

# MONGOLIAN BASE FORMS, POSITIONAL FORMS, & VARIANT FORMS

(With great appreciation to Dr. Quejingzhabu for his many years of research and counsel  
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L2/16-258

**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 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

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

## Marks

1885	(xx_x)	ᠪᠢ	MONGOLIAN LETTER ALI GALI BALUDA (this is not a letter – it is a diacritic mark)
1886	(xx_x)	ᠪᠢᠪᠢ	MONGOLIAN LETTER ALI GALI THREE BALUDA (this is not a letter – it is a diacritic mark)
18A9	(x_)	ᠪᠢᠨᠠᠭᠯᠠ	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 NNBS (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)	<b>T</b>	MONGOLIAN SIBE SYLLABLE BOUNDARY MARKER
1807+ZWJ	(_)	<b>T</b>	<i>Initial Form</i>
ZWJ+1807+ZWJ	(_xx)	<b>T</b>	<i>Medial Form</i>
ZWJ+1807	(_)	<b>T</b>	<i>Final Form</i>

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

180A	(xxxx)	<b>-</b>	MONGOLIAN NIRUGU
180A+ZWJ	(xxxx)	<b>-</b>	<i>Initial Form</i>
ZWJ+180A+ZWJ	(xxxx)	<b>-</b>	<i>Medial Form</i>
ZWJ+180A	(xxxx)	<b>-</b>	<i>First Final Form</i>
ZWJ+180A+FVS1	(xxxx)	<b>-</b>	<i>Second Final Form</i>

STATUS: Discussion needed

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

(actually two glyphs)

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

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

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

STATUS: Discussion needed

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

ZWJ+1822	(x_)	<b>ᠢ</b>	<i>First Final Form</i>
			<small>(also implemented with NNBS - actually processed as isolate in accusative suffix)</small>
ZWJ+1822+FVS1	(x_)	<b>ᠢ</b>	<i>Second Final Form</i>

STATUS: Included in Chinese Proposal – WG2#652

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

1824	(x_)	<b>ᠤ</b>	MONGOLIAN LETTER U
1824	(x_)	<b>ᠤ</b>	<i>First Isolate Form</i>
1824+FVS1	(x_)	<b>ᠤ</b>	<i>Second Isolate Form</i>
			<small>(NOTE: this is also the Unicode presentation form)</small>
1824+ZWJ	(x_)	<b>ᠤ</b>	<i>Initial Form</i> <sup>%</sup>
ZWJ+1824+ZWJ	(x_)	<b>ᠤ</b>	<i>First Medial Form</i>
			<small>(also implemented with NNBS - actually processed as initial in genitive suffix)</small>
ZWJ+1824+FVS1+ZWJ	(x_)	<b>ᠤ</b>	<i>Second Medial Form</i> <sup>Ⓢ</sup>
ZWJ+1824	(x_)	<b>ᠤ</b>	<i>First Final Form</i>
			<small>(also implemented with NNBS - actually processed as isolate in genitive suffix)</small>
ZWJ+1824+FVS1	(x_)	<b>ᠤ</b>	<i>Second Final Form</i> <sup>Ⓢ</sup>
			<small>STATUS: Included in Chinese Proposal – WG2#652</small>
ZWJ+1824+FVS2	(x_)	<b>ᠤ</b>	<i>Third Final Form</i>
			<small>STATUS: Included in Chinese Proposal – WG2#652</small>
			<small>(dotted - only implemented with NNBS - actually processed as isolate in genitive suffix)</small>

1825	(x_)	<b>ᠥ</b>	MONGOLIAN LETTER OE
1825+ZWJ	(x_)	<b>ᠥ</b>	<i>Initial Form</i>
ZWJ+1825+ZWJ	(x_)	<b>ᠥ</b>	<i>First Medial Form</i>
ZWJ+1825+FVS1+ZWJ	(x_)	<b>ᠥ</b>	<i>Second Medial Form</i>
			<small>(context-driven)</small>
ZWJ+1825+FVS2+ZWJ	(x_)	<b>ᠥ</b>	<i>Third Medial Form</i> <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>	ᠤᠪᠠ (x_) <i>Third Isolate Form</i>
	(NOTE: this is also the Unicode presentation form)
1826+ZWJ	ᠤᠪᠠᠶ (x_) <i>Initial Form<sup>ᠶ</sup></i>
ZWJ+1826+ZWJ	ᠤᠪᠠᠶ (x_) <i>First Medial Form</i>
	(also implemented with NNBSF - actually processed as initial in genitive suffix)
ZWJ+1826+FVS1+ZWJ	ᠤᠪᠠᠶᠠ (x_) <i>Second Medial Form</i>
	(context-driven)
ZWJ+1826+FVS2+ZWJ	ᠤᠪᠠᠶᠠᠶ (x_) <i>Third Medial Form<sup>ᠶ</sup></i>
<b>ZWJ+1826+FVS3+ZWJ</b>	ᠤᠪᠠᠶᠠᠶᠠ (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>ᠶ</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	ᠡᠶ (x_) <i>Initial Form</i>
ZWJ+1827+ZWJ	ᠡᠶ (x_) <i>Medial Form</i>
ZWJ+1827	ᠡᠶ (x_) <i>Final Form</i>

