJ+180A+FVS1	(xxxx)	ᠨ	Second Final Form

STATUS: Discussion needed

1820	(xxxx)	ᠠ	MONGOLIAN LETTER A
1820+FVS1	(xx_)	ᠠ	Second Isolate Form
1820+ZWJ	(xxxx)	ᠠ	First Initial Form
ZWJ+1820+ZWJ	(xxxx)	ᠠ	First Medial Form
ZWJ+1820+FVS1+ZWJ	(xx_)	ᠠ	Second Medial Form <sup>Ⓢ</sup>
ZWJ+1820+FVS2+ZWJ	(xx_)	ᠠ	Third Medial Form
			(only implemented with NNBSF - actually - processed as initial in ACA suffix)
ZWJ+1820	(xxx)	ᠠ	First Final Form
ZWJ+1820+FVS1	(xx_)	ᠠ	Second Final Form

(actually two glyphs)

first one is the oragshilig without space (must use FVS1)  
 second is the tsatslag with space and implemented with MVS/NNBSF (does not use FVS)

1821	(x_)	ᠡ	MONGOLIAN LETTER E
1821+ZWJ	(x_)	ᠡ	First Initial Form
			(also implemented with NNBSF - in ACA suffix)
1821+FVS1+ZWJ	(x_)	ᠡ	Second Initial Form <sup>Ⓢ</sup>
ZWJ+1821+ZWJ	(x_)	ᠡ	Medial Form
ZWJ+1821	(x_)	ᠡ	First Final Form
ZWJ+1821+FVS1	(x_)	ᠡ	Second Final Form
			(identical with comment on U+1820 Second Final)

1822	(x_)	ᠢ	MONGOLIAN LETTER I
1822+ZWJ	(x_)	ᠢ	Initial Form
ZWJ+1822+ZWJ	(x_)	ᠢ	First Medial Form
			(also implemented with NNBSF - actually processed as initial with instrumental suffix)
ZWJ+1822+FVS1+ZWJ	(x_)	ᠢ	Second Medial Form <sup>Ⓢ</sup>
ZWJ+1822+FVS2+ZWJ	(x_)	ᠢ	Third Medial Form
			(context-driven)
ZWJ+1822+FVS3+ZWJ	(x_)	ᠢ	Fourth Medial Form

STATUS: Discussion needed

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

ZWJ+1822	(x_)	ᠢ	First Final Form
			(also implemented with NNBSF - actually processed as isolate in accusative suffix)
ZWJ+1822+FVS1	(x_)	ᠢ	Second Final Form

STATUS: Included in Chinese Proposal - WG2#65?

1823	(x_xx)	ᠣ	MONGOLIAN LETTER O
1823+ZWJ	(x_xx)	ᠣ	Initial Form
ZWJ+1823+ZWJ	(x_xx)	ᠣ	First Medial Form
ZWJ+1823+FVS1+ZWJ	(x_)	ᠣ	Second Medial Form <sup>Ⓢ</sup>
ZWJ+1823	(x_xx)	ᠣ	First Final Form
ZWJ+1823+FVS1	(x_xx)	ᠣ	Second Final Form <sup>Ⓢ</sup>

1824	(x_)	ᠤ	MONGOLIAN LETTER U
1824	(x_)	ᠤ	First Isolate Form
1824+FVS1	(x_)	ᠤ	Second Isolate Form
			(NOTE: this is also the Unicode presentation form)
1824+ZWJ	(x_)	ᠤ	Initial Form <sup>%</sup>
ZWJ+1824+ZWJ	(x_)	ᠤ	First Medial Form
			(also implemented with NNBSF - actually processed as initial in genitive suffix)
ZWJ+1824+FVS1+ZWJ	(x_)	ᠤ	Second Medial Form <sup>Ⓢ</sup>
ZWJ+1824	(x_)	ᠤ	First Final Form
			(also implemented with NNBSF - actually processed as isolate in genitive suffix)
ZWJ+1824+FVS1	(x_)	ᠤ	Second Final Form <sup>Ⓢ</sup>
			STATUS: Included in Chinese Proposal - WG2#65?
ZWJ+1824+FVS2	(x_)	ᠤ	Third Final Form
			STATUS: Included in Chinese Proposal - WG2#65?
			(dotted - only implemented with NNBSF - actually processed as isolate in genitive suffix)

1825	(x_)	ᠥ	MONGOLIAN LETTER OE
1825+ZWJ	(x_)	ᠥ	Initial Form
ZWJ+1825+ZWJ	(x_)	ᠥ	First Medial Form
ZWJ+1825+FVS1+ZWJ	(x_)	ᠥ	Second Medial Form
			(context-driven)
ZWJ+1825+FVS2+ZWJ	(x_)	ᠥ	Third Medial Form <sup>Ⓢ</sup>

ZWJ+1825	᠐ (x_) <i>First Final Form</i>
ZWJ+1825+FVS1	᠑ (x_) <i>Second Final Form<sup>Ⓢ</sup></i>
1826 (x_) <b>ᠤ</b>	MONGOLIAN LETTER UE
1826	ᠤ (x_) <i>First Isolate Form</i>
1826+FVS1	ᠤᠪ (x_) <i>Second Isolate Form</i>
<b>1826+FVS2</b>	ᠤᠨ (x_) <i>Third Isolate Form</i>
	(NOTE: this is also the Unicode presentation form)
1826+ZWJ	ᠤᠨ (x_) <i>Initial Form<sup>᠓</sup></i>
ZWJ+1826+ZWJ	ᠤ (x_) <i>First Medial Form</i>
	(also implemented with NNBSF - actually processed as initial in genitive suffix)
ZWJ+1826+FVS1+ZWJ	ᠤᠨ (x_) <i>Second Medial Form</i>
	(context-driven)
ZWJ+1826+FVS2+ZWJ	ᠤᠨ (x_) <i>Third Medial Form<sup>Ⓢ</sup></i>
<b>ZWJ+1826+FVS3+ZWJ</b>	ᠤᠨ (x_) <i>Fourth Medial Form</i>
	(needed to handle DUEGER without NNBSF)
ZWJ+1826	᠐ (x_) <i>First Final Form</i>
	(also implemented with NNBSF - actually processed as isolate in genitive suffix)
ZWJ+1826+FVS1	᠑ (x_) <i>Second Final Form<sup>Ⓢ</sup></i>
<b>ZWJ+1826+FVS2</b>	᠐ (x_) <i>Third Final Form</i>
	(dotted - only implemented with NNBSF - actually processed as isolate in genitive suffix)

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

1828 (xxxx) <b>ᠨ</b>	MONGOLIAN LETTER NA
1828+ZWJ	ᠨ (xxxx) <i>First Initial Form</i>
	(also context-driven in Todo)
1828+FVS1+ZWJ	ᠨ (x_) <i>Second Initial Form<sup>Ⓢ</sup></i>
ZWJ+1828+ZWJ	ᠨ (xxxx) <i>First Medial Form</i>
	(context-driven)
	(may be implemented as a toggle)
ZWJ+1828+FVS1+ZWJ	ᠨ (xxxx) <i>Second Medial Form</i>
	(context-driven as a toggle, so in actuality could be dotted or undotted)
ZWJ+1828+FVS2+ZWJ	ᠨ (x_) <i>Third Medial Form</i>
	(only implemented with MVS - actually - processed as final when pre-MVS)
ZWJ+1828+FVS3+ZWJ	ᠨ (x_) <i>Fourth Medial Form</i>
	(context-driven, Todo only)
<b>ZWJ+1828+VS01+ZWJ</b>	ᠨ (x_) <i>Fifth Medial Form</i>
	(STATUS: Discussion needed)
ZWJ+1828	ᠨ (xxxx) <i>Final Form</i>
	(AN+FVS4+AR must remove the dot)

