

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.

\$ – 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. Consider FVS specification for ease of usage in stand-alone environments. There are 13 cases.

(X₁X₂X₃X₄) – denotes script usage (X₁=Mongolian, X₂=Todo, X₃=Sibe, X₄=Manchu)

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

Blue highlighting notes a need for refinement or just additional information

Purple highlighting indicates the proposal for a new FVS assignment

NOTE: There is an appendix to this paper which discusses the MVS model (DS00-MVS) as well as the NNBSF model (DS00-NNBSF). 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	<reserved>		

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

Numbers

(rotated 90 degrees clockwise in vertical display)

1810	(xx_)	᠎	MONGOLIAN DIGIT ZERO
1811	(xx_)	᠎	MONGOLIAN DIGIT ONE
1812	(xx_)	᠎	MONGOLIAN DIGIT TWO
1813	(xx_)	᠎	MONGOLIAN DIGIT THREE
1814	(xx_)	᠎	MONGOLIAN DIGIT FOUR
1815	(xx_)	᠎	MONGOLIAN DIGIT FIVE
1816	(xx_)	᠎	MONGOLIAN DIGIT SIX
1817	(xx_)	᠎	MONGOLIAN DIGIT SEVEN

1818 (xx_) **᠘** MONGOLIAN DIGIT EIGHT
 1819 (xx_) **᠑** 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_) **ᠮ** MONGOLIAN SIBE SYLLABLE BOUNDARY MARKER
 1807+ZWJ (x_) **ᠮ** *Initial Form*
 ZWJ+1807+ZWJ (x_) **ᠮ** *Medial Form*
 ZWJ+1807 (x_) **ᠮ** *Final Form*

180A (xxxx) **ᠨ** MONGOLIAN NIRUGU
 180A+ZWJ (xxxx) **ᠨ** *Initial Form*
 ZWJ+180A+ZWJ (xxxx) **ᠨ** *Medial Form*
 ZWJ+180A (xxxx) **ᠨ** *Final Form*

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[Ⓢ]*
 ZWJ+1820+FVS2+ZWJ (xx_) **ᠠ** *Third Medial Form*
(only implemented with NNBSF - actually processed as initial in ACA suffix)
 ZWJ+1820 (xxxx) **ᠠ** *First Final Form*
 ZWJ+1820+FVS1 (xx_) **ᠠ** *Second Final Form*
(only implemented with MVS/NNBSF)

1821 (x_) **ᠡ** MONGOLIAN LETTER E
 1821+ZWJ (x_) **ᠡ** *First Initial Form*
 1821+FVS1+ZWJ (x_) **ᠡ** *Second Initial Form[Ⓢ]*
 ZWJ+1821+ZWJ (x_) **ᠡ** *Medial Form*
 ZWJ+1821 (x_) **ᠡ** *First Final Form*
 ZWJ+1821+FVS1 (x_) **ᠡ** *Second Final Form*
(only implemented with MVS/NNBSF)

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[Ⓢ]*
 ZWJ+1822+FVS2+ZWJ (x_) **ᠢ** *Third Medial Form*
(needed to over-ride default context) (NAI+FVS2+MA)
 ZWJ+1822+FVS3+ZWJ (x_) **ᠢ** *Fourth Medial Form*
(context-driven)

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*

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[Ⓢ]*
 ZWJ+1823 (x_xx) **ᠣ** *First Final Form*
 ZWJ+1823+FVS1 (x_xx) **ᠣ** *Second Final Form[Ⓢ]*

1824 (x_) **ᠤ** MONGOLIAN LETTER U
 1824 (x_) **ᠤ** *First Isolate Form*
 1824+FVS1 (x_) **ᠤ** *Second Isolate Form*
 1824+ZWJ (x_) **ᠤ** *Initial Form*
 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[Ⓢ]*
 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[Ⓢ]*
(expected to be in new 2016 Chinese Standard)
 ZWJ+1824+FVS3 (x_) **ᠤ** *Third Final Form*
(dotted - only implemented with NNBSF - actually processed as isolate in genitive suffix) (expected to be in new 2016 Chinese Standard)

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[Ⓢ]*
 ZWJ+1825 (x_) **ᠥ** *First Final Form*
 ZWJ+1825+FVS1 (x_) **ᠥ** *Second Final Form[Ⓢ]*

1826 (x_) **ᠦ** MONGOLIAN LETTER UE
 1826 (x_) **ᠦ** *First Isolate Form*
 1826+FVS1 (x_) **ᠦ** *Second Isolate Form*
 1826+FVS2 (x_) **ᠦ** *Third Isolate Form*
 1826+ZWJ (x_) **ᠦ** *Initial Form*
 ZWJ+1826+ZWJ (x_) **ᠦ** *First Medial Form*
(also implemented with NNBSF - actually processed as initial in genitive suffix)
 ZWJ+1826+FVS1+ZWJ (x_) **ᠦ** *Second Medial Form*
(context-driven)
 ZWJ+1826+FVS2+ZWJ (x_) **ᠦ** *Third Medial Form[Ⓢ]*
 ZWJ+1826+FVS3+ZWJ (x_) **ᠦ** *Fourth Medial Form*
(needed to handle DUEGER without NNBSF)
 ZWJ+1826 (x_) **ᠦ** *First Final Form*
(also implemented with NNBSF - actually processed as isolate in genitive suffix)
 ZWJ+1826+FVS1 (x_) **ᠦ** *Second Final Form[Ⓢ]*
 ZWJ+1826+FVS2 (x_) **ᠦ** *Third Final Form*
(dotted - only implemented with NNBSF - actually processed as isolate in genitive suffix) (expected to be in new 2016 Chinese Standard)

1827 (x_) **ᠡ** MONGOLIAN LETTER EE
 1827+ZWJ ᠡ (x_) *Initial Form*
 ZWJ+1827+ZWJ ᠢ (x_) *Medial Form*
 ZWJ+1827 ᠣ (x_) *Final Form*

