

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)

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TARGET AUDIENCE: Font developers

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

LEGEND

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

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

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

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

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

There are 13 such cases.

(X₁X₂X₃X₄) – denotes script usage (X₁=Mongolian, X₂=Todo, X₃=Sibe, X₄=Manchu); positional glyphs which show no “X” at all are to be understood as undefined

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

Blue highlighting notes a need for refinement or just additional information

Purple highlighting indicates the proposal for a new FVS assignment (in discussion with Prof. Quejingzhabu also)

Grey highlighting indicates a change from the previous DS01

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)	ᠪᠠᠯᠤᠳᠠ	MONGOLIAN LETTER ALI GALI BALUDA <small>(this is not a letter – it is a diacritic mark; should have the perforated circle added here)</small>
1886	(xx_x)	ᠪᠠᠯᠤᠳᠤ	MONGOLIAN LETTER ALI GALI THREE BALUDA <small>(this is not a letter – it is a diacritic mark; should have the perforated circle added here)</small>
18A9	(x__)	ᠳᠠᠭᠠᠯᠭ᠋᠎ᠠ	MONGOLIAN LETTER ALI GALI DAGALGA <small>(this is not a letter – it is a diacritic mark)</small>

Control Characters

180B	(xxxx)	FV S1	MONGOLIAN FREE VARIATION SELECTOR ONE
180C	(xxxx)	FV S2	MONGOLIAN FREE VARIATION SELECTOR TWO
180D	(xxxx)	FV S3	MONGOLIAN FREE VARIATION SELECTOR THREE
180E	(x__)	MV S	MONGOLIAN VOWEL SEPARATOR
180F	(xxxx)	FV S4	MONGOLIAN FREE VARIATION SELECTOR FOUR

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

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

Numbers

(rotated 90 degrees clockwise in vertical display)

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

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

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

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

Mongolian Letters

1807 (_x) ᠳ MONGOLIAN SIBE SYLLABLE BOUNDARY MARKER

1807+ZWJ	(_)	ᠳ	Initial Form
ZWJ+1807+ZWJ	(_x)	ᠳ	Medial Form
ZWJ+1807	(_)	ᠳ	Final Form

180A (xxxx) ᠰ MONGOLIAN NIRUGU

180A+ZWJ	(xxxx)	ᠰ	Initial Form
ZWJ+180A+ZWJ	(xxxx)	ᠰ	Medial Form
ZWJ+180A	(xxxx)	ᠰ	First Final Form
STATUS: Check to see whether this is in the new 2016 Chinese Standard			
ZWJ+180A+FVS1	(xxxx)	ᠰ	Second 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 NNBSPP - 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/NNBSPP)			

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_) Second Final Form
(only implemented with MVS/NNBSPP)

1822 (x_) ᠢ MONGOLIAN LETTER I

1822+ZWJ	(x_)	ᠢ	Initial Form
ZWJ+1822+ZWJ	(x_)	ᠢ	First Medial Form
(also implemented with NNBSPP - 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
STATUS: Check to see whether this is in the new 2016 Chinese Standard (context-driven)			
ZWJ+1822+FVS3+ZWJ	(x_)	ᠢ	Fourth Medial Form
STATUS: Check to see whether this is in the new 2016 Chinese Standard (needed to over-ride default context) (NAI+FVS2+MA)			

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

ZWJ+1822+FVS1 (x_) Second Final Form
STATUS: Check to see whether this is in the new 2016 Chinese Standard

1823 (x_xx) 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 NNBSPP - 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 NNBSPP - actually processed as isolate in genitive suffix)			

ZWJ+1824+FVS1 (x_) Second Final Form[ⓔ]
STATUS: Check to see whether this is in the new 2016 Chinese Standard

ZWJ+1824+FVS2 (x_) Third Final Form

STATUS: Check to see whether this is in the new 2016 Chinese Standard (dotted - only implemented with NNBSPP - actually processed as isolate in genitive suffix)

1825 (x_) 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_) <i>Third Isolate Form</i>
1826+ZWJ	᠋ (x_) <i>Initial Form</i>
ZWJ+1826+ZWJ	᠋ (x_) <i>First Medial Form</i> <small>(also implemented with NNBSF actually processed as initial in genitive suffix)</small>
ZWJ+1826+FVS1+ZWJ	᠋ (x_) <i>Second Medial Form</i> <small>(context-driven)</small>
ZWJ+1826+FVS2+ZWJ	᠋ (x_) <i>Third Medial Form</i> [ⓔ]
ZWJ+1826+FVS3+ZWJ	᠋ (x_) <i>Fourth Medial Form</i> <small>STATUS: Check to see whether this is in the new 2016 Chinese Standard (needed to handle DUEGER without NNBSF)</small>
ZWJ+1826	᠋ (x_) <i>First Final Form</i> <small>(also implemented with NNBSF actually processed as isolate in genitive suffix)</small>
ZWJ+1826+FVS1	᠋ (x_) <i>Second Final Form</i> [ⓔ]
ZWJ+1826+FVS2	᠋ (x_) <i>Third Final Form</i> <small>STATUS: Check to see whether this is in the new 2016 Chinese Standard (dotted - only implemented with NNBSF - actually processed as isolate in genitive suffix)</small>