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

182A (x_xx) <b>ᠪ</b>	MONGOLIAN LETTER BA <sup>᠑</sup>
182A+ZWJ	ᠪ (x_xx) <i>Initial Form</i>
ZWJ+182A+ZWJ	ᠪ (x_xx) <i>Medial Form</i>
ZWJ+182A	ᠪ (x_xx) <i>First Final Form</i>

ZWJ+182A+FVS1	ᠪ (x_) <i>Second Final Form<sup>Ⓢ</sup></i>
182B (x_) <b>ᠮ</b>	MONGOLIAN LETTER PA <sup>᠑</sup>
182B+ZWJ	ᠮ (x_) <i>Initial Form</i>
ZWJ+182B+ZWJ	ᠮ (x_) <i>Medial Form</i>
ZWJ+182B	ᠮ (x_) <i>Final Form</i>

182C (x_) <b>ᠬ</b>	MONGOLIAN LETTER QA
182C+FVS1	ᠬ (x_) <i>Second Isolate Form<sup>*</sup></i>
182C+FVS2	ᠬ (x_) <i>Third Isolate Form<sup>*</sup></i>
182C+ZWJ	ᠬ (x_) <i>First Initial Form</i>
182C+FVS1+ZWJ	ᠬ (x_) <i>Second Initial Form<sup>Ⓢ</sup></i>
<b>182C+FVS2+ZWJ</b>	ᠬ (x_) <i>Third Initial Form</i>
	(STATUS: Called for by Ulaanbaatar, Mongolia as needed in QOIR)
ZWJ+182C+ZWJ	ᠬ (x_) <i>First Medial Form</i>
ZWJ+182C+FVS1+ZWJ	ᠬ (x_) <i>Second Medial Form<sup>Ⓢ</sup></i>
<b>ZWJ+182C+FVS2+ZWJ</b>	ᠬ (x_) <i>Third Medial Form</i>
	(actually - processed as final when pre-MVS) (Chinese Standard has dotted variant first - however all fonts show non-dotted variant first)
<b>ZWJ+182C+FVS3+ZWJ</b>	ᠬ (x_) <i>Fourth Medial Form<sup>Ⓢ</sup></i>
	(actually - processed as final when pre-MVS) (Chinese Standard has dotted variant first - however all fonts show non-dotted variant first)

182D (x_) <b>ᠭ</b>	MONGOLIAN LETTER GA
<b>182D+FVS1</b>	ᠭ (x_) <i>Second Isolate Form<sup>*</sup></i>
	(Chinese Standard uses ZWJ instead of FVS)
182D+FVS2	ᠭ (x_) <i>Third Isolate Form<sup>*</sup></i>
182D+ZWJ	ᠭ (x_) <i>First Initial Form</i>
182D+FVS1+ZWJ	ᠭ (x_) <i>Second Initial Form<sup>Ⓢ</sup></i>
<b>182D+FVS2+ZWJ</b>	ᠭ (x_) <i>Third Initial Form</i>
	(STATUS: included in Chinese Proposal - WG2#652)
	(context-driven)
ZWJ+182D+ZWJ	ᠭ (x_) <i>First Medial Form</i>
ZWJ+182D+FVS1+ZWJ	ᠭ (x_) <i>Second Medial Form</i>
	(context-driven)
ZWJ+182D+FVS2+ZWJ	ᠭ (x_) <i>Third Medial Form</i>
	(only implemented with MVS)
	(actually - processed as final when pre-MVS)
ZWJ+182D+FVS3+ZWJ	ᠭ (x_) <i>Fourth Medial Form</i>
	(context-driven)
<b>ZWJ+182D+VS01+ZWJ</b>	ᠭ (x_) <i>Fifth Medial Form</i>
	(STATUS: Discussion needed)
	(needed to over-ride default context) (COG+FVS4+A+FVS1+GULA)
ZWJ+182D	ᠭ (x_) <i>First Final Form</i>
	(NOTE: error in Chinese Standard - missing)
ZWJ+182D+FVS1	ᠭ (x_) <i>Second Final Form</i>
	(needed to over-ride default context) (SIG+FVS1)
ZWJ+182D+FVS2	ᠭ (x_) <i>Third Final Form</i>
	(context-driven) (ABSIG+FVS2)





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





182F (xxxx) <b>ᠯ</b>	MONGOLIAN LETTER LA
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182F+ZWJ	ᠠ (xxxx)	<i>Initial Form</i>
ZWJ+182F+ZWJ	ᠠ (xxxx)	<i>Medial Form</i>
ZWJ+182F	ᠡ (xxxx)	<i>Final Form</i>
		<small>(also implemented with MVS)</small>
1830 (xxxx)	ᠠ	MONGOLIAN LETTER SA
1830+ZWJ	ᠠ (xxxx)	<i>Initial Form</i>
ZWJ+1830+ZWJ	ᠡ (xxxx)	<i>Medial Form</i>
ZWJ+1830	ᠢ (xxxx)	<i>First Final Form</i>
ZWJ+1830+FVS1	ᠣ (x_)	<i>Second Final Form</i> <sup>ⓔ</sup>
ZWJ+1830+FVS2	ᠣ (x_)	<i>Third Final Form</i> <sup>ⓔ</sup>
1831 (xx_)	ᠡ	MONGOLIAN LETTER SHA
1831+ZWJ	ᠡ (xx_)	<i>Initial Form</i>
ZWJ+1831+ZWJ	ᠢ (xx_)	<i>Medial Form</i>
ZWJ+1831	ᠣ (xx_)	<i>Final Form</i>
1832 (x_)	ᠢ	MONGOLIAN LETTER TA
1832+ZWJ	ᠢ (x_)	<i>Initial Form</i>
ZWJ+1832+ZWJ	ᠣ (x_)	<i>First Medial Form</i>
ZWJ+1832+FVS1+ZWJ	ᠣ (x_)	<i>Second Medial Form</i> <sup>ⓔ</sup>
ZWJ+1832	ᠣ (x_)	<i>Final Form</i>
1833 (x_)	ᠣ	MONGOLIAN LETTER DA
1833+ZWJ	ᠣ (x_)	<i>First Initial Form</i>
1833+FVS1+ZWJ	ᠣ (x_)	<i>Second Initial Form</i>
		<small>(also implemented with NNBSPP)</small>
ZWJ+1833+ZWJ	ᠣ (x_)	<i>First Medial Form</i>
ZWJ+1833+FVS1+ZWJ	ᠣ (x_)	<i>Second Medial Form</i>
		<small>(context-driven)</small>
ZWJ+1833	ᠣ (x_)	<i>First Final Form</i>
ZWJ+1833+FVS1	ᠣ (x_)	<i>Second Final Form</i> <sup>ⓔ</sup>
1834 (xxxx)	ᠣ	MONGOLIAN LETTER CHA
1834+ZWJ	ᠣ (xxxx)	<i>Initial Form</i>
ZWJ+1834+ZWJ	ᠣ (xxxx)	<i>Medial Form</i>
ZWJ+1834	ᠣ (x_)	<i>Final Form</i>
1835 (x_x)	ᠣ	MONGOLIAN LETTER JA
1835+ZWJ	ᠣ (x_x)	<i>Initial Form</i>
ZWJ+1835+ZWJ	ᠣ (x_x)	<i>First Medial Form</i>
ZWJ+1835+FVS1+ZWJ	ᠣ (x_)	<i>Second Medial Form</i>
		<small>(implemented with MVS &amp; NNBSPP only - actually - processed as final when pre-MVS/NNBSPP)</small>
ZWJ+1835	ᠣ (x_)	<i>First Final Form</i>
1836 (x_xx)	ᠣ	MONGOLIAN LETTER YA
1836+ZWJ	ᠣ (x_xx)	<i>First Initial Form</i>
1836+FVS1+ZWJ	ᠣ (x_)	<i>Second Initial Form</i>
		<small>(context-driven)</small>
ZWJ+1836+ZWJ	ᠣ (x_xx)	<i>First Medial Form</i>
ZWJ+1836+FVS1+ZWJ	ᠣ (x_)	<i>Second Medial Form</i>
		<small>(context-driven AND also needed to over-ride default context)</small>
ZWJ+1836+FVS2+ZWJ	ᠣ (x_)	<i>Third Medial Form</i>