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

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

182A (x_xx) <b>ᠪ</b>	MONGOLIAN LETTER BA <sup>S</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>ᠶ</sup></i>
182B (x_) <b>ᠮ</b>	MONGOLIAN LETTER PA <sup>S</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	ᠬᠠ (x_) <i>Third Isolate Form<sup>*</sup></i>
182C+ZWJ	ᠬᠠᠶ (x_) <i>First Initial Form</i>
182C+FVS1+ZWJ	ᠬᠠᠶᠠ (x_) <i>Second Initial Form<sup>ᠶ</sup></i>
<b>182C+FVS2+ZWJ</b>	ᠬᠠᠶᠠᠶ (x_) <i>Third Initial Form</i>
	(STATUS: Called for by Ulaanbaatar, Mongolia as needed in QOIR)
ZWJ+182C+ZWJ	ᠬᠠᠶ (x_) <i>First Medial Form</i>
ZWJ+182C+FVS1+ZWJ	ᠬᠠᠶᠠ (x_) <i>Second Medial Form<sup>ᠶ</sup></i>
<b>ZWJ+182C+FVS2+ZWJ</b>	ᠬᠠᠶᠠᠶ (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>	ᠬᠠᠶᠠᠶᠠ (x_) <i>Fourth Medial Form<sup>ᠶ</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>ᠬ</b>	MONGOLIAN LETTER GA
<b>182D+FVS1</b>	ᠬᠠᠶᠠ (x_) <i>Second Isolate Form<sup>*</sup></i>
	(Chinese Standard uses ZWJ instead of FVS)
182D+FVS2	ᠬᠠᠶᠠᠶ (x_) <i>Third Isolate Form<sup>*</sup></i>
182D+ZWJ	ᠬᠠᠶᠠᠶ (x_) <i>First Initial Form</i>
182D+FVS1+ZWJ	ᠬᠠᠶᠠᠶᠠ (x_) <i>Second Initial Form<sup>ᠶ</sup></i>
<b>182D+FVS2+ZWJ</b>	ᠬᠠᠶᠠᠶᠠᠶ (x_) <i>Third Initial Form</i>
	(STATUS: included in Chinese Proposal - WG2#652)
	(context-driven)
ZWJ+182D+ZWJ	ᠬᠠᠶᠠᠶ (x_) <i>First Medial Form</i>
ZWJ+182D+FVS1+ZWJ	ᠬᠠᠶᠠᠶᠠ (x_) <i>Second Medial Form</i>
	(context-driven)
ZWJ+182D+FVS2+ZWJ	ᠬᠠᠶᠠᠶᠠᠶ (x_) <i>Third Medial Form</i>
	(only implemented with MVS)
	(actually - processed as final when pre-MVS)
ZWJ+182D+FVS3+ZWJ	ᠬᠠᠶᠠᠶᠠᠶᠠ (x_) <i>Fourth Medial Form</i>
	(context-driven)
<b>ZWJ+182D+VS01+ZWJ</b>	ᠬᠠᠶᠠᠶᠠᠶᠠᠶ (x_) <i>Fifth Medial Form</i>
	(STATUS: Discussion needed)
	(needed to over-ride default context) (COG+FVS4+A+FVS1+GULA)