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

1828 (xxxx) ᠋	MONGOLIAN LETTER NA
1828+ZWJ	᠋ (xxxx) <i>First Initial Form</i> <small>(also context-driven in Todo)</small>
1828+FVS1+ZWJ	᠋ (x_) <i>Second Initial Form</i> [ⓔ]
ZWJ+1828+ZWJ	᠋ (xxxx) <i>First Medial Form</i> <small>(context-driven) (may be implemented as a toggle)</small>
ZWJ+1828+FVS1+ZWJ	᠋ (xxxx) <i>Second Medial Form</i> <small>(context-driven as a toggle, so in actuality could be dotted or undotted) (AN+FVS1+AR must remove the dot)</small>
ZWJ+1828+FVS2+ZWJ	᠋ (x_) <i>Third Medial Form</i> <small>(only implemented with MVS - actually processed as final when pre-MVS)</small>
ZWJ+1828+FVS3+ZWJ	᠋ (x_) <i>Fourth Medial Form</i> <small>(context-driven, Todo only)</small>
ZWJ+182D+FVS4+ZWJ	᠋ (x_) <i>Fifth Medial Form</i> <small>STATUS: Not expected to be in the new 2016 Chinese Standard</small>
ZWJ+1828	᠋ (xxxx) <i>First Final Form</i>

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

182A (x_xx) ᠋	MONGOLIAN LETTER BA ⁵
182A+ZWJ	᠋ (x_xx) <i>Initial Form</i>
ZWJ+182A+ZWJ	᠋ (x_xx) <i>Medial Form</i>
ZWJ+182A	᠋ (x_xx) <i>First Final Form</i>
ZWJ+182A+FVS1	᠋ (x_) <i>Second Final Form</i> [ⓔ]

182B (x_) ᠋	MONGOLIAN LETTER PA ⁵
182B+ZWJ	᠋ (x_) <i>Initial Form</i>
ZWJ+182B+ZWJ	᠋ (x_) <i>Medial Form</i>
ZWJ+182B	᠋ (x_) <i>Final Form</i>

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

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

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

182E (x_xx) ᠋	MONGOLIAN LETTER MA
182E+ZWJ	᠋ (x_xx) <i>Initial Form</i>
ZWJ+182E+ZWJ	᠋ (x_xx) <i>Medial Form</i>
ZWJ+182E	᠋ (x_xx) <i>Final Form</i>

182F (xxxx) ᠋	MONGOLIAN LETTER LA
182F+ZWJ	᠋ (xxxx) <i>Initial Form</i>
ZWJ+182F+ZWJ	᠋ (xxxx) <i>Medial Form</i>
ZWJ+182F	᠋ (xxxx) <i>Final Form</i>

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

ZWJ+1837+ZWJ	ᠬ (xxx_)	Medial Form
ZWJ+1837	ᠬ (xxx_)	Final Form
1838 (xxxx)	ᠬ	MONGOLIAN LETTER WA
1838+ZWJ	ᠬ (xxxx)	Initial Form
ZWJ+1838+ZWJ	ᠬ (xxxx)	First Medial Form
ZWJ+1838+FVS1+ZWJ	ᠬ (x_)	Second Medial Form <small>(context-driven)</small>
ZWJ+1838	ᠬ (x_)	First Final Form
ZWJ+1838+FVS1	ᠬ (x_)	Second Final Form [Ⓢ]
1839 (x_)	ᠬ	MONGOLIAN LETTER FA ^ᶜ
1839+ZWJ	ᠬ (x_)	Initial Form
ZWJ+1839+ZWJ	ᠬ (x_)	Medial Form
ZWJ+1839	ᠬ (x_)	Final Form
183A (xxxx)	ᠬ	MONGOLIAN LETTER KA ^ᶜ
183A+ZWJ	ᠬ (xxxx)	Initial Form
ZWJ+183A+ZWJ	ᠬ (xxxx)	Medial Form
ZWJ+183A	ᠬ (x_)	Final Form
183B (xx_)	ᠬ	MONGOLIAN LETTER KHA ^ᶜ
183B+ZWJ	ᠬ (xx_)	Initial Form
ZWJ+183B+ZWJ	ᠬ (xx_)	Medial Form
ZWJ+183B	ᠬ (xx_)	Final Form
183C (x_)	ᠬ	MONGOLIAN LETTER TSA
183C+ZWJ	ᠬ (x_)	Initial Form
ZWJ+183C+ZWJ	ᠬ (x_)	Medial Form
ZWJ+183C	ᠬ (x_)	Final Form
183D (x_)	ᠬ	MONGOLIAN LETTER ZA
183D+ZWJ	ᠬ (x_)	Initial Form
ZWJ+183D+ZWJ	ᠬ (x_)	Medial Form
ZWJ+183D	ᠬ (x_)	Final Form
183E (x_)	ᠬ	MONGOLIAN LETTER HAA
183E+ZWJ	ᠬ (x_)	Initial Form
ZWJ+183E+ZWJ	ᠬ (x_)	Medial Form
ZWJ+183E	ᠬ (x_)	Final Form
183F (x_)	ᠬ	MONGOLIAN LETTER ZRA
183F+ZWJ	ᠬ (x_)	Initial Form
ZWJ+183F+ZWJ	ᠬ (x_)	Medial Form
ZWJ+183F	ᠬ (x_)	Final Form
1840 (xx_)	ᠬ	MONGOLIAN LETTER LHA
1840+ZWJ	ᠬ (xx_)	Initial Form
ZWJ+1840+ZWJ	ᠬ (xx_)	Medial Form
ZWJ+1840	ᠬ (x_)	Final Form

