

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)

December 16, 2016 (Greg Eck - greyson@postone.net)

TARGET AUDIENCE: Font developers

OBJECTIVE: Full specification of Mongolian/Todo/Sibe/Manchu/AliGali script base forms, positional forms, and variant forms. It should be noted that full specification of implementation logic is beyond the scope of this paper. It should be noted that the emphasis of this paper is stand-alone text rather than running text. However, all running text forms, aside from ligatures should be found here. This paper is not meant to be a replacement for the Chinese Standard nor the Ulaanbaatar Mongolian Standard. It is derived from these two standards. Suggestions such as in the yellow/violet highlighting is derived from external discussions such as the Unicode Forum.

LEGEND

The first line of a given character section will always give the Unicode form. If the Unicode form matches the main isolate form, then there will be no line for the isolate and it will be understood that the first line of a section also gives the main isolate form. Given this situation along with there being another isolate, the second line will define the second isolate. Given the rare case where the Unicode presentation form is not the isolate (1824, 1826, 184A, 184B, 184F, 1859, 185D, 185E, 1861, 1862, 1863, 1873, 1874, 1875, 1876), the first line will define the Unicode form as already stated, the second line will define the main isolate (termed the first isolate), the second line and following will define additional potential isolates.

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

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

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

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

There are 13 such cases.

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

Yellow highlighting denotes a difference from the Chinese Delegation (WG2#65)



Purple highlighting indicates a proposal for a new FVS assignment

Blue highlighting notes a need for refinement or just additional information

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

Punctuation		Marks	
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
<i>NOTE: A Mongolian vertical font should also the following punctuation ...</i>			
1885	(xx_x)	᠋	MONGOLIAN LETTER ALI GALI BALUDA (this is not a letter – it is a diacritic mark)
1886	(xx_x)	᠋	MONGOLIAN LETTER ALI GALI THREE BALUDA (this is not a letter – it is a diacritic mark)
18A9	(x__)	᠋	MONGOLIAN LETTER ALI GALI DAGALGA (this is not a letter – it is a diacritic mark)
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

Format Characters











180E	(xxxx)		MONGOLIAN VOWEL SEPARATOR (or ... Mongolian Tsatslag Connector)
180F	(xxxx)		MONGOLIAN SUFFIX CONNECTOR

Proposal #1 Graphic should read MSC for Mongolian Suffix Connector

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) through VS05 (U+FE04).

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_)		MONGOLIAN DIGIT EIGHT
1819	(xx_)		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)		MONGOLIAN SIBE SYLLABLE BOUNDARY MARKER
1807+ZWJ	(_)		Initial Form
ZWJ+1807+ZWJ	(_xx)'		Medial Form
ZWJ+1807	(_)		Final Form

The question has been raised as to whether this character might be more broadly used than just in Sibe and Manchu. Included with the letters, although it is not a letter, as well it is not a diacritic mark, it is a marker, and it is implemented as a letter.






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

STATUS: Included in Chinese Proposal – WG2#65
Included with the letters, although it is not a letter, it is implemented as a letter.



1820	(xxxx)		MONGOLIAN LETTER A
1820+FVS1	(xx_)		Second Isolate Form
1820+ZWJ	(xxxx)		First Initial Form
ZWJ+1820+ZWJ	(xxxx)		First Medial Form
ZWJ+1820+FVS1+ZWJ	(xx_)		Second Medial Form ^ε
ZWJ+1820+FVS2+ZWJ	(xx_)		Third Medial Form

ZWJ+1820	(xxxx)		First Final Form
ZWJ+1820+FVS1	(xx_)		Second Final Form






(only implemented with NNBS - actually - processed as initial in ACA suffix)
(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_)		MONGOLIAN LETTER E
1821+ZWJ	(x_)		First Initial Form
1821+FVS1+ZWJ	(x_)		Second Initial Form ^ε
ZWJ+1821+ZWJ	(x_)		First Medial Form
ZWJ+1821+FVS1+ZWJ	(x_)		Second Medial Form


STATUS: Included in Chinese Proposal – WG2#65
(only implemented with NNBS - actually - processed as initial in ECA suffix)

ZWJ+1821	(x_)		First Final Form
ZWJ+1821+FVS1	(x_)		Second Final Form




(identical with comments on U+1820 Second Final)

1822	(x_)		MONGOLIAN LETTER I
1822+ZWJ	(x_)		Initial Form
ZWJ+1822+ZWJ	(x_)		First Medial Form
ZWJ+1822+FVS1+ZWJ	(x_)		Second Medial Form ^ε
ZWJ+1822+FVS2+ZWJ	(x_)		Third Medial Form







STATUS: Included in Chinese Proposal – WG2#65
(also implemented with NNBS - actually processed as initial with instrumental suffix)

ZWJ+1822+FVS3+ZWJ	(x_)		Fourth Medial Form
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

STATUS: Discussion needed
(context-driven)

ZWJ+1822	(x_)		First Final Form
ZWJ+1822+FVS1	(x_)		Second Final Form
ZWJ+1822+FVS2	(x_)		Second Final Form

STATUS: Included in Chinese Proposal – WG2#65 – pending discussion
(needed to over-ride default context (NAI+FVS2+MA))
(also implemented with NNBS - actually processed as isolate in accusative suffix)
(only implemented with NNBS)

1823	(x_xx)		MONGOLIAN LETTER O
1823+ZWJ	(x_xx)		Initial Form
ZWJ+1823+ZWJ	(x_xx)		First Medial Form
ZWJ+1823+FVS1+ZWJ	(x_)		Second Medial Form ^ε
ZWJ+1823	(x_xx)		First Final Form
ZWJ+1823+FVS1	(x_xx)		Second Final Form ^ε

(context-driven – add in Baiti)

1824	(x_)		MONGOLIAN LETTER U
1824	(x_)		First Isolate Form
1824+FVS1	(_)		Second Isolate Form
1824+ZWJ	(x_)		Initial Form [%]
ZWJ+1824+ZWJ	(x_)		First Medial Form
ZWJ+1824+FVS1+ZWJ	(x_)		Second Medial Form ^ε
ZWJ+1824	(x_)		First Final Form
ZWJ+1824+FVS1	(x_)		Second Final Form ^ε

STATUS: Included in Chinese Proposal – WG2#65
(NOTE: this is the Unicode presentation form)
(also implemented with NNBS - actually processed as initial in genitive suffix)
(also implemented with NNBS - actually processed as isolate in genitive suffix)
(context-driven – add in Baiti)