(implemented with MVS & NNBSPP only - actually - processed as final when pre-MVS/NNBSPP)






ZWJ+1836	ᠣ ( )	<i>Final Form</i>
1837 (xxx_)	ᠣ	MONGOLIAN LETTER RA
1837+ZWJ	ᠣ (xxx_)	<i>Initial Form</i>
ZWJ+1837+ZWJ	ᠣ (xxx_)	<i>Medial Form</i>
ZWJ+1837	ᠣ (xxx_)	<i>Final Form</i>
		<small>(also implemented with MVS)</small>
1838 (xxxx)	ᠣ	MONGOLIAN LETTER WA
1838+ZWJ	ᠣ (xxxx)	<i>Initial Form</i>
ZWJ+1838+ZWJ	ᠣ (xxxx)	<i>First Medial Form</i>
ZWJ+1838+FVS1+ZWJ	ᠣ (x_)	<i>Second Medial Form</i>
		<small>(context-driven)</small>
ZWJ+1838	ᠣ (x_)	<i>First Final Form</i>
ZWJ+1838+FVS1	ᠣ (x_)	<i>Second Final Form</i> <sup>ⓔ</sup>
		<small>(only implemented with MVS)</small>
1839 (x_)	ᠣ	MONGOLIAN LETTER FA <sup>ᠰ</sup>
1839+ZWJ	ᠣ (x_)	<i>Initial Form</i>
ZWJ+1839+ZWJ	ᠣ (x_)	<i>Medial Form</i>
ZWJ+1839	ᠣ (x_)	<i>Final Form</i>
183A (xxxx)	ᠣ	MONGOLIAN LETTER KA <sup>ᠰ</sup>
183A+ZWJ	ᠣ (xxxx)	<i>Initial Form</i>
ZWJ+183A+ZWJ	ᠣ (xxxx)	<i>Medial Form</i>
ZWJ+183A	ᠣ (x_)	<i>Final Form</i>
183B (xx_)	ᠣ	MONGOLIAN LETTER KHA <sup>ᠰ</sup>
183B+ZWJ	ᠣ (xx_)	<i>Initial Form</i>
ZWJ+183B+ZWJ	ᠣ (xx_)	<i>Medial Form</i>
ZWJ+183B	ᠣ (xx_)	<i>Final Form</i>
183C (x_)	ᠣ	MONGOLIAN LETTER TSA
183C+ZWJ	ᠣ (x_)	<i>Initial Form</i>
ZWJ+183C+ZWJ	ᠣ (x_)	<i>Medial Form</i>
ZWJ+183C	ᠣ (x_)	<i>Final Form</i>
183D (x_)	ᠣ	MONGOLIAN LETTER ZA
183D+ZWJ	ᠣ (x_)	<i>Initial Form</i>
ZWJ+183D+ZWJ	ᠣ (x_)	<i>Medial Form</i>
ZWJ+183D	ᠣ (x_)	<i>Final Form</i>
183E (x_)	ᠣ	MONGOLIAN LETTER HAA
183E+ZWJ	ᠣ (x_)	<i>Initial Form</i>
ZWJ+183E+ZWJ	ᠣ (x_)	<i>Medial Form</i>
ZWJ+183E	ᠣ (x_)	<i>Final Form</i>
183F (x_)	ᠣ	MONGOLIAN LETTER ZRA
183F+ZWJ	ᠣ (x_)	<i>Initial Form</i>
ZWJ+183F+ZWJ	ᠣ (x_)	<i>Medial Form</i>
ZWJ+183F	ᠣ (x_)	<i>Final Form</i>






1840 (xx\_)  MONGOLIAN LETTER LHA  
 1840+ZWJ  (xx\_) *Initial Form*  
 ZWJ+1840+ZWJ  (xx\_) *Medial Form*  
 ZWJ+1840  ( ) *Final Form*






1841 (x\_)  MONGOLIAN LETTER ZHI  
 1841+ZWJ  (x\_) *Initial Form*  
 ZWJ+1841+ZWJ  (x\_) *Medial Form*  
 ZWJ+1841  ( ) *Final Form*






1842 (x\_)  MONGOLIAN LETTER CHI  
 1842+ZWJ  (x\_) *Initial Form*  
 ZWJ+1842+ZWJ  (x\_) *Medial Form*  
 ZWJ+1842  ( ) *Final Form*







### Todo Letters



1843 (x\_)  MONGOLIAN LETTER TODO LONG VOWEL SIGN  
 1843+ZWJ  (x\_) *Initial Form*  
 (context-driven)  
 ZWJ+1843+ZWJ  (x\_) *Medial Form*  
 (context-driven)  
 ZWJ+1843  (x\_) *First Final Form*  
 (context-driven)  
 ZWJ+1843+FVS1  (x\_) *Second Final Form*  
 STATUS: Discussion needed






1844 (x\_)  MONGOLIAN LETTER TODO E  
 1844+ZWJ  (x\_) *Initial Form*  
 ZWJ+1844+ZWJ  (x\_) *First Medial Form*  
 ZWJ+1844+FVS1+ZWJ  (x\_) *Second Medial Form*<sup>Ⓢ</sup>  
 ZWJ+1844  (x\_) *Final Form*







1845 (x\_)  MONGOLIAN LETTER TODO I  
 1845+ZWJ  (x\_) *Initial Form*  
 ZWJ+1845+ZWJ  (x\_) *First Medial Form*  
 ZWJ+1845+FVS1+ZWJ  (x\_) *Second Medial Form*  
 (context-driven)  
 ZWJ+1845  (x\_) *Final Form*






1846 (x\_)  MONGOLIAN LETTER TODO O  
 1846+ZWJ  (x\_) *Initial Form*  
 ZWJ+1846+ZWJ  (x\_) *First Medial Form*  
 ZWJ+1846+FVS1+ZWJ  (x\_) *Second Medial Form*<sup>Ⓢ</sup>  
 ZWJ+1846  (x\_) *Final Form*