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

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

Todo Letters

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

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

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

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

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

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

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

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

184A	(x_)	ᠨ	MONGOLIAN LETTER TODO ANG ^᠑
184A		ᠨ ()	<i>Isolate Form</i>
184A+ZWJ		ᠨ ()	<i>Initial Form</i>
ZWJ+184A+ZWJ		ᠨ (x_)	<i>Medial Form</i>
ZWJ+184A		ᠨ (x_)	<i>Final Form</i>

184B	(x_)	ᠪ	MONGOLIAN LETTER TODO BA ^᠑
184B		ᠪ ()	<i>Isolate Form</i>
184B+ZWJ		ᠪ (x_)	<i>Initial Form</i>
ZWJ+184B+ZWJ		ᠪ (x_)	<i>Medial Form</i>
ZWJ+184B		ᠪ (x_)	<i>Final Form</i>

184C	(x_)	ᠮ	MONGOLIAN LETTER TODO PA ^᠑
184C+ZWJ		ᠮ (x_)	<i>Initial Form</i>
ZWJ+184C+ZWJ		ᠮ (x_)	<i>Medial Form</i>
ZWJ+184C		ᠮ (x_)	<i>Final Form</i>

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

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

184F	(x_)	ᠮ	MONGOLIAN LETTER TODO MA ^᠑
184F		ᠮ ()	<i>Isolate Form</i>
184F+ZWJ		ᠮ (x_)	<i>Initial Form</i>
ZWJ+184F+ZWJ		ᠮ (x_)	<i>Medial Form</i>
ZWJ+184F		ᠮ (x_)	<i>Final Form</i>

1850	(x_)	ᠲ	MONGOLIAN LETTER TODO TA
1850+ZWJ		ᠲ (x_)	<i>Initial Form</i>
ZWJ+1850+ZWJ		ᠲ (x_)	<i>Medial Form</i>
ZWJ+1850		ᠲ (x_)	<i>Final Form</i>
1851	(x_)	ᠳ	MONGOLIAN LETTER TODO DA
1851+ZWJ		ᠳ (x_)	<i>Initial Form</i>
ZWJ+1851+ZWJ		ᠳ (x_)	<i>Medial Form</i>
ZWJ+1851		ᠳ (x_)	<i>Final Form</i>
1852	(x_)	ᠴ	MONGOLIAN LETTER TODO CHA
1852+ZWJ		ᠴ (x_)	<i>Initial Form</i>
ZWJ+1852+ZWJ		ᠴ (x_)	<i>Medial Form</i>
ZWJ+1852		ᠴ (x_)	<i>Final Form</i>
1853	(xx_)	ᠵ	MONGOLIAN LETTER TODO JA
1853+ZWJ		ᠵ (xx_)	<i>Initial Form</i>
ZWJ+1853+ZWJ		ᠵ (xx_)	<i>Medial Form</i>
ZWJ+1853		ᠵ (x_)	<i>Final Form</i>
1854	(x_)	ᠶ	MONGOLIAN LETTER TODO TSA
1854+ZWJ		ᠶ (x_)	<i>Initial Form</i>
ZWJ+1854+ZWJ		ᠶ (x_)	<i>Medial Form</i>
ZWJ+1854		ᠶ (x_)	<i>Final Form</i>
1855		ᠷ	MONGOLIAN LETTER TODO YA
1855+ZWJ		ᠷ (x_)	<i>Initial Form</i>
ZWJ+1855+ZWJ		ᠷ (x_)	<i>Medial Form</i>
ZWJ+1855		ᠷ (x_)	<i>Final Form</i>
1856	(x_)	ᠸ	MONGOLIAN LETTER TODO WA
1856+ZWJ		ᠸ (x_)	<i>Initial Form</i>
ZWJ+1856+ZWJ		ᠸ (x_)	<i>Medial Form</i>
ZWJ+1856		ᠸ (x_)	<i>Final Form</i>
1857	(x_)	ᠨ	MONGOLIAN LETTER TODO KA ^s
1857+ZWJ		ᠨ (x_)	<i>Initial Form</i>
ZWJ+1857+ZWJ		ᠨ (x_)	<i>Medial Form</i>
ZWJ+1857		ᠨ (x_)	<i>Final Form</i>
1858	(xx_)	ᠯ	MONGOLIAN LETTER TODO GAA ^s
1858+ZWJ		ᠯ (xx_)	<i>Initial Form</i>
ZWJ+1858+ZWJ		ᠯ (xx_)	<i>Medial Form</i>
ZWJ+1858		ᠯ (x_)	<i>Final Form</i>
1859	(x_)	ᠭ	MONGOLIAN LETTER TODO HAA [%]
1859		ᠭ (x_)	<i>Isolate Form</i>
1859+ZWJ		ᠭ (x_)	<i>Initial Form</i>
ZWJ+1859+ZWJ		ᠭ (x_)	<i>Medial Form</i>
ZWJ+1859		ᠭ (x_)	<i>Final Form</i>