ZWJ+1824+FVS2	ᠳ (x_)	Third Final Form
<small>STATUS: Included in Chinese Proposal – WG2#65</small>		
<small>(only implemented with NNBSF ; actually processed as isolate in genitive suffix)</small>		
1825 (x_)	ᠳ	MONGOLIAN LETTER OE
1825+ZWJ	ᠳ (x_)	Initial Form
ZWJ+1825+ZWJ	ᠳ (x_)	First Medial Form
ZWJ+1825+FVS1+ZWJ	ᠳ (x_)	Second Medial Form
<small>(context-driven)</small>		
ZWJ+1825+FVS2+ZWJ	ᠳ (x_)	Third Medial Form ^ε
ZWJ+1825	ᠳ (x_)	First Final Form
ZWJ+1825+FVS1	ᠳ (x_)	Second Final Form ^ε
1826 (x_)	ᠳ	MONGOLIAN LETTER UE
1826	ᠳ (x_)	First Isolate Form
1826+FVS1	ᠳ (x_)	Second Isolate Form
1826+FVS2	ᠳ (x_)	Third Isolate Form
<small>STATUS: Included in Chinese Proposal – WG2#65</small>		
<small>(NOTE: this is the Unicode presentation form)</small>		
1826+ZWJ	ᠳ (x_)	Initial Form ^o
ZWJ+1826+ZWJ	ᠳ (x_)	First Medial Form
<small>(also implemented with NNBSF ; actually processed as initial in genitive suffix)</small>		
ZWJ+1826+FVS1+ZWJ	ᠳ (x_)	Second Medial Form
<small>(context-driven)</small>		
ZWJ+1826+FVS2+ZWJ	ᠳ (x_)	Third Medial Form ^ε
ZWJ+1826+FVS3+ZWJ	ᠳ (x_)	Fourth Medial Form
<small>STATUS: Discussion needed</small>		
<small>(needed to handle DUEGER without NNBSF)</small>		
ZWJ+1826	ᠳ (x_)	First Final Form
<small>(also implemented with NNBSF ; actually processed as isolate in genitive suffix)</small>		
ZWJ+1826+FVS1	ᠳ (x_)	Second Final Form ^ε
ZWJ+1826+FVS2	ᠳ (x_)	Third Final Form
<small>STATUS: Included in Chinese Proposal – WG2#65</small>		
<small>(only implemented with NNBSF ; actually processed as isolate in genitive suffix)</small>		
1827 (x_)	ᠳ	MONGOLIAN LETTER EE
1827+ZWJ	ᠳ (x_)	Initial Form
ZWJ+1827+ZWJ	ᠳ (x_)	Medial Form
ZWJ+1827	ᠳ (x_)	Final Form
1828 (xxxx)	ᠳ	MONGOLIAN LETTER NA
1828+ZWJ	ᠳ (xxxx)	First Initial Form
<small>(also context-driven in Todo)</small>		
1828+FVS1+ZWJ	ᠳ (x_)	Second Initial Form ^ε
ZWJ+1828+ZWJ	ᠳ (xxxx)	First Medial Form
<small>(context-driven)</small>		
<small>(may be implemented as a toggle)</small>		
ZWJ+1828+FVS1+ZWJ	ᠳ (xxxx)	Second Medial Form
<small>(context-driven as a toggle, so in actuality could be dotted or undotted)</small>		
ZWJ+1828+FVS2+ZWJ	ᠳ (x_)	Third Medial Form
<small>(only implemented with MVS ; actually - processed as final when pre-MVS)</small>		
ZWJ+1828+FVS3+ZWJ	ᠳ (x_)	Fourth Medial Form
<small>(context-driven, Todo only)</small>		
ZWJ+1828+VS01+ZWJ	ᠳ (x_)	Fifth Medial Form
<small>STATUS: Discussion needed</small>		
<small>(AN+FVS4+AR must remove the dot)</small>		
ZWJ+1828	ᠳ (xxxx)	Final Form
<small>(context-driven – add in Baiti)</small>		

1829 (x_x)	ᠳ	MONGOLIAN LETTER ANG
1829+ZWJ	ᠳ (x_)	Initial Form
ZWJ+1829+ZWJ	ᠳ (x_x)	Medial Form
ZWJ+1829	ᠳ (x_x)	Final Form
182A (x_xx)	ᠳ	MONGOLIAN LETTER BA ^s
182A+ZWJ	ᠳ (x_xx)	Initial Form
ZWJ+182A+ZWJ	ᠳ (x_xx)	Medial Form
ZWJ+182A	ᠳ (x_xx)	First Final Form
ZWJ+182A+FVS1	ᠳ (x_)	Second Final Form ^ε
182B (x_)	ᠳ	MONGOLIAN LETTER PA ^s
182B+ZWJ	ᠳ (x_)	Initial Form
ZWJ+182B+ZWJ	ᠳ (x_)	Medial Form
ZWJ+182B	ᠳ (x_)	Final Form
182C (x_)	ᠳ	MONGOLIAN LETTER QA
182C+FVS1	ᠳ (x_)	Second Isolate Form
<small>STATUS: Included in Chinese Proposal – WG2#65</small>		
182C+FVS2	ᠳ (x_)	Third Isolate Form ^s
<small>STATUS: Included in Chinese Proposal – WG2#65</small>		
182C+ZWJ	ᠳ (x_)	First Initial Form
182C+FVS1+ZWJ	ᠳ (x_)	Second Initial Form ^ε
182C+FVS2+ZWJ	ᠳ (x_)	Third Initial Form
<small>STATUS: Included in Chinese Proposal – WG2#65</small>		
ZWJ+182C+ZWJ	ᠳ (x_)	First Medial Form
ZWJ+182C+FVS1+ZWJ	ᠳ (x_)	Second Medial Form ^ε
ZWJ+182C+FVS2+ZWJ	ᠳ (x_)	Third Medial Form
<small>STATUS: Included in Chinese Proposal – WG2#65</small>		
<small>(actually - processed as final when pre-MVS)</small>		
ZWJ+182C+FVS3+ZWJ	ᠳ (x_)	Fourth Medial Form ^ε
<small>STATUS: Included in Chinese Proposal – WG2#65</small>		
<small>(actually - processed as final when pre-MVS)</small>		
ZWJ+182C	ᠳ (x_)	Final Form
182D (x_)	ᠳ	MONGOLIAN LETTER GA
182D+FVS1	ᠳ (x_)	Second Isolate Form ^s
<small>STATUS: Included in Chinese Proposal – WG2#65</small>		
182D+FVS2	ᠳ (x_)	Third Isolate Form ^s
<small>STATUS: Included in Chinese Proposal – WG2#65</small>		
182D+ZWJ	ᠳ (x_)	First Initial Form
182D+FVS1+ZWJ	ᠳ (x_)	Second Initial Form ^ε
182D+FVS2+ZWJ	ᠳ (x_)	Third Initial Form
<small>STATUS: Included in Chinese Proposal – WG2#6</small>		
<small>(context-driven)</small>		
ZWJ+182D+ZWJ	ᠳ (x_)	First Medial Form
ZWJ+182D+FVS1+ZWJ	ᠳ (x_)	Second Medial Form
<small>(context-driven)</small>		
ZWJ+182D+FVS2+ZWJ	ᠳ (x_)	Third Medial Form
<small>(only implemented with MVS)</small>		
<small>(actually - processed as final when pre-MVS)</small>		
ZWJ+182D+FVS3+ZWJ	ᠳ (x_)	Fourth Medial Form
<small>(context-driven)</small>		
ZWJ+182D+VS01+ZWJ	ᠳ (x_)	Fifth Medial Form
<small>STATUS: Discussion needed</small>		
<small>(needed to over-ride default context)</small>		
<small>(COG+FVS4+A+FVS1+GULA)</small>		
ZWJ+182D	ᠳ (x_)	First Final Form
ZWJ+182D+FVS1	ᠳ (x_)	Second Final Form