ZWJ+182D	ᠪ (x_) <i>First Final Form</i>
	(NOTE: error in Chinese Standard - missing)
ZWJ+182D+FVS1	ᠪ (x_) <i>Second Final Form</i>
	(needed to over-ride default context) (SIG+FVS1)
ZWJ+182D+FVS2	ᠪ (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	ᠢ (xxxx)	<i>Initial Form</i>			(implemented with MVS & NNBSB only - actually - processed as final when pre-MVS/NNBSB)
ZWJ+182F+ZWJ	ᠢ (xxxx)	<i>Medial Form</i>	ZWJ+1836	ᠨ ( )	<i>Final Form</i>
ZWJ+182F	ᠶ (xxxx)	<i>Final Form</i>			
		(also implemented with MVS)			
1830 (xxxx)	ᠰ	MONGOLIAN LETTER SA	1837 (xxx_)	ᠷ	MONGOLIAN LETTER RA
1830+ZWJ	ᠰ (xxxx)	<i>Initial Form</i>	1837+ZWJ	ᠷ (xxx_)	<i>Initial Form</i>
ZWJ+1830+ZWJ	ᠰ (xxxx)	<i>Medial Form</i>	ZWJ+1837+ZWJ	ᠷ (xxx_)	<i>Medial Form</i>
ZWJ+1830	ᠰ (xxxx)	<i>First Final Form</i>	ZWJ+1837	ᠷ (xxx_)	<i>Final Form</i>
ZWJ+1830+FVS1	ᠰ (x_)	<i>Second Final Form</i> <sup>᠑</sup>			(also implemented with MVS)
ZWJ+1830+FVS2	ᠰ (x_)	<i>Third Final Form</i> <sup>᠑</sup>			
1831 (xx_)	ᠱ	MONGOLIAN LETTER SHA	1838 (xxxx)	ᠸ	MONGOLIAN LETTER WA
1831+ZWJ	ᠱ (xx_)	<i>Initial Form</i>	1838+ZWJ	ᠸ (xxxx)	<i>Initial Form</i>
ZWJ+1831+ZWJ	ᠱ (xx_)	<i>Medial Form</i>	ZWJ+1838+ZWJ	ᠸ (xxxx)	<i>First Medial Form</i>
ZWJ+1831	ᠱ (xx_)	<i>Final Form</i>	ZWJ+1838+FVS1+ZWJ	ᠸ (x_)	<i>Second Medial Form</i>
					(context-driven)
			ZWJ+1838	ᠸ (x_)	<i>First Final Form</i>
			ZWJ+1838+FVS1	ᠸ (x_)	<i>Second Final Form</i> <sup>᠑</sup>
					(only implemented with MVS)
1832 (x_)	ᠲ	MONGOLIAN LETTER TA	1839 (x_)	ᠹ	MONGOLIAN LETTER FA <sup>S</sup>
1832+ZWJ	ᠲ (x_)	<i>Initial Form</i>	1839+ZWJ	ᠹ (x_)	<i>Initial Form</i>
ZWJ+1832+ZWJ	ᠲ (x_)	<i>First Medial Form</i>	ZWJ+1839+ZWJ	ᠹ (x_)	<i>Medial Form</i>
ZWJ+1832+FVS1+ZWJ	ᠲ (x_)	<i>Second Medial Form</i> <sup>᠑</sup>	ZWJ+1839	ᠹ (x_)	<i>Final Form</i>
ZWJ+1832	ᠲ (x_)	<i>Final Form</i>			
1833 (x_)	ᠳ	MONGOLIAN LETTER DA	183A (xxxx)	ᠰ	MONGOLIAN LETTER KA <sup>S</sup>
1833+ZWJ	ᠳ (x_)	<i>First Initial Form</i>	183A+ZWJ	ᠰ (xxxx)	<i>Initial Form</i>
1833+FVS1+ZWJ	ᠳ (x_)	<i>Second Initial Form</i>	ZWJ+183A+ZWJ	ᠰ (xxxx)	<i>Medial Form</i>
		(also implemented with NNBSB)	ZWJ+183A	ᠰ (x_)	<i>Final Form</i>
ZWJ+1833+ZWJ	ᠳ (x_)	<i>First Medial Form</i>			
ZWJ+1833+FVS1+ZWJ	ᠳ (x_)	<i>Second Medial Form</i>	183B (xx_)	ᠰ	MONGOLIAN LETTER KHA <sup>S</sup>
		(context-driven)	183B+ZWJ	ᠰ (xx_)	<i>Initial Form</i>
ZWJ+1833	ᠳ (x_)	<i>First Final Form</i>	ZWJ+183B+ZWJ	ᠰ (xx_)	<i>Medial Form</i>
ZWJ+1833+FVS1	ᠳ (x_)	<i>Second Final Form</i> <sup>᠑</sup>	ZWJ+183B	ᠰ (xx_)	<i>Final Form</i>
1834 (xxxx)	ᠴ	MONGOLIAN LETTER CHA	183C (x_)	ᠳ	MONGOLIAN LETTER TSA
1834+ZWJ	ᠴ (xxxx)	<i>Initial Form</i>	183C+ZWJ	ᠳ (x_)	<i>Initial Form</i>
ZWJ+1834+ZWJ	ᠴ (xxxx)	<i>Medial Form</i>	ZWJ+183C+ZWJ	ᠳ (x_)	<i>Medial Form</i>
ZWJ+1834	ᠴ (x_)	<i>Final Form</i>	ZWJ+183C	ᠳ (x_)	<i>Final Form</i>
1835 (x_x)	ᠵ	MONGOLIAN LETTER JA	183D (x_)	ᠳ	MONGOLIAN LETTER ZA
1835+ZWJ	ᠵ (x_x)	<i>Initial Form</i>	183D+ZWJ	ᠳ (x_)	<i>Initial Form</i>
ZWJ+1835+ZWJ	ᠵ (x_x)	<i>First Medial Form</i>	ZWJ+183D+ZWJ	ᠳ (x_)	<i>Medial Form</i>