185A	(x_)	ᠳ	MONGOLIAN LETTER TODO JIA
185A+ZWJ		ᠳ (x_)	<i>Initial Form</i>
ZWJ+185A+ZWJ		ᠳ (x_)	<i>Medial Form</i>
ZWJ+185A		ᠳ (x_)	<i>Final Form</i>
185B	(xx_)	ᠳ	MONGOLIAN LETTER TODO NIA
185B+ZWJ		ᠳ (xx_)	<i>Initial Form</i>
ZWJ+185B+ZWJ		ᠳ (xx_)	<i>Medial Form</i>
ZWJ+185B		ᠳ (xx_)	<i>Final Form</i>
185C	(xx_)	ᠳ	MONGOLIAN LETTER TODO DZA
185C+ZWJ		ᠳ (xx_)	<i>Initial Form</i>
ZWJ+185C+ZWJ		ᠳ (xx_)	<i>Medial Form</i>
ZWJ+185C		ᠳ (xx_)	<i>Final Form</i>
Sibe Letters			
185D	(_xx)	ᠳ	MONGOLIAN LETTER SIBE E [%]
185D		ᠳ (x_)	<i>Isolate Form</i>
185D+ZWJ		ᠳ (xx)	<i>Initial Form</i>
ZWJ+185D+ZWJ		ᠳ (xx)	<i>First Medial Form</i>
ZWJ+185D+FVS1+ZWJ		ᠳ (xx)	<i>Second Medial Form</i>
ZWJ+185D		ᠳ (xx)	<i>First Final Form</i>
ZWJ+185D+FVS1		ᠳ (xx)	<i>Second Final Form</i>
185E	(x_)	ᠳ	MONGOLIAN LETTER SIBE I [%]
185E		ᠳ (x_)	<i>Isolate Form</i>
185E+ZWJ		ᠳ (x_)	<i>Initial Form</i>
ZWJ+185E+ZWJ		ᠳ (x_)	<i>First Medial Form</i>
ZWJ+185E+FVS1+ZWJ		ᠳ (x_)	<i>Second Medial Form</i>
ZWJ+185E+FVS2+ZWJ		ᠳ (x_)	<i>Third Medial Form</i>
ZWJ+185E		ᠳ (x_)	<i>First Final Form</i>
			<small>(also implemented with NNBSF - actually processed as isolate in accusative suffix)</small>
ZWJ+185E+FVS1		ᠳ (x_)	<i>Second Final Form</i>
ZWJ+185E+FVS2		ᠳ (x_)	<i>Third Final Form</i>
185F	(_xx)	ᠳ	MONGOLIAN LETTER SIBE IY
185F+ZWJ		ᠳ (x_)	<i>Initial Form</i>
ZWJ+185F+ZWJ		ᠳ (xx)	<i>Medial Form</i>
ZWJ+185F		ᠳ (xx)	<i>Final Form</i>
1860	(_xx)	ᠳ	MONGOLIAN LETTER SIBE UE
1860+ZWJ		ᠳ (xx)	<i>Initial Form</i>
ZWJ+1860+ZWJ		ᠳ (xx)	<i>First Medial Form</i>
ZWJ+1860+FVS1+ZWJ		ᠳ (xx)	<i>Second Medial Form</i>
ZWJ+1860		ᠳ (xx)	<i>First Final Form</i>
ZWJ+1860+FVS1		ᠳ (xx)	<i>Second Final Form</i>

		(context-driven)	
ZWJ+1860+FVS2	ᠪ	(_xx)	<i>Third Final Form</i>
		(context-driven)	
1861	ᠪ	(_xx)	MONGOLIAN LETTER SIBE U [%]
1861	ᠪ	(_x)	<i>Isolate Form</i>
1861+ZWJ	ᠪ	(_x)	<i>Initial Form</i>
ZWJ+1861+ZWJ	ᠪ	(_xx)	<i>Medial Form</i>
ZWJ+1861	ᠪ	(_xx)	<i>Final Form</i>
1862	ᠮ	(_x)	MONGOLIAN LETTER SIBE ANG [%]
1862	ᠮ	(_)	<i>Isolate Form</i>
1862+ZWJ	ᠮ	(_)	<i>Initial Form</i>
ZWJ+1862+ZWJ	ᠮ	(_x)	<i>Medial Form</i>
ZWJ+1862	ᠮ	(_x)	<i>Final Form</i>
1863	ᠬ	(_x)	MONGOLIAN LETTER SIBE KA [%]
1863	ᠬ	(_x)	<i>First Isolate Form</i>
1863+FVS1	ᠬ	(_x)	<i>Second Isolate Form*</i>
1863+ZWJ	ᠬ	(_x)	<i>Initial Form</i>
ZWJ+1863+ZWJ	ᠬ	(_x)	<i>First Medial Form</i>
ZWJ+1863+FVS1+ZWJ	ᠬ	(_x)	<i>Second Medial Form</i>
		(context-driven)	
ZWJ+1863	ᠬ	(_x)	<i>Final Form</i>
1864	ᠭ	(_xx)	MONGOLIAN LETTER SIBE GA
1864+FVS1	ᠭ	(_xx)	<i>Second Isolate Form*</i>
1864+ZWJ	ᠭ	(_xx)	<i>Initial Form</i>
ZWJ+1864+ZWJ	ᠭ	(_xx)	<i>Medial Form</i>
ZWJ+1864	ᠭ	(_)	<i>Final Form</i>
1865	ᠬ	(_xx)	MONGOLIAN LETTER SIBE HA
1865+FVS1	ᠬ	(_xx)	<i>Second Isolate Form*</i>
1865+ZWJ	ᠬ	(_xx)	<i>Initial Form</i>
ZWJ+1865+ZWJ	ᠬ	(_xx)	<i>Medial Form</i>
ZWJ+1865	ᠬ	(_)	<i>Final Form</i>
1866	ᠮ	(_xx)	MONGOLIAN LETTER SIBE PA ⁵
1866+ZWJ	ᠮ	(_xx)	<i>Initial Form</i>
ZWJ+1866+ZWJ	ᠮ	(_xx)	<i>Medial Form</i>
ZWJ+1866	ᠮ	(_)	<i>Final Form</i>
1867	ᠰ	(_xx)	MONGOLIAN LETTER SIBE SHA
1867+ZWJ	ᠰ	(_xx)	<i>Initial Form</i>
ZWJ+1867+ZWJ	ᠰ	(_xx)	<i>Medial Form</i>
ZWJ+1867	ᠰ	(_x)	<i>Final Form</i>
1868	ᠲ	(_xx)	MONGOLIAN LETTER SIBE TA
1868+ZWJ	ᠲ	(_xx)	<i>First Initial Form</i>
1868+FVS1+ZWJ	ᠲ	(_xx)	<i>Second Initial Form</i>
		(context-driven)	
ZWJ+1868+ZWJ	ᠲ	(_xx)	<i>First Medial Form</i>