ZWJ+182D+FVS2 (x_) *Third Final Form*

182E (x_xx)	ᠮ	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>
182F (xxxx)	ᠯ	MONGOLIAN LETTER LA
182F+ZWJ	ᠯ (xxxx)	<i>Initial Form</i>
ZWJ+182F+ZWJ	ᠯ (xxxx)	<i>Medial Form</i>
ZWJ+182F	ᠯ (xxxx)	<i>Final Form</i>
1830 (xxxx)	ᠰ	MONGOLIAN LETTER SA
1830+ZWJ	ᠰ (xxxx)	<i>Initial Form</i>
ZWJ+1830+ZWJ	ᠰ (xxxx)	<i>Medial Form</i>
ZWJ+1830	ᠰ (xxxx)	<i>First Final Form</i>
ZWJ+1830+FVS1	ᠰ (x_)	<i>Second Final Form[᠅]</i>
ZWJ+1830+FVS2	ᠰ (x_)	<i>Third Final Form[᠅]</i>
1831 (xx_)	ᠱ	MONGOLIAN LETTER SHA
1831+ZWJ	ᠱ (xx_)	<i>Initial Form</i>
ZWJ+1831+ZWJ	ᠱ (xx_)	<i>Medial Form</i>
ZWJ+1831	ᠱ (xx_)	<i>Final Form</i>
1832 (x_)	ᠲ	MONGOLIAN LETTER TA
1832+ZWJ	ᠲ (x_)	<i>Initial Form</i>
ZWJ+1832+ZWJ	ᠲ (x_)	<i>First Medial Form</i>
ZWJ+1832+FVS1+ZWJ	ᠲ (x_)	<i>Second Medial Form[᠅]</i>
ZWJ+1832	ᠲ (x_)	<i>Final Form</i>
1833 (x_)	ᠳ	MONGOLIAN LETTER DA
1833+ZWJ	ᠳ (x_)	<i>First Initial Form</i>
1833+FVS1+ZWJ	ᠳ (x_)	<i>Second Initial Form</i>
		(also implemented with NNBS ^P)
ZWJ+1833+ZWJ	ᠳ (x_)	<i>First Medial Form</i>
ZWJ+1833+FVS1+ZWJ	ᠳ (x_)	<i>Second Medial Form</i>
		(context-driven)
ZWJ+1833	ᠳ (x_)	<i>First Final Form</i>
ZWJ+1833+FVS1	ᠳ (x_)	<i>Second Final Form[᠅]</i>
1834 (xxxx)	ᠴ	MONGOLIAN LETTER CHA
1834+ZWJ	ᠴ (xxxx)	<i>Initial Form</i>
ZWJ+1834+ZWJ	ᠴ (xxxx)	<i>Medial Form</i>
ZWJ+1834	ᠴ (x_)	<i>Final Form</i>
1835 (x_x)	ᠵ	MONGOLIAN LETTER JA
1835+ZWJ	ᠵ (x_x)	<i>Initial Form</i>
ZWJ+1835+ZWJ	ᠵ (x_x)	<i>First Medial Form</i>
ZWJ+1835+FVS1+ZWJ	ᠵ (x_)	<i>Second Medial Form</i>

ZWJ+1835	ᠶ (x_)	<i>Final Form</i>
1836 (x_xx)	ᠶ	MONGOLIAN LETTER YA
1836+ZWJ	ᠶ (x_xx)	<i>First Initial Form</i>
1836+FVS1+ZWJ	ᠶ (x_)	<i>Second Initial Form</i>
		(context-driven)
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>
		(implemented with MVS & NNBS ^P only - actually - processed as final when pre-MVS/NNBS ^P)
ZWJ+1836	ᠶ (x_)	<i>Final Form</i>
1837 (xxx_)	ᠷ	MONGOLIAN LETTER RA
1837+ZWJ	ᠷ (xxx_)	<i>Initial Form</i>
ZWJ+1837+ZWJ	ᠷ (xxx_)	<i>Medial Form</i>
ZWJ+1837	ᠷ (xxx_)	<i>Final Form</i>
1838 (xxxx)	ᠸ	MONGOLIAN LETTER WA
1838+ZWJ	ᠸ (xxxx)	<i>Initial Form</i>
ZWJ+1838+ZWJ	ᠸ (xxxx)	<i>First Medial 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>
		(only implemented with MVS)
1839 (x_)	ᠹ	MONGOLIAN LETTER FA ^S
1839+ZWJ	ᠹ (x_)	<i>Initial Form</i>
ZWJ+1839+ZWJ	ᠹ (x_)	<i>Medial Form</i>
ZWJ+1839	ᠹ (x_)	<i>Final Form</i>
183A (xxxx)	ᠺ	MONGOLIAN LETTER KA ^S
183A+ZWJ	ᠺ (xxxx)	<i>Initial Form</i>
ZWJ+183A+ZWJ	ᠺ (xxxx)	<i>Medial Form</i>
ZWJ+183A	ᠺ (x_)	<i>Final Form</i>
183B (xx_)	ᠻ	MONGOLIAN LETTER KHA ^S
183B+ZWJ	ᠻ (xx_)	<i>Initial Form</i>
ZWJ+183B+ZWJ	ᠻ (xx_)	<i>Medial Form</i>
ZWJ+183B	ᠻ (xx_)	<i>Final Form</i>
183C (x_)	ᠼ	MONGOLIAN LETTER TSA
183C+ZWJ	ᠼ (x_)	<i>Initial Form</i>
ZWJ+183C+ZWJ	ᠼ (x_)	<i>Medial Form</i>
ZWJ+183C	ᠼ (x_)	<i>Final Form</i>
183D (x_)	ᠽ	MONGOLIAN LETTER ZA
183D+ZWJ	ᠽ (x_)	<i>Initial Form</i>
ZWJ+183D+ZWJ	ᠽ (x_)	<i>Medial Form</i>
ZWJ+183D	ᠽ (x_)	<i>Final Form</i>