1828 (xxxx) **ᠢ** MONGOLIAN LETTER NA
 1828+ZWJ ᠢ (xxxx) *First Initial Form*
(also context-driven in Todo)
 1828+FVS1+ZWJ ᠣ (x_) *Second Initial Form*[ⓔ]
 ZWJ+1828+ZWJ ᠣ (xxxx) *First Medial Form*
(context-driven)
(may be implemented as a toggle)
 ZWJ+1828+FVS1+ZWJ ᠣ (xxxx) *Second Medial Form*
(context-driven as a toggle, so in actuality could be dotted or undotted)
(AN+FVS1+AR must remove the dot)
 ZWJ+1828+FVS2+ZWJ ᠣ (x_) *Third Medial Form*
(only implemented with MVS - actually processed as final when pre-MVS)
 ZWJ+1828+FVS3+ZWJ ᠣ (x_) *Fourth Medial Form*
(context-driven, Todo only)
 ZWJ+1828 ᠣ (xxxx) *First Final Form*

1829 (x_x) **ᠣ** MONGOLIAN LETTER ANG
 1829+ZWJ ᠣ (x_) *Initial Form*
 ZWJ+1829+ZWJ ᠣ (x_x) *Medial Form*
 ZWJ+1829 ᠣ (x_x) *Final Form*

182A (x_xx) **ᠣ** MONGOLIAN LETTER BA^s
 182A+ZWJ ᠣ (x_xx) *Initial Form*
 ZWJ+182A+ZWJ ᠣ (x_xx) *Medial Form*
 ZWJ+182A ᠣ (x_xx) *First Final Form*
 ZWJ+182A+FVS1 ᠣ (x_) *Second Final Form*[ⓔ]

182B (x_) **ᠣ** MONGOLIAN LETTER PA^s
 182B+ZWJ ᠣ (x_) *Initial Form*
 ZWJ+182B+ZWJ ᠣ (x_) *Medial Form*
 ZWJ+182B ᠣ (x_) *Final Form*

182C (x_) **ᠣ** MONGOLIAN LETTER QA
 182C+FVS1 ᠣ (x_) *Second Isolate Form*^{*}
 182C+FVS2 ᠣ (x_) *Third Isolate Form*^{*}
 182C+ZWJ ᠣ (x_) *First Initial Form*
 182C+FVS1+ZWJ ᠣ (x_) *Second Initial Form*[ⓔ]
 ZWJ+182C+ZWJ ᠣ (x_) *First Medial Form*
 ZWJ+182C+FVS1+ZWJ ᠣ (x_) *Second Medial Form*[ⓔ]
 ZWJ+182C+FVS2+ZWJ ᠣ (x_) *Third Medial Form*
(actually processed as final when pre-MVS)
 ZWJ+182C+FVS3+ZWJ ᠣ (x_) *Fourth Medial Form*[ⓔ]
(actually processed as final when pre-MVS)

182D (x_) **ᠣ** MONGOLIAN LETTER GA
 182D+FVS1 ᠣ (x_) *Second Isolate Form*^{*}
 182D+FVS2 ᠣ (x_) *Third Isolate Form*^{*}
(Chinese Standard uses ZWJ instead of FVS)

182D+ZWJ ᠣ (x_) *First Initial Form*
 182D+FVS1+ZWJ ᠣ (x_) *Second Initial Form*[ⓔ]
 182D+FVS2+ZWJ ᠣ (x_) *Third Initial Form*
(context-driven)
(expected to be in new 2016 Chinese Standard)

ZWJ+182D+ZWJ ᠣ (x_) *First Medial Form*
 ZWJ+182D+FVS1+ZWJ ᠣ (x_) *Second Medial Form*
(context-driven)
 ZWJ+182D+FVS2+ZWJ ᠣ (x_) *Third Medial Form*
(only implemented with MVS)
(actually processed as final when pre-MVS)
 ZWJ+182D+FVS3+ZWJ ᠣ (x_) *Fourth Medial Form*
(context-driven)
 ZWJ+182D+FVS4+ZWJ ᠣ (x_) *Fifth Medial Form*
(needed to over-ride default context)
(COG+FVS2+A+FVS1+GULA)
(consider whether toggle will solve this)
(more research needed)

ZWJ+182D ᠣ (x_) *First Final Form*
(NOTE: error in Chinese Standard - missing)
 ZWJ+182D+FVS1 ᠣ (x_) *Second Final Form*
(needed to over-ride default context)
(SIG+FVS1)
 ZWJ+182D+FVS2 ᠣ (x_) *Third Final Form*
(context-driven)
(ABSIG+FVS2)

182E (x_xx) **ᠣ** MONGOLIAN LETTER MA
 182E+ZWJ ᠣ (x_xx) *Initial Form*
 ZWJ+182E+ZWJ ᠣ (x_xx) *Medial Form*
 ZWJ+182E ᠣ (x_xx) *Final Form*

182F (xxxx) **ᠣ** MONGOLIAN LETTER LA
 182F+ZWJ ᠣ (xxxx) *Initial Form*
 ZWJ+182F+ZWJ ᠣ (xxxx) *Medial Form*
 ZWJ+182F ᠣ (xxxx) *Final Form*

1830 (xxxx) **ᠣ** MONGOLIAN LETTER SA
 1830+ZWJ ᠣ (xxxx) *Initial Form*
 ZWJ+1830+ZWJ ᠣ (xxxx) *Medial Form*
 ZWJ+1830 ᠣ (xxxx) *First Final Form*
 ZWJ+1830+FVS1 ᠣ (x_) *Second Final Form*[ⓔ]
 ZWJ+1830+FVS2 ᠣ (x_) *Third Final Form*[ⓔ]

1831 (xx_) **ᠣ** MONGOLIAN LETTER SHA
 1831+ZWJ ᠣ (xx_) *Initial Form*
 ZWJ+1831+ZWJ ᠣ (xx_) *Medial Form*
 ZWJ+1831 ᠣ (xx_) *Final Form*

1832 (x_) **ᠣ** MONGOLIAN LETTER TA
 1832+ZWJ ᠣ (x_) *Initial Form*
 ZWJ+1832+ZWJ ᠣ (x_) *First Medial Form*
 ZWJ+1832+FVS1+ZWJ ᠣ (x_) *Second Medial Form*[ⓔ]
 ZWJ+1832 ᠣ (x_) *Final Form*

1833 (x_) **ᠣ** MONGOLIAN LETTER DA
 1833+ZWJ ᠣ (x_) *First Initial Form*
 1833+FVS1+ZWJ ᠣ (x_) *Second Initial Form*
(also implemented with NNBSF)