ZWJ+1868+FVS1+ZWJ	ᠳ	(_xx)	<i>Second Medial Form</i>
		(context-driven)	
ZWJ+1868+FVS2+ZWJ	ᠳ	(_xx)	<i>Third Medial Form</i>
		(no context currently – more research needed here)	
ZWJ+1868	ᠳ	(_xx)	<i>Final Form</i>
1869	ᠳ	(_xx)	MONGOLIAN LETTER SIBE DA
1869+ZWJ	ᠳ	(_xx)	<i>First Initial Form</i>
1869+FVS1+ZWJ	ᠳ	(_xx)	<i>Second Initial Form</i>
		(context-driven and also NNBSBP)	
ZWJ+1869+ZWJ	ᠳ	(_xx)	<i>First Medial Form</i>
ZWJ+1869+FVS1+ZWJ	ᠳ	(_xx)	<i>Second Medial Form</i>
		(context-driven)	
ZWJ+1869	ᠳ	(_)	<i>Final Form</i>
186A	ᠵ	(_x)	MONGOLIAN LETTER SIBE JA
186A+ZWJ	ᠵ	(_x)	<i>Initial Form</i>
ZWJ+186A+ZWJ	ᠵ	(_x)	<i>Medial Form</i>
ZWJ+186A	ᠵ	(_)	<i>Final Form</i>
186B	ᠶ	(_x)	MONGOLIAN LETTER SIBE FA
186B+ZWJ	ᠶ	(_x)	<i>Initial Form</i>
ZWJ+186B+ZWJ	ᠶ	(_x)	<i>Medial Form</i>
ZWJ+186B	ᠶ	(_)	<i>Final Form</i>
186C	ᠷ	(_x)	MONGOLIAN LETTER SIBE GAA ⁵
186C+ZWJ	ᠷ	(_x)	<i>Initial Form</i>
ZWJ+186C+ZWJ	ᠷ	(_x)	<i>Medial Form</i>
ZWJ+186C	ᠷ	(_)	<i>Final Form</i>
186D	ᠸ	(_x)	MONGOLIAN LETTER SIBE HAA ⁵
186D+ZWJ	ᠸ	(_x)	<i>Initial Form</i>
ZWJ+186D+ZWJ	ᠸ	(_x)	<i>Medial Form</i>
ZWJ+186D	ᠸ	(_)	<i>Final Form</i>
186E	ᠹ	(_xx)	MONGOLIAN LETTER SIBE TSA
186E+ZWJ	ᠹ	(_xx)	<i>Initial Form</i>
ZWJ+186E+ZWJ	ᠹ	(_xx)	<i>Medial Form</i>
ZWJ+186E	ᠹ	(_xx)	<i>Final Form</i>
186F	ᠺ	(_xx)	MONGOLIAN LETTER SIBE ZA
186F+ZWJ	ᠺ	(_xx)	<i>First Initial Form</i>
186F+FVS1+ZWJ	ᠺ	(_xx)	<i>Second Initial Form</i>
		(context-driven)	
ZWJ+186F+ZWJ	ᠺ	(_xx)	<i>First Medial Form</i>
ZWJ+186F+FVS1+ZWJ	ᠺ	(_xx)	<i>Second Medial Form</i>
		(context-driven)	
ZWJ+186F	ᠺ	(_xx)	<i>Final Form</i>
1870	ᠻ	(_xx)	MONGOLIAN LETTER SIBE RAA
1870+ZWJ	ᠻ	(_xx)	<i>Initial Form</i>
ZWJ+1870+ZWJ	ᠻ	(_xx)	<i>Medial Form</i>
ZWJ+1870	ᠻ	(_xx)	<i>Final Form</i>

1871	(<u>xx</u>)	ᠠ᠋ᠣ	MONGOLIAN LETTER SIBE CHA
1871+ZWJ		ᠠ᠋ᠣ (<u>xx</u>)	<i>Initial Form</i>
ZWJ+1871+ZWJ		ᠠ᠋ᠣ (<u>xx</u>)	<i>Medial Form</i>
ZWJ+1871		ᠠ᠋ᠣ ()	<i>Final Form</i>