183E	(x__)	ᠬᠠ	MONGOLIAN LETTER HAA
183E+ZWJ		ᠬᠢ (x__)	<i>Initial Form</i>
ZWJ+183E+ZWJ		ᠬᠣ (x__)	<i>Medial Form</i>
ZWJ+183E		ᠬᠤ (x__)	<i>Final Form</i>
183F	(x__)	ᠵᠠ	MONGOLIAN LETTER ZRA
183F+ZWJ		ᠵᠢ (x__)	<i>Initial Form</i>
ZWJ+183F+ZWJ		ᠵᠣ (x__)	<i>Medial Form</i>
ZWJ+183F		ᠵᠤ (x__)	<i>Final Form</i>
1840	(xx__)	ᠯᠠ	MONGOLIAN LETTER LHA
1840+ZWJ		ᠯᠢ (xx__)	<i>Initial Form</i>
ZWJ+1840+ZWJ		ᠯᠣ (xx__)	<i>Medial Form</i>
ZWJ+1840		ᠯᠤ (x__)	<i>Final Form</i>
1841	(x__)	ᠵᠢ	MONGOLIAN LETTER ZHI
1841+ZWJ		ᠵᠢ (x__)	<i>Initial Form</i>
ZWJ+1841+ZWJ		ᠵᠣ (x__)	<i>Medial Form</i>
ZWJ+1841		ᠵᠤ (x__)	<i>Final Form</i>
1842	(x__)	ᠴᠢ	MONGOLIAN LETTER CHI
1842+ZWJ		ᠴᠢ (x__)	<i>Initial Form</i>
ZWJ+1842+ZWJ		ᠴᠣ (x__)	<i>Medial Form</i>
ZWJ+1842		ᠴᠤ (x__)	<i>Final Form</i>
Todo Letters			
1843	(x__)	ᠯᠠ	MONGOLIAN LETTER TODO LONG VOWEL SIGN
1843+ZWJ		ᠯᠠ (x__)	<i>Initial Form</i> <small>(context-driven)</small>
ZWJ+1843+ZWJ		ᠯᠠ (x__)	<i>Medial Form</i> <small>(context-driven)</small>
ZWJ+1843		ᠯᠠ (x__)	<i>Final Form</i> <small>(context-driven)</small>
<small>STATUS: Included in Chinese Proposal – WG2#65</small>			
1844	(x__)	ᠡ	MONGOLIAN LETTER TODO E
1844+ZWJ		ᠡ (x__)	<i>Initial Form</i>
ZWJ+1844+ZWJ		ᠢ (x__)	<i>First Medial Form</i>
ZWJ+1844+FVS1+ZWJ		ᠣ (x__)	<i>Second Medial Form</i> ^᠑
ZWJ+1844		ᠤ (x__)	<i>Final Form</i>
1845	(x__)	ᠢ	MONGOLIAN LETTER TODO I
1845+ZWJ		ᠢ (x__)	<i>Initial Form</i>
ZWJ+1845+ZWJ		ᠣ (x__)	<i>First Medial Form</i>
ZWJ+1845+FVS1+ZWJ		ᠣ (x__)	<i>Second Medial Form</i> <small>(context-driven)</small>
ZWJ+1845		ᠤ (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> ^᠑
ZWJ+1846		ᠣ (x__)	<i>Final Form</i>
1847	(x__)	ᠣᠳᠤ	MONGOLIAN LETTER TODO U
1847+FVS1		ᠣᠳᠤ (x__)	<i>Second Isolate Form</i>
1847+ZWJ		ᠣᠳᠤ (x__)	<i>Initial Form</i>
ZWJ+1847+ZWJ		ᠣᠳᠤ (x__)	<i>First Medial Form</i>
ZWJ+1847+FVS1+ZWJ		ᠣᠳᠤ (x__)	<i>Second Medial Form</i> ^᠑
ZWJ+1847+FVS2+ZWJ		ᠣᠳᠤ (x__)	<i>Third Medial Form</i> <small>(context-driven)</small>
ZWJ+1847		ᠣᠳᠤ (x__)	<i>First Final Form</i>
ZWJ+1847+FVS1		ᠣᠳᠤ (x__)	<i>Second Final Form</i> <small>(context-driven)</small>
1848	(x__)	ᠣᠳᠥ	MONGOLIAN LETTER TODO OE
1848+ZWJ		ᠣᠳᠥ (x__)	<i>Initial Form</i>
ZWJ+1848+ZWJ		ᠣᠳᠥ (x__)	<i>First Medial Form</i>
ZWJ+1848+FVS1+ZWJ		ᠣᠳᠥ (x__)	<i>Second Medial Form</i> ^᠑
ZWJ+1848		ᠣᠳᠥ (x__)	<i>Final Form</i>
1849	(x__)	ᠣᠳᠦ	MONGOLIAN LETTER TODO UE
1849+FVS1		ᠣᠳᠦ (x__)	<i>Second Isolate Form</i>
1849+ZWJ		ᠣᠳᠦ (x__)	<i>Initial Form</i>
ZWJ+1849+ZWJ		ᠣᠳᠦ (x__)	<i>First Medial Form</i>
ZWJ+1849+FVS1+ZWJ		ᠣᠳᠦ (x__)	<i>Second Medial Form</i> ^᠑
ZWJ+1849		ᠣᠳᠦ (x__)	<i>Final Form</i>
184A	(x__)	ᠣᠳᠠᠭ	MONGOLIAN LETTER TODO ANG
184A		ᠣᠳᠠᠭ (x__)	<i>Isolate Form</i>
184A+ZWJ		ᠣᠳᠠᠭ (x__)	<i>Initial Form</i>
ZWJ+184A+ZWJ		ᠣᠳᠠᠭ (x__)	<i>Medial Form</i>
ZWJ+184A		ᠣᠳᠠᠭ (x__)	<i>Final Form</i> ^᠑
184B	(x__)	ᠣᠳᠤᠪᠠ	MONGOLIAN LETTER TODO BA
184B		ᠣᠳᠤᠪᠠ (x__)	<i>Isolate Form</i>
184B+ZWJ		ᠣᠳᠤᠪᠠ (x__)	<i>Initial Form</i>
ZWJ+184B+ZWJ		ᠣᠳᠤᠪᠠ (x__)	<i>Medial Form</i>
ZWJ+184B		ᠣᠳᠤᠪᠠ (x__)	<i>Final Form</i> ^᠑
184C	(x__)	ᠣᠳᠤᠴᠢ	MONGOLIAN LETTER TODO PA ⁵
184C+ZWJ		ᠣᠳᠤᠴᠢ (x__)	<i>Initial Form</i>
ZWJ+184C+ZWJ		ᠣᠳᠤᠴᠢ (x__)	<i>Medial Form</i>
ZWJ+184C		ᠣᠳᠤᠴᠢ (x__)	<i>Final Form</i>
184D	(x__)	ᠣᠳᠤᠬᠠ	MONGOLIAN LETTER TODO QA
184D+FVS1		ᠣᠳᠤᠬᠠ (x__)	<i>Second Isolate Form</i> <small>STATUS: Included in Chinese Proposal – WG2#65</small>
184D+ZWJ		ᠣᠳᠤᠬᠠ (x__)	<i>Initial Form</i>
184D+FVS1+ZWJ		ᠣᠳᠤᠬᠠ (x__)	<i>Second Initial Form</i>
ZWJ+184D+ZWJ		ᠣᠳᠤᠬᠠ (x__)	<i>Medial Form</i>
ZWJ+184D+FVS1+ZWJ		ᠣᠳᠤᠬᠠ (x__)	<i>Second Medial Form</i>