ZWJ+1833+ZWJ	ᠮ (x_) <i>First Medial Form</i>
ZWJ+1833+FVS1+ZWJ	ᠮ (x_) <i>Second Medial Form</i> <small>(context-driven)</small>
ZWJ+1833	ᠮᠤ (x_) <i>First Final Form</i>
ZWJ+1833+FVS1	ᠮᠤ (x_) <i>Second Final Form</i> ^᠑
1834 (xxxx) ᠮ	MONGOLIAN LETTER CHA
1834+ZWJ	ᠮ (xxxx) <i>Initial Form</i>
ZWJ+1834+ZWJ	ᠮ (xxxx) <i>Medial Form</i>
ZWJ+1834	ᠮ (x_) <i>Final Form</i>
1835 (x_x) ᠯ	MONGOLIAN LETTER JA
1835+ZWJ	ᠯ (x_x) <i>Initial Form</i>
ZWJ+1835+ZWJ	ᠯ (x_x) <i>First Medial Form</i>
ZWJ+1835+FVS1+ZWJ	ᠯ (x_) <i>Second Medial Form</i> <small>(implemented with MVS & NNBSF only - actually processed as final when pre-MVS/NNBSF)</small>
ZWJ+1835	ᠯ (x_) <i>First Final Form</i>
1836 (x_xx) ᠮ	MONGOLIAN LETTER YA
1836+ZWJ	ᠮ (x_xx) <i>First Initial Form</i>
1836+FVS1+ZWJ	ᠮ (x_) <i>Second Initial Form</i> <small>(context-driven)</small>
ZWJ+1836+ZWJ	ᠮ (x_xx) <i>First Medial Form</i>
ZWJ+1836+FVS1+ZWJ	ᠮ (x_) <i>Second Medial Form</i> <small>(context-driven AND also needed to over-ride default context)</small>
ZWJ+1836+FVS2+ZWJ	ᠮ (x_) <i>Third Medial Form</i> <small>(implemented with MVS & NNBSF only - actually processed as final when pre-MVS/NNBSF)</small>
ZWJ+1836	ᠮ () <i>Final Form</i>
1837 (xxx_) ᠮ	MONGOLIAN LETTER RA
1837+ZWJ	ᠮ (xxx_) <i>Initial Form</i>
ZWJ+1837+ZWJ	ᠮ (xxx_) <i>Medial Form</i>
ZWJ+1837	ᠮ (xxx_) <i>Final Form</i>
1838 (xxxx) ᠮ	MONGOLIAN LETTER WA
1838+ZWJ	ᠮ (xxxx) <i>Initial Form</i>
ZWJ+1838+ZWJ	ᠮ (xxxx) <i>First Medial Form</i>
ZWJ+1838+FVS1+ZWJ	ᠮ (x_) <i>Second Medial Form</i> <small>(context-driven)</small>
ZWJ+1838	ᠮ (x_) <i>First Final Form</i>
ZWJ+1838+FVS1	ᠮ (x_) <i>Second Final Form</i> ^᠑
1839 (x_) ᠮ	MONGOLIAN LETTER FA ^᠑
1839+ZWJ	ᠮ (x_) <i>Initial Form</i>
ZWJ+1839+ZWJ	ᠮ (x_) <i>Medial Form</i>
ZWJ+1839	ᠮ (x_) <i>Final Form</i>
183A (xxxx) ᠮ	MONGOLIAN LETTER KA ^᠑
183A+ZWJ	ᠮ (xxxx) <i>Initial Form</i>
ZWJ+183A+ZWJ	ᠮ (xxxx) <i>Medial Form</i>
ZWJ+183A	ᠮ (x_) <i>Final Form</i>
183B (xx_) ᠮ	MONGOLIAN LETTER KHA ^᠑

183B+ZWJ	ᠮ (xx_) <i>Initial Form</i>
ZWJ+183B+ZWJ	ᠮ (xx_) <i>Medial Form</i>
ZWJ+183B	ᠮ (xx_) <i>Final Form</i>
183C (x_) ᠮ	MONGOLIAN LETTER TSA
183C+ZWJ	ᠮ (x_) <i>Initial Form</i>
ZWJ+183C+ZWJ	ᠮ (x_) <i>Medial Form</i>
ZWJ+183C	ᠮ (x_) <i>Final Form</i>
183D (x_) ᠮ	MONGOLIAN LETTER ZA
183D+ZWJ	ᠮ (x_) <i>Initial Form</i>
ZWJ+183D+ZWJ	ᠮ (x_) <i>Medial Form</i>
ZWJ+183D	ᠮ (x_) <i>Final Form</i>
183E (x_) ᠮ	MONGOLIAN LETTER HAA
183E+ZWJ	ᠮ (x_) <i>Initial Form</i>
ZWJ+183E+ZWJ	ᠮ (x_) <i>Medial Form</i>
ZWJ+183E	ᠮ (x_) <i>Final Form</i>
183F (x_) ᠮ	MONGOLIAN LETTER ZRA
183F+ZWJ	ᠮ (x_) <i>Initial Form</i>
ZWJ+183F+ZWJ	ᠮ (x_) <i>Medial Form</i>
ZWJ+183F	ᠮ (x_) <i>Final Form</i>
1840 (xx_) ᠮ	MONGOLIAN LETTER LHA
1840+ZWJ	ᠮ (xx_) <i>Initial Form</i>
ZWJ+1840+ZWJ	ᠮ (xx_) <i>Medial Form</i>
ZWJ+1840	ᠮ () <i>Final Form</i>
1841 (x_) ᠮ	MONGOLIAN LETTER ZHI
1841+ZWJ	ᠮ (x_) <i>Initial Form</i>
ZWJ+1841+ZWJ	ᠮ (x_) <i>Medial Form</i>
ZWJ+1841	ᠮ () <i>Final Form</i>
1842 (x_) ᠮ	MONGOLIAN LETTER CHI
1842+ZWJ	ᠮ (x_) <i>Initial Form</i>
ZWJ+1842+ZWJ	ᠮ (x_) <i>Medial Form</i>
ZWJ+1842	ᠮ () <i>Final Form</i>
Todo Letters	
1843 (x_) ᠮ	MONGOLIAN LETTER TODO LONG VOWEL SIGN
1843+ZWJ	ᠮ (x_) <i>Initial Form</i> <small>(context-driven)</small>
ZWJ+1843+ZWJ	ᠮ (x_) <i>Medial Form</i> <small>(context-driven)</small>
ZWJ+1843	ᠮ (x_) <i>First Final Form</i> <small>(context-driven)</small>
ZWJ+1843+FVS1	ᠮ (x_) <i>Second Final Form</i>
1844 (x_) ᠮ	MONGOLIAN LETTER TODO E
1844+ZWJ	ᠮ (x_) <i>Initial Form</i>