1847 (x\_)  MONGOLIAN LETTER TODO U  
 1847+FVS1  (x\_) *Second Isolate Form*  
 1847+ZWJ  (x\_) *Initial Form*  
 ZWJ+1847+ZWJ  (x\_) *First Medial Form*  
 ZWJ+1847+FVS1+ZWJ  (x\_) *Second Medial Form*<sup>Ⓢ</sup>  
 ZWJ+1847+FVS2+ZWJ  (x\_) *Third Medial Form*





(context-driven)  
 ZWJ+1847  (x\_) *First Final Form*  
 ZWJ+1847+FVS1  (x\_) *Second Final Form*  
 (context-driven)






1848 (x\_)  MONGOLIAN LETTER TODO OE  
 1848+ZWJ  (x\_) *Initial Form*  
 ZWJ+1848+ZWJ  (x\_) *First Medial Form*  
 ZWJ+1848+FVS1+ZWJ  (x\_) *Second Medial Form*<sup>Ⓢ</sup>  
 ZWJ+1848  (x\_) *Final Form*







1849 (x\_)  MONGOLIAN LETTER TODO UE  
 1849+FVS1  (x\_) *Second Isolate Form*  
 1849+ZWJ  (x\_) *Initial Form*  
 ZWJ+1849+ZWJ  (x\_) *First Medial Form*  
 ZWJ+1849+FVS1+ZWJ  (x\_) *Second Medial Form*<sup>Ⓢ</sup>  
 ZWJ+1849  (x\_) *Final Form*




184A (x\_)  MONGOLIAN LETTER TODO ANG  
 184A  (x\_) *Isolate Form*  
 184A+ZWJ  ( ) *Initial Form*  
 ZWJ+184A+ZWJ  (x\_) *Medial Form*  
 ZWJ+184A  (x\_) *Final Form*<sup>Ⓢ</sup>

184B (x\_)  MONGOLIAN LETTER TODO BA  
 184B  (x\_) *Isolate Form*  
 184B+ZWJ  (x\_) *Initial Form*  
 ZWJ+184B+ZWJ  (x\_) *Medial Form*  
 ZWJ+184B  (x\_) *Final Form*<sup>Ⓢ</sup>

184C (x\_)  MONGOLIAN LETTER TODO PA<sup>Ⓢ</sup>  
 184C+ZWJ  (x\_) *Initial Form*  
 ZWJ+184C+ZWJ  (x\_) *Medial Form*  
 ZWJ+184C  (x\_) *Final Form*

184D (x\_)  MONGOLIAN LETTER TODO QA  
 184D+FVS1  (x\_) *Second Isolate Form*<sup>Ⓢ</sup>  
 184D+ZWJ  (x\_) *Initial Form*  
 ZWJ+184D+ZWJ  (x\_) *Medial Form*  
 ZWJ+184D  (x\_) *Final Form*

184E (x\_)  MONGOLIAN LETTER TODO GA  
 184E+FVS1  (x\_) *Second Isolate Form*<sup>Ⓢ</sup>  
 184E+ZWJ  (x\_) *Initial Form*  
 ZWJ+184E+ZWJ  (x\_) *First Medial Form*  
 ZWJ+184E+FVS1+ZWJ  (x\_) *Second Medial Form*  
 (context-driven)  
 ZWJ+184E  (x\_) *Final Form*

184F (x\_)  MONGOLIAN LETTER TODO MA  
 184F  (x\_) *Isolate Form*  
 184F+ZWJ  (x\_) *Initial Form*

ZWJ+184F+ZWJ	ᠮ (x_) <i>Medial Form</i>
ZWJ+184F	ᠮᠤ (x_) <i>Final Form</i> <sup>6</sup>
1850 (x_) ᠮ	MONGOLIAN LETTER TODO TA
1850+ZWJ	ᠮ (x_) <i>Initial Form</i>
ZWJ+1850+ZWJ	ᠮ (x_) <i>Medial Form</i>
ZWJ+1850	ᠮᠤ (x_) <i>Final Form</i>
1851 (x_) ᠮᠤ	MONGOLIAN LETTER TODO DA
1851+ZWJ	ᠮᠤ (x_) <i>Initial Form</i>
ZWJ+1851+ZWJ	ᠮᠤ (x_) <i>Medial Form</i>
ZWJ+1851	ᠮᠤᠨ (x_) <i>Final Form</i>
1852 (x_) ᠮᠤᠷ	MONGOLIAN LETTER TODO CHA
1852+ZWJ	ᠮᠤᠷ (x_) <i>Initial Form</i>
ZWJ+1852+ZWJ	ᠮᠤᠷ (x_) <i>Medial Form</i>
ZWJ+1852	ᠮᠤᠷᠨ (x_) <i>Final Form</i>
1853 (xx_) ᠮᠤᠵ	MONGOLIAN LETTER TODO JA
1853+ZWJ	ᠮᠤᠵ (xx_) <i>Initial Form</i>
ZWJ+1853+ZWJ	ᠮᠤᠵ (xx_) <i>Medial Form</i>
ZWJ+1853	ᠮᠤᠵᠨ (x_) <i>Final Form</i>
1854 (x_) ᠮᠤᠰ	MONGOLIAN LETTER TODO TSA
1854+ZWJ	ᠮᠤᠰ (x_) <i>Initial Form</i>
ZWJ+1854+ZWJ	ᠮᠤᠰ (x_) <i>Medial Form</i>
ZWJ+1854	ᠮᠤᠰᠨ (x_) <i>Final Form</i>
1855 (x_) ᠮᠤᠶ	MONGOLIAN LETTER TODO YA
1855+ZWJ	ᠮᠤᠶ (x_) <i>Initial Form</i>
ZWJ+1855+ZWJ	ᠮᠤᠶ (x_) <i>Medial Form</i>
ZWJ+1855	ᠮᠤᠶᠨ (x_) <i>Final Form</i>
1856 (x_) ᠮᠤᠠ	MONGOLIAN LETTER TODO WA
1856+ZWJ	ᠮᠤᠠ (x_) <i>Initial Form</i>
ZWJ+1856+ZWJ	ᠮᠤᠠ (x_) <i>Medial Form</i>
ZWJ+1856	ᠮᠤᠠᠨ (x_) <i>Final Form</i>
1857 (x_) ᠮᠤᠨ	MONGOLIAN LETTER TODO KA <sup>5</sup>
1857+ZWJ	ᠮᠤᠨ (x_) <i>Initial Form</i>
ZWJ+1857+ZWJ	ᠮᠤᠨ (x_) <i>Medial Form</i>
ZWJ+1857	ᠮᠤᠨᠨ (x_) <i>Final Form</i>
1858 (xx_) ᠮᠤᠭ	MONGOLIAN LETTER TODO GAA <sup>5</sup>
1858+ZWJ	ᠮᠤᠭ (xx_) <i>Initial Form</i>
ZWJ+1858+ZWJ	ᠮᠤᠭ (xx_) <i>Medial Form</i>
ZWJ+1858	ᠮᠤᠭᠨ (x_) <i>Final Form</i>
1859 (x_) ᠮᠤᠬ	MONGOLIAN LETTER TODO HAA
1859	ᠮᠤᠬ (x_) <i>Isolate Form</i>
1859+ZWJ	ᠮᠤᠬ (x_) <i>Initial Form</i>