ZWJ+184D	ᠣ (x_) <i>Final Form</i>
184E (x_) ᠣ	MONGOLIAN LETTER TODO GA
184E+FVS1	ᠣ (x_) <i>Second Isolate Form</i>
<small>STATUS: Included in Chinese Proposal – WG2#65</small>	
184E+ZWJ	ᠣ (x_) <i>Initial Form</i>
ZWJ+184E+ZWJ	ᠣ (x_) <i>First Medial Form</i>
ZWJ+184E+FVS1+ZWJ	ᠣ (x_) <i>Second Medial Form</i>
ZWJ+184E	ᠣ (x_) <i>Final Form</i>
184F (x_) ᠣ	MONGOLIAN LETTER TODO MA
184F	ᠣ (x_) <i>Isolate Form</i>
184F+ZWJ	ᠣ (x_) <i>Initial Form</i>
ZWJ+184F+ZWJ	ᠣ (x_) <i>Medial Form</i>
ZWJ+184F	ᠣ (x_) <i>Final Form</i> ^o
1850 (x_) ᠣ	MONGOLIAN LETTER TODO TA
1850+ZWJ	ᠣ (x_) <i>Initial Form</i>
ZWJ+1850+ZWJ	ᠣ (x_) <i>Medial Form</i>
ZWJ+1850	ᠣ (x_) <i>Final Form</i>
1851 (x_) ᠣ	MONGOLIAN LETTER TODO DA
1851+ZWJ	ᠣ (x_) <i>Initial Form</i>
ZWJ+1851+ZWJ	ᠣ (x_) <i>Medial Form</i>
ZWJ+1851	ᠣ (x_) <i>Final Form</i>
1852 (x_) ᠣ	MONGOLIAN LETTER TODO CHA
1852+ZWJ	ᠣ (x_) <i>Initial Form</i>
ZWJ+1852+ZWJ	ᠣ (x_) <i>Medial Form</i>
ZWJ+1852	ᠣ (x_) <i>Final Form</i>
1853 (xx_) ᠣ	MONGOLIAN LETTER TODO JA
1853+ZWJ	ᠣ (xx_) <i>Initial Form</i>
ZWJ+1853+ZWJ	ᠣ (xx_) <i>Medial Form</i>
ZWJ+1853	ᠣ (x_) <i>Final Form</i>
1854 (x_) ᠣ	MONGOLIAN LETTER TODO TSA
1854+ZWJ	ᠣ (x_) <i>Initial Form</i>
ZWJ+1854+ZWJ	ᠣ (x_) <i>Medial Form</i>
ZWJ+1854	ᠣ (x_) <i>Final Form</i>
1855 (x_) ᠣ	MONGOLIAN LETTER TODO YA
1855+ZWJ	ᠣ (x_) <i>Initial Form</i>
ZWJ+1855+ZWJ	ᠣ (x_) <i>Medial Form</i>
ZWJ+1855	ᠣ (x_) <i>Final Form</i>
1856 (x_) ᠣ	MONGOLIAN LETTER TODO WA
1856+ZWJ	ᠣ (x_) <i>Initial Form</i>
ZWJ+1856+ZWJ	ᠣ (x_) <i>Medial Form</i>
ZWJ+1856	ᠣ (x_) <i>Final Form</i>





1857 (x_) ᠣ	MONGOLIAN LETTER TODO KA ^s
1857+ZWJ	ᠣ (x_) <i>Initial Form</i>
ZWJ+1857+ZWJ	ᠣ (x_) <i>Medial Form</i>
ZWJ+1857	ᠣ (x_) <i>Final Form</i>
1858 (xx_) ᠣ	MONGOLIAN LETTER TODO GAA ^s
1858+ZWJ	ᠣ (xx_) <i>Initial Form</i>
ZWJ+1858+ZWJ	ᠣ (xx_) <i>Medial Form</i>
ZWJ+1858	ᠣ (x_) <i>Final Form</i>
1859 (x_) ᠣ	MONGOLIAN LETTER TODO HAA
1859	ᠣ (x_) <i>Isolate Form</i>
1859+ZWJ	ᠣ (x_) <i>Initial Form</i>
ZWJ+1859+ZWJ	ᠣ (x_) <i>Medial Form</i>
ZWJ+1859	ᠣ (x_) <i>Final Form</i> ^o
185A (x_) ᠣ	MONGOLIAN LETTER TODO JIA
185A+ZWJ	ᠣ (x_) <i>Initial Form</i>
ZWJ+185A+ZWJ	ᠣ (x_) <i>Medial Form</i>
ZWJ+185A	ᠣ (x_) <i>Final Form</i>
185B (xx_) ᠣ	MONGOLIAN LETTER TODO NIA
185B+ZWJ	ᠣ (xx_) <i>Initial Form</i> ²
ZWJ+185B+ZWJ	ᠣ (xx_) <i>Medial Form</i>
ZWJ+185B	ᠣ (x_) <i>Final Form</i>
185C (xx_) ᠣ	MONGOLIAN LETTER TODO DZA
185C+ZWJ	ᠣ (xx_) <i>Initial Form</i>
ZWJ+185C+ZWJ	ᠣ (xx_) <i>Medial Form</i>
ZWJ+185C	ᠣ (x_) <i>Final Form</i>
Sibe Letters	
185D (xx_) ᠣ	MONGOLIAN LETTER SIBE E
185D	ᠣ (xx_) <i>Isolate Form</i>
185D+ZWJ	ᠣ (xx_) <i>Initial Form</i>
ZWJ+185D+ZWJ	ᠣ (xx_) <i>First Medial Form</i>
ZWJ+185D+FVS1+ZWJ	ᠣ (xx_) <i>Second Medial Form</i>
ZWJ+185D	ᠣ (xx_) <i>First Final Form</i> ^o
ZWJ+185D+FVS1	ᠣ (xx_) <i>Second Final Form</i>
185E (x_) ᠣ	MONGOLIAN LETTER SIBE I
185E	ᠣ (x_) <i>Isolate Form</i>
185E+ZWJ	ᠣ (x_) <i>Initial Form</i>
ZWJ+185E+ZWJ	ᠣ (x_) <i>First Medial Form</i>
ZWJ+185E+FVS1+ZWJ	ᠣ (x_) <i>Second Medial Form</i> ^o
ZWJ+185E+FVS2+ZWJ	ᠣ (x_) <i>Third Medial Form</i>
ZWJ+185E	ᠣ (x_) <i>First Final Form</i>





		(also implemented with NNBSF - actually processed as isolate in accusative suffix)	
ZWJ+185E+FVS1	ᠨ (_x)	Second Final Form	
ZWJ+185E+FVS2	ᠨ (_x)	Third Final Form	
185F (_xx)	ᠶ	MONGOLIAN LETTER SIBE IY	
185F+ZWJ	ᠶ (_)	Initial Form	
ZWJ+185F+ZWJ	ᠶ (_xx)	Medial Form	
ZWJ+185F	ᠶ (_xx)	Final Form	
1860 (_xx)	ᠡ	MONGOLIAN LETTER SIBE UE	
1860+ZWJ	ᠡ (_xx)	Initial Form	
ZWJ+1860+ZWJ	ᠡ (_xx)	First Medial Form	
ZWJ+1860+FVS1+ZWJ	ᠡ (_xx)	Second Medial Form	
ZWJ+1860	ᠡ (_xx)	First Final Form	
ZWJ+1860+FVS1	ᠡ (_xx)	Second Final Form	
ZWJ+1860+FVS2	ᠡ (_xx)	Third Final Form	
		(context-driven)	
		(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)	ᠯ	MONGOLIAN LETTER SIBE KA	
1863	ᠯ (_x)	First Isolate Form	
1863+FVS1	ᠯ (_x)	Second Isolate Form*	
1863+ZWJ	ᠯ (_x)	Initial Form	
ZWJ+1863+ZWJ	ᠯ (_x)	First Medial Form	
ZWJ+1863+FVS1+ZWJ	ᠯ (_x)	Second Medial Form	
ZWJ+1863	ᠯ (_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)	ᠬ	MONGOLIAN LETTER SIBE HA	
1865+FVS1	ᠬ (_xx)	Second Isolate Form*	