ZWJ+1844+ZWJ	ᠠ (x)	First Medial Form	184C (x)	ᠠ	MONGOLIAN LETTER TODO PA ^s
ZWJ+1844+FVS1+ZWJ	ᠡ (x)	Second Medial Form [Ⓢ]	184C+ZWJ	ᠡ (x)	Initial Form
ZWJ+1844	ᠢ (x)	Final Form	ZWJ+184C+ZWJ	ᠢ (x)	Medial Form
1845 (x)	ᠣ	MONGOLIAN LETTER TODO I	ZWJ+184C	ᠣ (x)	Final Form
1845+ZWJ	ᠠᠢ (x)	Initial Form	184D (x)	ᠠᠢ	MONGOLIAN LETTER TODO QA
ZWJ+1845+ZWJ	ᠠ (x)	First Medial Form	184D+FVS1	ᠠ (x)	Second Isolate Form [Ⓢ]
ZWJ+1845+FVS1+ZWJ	ᠡ (x)	Second Medial Form	184D+ZWJ	ᠡ (x)	Initial Form
ZWJ+1845	ᠢ (x)	Final Form	ZWJ+184D+ZWJ	ᠢ (x)	Medial Form
1846 (x)	ᠣ	MONGOLIAN LETTER TODO O	ZWJ+184D	ᠣ (x)	Final Form
1846+ZWJ	ᠠᠢ (x)	Initial Form	184E (x)	ᠠᠢ	MONGOLIAN LETTER TODO GA
ZWJ+1846+ZWJ	ᠠ (x)	First Medial Form	184E+FVS1	ᠠ (x)	Second Isolate Form [Ⓢ]
ZWJ+1846+FVS1+ZWJ	ᠡ (x)	Second Medial Form [Ⓢ]	184E+ZWJ	ᠡ (x)	Initial Form
ZWJ+1846	ᠢ (x)	Final Form	ZWJ+184E+ZWJ	ᠢ (x)	First Medial Form
1847 (x)	ᠣ	MONGOLIAN LETTER TODO U	ZWJ+184E+FVS1+ZWJ	ᠣ (x)	Second Medial Form
1847+FVS1	ᠠᠢ (x)	Second Isolate Form	ZWJ+184E	ᠣ (x)	Final Form
1847+ZWJ	ᠠ (x)	Initial Form	184F (x)	ᠠ	MONGOLIAN LETTER TODO MA [Ⓢ]
ZWJ+1847+ZWJ	ᠡ (x)	First Medial Form	184F	ᠠ (x)	Isolate Form
ZWJ+1847+FVS1+ZWJ	ᠢ (x)	Second Medial Form [Ⓢ]	184F+ZWJ	ᠡ (x)	Initial Form
ZWJ+1847+FVS2+ZWJ	ᠣ (x)	Third Medial Form	ZWJ+184F+ZWJ	ᠢ (x)	Medial Form
ZWJ+1847	ᠣ (x)	First Final Form	ZWJ+184F	ᠣ (x)	Final Form
ZWJ+1847+FVS1	ᠣ (x)	Second Final Form	1850 (x)	ᠣ	MONGOLIAN LETTER TODO TA
1848 (x)	ᠣ	MONGOLIAN LETTER TODO OE	1850+ZWJ	ᠣ (x)	Initial Form
1848+ZWJ	ᠠᠢ (x)	Initial Form	ZWJ+1850+ZWJ	ᠣ (x)	Medial Form
ZWJ+1848+ZWJ	ᠠ (x)	First Medial Form	ZWJ+1850	ᠣ (x)	Final Form
ZWJ+1848+FVS1+ZWJ	ᠡ (x)	Second Medial Form [Ⓢ]	1851 (x)	ᠡ	MONGOLIAN LETTER TODO DA
ZWJ+1848	ᠢ (x)	Final Form	1851+ZWJ	ᠡ (x)	Initial Form
1849 (x)	ᠣ	MONGOLIAN LETTER TODO UE	ZWJ+1851+ZWJ	ᠡ (x)	Medial Form
1849+FVS1	ᠠᠢ (x)	Second Isolate Form	ZWJ+1851	ᠡ (x)	Final Form
1849+ZWJ	ᠠ (x)	Initial Form	1852 (x)	ᠡ	MONGOLIAN LETTER TODO CHA
ZWJ+1849+ZWJ	ᠡ (x)	First Medial Form	1852+ZWJ	ᠡ (x)	Initial Form
ZWJ+1849+FVS1+ZWJ	ᠢ (x)	Second Medial Form [Ⓢ]	ZWJ+1852+ZWJ	ᠡ (x)	Medial Form
ZWJ+1849	ᠣ (x)	Final Form	ZWJ+1852	ᠡ (x)	Final Form
184A (x)	ᠠ	MONGOLIAN LETTER TODO ANG [Ⓢ]	1853 (xx)	ᠠ	MONGOLIAN LETTER TODO JA
184A	ᠠ (x)	Isolate Form	1853+ZWJ	ᠠ (xx)	Initial Form
184A+ZWJ	ᠡ (x)	Initial Form	ZWJ+1853+ZWJ	ᠠ (xx)	Medial Form
ZWJ+184A+ZWJ	ᠢ (x)	Medial Form	ZWJ+1853	ᠠ (x)	Final Form
ZWJ+184A	ᠣ (x)	Final Form	1854 (x)	ᠠ	MONGOLIAN LETTER TODO TSA
184B (x)	ᠠ	MONGOLIAN LETTER TODO BA [Ⓢ]	1854+ZWJ	ᠠ (x)	Initial Form
184B	ᠠ (x)	Isolate Form	ZWJ+1854+ZWJ	ᠠ (x)	Medial Form
184B+ZWJ	ᠡ (x)	Initial Form	ZWJ+1854	ᠠ (x)	Final Form
ZWJ+184B+ZWJ	ᠢ (x)	Medial Form			
ZWJ+184B	ᠣ (x)	Final Form			