1872	(<u>x</u>)	ᠠ᠋ᠵᠣ	MONGOLIAN LETTER SIBE ZHA
1872+ZWJ		ᠠ᠋ᠵᠣ (<u>x</u>)	<i>Initial Form</i>
ZWJ+1872+ZWJ		ᠠ᠋ᠵᠣ (<u>x</u>)	<i>Medial Form</i>
ZWJ+1872		ᠠ᠋ᠵᠣ ()	<i>Final Form</i>

Manchu Letters

1873	(<u>x</u>)	ᠠ᠋ᠮᠠ	MONGOLIAN LETTER MANCHU I [%]
1873		ᠠ᠋ᠮᠠ (<u>x</u>)	<i>Isolate Form</i>
1873+ZWJ		ᠠ᠋ᠮᠠ (<u>x</u>)	<i>Initial Form</i>
ZWJ+1873+ZWJ		ᠠ᠋ᠮᠠ (<u>x</u>)	<i>First Medial Form</i>
ZWJ+1873+FVS1+ZWJ		ᠠ᠋ᠮᠠ (<u>x</u>)	<i>Second Medial Form</i> <small>(context-driven)</small>
ZWJ+1873+FVS2+ZWJ		ᠠ᠋ᠮᠠ (<u>x</u>)	<i>Third Medial Form</i>
ZWJ+1873+FVS3+ZWJ		ᠠ᠋ᠮᠠ (<u>x</u>)	<i>Fourth Medial Form</i>
ZWJ+1873		ᠠ᠋ᠮᠠ (<u>x</u>)	<i>First Final Form</i> <small>(also implemented with NNBSF actually processed as isolate in accusative suffix)</small>
ZWJ+1873+FVS1		ᠠ᠋ᠮᠠ (<u>x</u>)	<i>Second Final Form</i>
ZWJ+1873+FVS2		ᠠ᠋ᠮᠠ (<u>x</u>)	<i>Third Final Form</i>
ZWJ+1873+FVS3		ᠠ᠋ᠮᠠ (<u>x</u>)	<i>Fourth Final Form</i> <small>(context-driven)</small>

1874	(<u>x</u>)	ᠠ᠋ᠨᠠ	MONGOLIAN LETTER MANCHU KA [%]
1874		ᠠ᠋ᠨᠠ (<u>x</u>)	<i>First Isolate Form</i>
1874+FVS1		ᠠ᠋ᠨᠠ (<u>x</u>)	<i>Second Isolate Form</i>
1874+ZWJ		ᠠ᠋ᠨᠠ (<u>x</u>)	<i>Initial Form</i>
ZWJ+1874+ZWJ		ᠠ᠋ᠨᠠ (<u>x</u>)	<i>First Medial Form</i>
ZWJ+1874+FVS1+ZWJ		ᠠ᠋ᠨᠠ (<u>x</u>)	<i>Second Medial Form</i> <small>(context-driven)</small>
ZWJ+1874+FVS2+ZWJ		ᠠ᠋ᠨᠠ (<u>x</u>)	<i>Third Medial Form</i> <small>(context-driven)</small>
ZWJ+1874+FVS3+ZWJ		ᠠ᠋ᠨᠠ (<u>x</u>)	<i>Fourth Medial Form</i>
ZWJ+1874		ᠠ᠋ᠨᠠ (<u>x</u>)	<i>First Final Form</i>
ZWJ+1874+FVS1		ᠠ᠋ᠨᠠ (<u>x</u>)	<i>Second Final Form</i> <small>(context-driven)</small>
ZWJ+1874+FVS2		ᠠ᠋ᠨᠠ (<u>x</u>)	<i>Third Final Form</i>

1875	(<u>x</u>)	ᠠ᠋ᠷᠠ	MONGOLIAN LETTER MANCHU RA [%]
1875		ᠠ᠋ᠷᠠ ()	<i>Isolate Form</i>
1875+ZWJ		ᠠ᠋ᠷᠠ (<u>x</u>)	<i>Initial Form</i>
ZWJ+1875+ZWJ		ᠠ᠋ᠷᠠ (<u>x</u>)	<i>Medial Form</i>
ZWJ+1875		ᠠ᠋ᠷᠠ (<u>x</u>)	<i>Final Form</i>

1876	(<u>x</u>)	ᠠ᠋ᠹᠠ	MONGOLIAN LETTER MANCHU FA [%]
1876		ᠠ᠋ᠹᠠ ()	<i>Isolate Form</i>
1876+ZWJ		ᠠ᠋ᠹᠠ (<u>x</u>)	<i>First Initial Form</i>
1876+FVS1+ZWJ		ᠠ᠋ᠹᠠ (<u>x</u>)	<i>Second Initial Form</i>

ZWJ+1876+ZWJ		ᠠ᠋ᠹᠠ (<u>x</u>)	<i>First Medial Form</i> <small>(context-driven)</small>
ZWJ+1876+FVS1+ZWJ		ᠠ᠋ᠹᠠ (<u>x</u>)	<i>Second Medial Form</i> <small>(context-driven)</small>
ZWJ+1876		ᠠ᠋ᠹᠠ ()	<i>Final Form</i>

1877	(<u>x</u>)	ᠠ᠋ᠵᠠ	MONGOLIAN LETTER MANCHU ZHA
1877+ZWJ		ᠠ᠋ᠵᠠ (<u>x</u>)	<i>Initial Form</i>
ZWJ+1877+ZWJ		ᠠ᠋ᠵᠠ (<u>x</u>)	<i>Medial Form</i>
ZWJ+1877		ᠠ᠋ᠵᠠ ()	<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)	ᠠ᠋ᠣ	MONGOLIAN LETTER ALI GALI ANUSVARA
1880+FVS1		ᠠ᠋ᠣ (xx_x)	<i>Second Form</i>