1865+ZWJ	ᠬ (_xx)	Initial Form	
ZWJ+1865+ZWJ	ᠬ (_xx)	Medial Form	
ZWJ+1865	ᠬ (_)	Final Form	
1866 (_xx)	ᠭ	MONGOLIAN LETTER SIBE PA ^s	
1866+ZWJ	ᠭ (_xx)	Initial Form	
ZWJ+1866+ZWJ	ᠭ (_xx)	Medial Form	
ZWJ+1866	ᠭ (_)	Final Form	
1867 (_xx)	ᠬ	MONGOLIAN LETTER SIBE SHA	
1867+ZWJ	ᠬ (_xx)	Initial Form	
ZWJ+1867+ZWJ	ᠬ (_xx)	Medial Form	
ZWJ+1867	ᠬ (_x)	Final Form	
1868 (_xx)	ᠲ	MONGOLIAN LETTER SIBE TA	
1868+ZWJ	ᠲ (_xx)	First Initial Form	
1868+FVS1+ZWJ	ᠲ (_xx)	Second Initial Form	
ZWJ+1868+ZWJ	ᠲ (_xx)	First Medial Form	
ZWJ+1868+FVS1+ZWJ	ᠲ (_xx)	Second Medial Form	
ZWJ+1868+FVS2+ZWJ	ᠲ (_xx)	Third Medial Form	
ZWJ+1868	ᠲ (_xx)	Final Form	
1869 (_xx)	ᠳ	MONGOLIAN LETTER SIBE DA	
1869+ZWJ	ᠳ (_xx)	First Initial Form	
1869+FVS1+ZWJ	ᠳ (_xx)	Second Initial Form	
ZWJ+1869+ZWJ	ᠳ (_xx)	First Medial Form	
ZWJ+1869+FVS1+ZWJ	ᠳ (_xx)	Second Medial Form	
ZWJ+1869	ᠳ (_)	Final Form	
186A (_x)	ᠰ	MONGOLIAN LETTER SIBE JA	
186A+ZWJ	ᠰ (_x)	Initial Form	
ZWJ+186A+ZWJ	ᠰ (_x)	Medial Form	
ZWJ+186A	ᠰ (_)	Final Form	
186B (_x)	ᠲ	MONGOLIAN LETTER SIBE FA	
186B+ZWJ	ᠲ (_x)	Initial Form	
ZWJ+186B+ZWJ	ᠲ (_x)	Medial Form	
ZWJ+186B	ᠲ (_)	Final Form	
186C (_xx)	ᠨ	MONGOLIAN LETTER SIBE GAA ^s	
186C+ZWJ	ᠨ (_xx)	Initial Form	
ZWJ+186C+ZWJ	ᠨ (_xx)	Medial Form	
ZWJ+186C	ᠨ (_)	Final Form	
186D (_xx)	ᠨ	MONGOLIAN LETTER SIBE HAA ^s	
186D+ZWJ	ᠨ (_xx)	Initial Form	
ZWJ+186D+ZWJ	ᠨ (_xx)	Medial Form	
ZWJ+186D	ᠨ (_)	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*





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
 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  (_x) *Second Final Form*
 ZWJ+1873+FVS2  (_x) *Third Final Form*
 ZWJ+1873+FVS3  (_x) *Fourth Final Form*
 STATUS: Included in Chinese Proposal – WG2#65 (context-driven)





1874 (_x)  MONGOLIAN LETTER MANCHU KA
 1874  (_x) *First Isolate Form*
 STATUS: Currently not shown in the code charts
 1874+FVS1  (_x) *Second Isolate Form*^{*}
 STATUS: Included in Chinese Proposal – WG2#65
 1874+FVS2  (_x) *Third Isolate Form*^{*}
 STATUS: Included in Chinese Proposal – WG2#65

1874+ZWJ  (_x) *Initial Form*
 ZWJ+1874+ZWJ  (_x) *First Medial Form*
 ZWJ+1874+FVS1+ZWJ  (_x) *Second Medial Form*
 (context-driven)
 ZWJ+1874+FVS2+ZWJ  (_x) *Third Medial Form*
 (context-driven)

ZWJ+1874+FVS3+ZWJ  (_x) *Fourth Medial Form*
 ZWJ+1874  (_x) *First Final Form*[°]
 ZWJ+1874+FVS1  (_x) *Second Final Form*
 (context-driven)
 ZWJ+1874+FVS2  (_x) *Third Final Form*







1875 (_x)  MONGOLIAN LETTER MANCHU RA
 1875  (_x) *Isolate Form*
 STATUS: Currently not shown in the code charts
 1875+ZWJ  (_x) *Initial Form*
 ZWJ+1875+ZWJ  (_x) *Medial Form*
 ZWJ+1875  (_x) *Final Form*[°]

1876 (_x)  MONGOLIAN LETTER MANCHU FA
 1876  (_x) *Isolate Form*
 STATUS: Currently not shown in the code charts
 1876+ZWJ  (_x) *First Initial Form*
 1876+FVS1+ZWJ  (_x) *Second Initial Form*
 (context-driven)
 ZWJ+1876+ZWJ  (_x) *First Medial Form*[°]
 ZWJ+1876+FVS1+ZWJ  (_x) *Second Medial Form*
 (context-driven)
 ZWJ+1876  (_) *Final Form*

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

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

Ali Gali Letters

1880 (xx_x)  MONGOLIAN LETTER ALI GALI ANUSVARA
 1880+FVS1  (xx_x) *Second Form*
 1881 (xx_x)  MONGOLIAN LETTER ALI GALI VISARGA
 1881+FVS1  (xx_x) *Second Form*
 1882 (xx_x)  MONGOLIAN LETTER ALI GALI DAMARU
 1883 (xx_x)  MONGOLIAN LETTER ALI GALI UBADAMA