1855	ᠲ	MONGOLIAN LETTER TODO YA
1855+ZWJ	ᠲ (x_)	<i>Initial Form</i>
ZWJ+1855+ZWJ	ᠲ (x_)	<i>Medial Form</i>
ZWJ+1855	ᠲ ()	<i>Final Form</i>
1856 (x_)	ᠳ	MONGOLIAN LETTER TODO WA
1856+ZWJ	ᠳ (x_)	<i>Initial Form</i>
ZWJ+1856+ZWJ	ᠳ (x_)	<i>Medial Form</i>
ZWJ+1856	ᠳ ()	<i>Final Form</i>
1857 (x_)	ᠬ	MONGOLIAN LETTER TODO KA ^s
1857+ZWJ	ᠬ (x_)	<i>Initial Form</i>
ZWJ+1857+ZWJ	ᠬ (x_)	<i>Medial Form</i>
ZWJ+1857	ᠬ (x_)	<i>Final Form</i>

1858 (xx_)	ᠭ	MONGOLIAN LETTER TODO GAA ^s
1858+ZWJ	ᠭ (xx_)	<i>Initial Form</i>
ZWJ+1858+ZWJ	ᠭ (xx_)	<i>Medial Form</i>
ZWJ+1858	ᠭ ()	<i>Final Form</i>

1859 (x_)	ᠬᠠ	MONGOLIAN LETTER TODO HAA [%]
1859	ᠬᠠ ()	<i>Isolate Form</i>
1859+ZWJ	ᠬᠠ (x_)	<i>Initial Form</i>
ZWJ+1859+ZWJ	ᠬᠠ (x_)	<i>Medial Form</i>
ZWJ+1859	ᠬᠠ (x_)	<i>Final Form</i>

185A (x_)	ᠭᠢ	MONGOLIAN LETTER TODO JIA
185A+ZWJ	ᠭᠢ (x_)	<i>Initial Form</i>
ZWJ+185A+ZWJ	ᠭᠢ ()	<i>Medial Form</i>
ZWJ+185A	ᠭᠢ ()	<i>Final Form</i>

185B (xx_)	ᠨᠢ	MONGOLIAN LETTER TODO NIA
185B+ZWJ	ᠨᠢ (x_)	<i>Initial Form</i>
ZWJ+185B+ZWJ	ᠨᠢ ()	<i>Medial Form</i>
ZWJ+185B	ᠨᠢ ()	<i>Final Form</i>

185C (xx_)	ᠳᠠ	MONGOLIAN LETTER TODO DZA
185C+ZWJ	ᠳᠠ (xx_)	<i>Initial Form</i>
ZWJ+185C+ZWJ	ᠳᠠ (xx_)	<i>Medial Form</i>
ZWJ+185C	ᠳᠠ (x_)	<i>Final Form</i>

Sibe Letters

185D (xx_)	ᠡ	MONGOLIAN LETTER SIBE E [%]
185D	ᠡ (x_)	<i>Isolate Form</i>
185D+ZWJ	ᠡ (xx_)	<i>Initial Form</i>
ZWJ+185D+ZWJ	ᠡ (xx_)	<i>First Medial Form</i>
ZWJ+185D+FVS1+ZWJ	ᠡ (xx_)	<i>Second Medial Form</i> <small>(context-driven)</small>
ZWJ+185D	ᠡ (xx_)	<i>First Final Form</i>

ZWJ+185D+FVS1	ᠡ (xx_)	<i>Second Final Form</i> <small>(context-driven)</small>
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185E (x_)	ᠢ	MONGOLIAN LETTER SIBE I [%]
185E	ᠢ (x_)	<i>Isolate Form</i>
185E+ZWJ	ᠢ (x_)	<i>Initial Form</i>
ZWJ+185E+ZWJ	ᠢ (x_)	<i>First Medial Form</i>
ZWJ+185E+FVS1+ZWJ	ᠢ (x_)	<i>Second Medial Form</i> <small>(context-driven)</small>
ZWJ+185E+FVS2+ZWJ	ᠢ (x_)	<i>Third Medial Form</i> <small>(context-driven)</small>
ZWJ+185E	ᠢ (x_)	<i>First Final Form</i> <small>(also implemented with NNBSF - actually processed as isolate in accusative suffix)</small>
ZWJ+185E+FVS1	ᠢ (x_)	<i>Second Final Form</i> <small>(context-driven)</small>
ZWJ+185E+FVS2	ᠢ (x_)	<i>Third Final Form</i>

185F (xx_)	ᠣ	MONGOLIAN LETTER SIBE OY
185F+ZWJ	ᠣ ()	<i>Initial Form</i>
ZWJ+185F+ZWJ	ᠣ (xx_)	<i>Medial Form</i>
ZWJ+185F	ᠣ (xx_)	<i>Final Form</i>

1860 (xx_)	ᠣᠡ	MONGOLIAN LETTER SIBE UE
1860+ZWJ	ᠣᠡ (xx_)	<i>Initial Form</i>
ZWJ+1860+ZWJ	ᠣᠡ (xx_)	<i>First Medial Form</i>
ZWJ+1860+FVS1+ZWJ	ᠣᠡ (xx_)	<i>Second Medial Form</i> <small>(context-driven)</small>
ZWJ+1860	ᠣᠡ (xx_)	<i>First Final Form</i>
ZWJ+1860+FVS1	ᠣᠡ (xx_)	<i>Second Final Form</i> <small>(context-driven)</small>
ZWJ+1860+FVS2	ᠣᠡ (xx_)	<i>Third Final Form</i> <small>(context-driven)</small>

1861 (xx_)	ᠣᠢ	MONGOLIAN LETTER SIBE U [%]
1861	ᠣᠢ (x_)	<i>Isolate Form</i>
1861+ZWJ	ᠣᠢ (x_)	<i>Initial Form</i>
ZWJ+1861+ZWJ	ᠣᠢ (xx_)	<i>Medial Form</i>
ZWJ+1861	ᠣᠢ (xx_)	<i>Final Form</i>