1881	(xx_x)	ᠠ᠋ᠵᠠ	MONGOLIAN LETTER ALI GALI VISARGA ONE
1881+FVS1		ᠠ᠋ᠵᠠ (xx_x)	<i>Second Form</i>

1882	(xx_x)	ᠠ᠋ᠮᠠ	MONGOLIAN LETTER ALI GALI DAMARU
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1883	(xx_x)	ᠠ᠋ᠨᠠ	MONGOLIAN LETTER ALI GALI UBADAMA
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1884	(xx_x)	ᠠ᠋ᠨᠠ	MONGOLIAN LETTER ALI GALI INVERTED UBADAMA
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1887	(xx_x)	ᠠ᠋ᠨᠠ	MONGOLIAN LETTER ALI GALI A
1887+ZWJ		ᠠ᠋ᠨᠠ ()	<i>Initial Form</i>
ZWJ+1887+ZWJ		ᠠ᠋ᠨᠠ ()	<i>Medial Form</i>
ZWJ+1887		ᠠ᠋ᠨᠠ (x_x)	<i>First Final Form</i>
ZWJ+1887+FVS1		ᠠ᠋ᠨᠠ (x_x)	<i>Second Final Form</i>
ZWJ+1887+FVS2		ᠠ᠋ᠨᠠ (xx_x)	<i>Third Final Form</i>
ZWJ+1887+FVS3		ᠠ᠋ᠨᠠ (xx_x)	<i>Fourth Final Form</i>
ZWJ+1887+FVS4		ᠠ᠋ᠨᠠ (x_x)	<i>Fifth Final Form</i>

1888	(x_x)	ᠠ᠋ᠨᠠ	MONGOLIAN LETTER ALI GALI I
1888+ZWJ		ᠠ᠋ᠨᠠ ()	<i>Initial Form</i>
ZWJ+1888+ZWJ		ᠠ᠋ᠨᠠ (x_x)	<i>First Medial Form</i>
ZWJ+1888+ZWJ+FVS1		ᠠ᠋ᠨᠠ (x_x)	<i>Second Medial Form</i> <small>(context-driven) (research needed here on purpose of shorter form)</small>
ZWJ+1888		ᠠ᠋ᠨᠠ (x_x)	<i>First Final Form</i>
ZWJ+1888+FVS1		ᠠ᠋ᠨᠠ (x_x)	<i>Second Final Form</i> <small>(context-driven)</small>

1889	(xx_x)	ᠠ᠋ᠨᠠ	MONGOLIAN LETTER ALI GALI KA ⁺
1889+ZWJ		ᠠ᠋ᠨᠠ (xx_x)	<i>Initial Form</i>

ZWJ+1889+ZWJ	᠋ ()	<i>Medial Form</i>	1893 (xx_)	᠋	MONGOLIAN LETTER ALI GALI PHA ^S
ZWJ+1889	᠋ ()	<i>Final Form</i>	1893+ZWJ	᠋ (x_)	<i>Initial Form</i>
188A (xx_) ᠋		MONGOLIAN LETTER ALI GALI NGA	ZWJ+1893+ZWJ	᠋ ()	<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_) ᠋		MONGOLIAN LETTER ALI GALI SSA
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_) ᠋		MONGOLIAN LETTER ALI GALI ZHA
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	᠋ ()	<i>Medial Form</i>
ZWJ+188B	᠋ ()	<i>Final Form</i>	ZWJ+1895	᠋ ()	<i>Final Form</i>
188C (xx_) ᠋		MONGOLIAN LETTER ALI GALI TTA	1896 (xx_) ᠋		MONGOLIAN LETTER ALI GALI ZA
188C+ZWJ	᠋ (x_)	<i>Initial Form</i>	1896+ZWJ	᠋ (xx_)	<i>Initial Form</i>
ZWJ+188C+ZWJ	᠋ ()	<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 (xx_) ᠋		MONGOLIAN LETTER ALI GALI TTHA	1897 (xx_) ᠋		MONGOLIAN LETTER ALI GALI AH
188D+ZWJ	᠋ (x_)	<i>Initial Form</i>	1897+ZWJ	᠋ (x_)	<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	᠋ (x_)	<i>Initial Form</i>	1898+ZWJ	᠋ (x_)	<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	᠋ (x_)	<i>Initial Form</i>	1899+ZWJ	᠋ (x_)	<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 GHA
1890+ZWJ	᠋ (x_)	<i>Initial Form</i>	189A+ZWJ	᠋ (x_)	<i>Initial Form</i>
ZWJ+1890+ZWJ	᠋ ()	<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_) ᠋		MONGOLIAN LETTER MANCHU ALI GALI NGA
1891+ZWJ	᠋ (x_)	<i>Initial Form</i>	189B+ZWJ	᠋ (x_)	<i>Initial Form</i>
ZWJ+1891+ZWJ	᠋ ()	<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 (xx_x) ᠋		MONGOLIAN LETTER ALI GALI PA ^S	189C (x_) ᠋		MONGOLIAN LETTER MANCHU ALI GALI CA
1892+ZWJ	᠋ (x_)	<i>Initial Form</i>	189C+ZWJ	᠋ (x_)	<i>Initial Form</i>
ZWJ+1892+ZWJ	᠋ ()	<i>Medial Form</i>	ZWJ+189C+ZWJ	᠋ (x_)	<i>Medial Form</i>
ZWJ+1892	᠋ ()	<i>Final Form</i>	ZWJ+189C	᠋ ()	<i>Final Form</i>