1884	(xx_x)	ᠢ	MONGOLIAN LETTER ALI GALI INVERTED UBADAMA
1887	(xx_x)	ᠠ	MONGOLIAN LETTER ALI GALI A
1887+FVS1		ᠠ ()	<i>Second Isolate Form</i>
<small>STATUS: Included in Chinese Proposal – WG2#65</small>			
1887+ZWJ		ᠠ ()	<i>Initial Form</i>
ZWJ+1887+ZWJ		ᠠ ()	<i>Medial Form</i>
ZWJ+1887		ᠠ (x_x)	<i>First Final Form</i>
ZWJ+1887+FVS1		ᠠ (x_x)	<i>Second Final Form</i>
ZWJ+1887+FVS2		ᠠ (xx_x)	<i>Third Final Form</i>
ZWJ+1887+FVS3		ᠠ (xx_x)	<i>Fourth Final Form</i>
ZWJ+1887+VS01		ᠠ (x_x)	<i>Fifth Final Form</i>
<small>STATUS: Agreed upon by the UTC at WG2#65 – glyph is currently the wrong shape</small>			
1888	(x_x)	ᠡ	MONGOLIAN LETTER ALI GALI I
1888+ZWJ		ᠡ ()	<i>Initial Form</i>
ZWJ+1888+ZWJ		ᠡ (x_x)	<i>First Medial Form</i>
ZWJ+1888+ZWJ+FVS1		ᠡ (x_x)	<i>Second Medial Form</i>
<small>STATUS: Discussion needed</small>			
ZWJ+1888		ᠡ (x_x)	<i>First Final Form</i>
ZWJ+1888+FVS1		ᠡ (x_x)	<i>Second Final Form</i>
<small>(context-driven)</small>			
1889	(xx_x)	ᠢ	MONGOLIAN LETTER ALI GALI KA ^S
1889+ZWJ		ᠢ (xx_x)	<i>Initial Form</i>
ZWJ+1889+ZWJ		ᠢ (x_x)	<i>Medial Form</i> ³
ZWJ+1889		ᠢ ()	<i>Final Form</i>
188A	(xx_x)	ᠣ	MONGOLIAN LETTER ALI GALI NGA
188A+ZWJ		ᠣ (xx_x)	<i>First Initial Form</i>
188A+FVS1+ZWJ		ᠣ (xx_x)	<i>Second Initial Form</i>
<small>(context-driven)</small>			
ZWJ+188A+ZWJ		ᠣ (xx_x)	<i>First Medial Form</i>
ZWJ+188A+FVS1+ZWJ		ᠣ (xx_x)	<i>Second Medial Form</i>
<small>(context-driven)</small>			
ZWJ+188A		ᠣ ()	<i>Final Form</i>
188B	(xx_x)	ᠣ	MONGOLIAN LETTER ALI GALI CA
188B+ZWJ		ᠣ (xx_x)	<i>Initial Form</i>
ZWJ+188B+ZWJ		ᠣ (xx_x)	<i>Medial Form</i>
ZWJ+188B		ᠣ ()	<i>Final Form</i>
188C	(x_x)	ᠣ	MONGOLIAN LETTER ALI GALI TTA
188C+ZWJ		ᠣ (x_x)	<i>Initial Form</i>
ZWJ+188C+ZWJ		ᠣ (x_x)	<i>Medial Form</i>
ZWJ+188C		ᠣ ()	<i>Final Form</i>
188D	(x_x)	ᠣ	MONGOLIAN LETTER ALI GALI TTHA
188D+ZWJ		ᠣ (x_x)	<i>Initial Form</i>
ZWJ+188D+ZWJ		ᠣ (x_x)	<i>Medial Form</i>
ZWJ+188D		ᠣ ()	<i>Final Form</i>

188E	(x_x)	ᠣ	MONGOLIAN LETTER ALI GALI DDA
188E+ZWJ		ᠣ (x_x)	<i>Initial Form</i>
ZWJ+188E+ZWJ		ᠣ (x_x)	<i>Medial Form</i>
ZWJ+188E		ᠣ ()	<i>Final Form</i>
188F	(x_xx)	ᠣ	MONGOLIAN LETTER ALI GALI NNA
188F+ZWJ		ᠣ (xx_x)	<i>Initial Form</i>
ZWJ+188F+ZWJ		ᠣ (xx_x)	<i>Medial Form</i>
ZWJ+188F		ᠣ ()	<i>Final Form</i>
1890	(x_x)	ᠣ	MONGOLIAN LETTER ALI GALI TA
1890+ZWJ		ᠣ (x_x)	<i>Initial Form</i>
ZWJ+1890+ZWJ		ᠣ (x_x)	<i>Medial Form</i>
ZWJ+1890		ᠣ ()	<i>Final Form</i>
1891	(x_x)	ᠣ	MONGOLIAN LETTER ALI GALI DA
1891+ZWJ		ᠣ (x_x)	<i>Initial Form</i>
ZWJ+1891+ZWJ		ᠣ (x_x)	<i>Medial Form</i>
ZWJ+1891		ᠣ ()	<i>Final Form</i>
1892	(x_x)	ᠣ	MONGOLIAN LETTER ALI GALI PA ^S
1892+ZWJ		ᠣ (x_x)	<i>Initial Form</i>
ZWJ+1892+ZWJ		ᠣ (x_x)	<i>Medial Form</i>
ZWJ+1892		ᠣ ()	<i>Final Form</i>
1893	(x_x)	ᠣ	MONGOLIAN LETTER ALI GALI PHA ^S
1893+ZWJ		ᠣ (x_x)	<i>Initial Form</i>
ZWJ+1893+ZWJ		ᠣ (x_x)	<i>Medial Form</i>
ZWJ+1893		ᠣ ()	<i>Final Form</i>
1894	(xx_x)	ᠣ	MONGOLIAN LETTER ALI GALI SSA
1894+ZWJ		ᠣ (xx_x)	<i>Initial Form</i>
ZWJ+1894+ZWJ		ᠣ (xx_x)	<i>Medial Form</i>
ZWJ+1894		ᠣ ()	<i>Final Form</i>
1895	(x_x)	ᠣ	MONGOLIAN LETTER ALI GALI ZHA
1895+ZWJ		ᠣ (x_x)	<i>Initial Form</i>
ZWJ+1895+ZWJ		ᠣ (x_x)	<i>Medial Form</i>
ZWJ+1895		ᠣ ()	<i>Final Form</i>
1896	(xx_x)	ᠣ	MONGOLIAN LETTER ALI GALI ZA
1896+ZWJ		ᠣ (xx_x)	<i>Initial Form</i>
ZWJ+1896+ZWJ		ᠣ (xx_x)	<i>Medial Form</i>
ZWJ+1896		ᠣ ()	<i>Final Form</i>
1897	(x_x)	ᠣ	MONGOLIAN LETTER ALI GALI AH
1897+ZWJ		ᠣ (x_x)	<i>Initial Form</i>
ZWJ+1897+ZWJ		ᠣ (x_x)	<i>Medial Form</i> ⁵
ZWJ+1897		ᠣ ()	<i>Final Form</i>