1862 (x_)	ᠣᠨ	MONGOLIAN LETTER SIBE ANG [%]
1862	ᠣᠨ ()	<i>Isolate Form</i>
1862+ZWJ	ᠣᠨ ()	<i>Initial Form</i>
ZWJ+1862+ZWJ	ᠣᠨ (x_)	<i>Medial Form</i>
ZWJ+1862	ᠣᠨ (x_)	<i>Final Form</i>

1863 (x_)	ᠣᠨᠢ	MONGOLIAN LETTER SIBE KA [%]
1863	ᠣᠨᠢ (x_)	<i>First Isolate Form</i>
1863+FVS1	ᠣᠨᠢ (x_)	<i>Second Isolate Form[*]</i>
1863+ZWJ	ᠣᠨᠢ (x_)	<i>Initial Form</i>
ZWJ+1863+ZWJ	ᠣᠨᠢ (x_)	<i>First Medial Form</i>
ZWJ+1863+FVS1+ZWJ	ᠣᠨᠢ (x_)	<i>Second Medial Form</i> <small>(context-driven)</small>
ZWJ+1863	ᠣᠨᠢ (x_)	<i>Final Form</i>

1864 (_xx)  MONGOLIAN LETTER SIBE GA
 1864+FVS1  (_xx) *Second Isolate Form**
 1864+ZWJ  (_xx) *Initial Form*
 ZWJ+1864+ZWJ  (_xx) *Medial Form*
 ZWJ+1864  (_) *Final Form*

1865 (_xx)  MONGOLIAN LETTER SIBE HA
 1865+FVS1  (_xx) *Second Isolate Form**
 1865+ZWJ  (_xx) *Initial Form*
 ZWJ+1865+ZWJ  (_xx) *Medial Form*
 ZWJ+1865  (_) *Final Form*

1866 (_xx)  MONGOLIAN LETTER SIBE PA^s
 1866+ZWJ  (_xx) *Initial Form*
 ZWJ+1866+ZWJ  (_xx) *Medial Form*
 ZWJ+1866  (_) *Final Form*

1867 (_xx)  MONGOLIAN LETTER SIBE SHA
 1867+ZWJ  (_xx) *Initial Form*
 ZWJ+1867+ZWJ  (_xx) *Medial Form*
 ZWJ+1867  (_x) *Final Form*

1868 (_xx)  MONGOLIAN LETTER SIBE TA
 1868+ZWJ  (_xx) *First Initial Form*
 1868+FVS1+ZWJ  (_xx) *Second Initial Form*
 ZWJ+1868+ZWJ  (_xx) *First Medial Form*
 ZWJ+1868+FVS1+ZWJ  (_xx) *Second Medial Form*
 ZWJ+1868+FVS2+ZWJ  (_xx) *Third Medial Form*
 ZWJ+1868  (_xx) *Final Form*
(no context currently – more research needed here)

1869 (_xx)  MONGOLIAN LETTER SIBE DA
 1869+ZWJ  (_xx) *First Initial Form*
 1869+FVS1+ZWJ  (_xx) *Second Initial Form*
 ZWJ+1869+ZWJ  (_xx) *First Medial Form*
 ZWJ+1869+FVS1+ZWJ  (_xx) *Second Medial Form*
 ZWJ+1869  (_) *Final Form*
(context-driven)

186A (_x)  MONGOLIAN LETTER SIBE JA
 186A+ZWJ  (_x) *Initial Form*
 ZWJ+186A+ZWJ  (_x) *Medial Form*
 ZWJ+186A  (_) *Final Form*

186B (_x)  MONGOLIAN LETTER SIBE FA
 186B+ZWJ  (_x) *Initial Form*
 ZWJ+186B+ZWJ  (_x) *Medial Form*
 ZWJ+186B  (_) *Final Form*

186C (_x)  MONGOLIAN LETTER SIBE GAA^s
 186C+ZWJ  (_x) *Initial Form*
 ZWJ+186C+ZWJ  (_x) *Medial Form*
 ZWJ+186C  (_) *Final Form*

186D (_x)  MONGOLIAN LETTER SIBE HAA^s
 186D+ZWJ  (_x) *Initial Form*
 ZWJ+186D+ZWJ  (_x) *Medial Form*
 ZWJ+186D  (_) *Final Form*

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

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

1870 (_xx)  MONGOLIAN LETTER SIBE RAA
 1870+ZWJ  (_xx) *Initial Form*
 ZWJ+1870+ZWJ  (_xx) *Medial Form*
 ZWJ+1870  (_xx) *Final Form*

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

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

Manchu Letters

1873 (_x)  MONGOLIAN LETTER MANCHU I^o
 1873  (_x) *Isolate Form*
 1873+ZWJ  (_x) *Initial Form*
 ZWJ+1873+ZWJ  (_x) *First Medial Form*
 ZWJ+1873+FVS1+ZWJ  (_x) *Second Medial Form*
 ZWJ+1873+FVS2+ZWJ  (_x) *Third Medial Form*
 ZWJ+1873+FVS3+ZWJ  (_x) *Fourth Medial Form*
 ZWJ+1873  (_x) *First Final Form*
(also implemented with NNBSF - actually processed as isolate in accusative suffix)

ZWJ+1873+FVS1	ᠨ (x)	Second Final Form
ZWJ+1873+FVS2	ᠨ (x)	Third Final Form
ZWJ+1873+FVS3	ᠨ (x)	Fourth Final Form
1874 (x)	ᠨ	MONGOLIAN LETTER MANCHU KA [%]
1874+FVS1	ᠨ (x)	First Isolate Form
1874+FVS1	ᠨ (x)	Second Isolate Form
1874+ZWJ	ᠨ (x)	Initial Form
ZWJ+1874+ZWJ	ᠨ (x)	First Medial Form
ZWJ+1874+FVS1+ZWJ	ᠨ (x)	Second Medial Form
ZWJ+1874+FVS2+ZWJ	ᠨ (x)	Third Medial Form
ZWJ+1874+FVS3+ZWJ	ᠨ (x)	Fourth Medial Form
ZWJ+1874	ᠨ (x)	First Final Form
ZWJ+1874+FVS1	ᠨ (x)	Second Final Form
ZWJ+1874+FVS2	ᠨ (x)	Third Final Form