ZWJ+1835+FVS1+ZWJ	ᠵ (x_)	<i>Second Medial Form</i>	ZWJ+183D	ᠳ (x_)	<i>Final Form</i>
		(implemented with MVS & NNBSB only - actually - processed as final when pre-MVS/NNBSB)			
ZWJ+1835	ᠵ (x_)	<i>First Final Form</i>	183E (x_)	ᠳ	MONGOLIAN LETTER HAA
			183E+ZWJ	ᠳ (x_)	<i>Initial Form</i>
			ZWJ+183E+ZWJ	ᠳ (x_)	<i>Medial Form</i>
			ZWJ+183E	ᠳ (x_)	<i>Final Form</i>
1836 (x_xx)	ᠶ	MONGOLIAN LETTER YA	183F (x_)	ᠳ	MONGOLIAN LETTER ZRA
1836+ZWJ	ᠶ (x_xx)	<i>First Initial Form</i>	183F+ZWJ	ᠳ (x_)	<i>Initial Form</i>
1836+FVS1+ZWJ	ᠶ (x_)	<i>Second Initial Form</i>	ZWJ+183F+ZWJ	ᠳ (x_)	<i>Medial Form</i>
		(context-driven)	ZWJ+183F	ᠳ (x_)	<i>Final Form</i>
ZWJ+1836+ZWJ	ᠶ (x_xx)	<i>First Medial Form</i>			
ZWJ+1836+FVS1+ZWJ	ᠶ (x_)	<i>Second Medial Form</i>			
		(context-driven AND also needed to over-ride default context)			
ZWJ+1836+FVS2+ZWJ	ᠶ (x_)	<i>Third Medial 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>s</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_) ᠮᠤᠵᠠ	MONGOLIAN LETTER TODO JIA
185A+ZWJ	ᠮᠤᠵᠠ (x_) <i>Initial Form</i>
ZWJ+185A+ZWJ	ᠮᠤᠵᠠ (x_) <i>Medial Form</i>
ZWJ+185A	ᠮᠤᠵᠠᠨ (x_) <i>Final Form</i>
185B (xx_) ᠮᠤᠵᠢ	MONGOLIAN LETTER TODO NIA
185B+ZWJ	ᠮᠤᠵᠢ (xx_) <i>Initial Form</i> <sup>2</sup>
ZWJ+185B+ZWJ	ᠮᠤᠵᠢ (xx_) <i>Medial Form</i>
ZWJ+185B	ᠮᠤᠵᠢᠨ (x_) <i>Final Form</i>
185C (xx_) ᠮᠤᠵᠢᠷ	MONGOLIAN LETTER TODO DZA
185C+ZWJ	ᠮᠤᠵᠢᠷ (xx_) <i>Initial Form</i>
ZWJ+185C+ZWJ	ᠮᠤᠵᠢᠷ (xx_) <i>Medial Form</i>
ZWJ+185C	ᠮᠤᠵᠢᠷᠨ (x_) <i>Final Form</i>
<b>Sibe Letters</b>	
185D (xx_) ᠮᠤᠵᠢᠶ	MONGOLIAN LETTER SIBE E
185D	ᠮᠤᠵᠢᠶ (xx_) <i>Isolate Form</i>
185D+ZWJ	ᠮᠤᠵᠢᠶ (xx_) <i>Initial Form</i>
ZWJ+185D+ZWJ	ᠮᠤᠵᠢᠶ (xx_) <i>First Medial Form</i>
ZWJ+185D+FVS1+ZWJ	ᠮᠤᠵᠢᠶ (xx_) <i>Second Medial Form</i> <small>(context-driven)</small>
ZWJ+185D	ᠮᠤᠵᠢᠶᠨ (xx_) <i>First Final Form</i> <sup>6</sup>
ZWJ+185D+FVS1	ᠮᠤᠵᠢᠶᠨ (xx_) <i>Second Final Form</i> <small>(context-driven)</small>
185E (x_) ᠮᠤᠵᠢᠶᠢ	MONGOLIAN LETTER SIBE I
185E	ᠮᠤᠵᠢᠶᠢ (x_) <i>Isolate Form</i>
185E+ZWJ	ᠮᠤᠵᠢᠶᠢ (x_) <i>Initial Form</i>
ZWJ+185E+ZWJ	ᠮᠤᠵᠢᠶᠢ (x_) <i>First Medial Form</i>
ZWJ+185E+FVS1+ZWJ	ᠮᠤᠵᠢᠶᠢ (x_) <i>Second Medial Form</i> <sup>6</sup> <small>(context-driven)</small>
ZWJ+185E+FVS2+ZWJ	ᠮᠤᠵᠢᠶᠢ (x_) <i>Third Medial Form</i> <small>(context-driven)</small>
ZWJ+185E	ᠮᠤᠵᠢᠶᠢᠨ (x_) <i>First Final Form</i> <small>(also implemented with NNBSF - actually processed as isolate in accusative suffix)</small>
ZWJ+185E+FVS1	ᠮᠤᠵᠢᠶᠢᠨ (x_) <i>Second Final Form</i> <small>(context-driven)</small>
ZWJ+185E+FVS2	ᠮᠤᠵᠢᠶᠢᠨ (x_) <i>Third Final Form</i>
185F (xx_) ᠮᠤᠵᠢᠶᠢᠷ	MONGOLIAN LETTER SIBE IY
185F+ZWJ	ᠮᠤᠵᠢᠶᠢᠷ (xx_) <i>Initial Form</i>
ZWJ+185F+ZWJ	ᠮᠤᠵᠢᠶᠢᠷ (xx_) <i>Medial Form</i>
ZWJ+185F	ᠮᠤᠵᠢᠶᠢᠷᠨ (xx_) <i>Final Form</i>
1860 (xx_) ᠮᠤᠵᠢᠶᠢᠸ	MONGOLIAN LETTER SIBE UE
1860+ZWJ	ᠮᠤᠵᠢᠶᠢᠸ (xx_) <i>Initial Form</i>
ZWJ+1860+ZWJ	ᠮᠤᠵᠢᠶᠢᠸ (xx_) <i>First Medial Form</i>
ZWJ+1860+FVS1+ZWJ	ᠮᠤᠵᠢᠶᠢᠸ (xx_) <i>Second Medial Form</i> <small>(context-driven)</small>