ZWJ+1859+ZWJ	ᠮᠤᠬ (x_) <i>Medial Form</i>
ZWJ+1859	ᠮᠤᠬᠨ (x_) <i>Final Form</i> <sup>6</sup>
185A (x_) ᠮᠤᠵ	MONGOLIAN LETTER TODO JIA
185A+ZWJ	ᠮᠤᠵ (x_) <i>Initial Form</i>
ZWJ+185A+ZWJ	ᠮᠤᠵ (x_) <i>Medial Form</i>
ZWJ+185A	ᠮᠤᠵᠨ (x_) <i>Final Form</i>
185B (xx_) ᠮᠤᠵ	MONGOLIAN LETTER TODO NIA
185B+ZWJ	ᠮᠤᠵ (xx_) <i>Initial Form</i> <sup>2</sup>
ZWJ+185B+ZWJ	ᠮᠤᠵ (xx_) <i>Medial Form</i>
ZWJ+185B	ᠮᠤᠵᠨ (x_) <i>Final Form</i>
185C (xx_) ᠮᠤᠵ	MONGOLIAN LETTER TODO DZA
185C+ZWJ	ᠮᠤᠵ (xx_) <i>Initial Form</i>
ZWJ+185C+ZWJ	ᠮᠤᠵ (xx_) <i>Medial Form</i>
ZWJ+185C	ᠮᠤᠵᠨ (x_) <i>Final Form</i>

### Sibe Letters

185D (xx_) ᠮᠤᠵ	MONGOLIAN LETTER SIBE E
185D	ᠮᠤᠵ (xx_) <i>Isolate Form</i>
185D+ZWJ	ᠮᠤᠵ (xx_) <i>Initial Form</i>
ZWJ+185D+ZWJ	ᠮᠤᠵ (xx_) <i>First Medial Form</i>
ZWJ+185D+FVS1+ZWJ	ᠮᠤᠵ (xx_) <i>Second Medial Form</i> <small>(context-driven)</small>
ZWJ+185D	ᠮᠤᠵᠨ (xx_) <i>First Final Form</i> <sup>6</sup>
ZWJ+185D+FVS1	ᠮᠤᠵᠨ (xx_) <i>Second Final Form</i> <small>(context-driven)</small>
185E (x_) ᠮᠤᠵ	MONGOLIAN LETTER SIBE I
185E	ᠮᠤᠵ (x_) <i>Isolate Form</i>
185E+ZWJ	ᠮᠤᠵ (x_) <i>Initial Form</i>
ZWJ+185E+ZWJ	ᠮᠤᠵ (x_) <i>First Medial Form</i>
ZWJ+185E+FVS1+ZWJ	ᠮᠤᠵ (x_) <i>Second Medial Form</i> <sup>6</sup> <small>(context-driven)</small>
ZWJ+185E+FVS2+ZWJ	ᠮᠤᠵ (x_) <i>Third Medial Form</i> <small>(context-driven)</small>
ZWJ+185E	ᠮᠤᠵᠨ (x_) <i>First Final Form</i> <small>(also implemented with NNBSF - actually processed as isolate in accusative suffix)</small>
ZWJ+185E+FVS1	ᠮᠤᠵᠨ (x_) <i>Second Final Form</i> <small>(context-driven)</small>
ZWJ+185E+FVS2	ᠮᠤᠵᠨ (x_) <i>Third Final Form</i>
185F (xx_) ᠮᠤᠵ	MONGOLIAN LETTER SIBE IY
185F+ZWJ	ᠮᠤᠵ (xx_) <i>Initial Form</i>
ZWJ+185F+ZWJ	ᠮᠤᠵ (xx_) <i>Medial Form</i>
ZWJ+185F	ᠮᠤᠵᠨ (xx_) <i>Final Form</i>
1860 (xx_) ᠮᠤᠵ	MONGOLIAN LETTER SIBE UE
1860+ZWJ	ᠮᠤᠵ (xx_) <i>Initial Form</i>
ZWJ+1860+ZWJ	ᠮᠤᠵ (xx_) <i>First Medial Form</i>
ZWJ+1860+FVS1+ZWJ	ᠮᠤᠵ (xx_) <i>Second Medial Form</i> <small>(context-driven)</small>

ZWJ+1860	᠋ (xx)	First Final Form	1868+FVS1+ZWJ	᠋ (xx)	Second Initial Form
ZWJ+1860+FVS1	᠋ (xx)	Second Final Form	ZWJ+1868+ZWJ	᠋ (xx)	First Medial Form
ZWJ+1860+FVS2	᠋ (xx)	Third Final Form	ZWJ+1868+FVS1+ZWJ	᠋ (xx)	Second Medial Form
STATUS: Included in Chinese Proposal – WG2#65		(context-driven)	ZWJ+1868+FVS2+ZWJ	᠋ (xx)	Third Medial Form
		(context-driven)	ZWJ+1868	᠋ (xx)	Final Form
1861 (xx)	᠋	MONGOLIAN LETTER SIBE U	1869 (xx)	᠋	MONGOLIAN LETTER SIBE DA
1861	᠋ (x)	Isolate Form	1869+ZWJ	᠋ (xx)	First Initial Form
1861+ZWJ	᠋ (x)	Initial Form	1869+FVS1+ZWJ	᠋ (xx)	Second Initial Form
ZWJ+1861+ZWJ	᠋ (xx)	Medial Form*	(context-driven and also NNBSBP)		
ZWJ+1861	᠋ (xx)	Final Form	ZWJ+1869+ZWJ	᠋ (xx)	First Medial Form
1862 (x)	᠋	MONGOLIAN LETTER SIBE ANG	ZWJ+1869+FVS1+ZWJ	᠋ (xx)	Second Medial Form
1862	᠋ (x)	Isolate Form	ZWJ+1869	᠋ (x)	Final Form
1862+ZWJ	᠋ (x)	Initial Form	186A (x)	᠋	MONGOLIAN LETTER SIBE JA
ZWJ+1862+ZWJ	᠋ (x)	Medial Form	186A+ZWJ	᠋ (x)	Initial Form
ZWJ+1862	᠋ (x)	Final Form*	ZWJ+186A+ZWJ	᠋ (x)	Medial Form
1863 (x)	᠋	MONGOLIAN LETTER SIBE KA	ZWJ+186A	᠋ (x)	Final Form
1863	᠋ (x)	First Isolate Form	186B (x)	᠋	MONGOLIAN LETTER SIBE FA
1863+FVS1	᠋ (x)	Second Isolate Form*	186B+ZWJ	᠋ (x)	Initial Form
1863+ZWJ	᠋ (x)	Initial Form	ZWJ+186B+ZWJ	᠋ (x)	Medial Form
ZWJ+1863+ZWJ	᠋ (x)	First Medial Form	ZWJ+186B	᠋ (x)	Final Form
ZWJ+1863+FVS1+ZWJ	᠋ (x)	Second Medial Form	186C (xx)	᠋	MONGOLIAN LETTER SIBE GAA <sup>s</sup>
ZWJ+1863	᠋ (x)	Final Form*	186C+ZWJ	᠋ (xx)	Initial Form
1864 (xx)	᠋	MONGOLIAN LETTER SIBE GA	ZWJ+186C+ZWJ	᠋ (xx)	Medial Form
1864+FVS1	᠋ (xx)	Second Isolate Form*	ZWJ+186C	᠋ (x)	Final Form
1864+ZWJ	᠋ (xx)	Initial Form	186D (xx)	᠋	MONGOLIAN LETTER SIBE HAA <sup>s</sup>
ZWJ+1864+ZWJ	᠋ (xx)	Medial Form	186D+ZWJ	᠋ (xx)	Initial Form
ZWJ+1864	᠋ (x)	Final Form	ZWJ+186D+ZWJ	᠋ (xx)	Medial Form
1865 (xx)	᠋	MONGOLIAN LETTER SIBE HA	ZWJ+186D	᠋ (x)	Final Form
1865+FVS1	᠋ (xx)	Second Isolate Form*	186E (xx)	᠋	MONGOLIAN LETTER SIBE TSA
1865+ZWJ	᠋ (xx)	Initial Form	186E+ZWJ	᠋ (xx)	Initial Form
ZWJ+1865+ZWJ	᠋ (xx)	Medial Form	ZWJ+186E+ZWJ	᠋ (xx)	Medial Form
ZWJ+1865	᠋ (x)	Final Form	ZWJ+186E	᠋ (xx)	Final Form
1866 (xx)	᠋	MONGOLIAN LETTER SIBE PA <sup>s</sup>	186F (xx)	᠋	MONGOLIAN LETTER SIBE ZA
1866+ZWJ	᠋ (xx)	Initial Form	186F+ZWJ	᠋ (xx)	First Initial Form
ZWJ+1866+ZWJ	᠋ (xx)	Medial Form	186F+FVS1+ZWJ	᠋ (xx)	Second Initial Form
ZWJ+1866	᠋ (x)	Final Form	(context-driven)		
1867 (xx)	᠋	MONGOLIAN LETTER SIBE SHA	ZWJ+186F+ZWJ	᠋ (xx)	First Medial Form
1867+ZWJ	᠋ (xx)	Initial Form	ZWJ+186F+FVS1+ZWJ	᠋ (xx)	Second Medial Form
ZWJ+1867+ZWJ	᠋ (xx)	Medial Form	(context-driven)		
ZWJ+1867	᠋ (x)	Final Form	ZWJ+186F	᠋ (xx)	Final Form
1868 (xx)	᠋	MONGOLIAN LETTER SIBE TA	1870 (xx)	᠋	MONGOLIAN LETTER SIBE RAA
1868+ZWJ	᠋ (xx)	First Initial Form	1870+ZWJ	᠋ (xx)	Initial Form