1875 (x)	ᠨ	MONGOLIAN LETTER MANCHU RA [%]
1875	ᠨ (x)	Isolate Form
1875+ZWJ	ᠨ (x)	Initial Form
ZWJ+1875+ZWJ	ᠨ (x)	Medial Form
ZWJ+1875	ᠨ (x)	Final Form

1876 (x)	ᠨ	MONGOLIAN LETTER MANCHU FA [%]
1876	ᠨ (x)	Isolate Form
1876+ZWJ	ᠨ (x)	First Initial Form
1876+FVS1+ZWJ	ᠨ (x)	Second Initial Form
ZWJ+1876+ZWJ	ᠨ (x)	First Medial Form
ZWJ+1876+FVS1+ZWJ	ᠨ (x)	Second Medial Form
ZWJ+1876	ᠨ (x)	Final Form

1877 (x)	ᠨ	MONGOLIAN LETTER MANCHU ZHA
1877+ZWJ	ᠨ (x)	Initial Form
ZWJ+1877+ZWJ	ᠨ (x)	Medial Form
ZWJ+1877	ᠨ (x)	Final Form

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

Ali Gali Letters

1880 (xx_x)	ᠨ	MONGOLIAN LETTER ALI GALI ANUSVARA
1880+FVS1	ᠨ (xx_x)	Second Form

1881 (xx_x)	ᠨ	MONGOLIAN LETTER ALI GALI VISARGA ONE
1881+FVS1	ᠨ (xx_x)	Second Form
1882 (xx_x)	ᠨ	MONGOLIAN LETTER ALI GALI DAMARU
1883 (xx_x)	ᠨ	MONGOLIAN LETTER ALI GALI UBADAMA
1884 (xx_x)	ᠨ	MONGOLIAN LETTER ALI GALI INVERTED UBADAMA
1887 (xx_x)	ᠨ	MONGOLIAN LETTER ALI GALI A
1887+ZWJ	ᠨ (x)	Initial Form
ZWJ+1887+ZWJ	ᠨ (x)	Medial Form
ZWJ+1887	ᠨ (xx_x)	First Final Form
ZWJ+1887+FVS1	ᠨ (x)	Second Final Form
ZWJ+1887+FVS2	ᠨ (xx_x)	Third Final Form
ZWJ+1887+FVS3	ᠨ (xx_x)	Fourth Final Form
ZWJ+1887+FVS4	ᠨ (x)	Fifth Final Form

1888 (x_x)	ᠨ	MONGOLIAN LETTER ALI GALI I
1888+ZWJ	ᠨ (x)	Initial Form
ZWJ+1888+ZWJ	ᠨ (xx_x)	First Medial Form
ZWJ+1888+ZWJ+FVS1	ᠨ (xx_x)	Second Medial Form
ZWJ+1888	ᠨ (x)	First Final Form
ZWJ+1888+FVS1	ᠨ (x)	Second Final Form

1889 (xx_x)	ᠨ	MONGOLIAN LETTER ALI GALI KA ⁺
1889+ZWJ	ᠨ (xx_x)	Initial Form
ZWJ+1889+ZWJ	ᠨ (x)	Medial Form
ZWJ+1889	ᠨ (x)	Final Form

188A (xx_x)	ᠨ	MONGOLIAN LETTER ALI GALI NGA
188A+ZWJ	ᠨ (xx_x)	First Initial Form
188A+FVS1+ZWJ	ᠨ (xx_x)	Second Initial Form
ZWJ+188A+ZWJ	ᠨ (xx_x)	First Medial Form
ZWJ+188A+FVS1+ZWJ	ᠨ (xx_x)	Second Medial Form
ZWJ+188A	ᠨ (x)	Final Form

188B (xx_x)	ᠨ	MONGOLIAN LETTER ALI GALI CA
188B+ZWJ	ᠨ (xx_x)	Initial Form
ZWJ+188B+ZWJ	ᠨ (xx_x)	Medial Form
ZWJ+188B	ᠨ (x)	Final Form

188C (xx_x)	ᠨ	MONGOLIAN LETTER ALI GALI TTA
188C+ZWJ	ᠨ (x)	Initial Form
ZWJ+188C+ZWJ	ᠨ (x)	Medial Form
ZWJ+188C	ᠨ (x)	Final Form