ZWJ+1860 6 (xx) *First Final Form*  
 ZWJ+1860+FVS1 6 (xx) *Second Final Form*  
 (context-driven)  
 ZWJ+1860+FVS2 6 (xx) *Third Final Form*  
 STATUS: Included in Chinese Proposal – WG2#65  
 (context-driven)

1861 (xx) ᠤ MONGOLIAN LETTER SIBE U  
 1861 ᠤ (x) *Isolate Form*  
 1861+ZWJ ᠤ (x) *Initial Form*  
 ZWJ+1861+ZWJ ᠤ (xx) *Medial Form\**  
 ZWJ+1861 ᠤ (xx) *Final Form*

1862 (x) ᠮ MONGOLIAN LETTER SIBE ANG  
 1862 ᠮ (x) *Isolate Form*  
 1862+ZWJ ᠮ ( ) *Initial Form*  
 ZWJ+1862+ZWJ ᠮ (x) *Medial Form*  
 ZWJ+1862 ᠮ (x) *Final Form\**

1863 (x) ᠬ MONGOLIAN LETTER SIBE KA  
 1863 ᠬ (x) *First Isolate Form*  
 1863+FVS1 ᠬ (x) *Second Isolate Form\**  
 1863+ZWJ ᠬ (x) *Initial Form*  
 ZWJ+1863+ZWJ ᠬ (x) *First Medial Form*  
 ZWJ+1863+FVS1+ZWJ ᠬ (x) *Second Medial Form*  
 (context-driven)  
 ZWJ+1863 ᠬ (x) *Final Form\**

1864 (xx) ᠭ MONGOLIAN LETTER SIBE GA  
 1864+FVS1 ᠭ (xx) *Second Isolate Form\**  
 1864+ZWJ ᠭ (xx) *Initial Form*  
 ZWJ+1864+ZWJ ᠭ (xx) *Medial Form*  
 ZWJ+1864 ᠭ ( ) *Final Form*

1865 (xx) ᠬᠡ MONGOLIAN LETTER SIBE HA  
 1865+FVS1 ᠬᠡ (xx) *Second Isolate Form\**  
 1865+ZWJ ᠬᠡ (xx) *Initial Form*  
 ZWJ+1865+ZWJ ᠬᠡ (xx) *Medial Form*  
 ZWJ+1865 ᠬᠡ ( ) *Final Form*

1866 (xx) ᠮᠠ MONGOLIAN LETTER SIBE PA<sup>s</sup>  
 1866+ZWJ ᠮᠠ (xx) *Initial Form*  
 ZWJ+1866+ZWJ ᠮᠠ (xx) *Medial Form*  
 ZWJ+1866 ᠮᠠ ( ) *Final Form*