ZWJ+1870+ZWJ	ᠮ (xx)	<i>Medial Form</i>
ZWJ+1870	ᠮ (xx)	<i>Final Form</i>
1871 (xx)	ᠮᠣ	MONGOLIAN LETTER SIBE CHA
1871+ZWJ	ᠮᠣ (xx)	<i>Initial Form</i>
ZWJ+1871+ZWJ	ᠮᠣ (xx)	<i>Medial Form</i>
ZWJ+1871	ᠮᠣ ( )	<i>Final Form</i>
1872 (x)	ᠮᠤ	MONGOLIAN LETTER SIBE ZHA
1872+ZWJ	ᠮᠤ (x)	<i>Initial Form</i>
ZWJ+1872+ZWJ	ᠮᠤ (x)	<i>Medial Form</i>
ZWJ+1872	ᠮᠤ ( )	<i>Final Form</i>

### Manchu Letters

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

1874 (x)	ᠮᠠᠨ	MONGOLIAN LETTER MANCHU KA
1874	ᠮᠠᠨ (x)	<i>First Isolate Form</i>
1874+FVS1	ᠮᠠᠨ (x)	<i>Second Isolate Form</i> <sup>*</sup>
1874+ZWJ	ᠮᠠᠨ (x)	<i>Initial Form</i>
ZWJ+1874+ZWJ	ᠮᠠᠨ (x)	<i>First Medial Form</i>
ZWJ+1874+FVS1+ZWJ	ᠮᠠᠨ (x)	<i>Second Medial Form</i> <small>(context-driven)</small>
ZWJ+1874+FVS2+ZWJ	ᠮᠠᠨ (x)	<i>Third Medial Form</i> <small>(context-driven)</small>
ZWJ+1874+FVS3+ZWJ	ᠮᠠᠨ (x)	<i>Fourth Medial Form</i>
ZWJ+1874	ᠮᠠᠨ (x)	<i>First Final Form</i> <sup>o</sup>
ZWJ+1874+FVS1	ᠮᠠᠨ (x)	<i>Second Final Form</i> <small>(context-driven)</small>
ZWJ+1874+FVS2	ᠮᠠᠨ (x)	<i>Third Final Form</i>

1875 (x)	ᠮᠠᠨᠢ	MONGOLIAN LETTER MANCHU RA
1875	ᠮᠠᠨᠢ (x)	<i>Isolate Form</i>
1875+ZWJ	ᠮᠠᠨᠢ (x)	<i>Initial Form</i>
ZWJ+1875+ZWJ	ᠮᠠᠨᠢ (x)	<i>Medial Form</i>
ZWJ+1875	ᠮᠠᠨᠢ (x)	<i>Final Form</i> <sup>o</sup>

1876 (x)	ᠮᠠᠨᠤ	MONGOLIAN LETTER MANCHU FA
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1876	ᠮᠠᠨᠤ (x)	<i>Isolate Form</i>
1876+ZWJ	ᠮᠠᠨᠤ (x)	<i>First Initial Form</i>
1876+FVS1+ZWJ	ᠮᠠᠨᠤ (x)	<i>Second Initial Form</i> <small>(context-driven)</small>
ZWJ+1876+ZWJ	ᠮᠠᠨᠤ (x)	<i>First Medial Form</i> <sup>o</sup>
ZWJ+1876+FVS1+ZWJ	ᠮᠠᠨᠤ (x)	<i>Second Medial Form</i> <small>(context-driven)</small>
ZWJ+1876	ᠮᠠᠨᠤ ( )	<i>Final Form</i>
1877 (x)	ᠮᠠᠨᠤ	MONGOLIAN LETTER MANCHU ZHA
1877+ZWJ	ᠮᠠᠨᠤ (x)	<i>Initial Form</i>
ZWJ+1877+ZWJ	ᠮᠠᠨᠤ (x)	<i>Medial Form</i>
ZWJ+1877	ᠮᠠᠨᠤ ( )	<i>Final Form</i>

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

### Ali Gali Letters

1880 (xx_x)	ᠮᠠᠨᠠ	MONGOLIAN LETTER ALI GALI ANUSVARA
1880+FVS1	ᠮᠠᠨᠠ (xx_x)	<i>Second Form</i>
1881 (xx_x)	ᠮᠠᠨᠢ	MONGOLIAN LETTER ALI GALI VISARGA
1881+FVS1	ᠮᠠᠨᠢ (xx_x)	<i>Second Form</i>
1882 (xx_x)	ᠮᠠᠨᠣ	MONGOLIAN LETTER ALI GALI DAMARU
1883 (xx_x)	ᠮᠠᠨᠤ	MONGOLIAN LETTER ALI GALI UBADAMA
1884 (xx_x)	ᠮᠠᠨᠤ	MONGOLIAN LETTER ALI GALI INVERTED UBADAMA