1898 (x_) 𐎢	MONGOLIAN LETTER TODO ALI GALI TA	18A1 (x_) 𐎢	MONGOLIAN LETTER MANCHU ALI GALI DHA
1898+ZWJ 𐎢 (x_) <i>Initial Form</i>		18A1+ZWJ 𐎢 (x_) <i>First Initial Form</i>	
ZWJ+1898+ZWJ 𐎢 (x_) <i>Medial Form</i>		18A1+FVS1+ZWJ 𐎢 (x_) <i>Second Initial Form</i> ⁶	
ZWJ+1898 𐎢 (x_) <i>Final Form</i>		<small>STATUS: Included in Chinese Proposal – WG2#65</small>	
		(context-driven)	
		ZWJ+18A1+ZWJ 𐎢 (x_) <i>First Medial Form</i>	
		ZWJ+18A1+FVS1+ZWJ 𐎢 (x_) <i>Second Medial Form</i> ⁶	
		<small>STATUS: Included in Chinese Proposal – WG2#65</small>	
		(context-driven)	
		ZWJ+18A1 𐎢 (x_) <i>Final Form</i>	
1899 (x_) 𐎣	MONGOLIAN LETTER TODO ALI GALI ZHA	18A2 (x_) 𐎣	MONGOLIAN LETTER MANCHU ALI GALI SSA
1899+ZWJ 𐎣 (x_) <i>Initial Form</i>		18A2+ZWJ 𐎣 (x_) <i>Initial Form</i>	
ZWJ+1899+ZWJ 𐎣 (x_) <i>Medial Form</i>		ZWJ+18A2+ZWJ 𐎣 (x_) <i>Medial Form</i>	
ZWJ+1899 𐎣 (x_) <i>Final Form</i>		ZWJ+18A2 𐎣 (x_) <i>Final Form</i>	
189A (x_) 𐎡	MONGOLIAN LETTER MANCHU ALI GALI GHA	18A3 (x_) 𐎡	MONGOLIAN LETTER MANCHU ALI GALI CYA
189A+ZWJ 𐎡 (x_) <i>Initial Form</i>		18A3+ZWJ 𐎡 (x_) <i>Initial Form</i>	
ZWJ+189A+ZWJ 𐎡 (x_) <i>Medial Form</i>		ZWJ+18A3+ZWJ 𐎡 (x_) <i>Medial Form</i>	
ZWJ+189A 𐎡 (x_) <i>Final Form</i>		ZWJ+18A3 𐎡 (x_) <i>Final Form</i>	
189B (x_) 𐎢	MONGOLIAN LETTER MANCHU ALI GALI NGA	18A4 (x_) 𐎢	MONGOLIAN LETTER MANCHU ALI GALI ZHA
189B+ZWJ 𐎢 (x_) <i>Initial Form</i>		18A4+ZWJ 𐎢 (x_) <i>Initial Form</i>	
ZWJ+189B+ZWJ 𐎢 (x_) <i>Medial Form</i>		ZWJ+18A4+ZWJ 𐎢 (x_) <i>Medial Form</i>	
ZWJ+189B 𐎢 (x_) <i>Final Form</i>		ZWJ+18A4 𐎢 (x_) <i>Final Form</i>	
189C (x_) 𐎣	MONGOLIAN LETTER MANCHU ALI GALI CA	18A5 (x_) 𐎣	MONGOLIAN LETTER MANCHU ALI GALI ZA
189C+ZWJ 𐎣 (x_) <i>Initial Form</i>		18A5+ZWJ 𐎣 (x_) <i>Initial Form</i>	
ZWJ+189C+ZWJ 𐎣 (x_) <i>Medial Form</i>		ZWJ+18A5+ZWJ 𐎣 (x_) <i>Medial Form</i>	
ZWJ+189C 𐎣 (x_) <i>Final Form</i>		ZWJ+18A5 𐎣 (x_) <i>Final Form</i>	
189D (x_) 𐎡	MONGOLIAN LETTER MANCHU ALI GALI JHA	18A6 (xx_) 𐎡	MONGOLIAN LETTER ALI GALI HALF U
189D+ZWJ 𐎡 (x_) <i>Initial Form</i>		18A6+ZWJ 𐎡 (xx_) <i>Initial Form</i>	
ZWJ+189D+ZWJ 𐎡 (x_) <i>Medial Form</i>		ZWJ+18A6+ZWJ 𐎡 (xx_) <i>Medial Form</i>	
ZWJ+189D 𐎡 (x_) <i>Final Form</i>		ZWJ+18A6 𐎡 (x_) <i>Final Form</i>	
189E (x_) 𐎢	MONGOLIAN LETTER MANCHU ALI GALI TTA	18A7 (xx_) 𐎢	MONGOLIAN LETTER ALI GALI HALF YA
189E+ZWJ 𐎢 (x_) <i>Initial Form</i>		18A7+ZWJ 𐎢 (xx_) <i>Initial Form</i>	
ZWJ+189E+ZWJ 𐎢 (x_) <i>Medial Form</i>		ZWJ+18A7+ZWJ 𐎢 (xx_) <i>Medial Form</i>	
ZWJ+189E 𐎢 (x_) <i>Final Form</i>		ZWJ+18A7 𐎢 (x_) <i>Final Form</i>	
189F (x_) 𐎡	MONGOLIAN LETTER MANCHU ALI GALI DDHA	18A8 (x_) 𐎡	MONGOLIAN LETTER MANCHU ALI GALI BHA ⁵
189F+ZWJ 𐎡 (x_) <i>Initial Form</i>		18A8+ZWJ 𐎡 (x_) <i>Initial Form</i>	
ZWJ+189F+ZWJ 𐎡 (x_) <i>Medial Form</i>		ZWJ+18A8+ZWJ 𐎡 (x_) <i>Medial Form</i>	
ZWJ+189F 𐎡 (x_) <i>Final Form</i>		ZWJ+18A8 𐎡 (x_) <i>Final Form</i>	
18A0 (x_) 𐎢	MONGOLIAN LETTER MANCHU ALI GALI TA	18AA (x_) 𐎢	MONGOLIAN LETTER MANCHU ALI GALI LHA
18A0+ZWJ 𐎢 (x_) <i>First Initial Form</i>		18AA+ZWJ 𐎢 (x_) <i>Initial Form</i>	
18A0+FVS1+ZWJ 𐎢 (x_) <i>Second Initial Form</i>		ZWJ+18AA+ZWJ 𐎢 (x_) <i>Medial Form</i>	
<small>STATUS: Included in Chinese Proposal – WG2#65</small>		ZWJ+18AA 𐎢 (x_) <i>Final Form</i>	
(context-driven)			
ZWJ+18A0+ZWJ 𐎢 (x_) <i>First Medial Form</i>			
ZWJ+18A0+FVS1+ZWJ 𐎢 (x_) <i>Second Medial Form</i>			
<small>STATUS: Included in Chinese Proposal – WG2#65</small>			
(context-driven)			
ZWJ+18A0 𐎢 (x_) <i>Final Form</i>			

¹ 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.”

² Weizhe Zheng: “Also used in Ali Gali (U+185B as well as U+1853, U+1858, U+185C).”

³ Weizhe Zheng: “Attested to in TWYT and DZQZ.”

⁴ 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.”

⁵ Weizhe Zheng: “Attested to in DZQZ.”

⁶ Weizhe Zheng: “Attested to in TWYT and DZQZ.”

⁷ Weizhe Zheng: “Attested to in DZQZ.”

⁸ U+18A8: “(Ali Gali Manchu BHA) also appears in medial position. See TWYT_110.”