188D (xx_) 	MONGOLIAN LETTER ALI GALI TTHA	1897 (xx_) 	MONGOLIAN LETTER ALI GALI AH
188D+ZWJ 	<i>Initial Form</i>	1897+ZWJ 	<i>Initial Form</i>
ZWJ+188D+ZWJ 	<i>Medial Form</i>	ZWJ+1897+ZWJ 	<i>Medial Form</i>
ZWJ+188D 	<i>Final Form</i>	ZWJ+1897 	<i>Final Form</i>
188E (xx_) 	MONGOLIAN LETTER ALI GALI DDA	1898 (x_) 	MONGOLIAN LETTER TODO ALI GALI TA
188E+ZWJ 	<i>Initial Form</i>	1898+ZWJ 	<i>Initial Form</i>
ZWJ+188E+ZWJ 	<i>Medial Form</i>	ZWJ+1898+ZWJ 	<i>Medial Form</i>
ZWJ+188E 	<i>Final Form</i>	ZWJ+1898 	<i>Final Form</i>
188F (xx_x) 	MONGOLIAN LETTER ALI GALI NNA	1899 (x_) 	MONGOLIAN LETTER TODO ALI GALI ZHA
188F+ZWJ 	<i>Initial Form</i>	1899+ZWJ 	<i>Initial Form</i>
ZWJ+188F+ZWJ 	<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_) 	MONGOLIAN LETTER MANCHU ALI GALI GH A
1890+ZWJ 	<i>Initial Form</i>	189A+ZWJ 	<i>Initial Form</i>
ZWJ+1890+ZWJ 	<i>Medial Form</i>	ZWJ+189A+ZWJ 	<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_) 	MONGOLIAN LETTER MANCHU ALI GALI NGA
1891+ZWJ 	<i>Initial Form</i>	189B+ZWJ 	<i>Initial Form</i>
ZWJ+1891+ZWJ 	<i>Medial Form</i>	ZWJ+189B+ZWJ 	<i>Medial Form</i>
ZWJ+1891 	<i>Final Form</i>	ZWJ+189B 	<i>Final Form</i>
1892 (xx_x) 	MONGOLIAN LETTER ALI GALI PA ^s	189C (x_) 	MONGOLIAN LETTER MANCHU ALI GALI CA
1892+ZWJ 	<i>Initial Form</i>	189C+ZWJ 	<i>Initial Form</i>
ZWJ+1892+ZWJ 	<i>Medial Form</i>	ZWJ+189C+ZWJ 	<i>Medial Form</i>
ZWJ+1892 	<i>Final Form</i>	ZWJ+189C 	<i>Final Form</i>
1893 (xx_) 	MONGOLIAN LETTER ALI GALI PHA ^s	189D (x_) 	MONGOLIAN LETTER MANCHU ALI GALI JHA
1893+ZWJ 	<i>Initial Form</i>	189D+ZWJ 	<i>Initial Form</i>
ZWJ+1893+ZWJ 	<i>Medial Form</i>	ZWJ+189D+ZWJ 	<i>Medial Form</i>
ZWJ+1893 	<i>Final Form</i>	ZWJ+189D 	<i>Final Form</i>
1894 (xx_) 	MONGOLIAN LETTER ALI GALI SSA	189E (x_) 	MONGOLIAN LETTER MANCHU ALI GALI TTA
1894+ZWJ 	<i>Initial Form</i>	189E+ZWJ 	<i>Initial Form</i>
ZWJ+1894+ZWJ 	<i>Medial Form</i>	ZWJ+189E+ZWJ 	<i>Medial Form</i>
ZWJ+1894 	<i>Final Form</i>	ZWJ+189E 	<i>Final Form</i>
1895 (x_) 	MONGOLIAN LETTER ALI GALI ZHA	189F (x_) 	MONGOLIAN LETTER MANCHU ALI GALI DDHA
1895+ZWJ 	<i>Initial Form</i>	189F+ZWJ 	<i>Initial Form</i>
ZWJ+1895+ZWJ 	<i>Medial Form</i>	ZWJ+189F+ZWJ 	<i>Medial Form</i>
ZWJ+1895 	<i>Final Form</i>	ZWJ+189F 	<i>Final Form</i>
1896 (xx_) 	MONGOLIAN LETTER ALI GALI ZA	18A0 (x_) 	MONGOLIAN LETTER MANCHU ALI GALI TA
1896+ZWJ 	<i>Initial Form</i>	18A0+ZWJ 	<i>First Initial Form</i>
ZWJ+1896+ZWJ 	<i>Medial Form</i>	18A0+FVS1+ZWJ 	<i>Second Initial Form</i>
ZWJ+1896 	<i>Final Form</i>	ZWJ+18A0+ZWJ 	<i>First Medial Form</i>

ZWJ+18A0+FVS1+ZWJ	᠋ (x)	<i>Second Medial Form</i>
ZWJ+18A0	᠋ ()	<i>Final Form</i>
18A1 (x)	᠋	MONGOLIAN LETTER MANCHU ALI GALI DHA
18A1+ZWJ	᠋ (x)	<i>First Initial Form</i>
18A1+FVS1+ZWJ	᠋ ()	<i>Second Initial Form</i>
ZWJ+18A1+ZWJ	᠋ (x)	<i>First Medial Form</i>
ZWJ+18A1+FVS1+ZWJ	᠋ ()	<i>Second Medial Form</i>
ZWJ+18A1	᠋ ()	<i>Final Form</i>
18A2 (x)	᠋	MONGOLIAN LETTER MANCHU ALI GALI SSA
18A2+ZWJ	᠋ (x)	<i>Initial Form</i>
ZWJ+18A2+ZWJ	᠋ (x)	<i>Medial Form</i>
ZWJ+18A2	᠋ ()	<i>Final Form</i>
18A3 (x)	᠋	MONGOLIAN LETTER MANCHU ALI GALI C YA
18A3+ZWJ	᠋ (x)	<i>Initial Form</i>
ZWJ+18A3+ZWJ	᠋ (x)	<i>Medial Form</i>
ZWJ+18A3	᠋ ()	<i>Final Form</i>
18A4 (x)	᠋	MONGOLIAN LETTER MANCHU ALI GALI ZHA
18A4+ZWJ	᠋ (x)	<i>Initial Form</i>
ZWJ+18A4+ZWJ	᠋ (x)	<i>Medial Form</i>
ZWJ+18A4	᠋ ()	<i>Final Form</i>
18A5 (x)	᠋	MONGOLIAN LETTER MANCHU ALI GALI ZA
18A5+ZWJ	᠋ (x)	<i>Initial Form</i>
ZWJ+18A5+ZWJ	᠋ (x)	<i>Medial Form</i>
ZWJ+18A5	᠋ ()	<i>Final Form</i>
18A6 (xx_)	᠋	MONGOLIAN LETTER ALI GALI HALF U
18A6+ZWJ	᠋ (x)	<i>Initial Form</i>
ZWJ+18A6+ZWJ	᠋ ()	<i>Medial Form</i>
ZWJ+18A6	᠋ ()	<i>Final Form</i>
18A7 (xx_x)	᠋	MONGOLIAN LETTER ALI GALI HALF YA
18A7+ZWJ	᠋ (x)	<i>Initial Form</i>
ZWJ+18A7+ZWJ	᠋ ()	<i>Medial Form</i>
ZWJ+18A7	᠋ ()	<i>Final Form</i>
18A8 (x)	᠋	MONGOLIAN LETTER MANCHU ALI GALI BHA*
18A8+ZWJ	᠋ (x)	<i>Initial Form</i>
ZWJ+18A8+ZWJ	᠋ ()	<i>Medial Form</i>
ZWJ+18A8	᠋ ()	<i>Final Form</i>
18AA (x)	᠋	MONGOLIAN LETTER MANCHU ALI GALI LHA
18AA+ZWJ	᠋ (x)	<i>Initial Form</i>
ZWJ+18AA+ZWJ	᠋ (x)	<i>Medial Form</i>
ZWJ+18AA	᠋ ()	<i>Final Form</i>