1887 (xx_x)	ᠮᠠᠨᠤ	MONGOLIAN LETTER ALI GALI A
1887+ZWJ	ᠮᠠᠨᠤ ( )	<i>Initial Form</i>
ZWJ+1887+ZWJ	ᠮᠠᠨᠤ ( )	<i>Medial Form</i>
ZWJ+1887	ᠮᠠᠨᠤ (x_x)	<i>First Final Form</i>
ZWJ+1887+FVS1	ᠮᠠᠨᠤ (x_x)	<i>Second Final Form</i>
ZWJ+1887+FVS2	ᠮᠠᠨᠤ (xx_x)	<i>Third Final Form</i>
ZWJ+1887+FVS3	ᠮᠠᠨᠤ (xx_x)	<i>Fourth Final Form</i>
ZWJ+1887+VS01	ᠮᠠᠨᠤ (x_x)	<i>Fifth Final Form</i>

STATUS: Proposal #2

1888 (x_x)	ᠮᠠᠨᠤ	MONGOLIAN LETTER ALI GALI I
1888+ZWJ	ᠮᠠᠨᠤ ( )	<i>Initial Form</i>
ZWJ+1888+ZWJ	ᠮᠠᠨᠤ (x_x)	<i>First Medial Form</i>
ZWJ+1888+ZWJ+FVS1	ᠮᠠᠨᠤ (x_x)	<i>Second Medial Form</i> <small>(context-driven)</small>
ZWJ+1888	ᠮᠠᠨᠤ (x_x)	<i>First Final Form</i>
ZWJ+1888+FVS1	ᠮᠠᠨᠤ (x_x)	<i>Second Final Form</i> <small>(context-driven)</small>



1889	(xx_)	᠎	MONGOLIAN LETTER ALI GALI KA <sup>5</sup>	ZWJ+1892+ZWJ	᠎ (x_x) <sup>5</sup>	<i>Medial Form</i>
1889+ZWJ		᠎ (xx_)	<i>Initial Form</i>	ZWJ+1892	᠎ ( )	<i>Final Form</i>
ZWJ+1889+ZWJ		᠎ (x_)	<i>Medial Form</i> <sup>3</sup>	1893	(x_)	᠎
ZWJ+1889		᠎ ( )	<i>Final Form</i>	1893+ZWJ	᠎ (x_)	<i>Initial Form</i>
188A	(xx_)	᠎	MONGOLIAN LETTER ALI GALI NGA	ZWJ+1893+ZWJ	᠎ (x_x) <sup>5</sup>	<i>Medial Form</i>
188A+ZWJ		᠎ (xx_)	<i>First Initial Form</i>	ZWJ+1893	᠎ ( )	<i>Final Form</i>
188A+FVS1+ZWJ		᠎ (xx_)	<i>Second Initial Form</i>	1894	(xx_)	᠎
ZWJ+188A+ZWJ		᠎ (xx_)	<i>First Medial Form</i>	1894+ZWJ	᠎ (xx_)	<i>Initial Form</i>
ZWJ+188A+FVS1+ZWJ		᠎ (xx_)	<i>Second Medial Form</i>	ZWJ+1894+ZWJ	᠎ (xx_)	<i>Medial Form</i>
ZWJ+188A		᠎ ( )	<i>Final Form</i>	ZWJ+1894	᠎ ( )	<i>Final Form</i>
188B	(xx_)	᠎	MONGOLIAN LETTER ALI GALI CA	1895	(x_)	᠎
188B+ZWJ		᠎ (xx_)	<i>Initial Form</i>	1895+ZWJ	᠎ (x_)	<i>Initial Form</i>
ZWJ+188B+ZWJ		᠎ (xx_)	<i>Medial Form</i>	ZWJ+1895+ZWJ	᠎ (x_x) <sup>5</sup>	<i>Medial Form</i>
ZWJ+188B		᠎ ( )	<i>Final Form</i>	ZWJ+1895	᠎ ( )	<i>Final Form</i>
188C	(x_)	᠎	MONGOLIAN LETTER ALI GALI TTA	1896	(xx_)	᠎
188C+ZWJ		᠎ (x_)	<i>Initial Form</i>	1896+ZWJ	᠎ (xx_)	<i>Initial Form</i>
ZWJ+188C+ZWJ		᠎ (x_x) <sup>5</sup>	<i>Medial Form</i>	ZWJ+1896+ZWJ	᠎ (xx_)	<i>Medial Form</i>
ZWJ+188C		᠎ ( )	<i>Final Form</i>	ZWJ+1896	᠎ ( )	<i>Final Form</i>
188D	(x_)	᠎	MONGOLIAN LETTER ALI GALI TTHA	1897	(x_)	᠎
188D+ZWJ		᠎ (x_)	<i>Initial Form</i>	1897+ZWJ	᠎ (x_)	<i>Initial Form</i>
ZWJ+188D+ZWJ		᠎ (x_x) <sup>5</sup>	<i>Medial Form</i>	ZWJ+1897+ZWJ	᠎ (x_)	<i>Medial Form</i> <sup>5</sup>
ZWJ+188D		᠎ ( )	<i>Final Form</i>	ZWJ+1897	᠎ ( )	<i>Final Form</i>
188E	(x_)	᠎	MONGOLIAN LETTER ALI GALI DDA	1898	(x_)	᠎
188E+ZWJ		᠎ (x_)	<i>Initial Form</i>	1898+ZWJ	᠎ (x_)	<i>Initial Form</i>
ZWJ+188E+ZWJ		᠎ (x_x) <sup>5</sup>	<i>Medial Form</i>	ZWJ+1898+ZWJ	᠎ ( )	<i>Medial Form</i>
ZWJ+188E		᠎ ( )	<i>Final Form</i>	ZWJ+1898	᠎ ( )	<i>Final Form</i>
188F	(x_xx)	᠎	MONGOLIAN LETTER ALI GALI NNA	1899	(x_)	᠎
188F+ZWJ		᠎ (xx_x)	<i>Initial Form</i>	1899+ZWJ	᠎ (x_)	<i>Initial Form</i>
ZWJ+188F+ZWJ		᠎ (xx_x)	<i>Medial Form</i>	ZWJ+1899+ZWJ	᠎ ( )	<i>Medial Form</i>
ZWJ+188F		᠎ ( )	<i>Final Form</i>	ZWJ+1899	᠎ ( )	<i>Final Form</i>
1890	(x_)	᠎	MONGOLIAN LETTER ALI GALI TA	189A	(x)	᠎
1890+ZWJ		᠎ (x_)	<i>Initial Form</i>	189A+ZWJ	᠎ (x_)	<i>Initial Form</i>
ZWJ+1890+ZWJ		᠎ (x_x) <sup>5</sup>	<i>Medial Form</i>	ZWJ+189A+ZWJ	᠎ (x_)	<i>Medial Form</i>
ZWJ+1890		᠎ ( )	<i>Final Form</i>	ZWJ+189A	᠎ ( )	<i>Final Form</i>
1891	(x_)	᠎	MONGOLIAN LETTER ALI GALI DA	189B	(x)	᠎
1891+ZWJ		᠎ (x_)	<i>Initial Form</i>	189B+ZWJ	᠎ (x_)	<i>Initial Form</i>
ZWJ+1891+ZWJ		᠎ (x_x) <sup>5</sup>	<i>Medial Form</i>	ZWJ+189B+ZWJ	᠎ (x_)	<i>Medial Form</i>
ZWJ+1891		᠎ ( )	<i>Final Form</i>	ZWJ+189B	᠎ ( )	<i>Final Form</i>
1892	(x_x)	᠎	MONGOLIAN LETTER ALI GALI PA <sup>5</sup>	189C	(x)	᠎
1892+ZWJ		᠎ (x_x)	<i>Initial Form</i>	189C+ZWJ	᠎ (x_)	<i>Initial Form</i>
				ZWJ+189C+ZWJ	᠎ (x_)	<i>Medial Form</i>