1867 (xx) ᠰ MONGOLIAN LETTER SIBE SHA  
 1867+ZWJ ᠰ (xx) *Initial Form*  
 ZWJ+1867+ZWJ ᠰ (xx) *Medial Form*  
 ZWJ+1867 ᠰ (x) *Final Form*

1868 (xx) ᠲ MONGOLIAN LETTER SIBE TA  
 1868+ZWJ ᠲ (xx) *First Initial Form*

1868+FVS1+ZWJ ᠳ (xx) *Second Initial Form*  
 (context-driven)  
 ZWJ+1868+ZWJ ᠳ (xx) *First Medial Form*  
 ZWJ+1868+FVS1+ZWJ ᠳ (xx) *Second Medial Form*  
 (context-driven)  
 ZWJ+1868+FVS2+ZWJ ᠳ (xx) *Third Medial Form*  
 (no context currently – more research needed here)  
 ZWJ+1868 ᠳ (xx) *Final Form*

1869 (xx) ᠳᠠ MONGOLIAN LETTER SIBE DA  
 1869+ZWJ ᠳᠠ (xx) *First Initial Form*  
 1869+FVS1+ZWJ ᠳᠠ (xx) *Second Initial Form*  
 (context-driven and also NNBS)  
 ZWJ+1869+ZWJ ᠳᠠ (xx) *First Medial Form*  
 ZWJ+1869+FVS1+ZWJ ᠳᠠ (xx) *Second Medial Form*  
 (context-driven)  
 ZWJ+1869 ᠳᠠ ( ) *Final Form*

186A (x) ᠰᠠ MONGOLIAN LETTER SIBE JA  
 186A+ZWJ ᠰᠠ (x) *Initial Form*  
 ZWJ+186A+ZWJ ᠰᠠ (x) *Medial Form*  
 ZWJ+186A ᠰᠠ ( ) *Final Form*

186B (x) ᠰᠡ MONGOLIAN LETTER SIBE FA  
 186B+ZWJ ᠰᠡ (x) *Initial Form*  
 ZWJ+186B+ZWJ ᠰᠡ (x) *Medial Form*  
 ZWJ+186B ᠰᠡ ( ) *Final Form*

186C (xx) ᠰᠢ MONGOLIAN LETTER SIBE GAA<sup>s</sup>  
 186C+ZWJ ᠰᠢ (xx) *Initial Form*  
 ZWJ+186C+ZWJ ᠰᠢ (xx) *Medial Form*  
 ZWJ+186C ᠰᠢ ( ) *Final Form*

186D (xx) ᠰᠣ MONGOLIAN LETTER SIBE HAA<sup>s</sup>  
 186D+ZWJ ᠰᠣ (xx) *Initial Form*  
 ZWJ+186D+ZWJ ᠰᠣ (xx) *Medial Form*  
 ZWJ+186D ᠰᠣ ( ) *Final Form*

186E (xx) ᠰᠤ MONGOLIAN LETTER SIBE TSA  
 186E+ZWJ ᠰᠤ (xx) *Initial Form*  
 ZWJ+186E+ZWJ ᠰᠤ (xx) *Medial Form*  
 ZWJ+186E ᠰᠤ (xx) *Final Form*

186F (xx) ᠰᠥ MONGOLIAN LETTER SIBE ZA  
 186F+ZWJ ᠰᠥ (xx) *First Initial Form*  
 186F+FVS1+ZWJ ᠰᠥ (xx) *Second Initial Form*  
 (context-driven)  
 ZWJ+186F+ZWJ ᠰᠥ (xx) *First Medial Form*  
 ZWJ+186F+FVS1+ZWJ ᠰᠥ (xx) *Second Medial Form*  
 (context-driven)  
 ZWJ+186F ᠰᠥ (xx) *Final Form*

1870 (xx) ᠰᠦ MONGOLIAN LETTER SIBE RAA  
 1870+ZWJ ᠰᠦ (xx) *Initial Form*

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

### Manchu Letters

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

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

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

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

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

### Ali Gali Letters

1880 (xx_x)	ᠮᠠᠨᠵᠠ	MONGOLIAN LETTER ALI GALI ANUSVARA
1880+FVS1	ᠮᠠᠨᠵᠠ (xx_x)	Second Form
1881 (xx_x)	ᠮᠠᠨᠵᠠᠷᠠ	MONGOLIAN LETTER ALI GALI VISARGA
1881+FVS1	ᠮᠠᠨᠵᠠᠷᠠ (xx_x)	Second Form
1882 (xx_x)	ᠮᠠᠨᠵᠠᠳᠠᠷᠠᠮᠠᠷᠤ	MONGOLIAN LETTER ALI GALI DAMARU
1883 (xx_x)	ᠮᠠᠨᠵᠠᠸᠠᠳᠠᠮᠠᠮᠠ	MONGOLIAN LETTER ALI GALI UBADAMA
1884 (xx_x)	ᠮᠠᠨᠵᠠᠸᠠᠳᠠᠮᠠᠮᠠᠸᠠᠳᠠᠮᠠ	MONGOLIAN LETTER ALI GALI INVERTED UBADAMA