189D (_x) 𐠣	MONGOLIAN LETTER MANCHU ALI GALI JHA	18A6 (xx_) 𐠣	MONGOLIAN LETTER ALI GALI HALF U
189D+ZWJ 𐠣 (_x) <i>Initial Form</i>		18A6+ZWJ 𐠣 (_x) <i>Initial Form</i>	
ZWJ+189D+ZWJ 𐠣 (_x) <i>Medial Form</i>		ZWJ+18A6+ZWJ 𐠣 (_) <i>Medial Form</i>	
ZWJ+189D 𐠣 (_) <i>Final Form</i>		ZWJ+18A6 𐠣 (_) <i>Final Form</i>	
189E (_x) 𐠣	MONGOLIAN LETTER MANCHU ALI GALI TTA	18A7 (xx_x) 𐠣	MONGOLIAN LETTER ALI GALI HALF YA
189E+ZWJ 𐠣 (_x) <i>Initial Form</i>		18A7+ZWJ 𐠣 (_x) <i>Initial Form</i>	
ZWJ+189E+ZWJ 𐠣 (_x) <i>Medial Form</i>		ZWJ+18A7+ZWJ 𐠣 (_) <i>Medial Form</i>	
ZWJ+189E 𐠣 (_) <i>Final Form</i>		ZWJ+18A7 𐠣 (_) <i>Final Form</i>	
189F (_x) 𐠣	MONGOLIAN LETTER MANCHU ALI GALI DDHA	18A8 (_x) 𐠣	MONGOLIAN LETTER MANCHU ALI GALI BHA
189F+ZWJ 𐠣 (_x) <i>Initial Form</i>		18A8+ZWJ 𐠣 (_x) <i>Initial Form</i>	
ZWJ+189F+ZWJ 𐠣 (_x) <i>Medial Form</i>		ZWJ+18A8+ZWJ 𐠣 (_) <i>Medial Form</i>	
ZWJ+189F 𐠣 (_) <i>Final Form</i>		ZWJ+18A8 𐠣 (_) <i>Final Form</i>	
18A0 (_x) 𐠣	MONGOLIAN LETTER MANCHU ALI GALI TA	18AA (_x) 𐠣	MONGOLIAN LETTER MANCHU ALI GALI LHA
18A0+ZWJ 𐠣 (_x) <i>Frst Initial Form</i>		18AA+ZWJ 𐠣 (_x) <i>Initial Form</i>	
18A0+FVS1+ZWJ 𐠣 (_x) <i>Second Initial Form</i>	(context-driven)	ZWJ+18AA+ZWJ 𐠣 (_x) <i>Medial Form</i>	
ZWJ+18A0+ZWJ 𐠣 (_x) <i>First Medial Form</i>		ZWJ+18AA 𐠣 (_) <i>Final Form</i>	
ZWJ+18A0+FVS1+ZWJ 𐠣 (_x) <i>Second Medial Form</i>	(context-driven)		
ZWJ+18A0 𐠣 (_) <i>Final Form</i>			
18A1 (_x) 𐠣	MONGOLIAN LETTER MANCHU ALI GALI DHA		
18A1+ZWJ 𐠣 (_x) <i>First Initial Form</i>			
18A1+FVS1+ZWJ 𐠣 (_) <i>Second Initial Form</i>	(context-driven)		
ZWJ+18A1+ZWJ 𐠣 (_x) <i>First Medial Form</i>			
ZWJ+18A1+FVS1+ZWJ 𐠣 (_) <i>Second Medial Form</i>	(context-driven)		
ZWJ+18A1 𐠣 (_) <i>Final Form</i>			
18A2 (_x) 𐠣	MONGOLIAN LETTER MANCHU ALI GALI SSA		
18A2+ZWJ 𐠣 (_x) <i>Initial Form</i>			
ZWJ+18A2+ZWJ 𐠣 (_x) <i>Medial Form</i>			
ZWJ+18A2 𐠣 (_) <i>Final Form</i>			
18A3 (_x) 𐠣	MONGOLIAN LETTER MANCHU ALI GALI C YA		
18A3+ZWJ 𐠣 (_x) <i>Initial Form</i>			
ZWJ+18A3+ZWJ 𐠣 (_x) <i>Medial Form</i>			
ZWJ+18A3 𐠣 (_) <i>Final Form</i>			
18A4 (_x) 𐠣	MONGOLIAN LETTER MANCHU ALI GALI ZHA		
18A4+ZWJ 𐠣 (_x) <i>Initial Form</i>			
ZWJ+18A4+ZWJ 𐠣 (_x) <i>Medial Form</i>			
ZWJ+18A4 𐠣 (_) <i>Final Form</i>			
18A5 (_x) 𐠣	MONGOLIAN LETTER MANCHU ALI GALI ZA		
18A5+ZWJ 𐠣 (_x) <i>Initial Form</i>			
ZWJ+18A5+ZWJ 𐠣 (_x) <i>Medial Form</i>			
ZWJ+18A5 𐠣 (_) <i>Final Form</i>			