ZWJ+189C	ᠰ ( )	<i>Final Form</i>
189D ( )	ᠰᠤ ( )	MONGOLIAN LETTER MANCHU ALI GALI JHA
189D+ZWJ	ᠰᠤ ( )	<i>Initial Form</i>
ZWJ+189D+ZWJ	ᠰᠤ ( )	<i>Medial Form</i>
ZWJ+189D	ᠰᠤ ( )	<i>Final Form</i>
189E ( )	ᠰᠤ ( )	MONGOLIAN LETTER MANCHU ALI GALI TTA
189E+ZWJ	ᠰᠤ ( )	<i>Initial Form</i>
ZWJ+189E+ZWJ	ᠰᠤ ( )	<i>Medial Form</i>
ZWJ+189E	ᠰᠤ ( )	<i>Final Form</i>
189F ( )	ᠰᠤ ( )	MONGOLIAN LETTER MANCHU ALI GALI DDHA
189F+ZWJ	ᠰᠤ ( )	<i>Initial Form</i>
ZWJ+189F+ZWJ	ᠰᠤ ( )	<i>Medial Form</i>
ZWJ+189F	ᠰᠤ ( )	<i>Final Form</i>
18A0 ( )	ᠰᠤ ( )	MONGOLIAN LETTER MANCHU ALI GALI TA
18A0+ZWJ	ᠰᠤ ( )	<i>First Initial Form</i>
18A0+FVS1+ZWJ	ᠰᠤ ( )	<i>Second Initial Form</i> <small>(context-driven) (not in current USVL)</small>
ZWJ+18A0+ZWJ	ᠰᠤ ( )	<i>First Medial Form</i>
ZWJ+18A0+FVS1+ZWJ	ᠰᠤ ( )	<i>Second Medial Form</i> <small>(context-driven) (not in current USVL)</small>
ZWJ+18A0	ᠰᠤ ( )	<i>Final Form</i>
18A1 ( )	ᠰᠤ ( )	MONGOLIAN LETTER MANCHU ALI GALI DHA
18A1+ZWJ	ᠰᠤ ( )	<i>First Initial Form</i>
18A1+FVS1+ZWJ	ᠰᠤ ( )	<i>Second Initial Form</i> <sup>6</sup> <small>(context-driven) (not in current USVL)</small>
ZWJ+18A1+ZWJ	ᠰᠤ ( )	<i>First Medial Form</i>
ZWJ+18A1+FVS1+ZWJ	ᠰᠤ ( )	<i>Second Medial Form</i> <sup>7</sup> <small>(context-driven) (not in current USVL)</small>
ZWJ+18A1	ᠰᠤ ( )	<i>Final Form</i>
18A2 ( )	ᠰᠤ ( )	MONGOLIAN LETTER MANCHU ALI GALI SSA
18A2+ZWJ	ᠰᠤ ( )	<i>Initial Form</i>

ZWJ+18A2+ZWJ	ᠰᠤ ( )	<i>Medial Form</i>
ZWJ+18A2	ᠰᠤ ( )	<i>Final Form</i>
18A3 ( )	ᠰᠤ ( )	MONGOLIAN LETTER MANCHU ALI GALI CYA
18A3+ZWJ	ᠰᠤ ( )	<i>Initial Form</i>
ZWJ+18A3+ZWJ	ᠰᠤ ( )	<i>Medial Form</i>
ZWJ+18A3	ᠰᠤ ( )	<i>Final Form</i>
18A4 ( )	ᠰᠤ ( )	MONGOLIAN LETTER MANCHU ALI GALI ZHA
18A4+ZWJ	ᠰᠤ ( )	<i>Initial Form</i>
ZWJ+18A4+ZWJ	ᠰᠤ ( )	<i>Medial Form</i>
ZWJ+18A4	ᠰᠤ ( )	<i>Final Form</i>
18A5 ( )	ᠰᠤ ( )	MONGOLIAN LETTER MANCHU ALI GALI ZA
18A5+ZWJ	ᠰᠤ ( )	<i>Initial Form</i>
ZWJ+18A5+ZWJ	ᠰᠤ ( )	<i>Medial Form</i>
ZWJ+18A5	ᠰᠤ ( )	<i>Final Form</i>
18A6 (xx )	ᠰᠤ (xx )	MONGOLIAN LETTER ALI GALI HALF U
18A6+ZWJ	ᠰᠤ (xx )	<i>Initial Form</i>
ZWJ+18A6+ZWJ	ᠰᠤ (xx )	<i>Medial Form</i>
ZWJ+18A6	ᠰᠤ ( )	<i>Final Form</i>
18A7 (xx )	ᠰᠤ (xx )	MONGOLIAN LETTER ALI GALI HALF YA
18A7+ZWJ	ᠰᠤ (xx )	<i>Initial Form</i>
ZWJ+18A7+ZWJ	ᠰᠤ (xx )	<i>Medial Form</i>
ZWJ+18A7	ᠰᠤ ( )	<i>Final Form</i>
18A8 ( )	ᠰᠤ ( )	MONGOLIAN LETTER MANCHU ALI GALI BHA <sup>8</sup>
18A8+ZWJ	ᠰᠤ ( )	<i>Initial Form</i>
ZWJ+18A8+ZWJ	ᠰᠤ ( )	<i>Medial Form</i>
ZWJ+18A8	ᠰᠤ ( )	<i>Final Form</i>
18AA ( )	ᠰᠤ ( )	MONGOLIAN LETTER MANCHU ALI GALI LHA
18AA+ZWJ	ᠰᠤ ( )	<i>Initial Form</i>
ZWJ+18AA+ZWJ	ᠰᠤ ( )	<i>Medial Form</i>
ZWJ+18AA	ᠰᠤ ( )	<i>Final Form</i>

<sup>1</sup> Weizhe Zheng: "U+1807 (Sibe syllable boundary marker) is also used in Manchu. For example, the name Ming'ilha (G. R. Li, *Manchu - A textbook for reading documents*, p. 51, l. 5, first word), is written with an additional tooth separating the two syllables."

<sup>2</sup> Weizhe Zheng: "Also used in Ali Gali (U+185B as well as U+1853, U+1858, U+185C)."

<sup>3</sup> Weizhe Zheng: "Attested to in TWYT and DZQZ."

<sup>4</sup> Weizhe Zheng: "The Mongolian Ali Gali letters U+188C through U+1893 and U+1895 also appear in medial position. See TWYT\_110, TWYT\_214."

<sup>5</sup> Weizhe Zheng: "Attested to in DZQZ."

<sup>6</sup> Weizhe Zheng: "Attested to in TWYT and DZQZ."

<sup>7</sup> Weizhe Zheng: "Attested to in DZQZ."

<sup>8</sup> U+18A8: "(Ali Gali Manchu BHA) also appears in medial position. See TWYT\_110."