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

1888 (x_x)	ᠮᠠᠨᠵᠠᠶᠠᠶᠠ	MONGOLIAN LETTER ALI GALI I
1888+ZWJ	ᠮᠠᠨᠵᠠᠶᠠᠶᠠ ( )	Initial Form
ZWJ+1888+ZWJ	ᠮᠠᠨᠵᠠᠶᠠᠶᠠ (x_x)	First Medial Form
ZWJ+1888+ZWJ+FVS1	ᠮᠠᠨᠵᠠᠶᠠᠶᠠ (x_x)	Second Medial Form <small>(context-driven)</small>
ZWJ+1888	ᠮᠠᠨᠵᠠᠶᠠᠶᠠ (x_x)	First Final Form
ZWJ+1888+FVS1	ᠮᠠᠨᠵᠠᠶᠠᠶᠠ (x_x)	Second Final Form <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 ( )	ᠰᠦ ( )	MONGOLIAN LETTER MANCHU ALI GALI JHA
189D+ZWJ	ᠰᠦ ( )	<i>Initial Form</i>
ZWJ+189D+ZWJ	ᠰᠦ ( )	<i>Medial Form</i>
ZWJ+189D	ᠰᠦ ( )	<i>Final Form</i>
189E ( )	ᠰᠦᠳ ( )	MONGOLIAN LETTER MANCHU ALI GALI TTA
189E+ZWJ	ᠰᠦᠳ ( )	<i>Initial Form</i>
ZWJ+189E+ZWJ	ᠰᠦᠳ ( )	<i>Medial Form</i>
ZWJ+189E	ᠰᠦᠳ ( )	<i>Final Form</i>
189F ( )	ᠰᠦᠳᠠ ( )	MONGOLIAN LETTER MANCHU ALI GALI DDHA
189F+ZWJ	ᠰᠦᠳᠠ ( )	<i>Initial Form</i>
ZWJ+189F+ZWJ	ᠰᠦᠳᠠ ( )	<i>Medial Form</i>
ZWJ+189F	ᠰᠦᠳᠠ ( )	<i>Final Form</i>
18A0 ( )	ᠰᠦᠳᠠᠳ ( )	MONGOLIAN LETTER MANCHU ALI GALI TA
18A0+ZWJ	ᠰᠦᠳᠠᠳ ( )	<i>First Initial Form</i>
18A0+FVS1+ZWJ	ᠰᠦᠳᠠᠳ ( )	<i>Second Initial Form</i> <small>(context-driven) (not in current USVL)</small>
ZWJ+18A0+ZWJ	ᠰᠦᠳᠠᠳ ( )	<i>First Medial Form</i>
ZWJ+18A0+FVS1+ZWJ	ᠰᠦᠳᠠᠳ ( )	<i>Second Medial Form</i> <small>(context-driven) (not in current USVL)</small>
ZWJ+18A0	ᠰᠦᠳᠠᠳ ( )	<i>Final Form</i>
18A1 ( )	ᠰᠦᠳᠠᠳᠠ ( )	MONGOLIAN LETTER MANCHU ALI GALI DHA
18A1+ZWJ	ᠰᠦᠳᠠᠳᠠ ( )	<i>First Initial Form</i>
18A1+FVS1+ZWJ	ᠰᠦᠳᠠᠳᠠ ( )	<i>Second Initial Form</i> <sup>6</sup> <small>(context-driven) (not in current USVL)</small>
ZWJ+18A1+ZWJ	ᠰᠦᠳᠠᠳᠠ ( )	<i>First Medial Form</i>
ZWJ+18A1+FVS1+ZWJ	ᠰᠦᠳᠠᠳᠠ ( )	<i>Second Medial Form</i> <sup>7</sup> <small>(context-driven) (not in current USVL)</small>
ZWJ+18A1	ᠰᠦᠳᠠᠳᠠ ( )	<i>Final Form</i>
18A2 ( )	ᠰᠦᠳᠠᠳᠠᠰ ( )	MONGOLIAN LETTER MANCHU ALI GALI SSA
18A2+ZWJ	ᠰᠦᠳᠠᠳᠠᠰ ( )	<i>Initial Form</i>

ZWJ+18A2+ZWJ	ᠰᠦᠳᠠᠳᠠᠰ ( )	<i>Medial Form</i>
ZWJ+18A2	ᠰᠦᠳᠠᠳᠠᠰ ( )	<i>Final Form</i>
18A3 ( )	ᠰᠦᠳᠠᠳᠠᠰᠠ ( )	MONGOLIAN LETTER MANCHU ALI GALI CYA
18A3+ZWJ	ᠰᠦᠳᠠᠳᠠᠰᠠ ( )	<i>Initial Form</i>
ZWJ+18A3+ZWJ	ᠰᠦᠳᠠᠳᠠᠰᠠ ( )	<i>Medial Form</i>
ZWJ+18A3	ᠰᠦᠳᠠᠳᠠᠰᠠ ( )	<i>Final Form</i>
18A4 ( )	ᠰᠦᠳᠠᠳᠠᠰᠠᠳ ( )	MONGOLIAN LETTER MANCHU ALI GALI ZHA
18A4+ZWJ	ᠰᠦᠳᠠᠳᠠᠰᠠᠳ ( )	<i>Initial Form</i>
ZWJ+18A4+ZWJ	ᠰᠦᠳᠠᠳᠠᠰᠠᠳ ( )	<i>Medial Form</i>
ZWJ+18A4	ᠰᠦᠳᠠᠳᠠᠰᠠᠳ ( )	<i>Final Form</i>
18A5 ( )	ᠰᠦᠳᠠᠳᠠᠰᠠᠳᠠ ( )	MONGOLIAN LETTER MANCHU ALI GALI ZA
18A5+ZWJ	ᠰᠦᠳᠠᠳᠠᠰᠠᠳᠠ ( )	<i>Initial Form</i>
ZWJ+18A5+ZWJ	ᠰᠦᠳᠠᠳᠠᠰᠠᠳᠠ ( )	<i>Medial Form</i>
ZWJ+18A5	ᠰᠦᠳᠠᠳᠠᠰᠠᠳᠠ ( )	<i>Final Form</i>
18A6 (xx_)	ᠰᠦᠳᠠᠳᠠᠰᠠᠳᠠᠰ ( )	MONGOLIAN LETTER ALI GALI HALF U
18A6+ZWJ	ᠰᠦᠳᠠᠳᠠᠰᠠᠳᠠᠰ (xx_)	<i>Initial Form</i>
ZWJ+18A6+ZWJ	ᠰᠦᠳᠠᠳᠠᠰᠠᠳᠠᠰ (xx_)	<i>Medial Form</i>
ZWJ+18A6	ᠰᠦᠳᠠᠳᠠᠰᠠᠳᠠᠰ ( )	<i>Final Form</i>
18A7 (xx_)	ᠰᠦᠳᠠᠳᠠᠰᠠᠳᠠᠰᠠ ( )	MONGOLIAN LETTER ALI GALI HALF YA
18A7+ZWJ	ᠰᠦᠳᠠᠳᠠᠰᠠᠳᠠᠰᠠ (xx_)	<i>Initial Form</i>
ZWJ+18A7+ZWJ	ᠰᠦᠳᠠᠳᠠᠰᠠᠳᠠᠰᠠ (xx_)	<i>Medial Form</i>
ZWJ+18A7	ᠰᠦᠳᠠᠳᠠᠰᠠᠳᠠᠰᠠ ( )	<i>Final Form</i>
18A8 ( )	ᠰᠦᠳᠠᠳᠠᠰᠠᠳᠠᠰᠠᠳ ( )	MONGOLIAN LETTER MANCHU ALI GALI BHA <sup>8</sup>
18A8+ZWJ	ᠰᠦᠳᠠᠳᠠᠰᠠᠳᠠᠰᠠᠳ ( )	<i>Initial Form</i>
ZWJ+18A8+ZWJ	ᠰᠦᠳᠠᠳᠠᠰᠠᠳᠠᠰᠠᠳ ( )	<i>Medial Form</i>
ZWJ+18A8	ᠰᠦᠳᠠᠳᠠᠰᠠᠳᠠᠰᠠᠳ ( )	<i>Final Form</i>
18AA ( )	ᠰᠦᠳᠠᠳᠠᠰᠠᠳᠠᠰᠠᠳᠠ ( )	MONGOLIAN LETTER MANCHU ALI GALI LHA
18AA+ZWJ	ᠰᠦᠳᠠᠳᠠᠰᠠᠳᠠᠰᠠᠳᠠ ( )	<i>Initial Form</i>
ZWJ+18AA+ZWJ	ᠰᠦᠳᠠᠳᠠᠰᠠᠳᠠᠰᠠᠳᠠ ( )	<i>Medial Form</i>
ZWJ+18AA	ᠰᠦᠳᠠᠳᠠᠰᠠᠳᠠᠰᠠᠳᠠ ( )	<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."