MONGOLIAN BASE FORMS, POSITIONAL FORMS, & VARIANT FORMS

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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.

$(X_1X_2X_3X_4)$ – denotes script usage (X_1=Mongolian, X_2=Todo, X_3=Sibe, X_4=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).

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

<mark>Purple highlighting</mark> indicates the proposal for a new FVS assignment

<mark>Blue highlighting</mark> 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 NNBSP model (DS00-NNBSP). 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__)	᠔	MONGOLIAN INVERTED BIRGA
11668	(xx__)	᠔»	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 <mark>LETTER</mark> ALI GALI BALUDA <mark>(this is not a letter – it is a diacritic mark)</mark>
1886	(xx_x)	᠅	MONGOLIAN <mark>LETTER</mark> ALI GALI THREE BALUDA <mark>(this is not a letter – it is a diacritic mark)</mark>
18A9	(x___)	ᢩ	MONGOLIAN <mark>LETTER</mark> ALI GALI DAGALGA <mark>(this is not a letter – it is a diacritic mark)</mark>

Control Characters

180B	(xxxx)	FVS1	MONGOLIAN FREE VARIATION SELECTOR ONE
180C	(xxxx)	FVS2	MONGOLIAN FREE VARIATION SELECTOR TWO
180D	(xxxx)	FVS3	MONGOLIAN FREE VARIATION SELECTOR THREE
180E	(xx__)	MVS	MONGOLIAN VOWEL SEPARATOR
<mark>180F</mark>	<mark>(xxxx)</mark>	FVS3	<mark>MONGOLIAN FREE VARIATION SELECTOR FOUR</mark>

STATUS: Proposal #1 (graphic will show a "4")

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

Numbers

(rotated 90 degrees clockwise in vertical display)

1810	(xx__)	0	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 (_x_) MONGOLIAN SIBE SYLLABLE BOUNDARY MARKER

1807+ZWJ	(__)		*Initial Form*
ZWJ+1807+ZWJ	(_x_)		*Medial Form*
ZWJ+1807	(__)		*Final Form*

180A (xxxx) MONGOLIAN NIRUGU

180A+ZWJ	(xxxx)		*Initial Form*
ZWJ+180A+ZWJ	(xxxx)		*Medial Form*
ZWJ+180A	(xxxx)		*First Final Form*

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

ZWJ+180A+FVS1	(xxxx)		*Second Final Form*

STATUS: Proposal #2

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*[ɛ]
ZWJ+1820+FVS2+ZWJ	(xx__)		*Third Medial Form*

(only implemented with NNBSP - actually - processed as initial in ACA suffix)

ZWJ+1820	(xxxx)		*First Final Form*
ZWJ+1820+FVS1	(xx__)		*Second Final Form*

(only implemented with MVS/NNBSP)

1821 (x__) MONGOLIAN LETTER E

1821+ZWJ	(x__)		*First Initial Form*
1821+FVS1+ZWJ	(x__)		*Second Initial Form*[ɛ]
ZWJ+1821+ZWJ	(x__)		*Medial Form*
ZWJ+1821	(x__)		*First Final Form*
ZWJ+1821+FVS1	(x__)		*Second Final Form*

(only implemented with MVS/NNBSP)

1822 (x__) MONGOLIAN LETTER I

1822+ZWJ	(x__)		*Initial Form*
ZWJ+1822+ZWJ	(x__)		*First Medial Form*

(also implemented with NNBSP - actually processed as initial with instrumental suffix)

ZWJ+1822+FVS1+ZWJ	(x__)		*Second Medial Form*[ɛ]
ZWJ+1822+FVS2+ZWJ	(x__)		*Third Medial Form*

STATUS: Proposal #3

(context-driven)

ZWJ+1822+FVS3+ZWJ	(x__)		*Fourth Medial Form*

STATUS: Proposal #4

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

ZWJ+1822	(x__)		*First Final Form*

(also implemented with NNBSP - actually processed as isolate in accusative suffix)

ZWJ+1822+FVS1	(x__)		*Second Final Form*

STATUS: Proposal #5

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

1824 (x__) MONGOLIAN LETTER U

1824	(x__)		*First Isolate Form*
1824+FVS1	(x__)		*Second Isolate Form*

(NOTE: this is also the Unicode presentation form)

1824+ZWJ	(x__)		*Initial Form*[%]
ZWJ+1824+ZWJ	(x__)		*First Medial Form*

(also implemented with NNBSP - actually processed as initial in genetive suffix)

ZWJ+1824+FVS1+ZWJ	(x__)		*Second Medial Form*[ɛ]
ZWJ+1824	(x__)		*First Final Form*

(also implemented with NNBSP - actually processed as isolate in genetive suffix)

ZWJ+1824+FVS1	(x__)		*Second Final Form*[ɛ]

STATUS: Proposal #6

ZWJ+1824+FVS2	(x__)		*Third Final Form*

STATUS: Proposal #7

(dotted - only implemented with NNBSP - actually processed as isolate in genetive suffix)

1825 (x__) MONGOLIAN LETTER OE

1825+ZWJ	(x__)		*Initial Form*
ZWJ+1825+ZWJ	(x__)		*First Medial Form*
ZWJ+1825+FVS1+ZWJ	(x__)		*Second Medial Form*

(context-driven)

ZWJ+1825+FVS2+ZWJ	(x__)		*Third Medial Form*[ɛ]
ZWJ+1825	(x__)		*First Final Form*
ZWJ+1825+FVS1	(x__)		*Second Final Form*[ɛ]

1826 (x__) MONGOLIAN LETTER UE

1826	(x__)		*First Isolate Form*
1826+FVS1	(x__)		*Second Isolate Form*
1826+FVS2	(x__)		*Third Isolate Form*

(NOTE: this is also the Unicode presentation form)

1826+ZWJ	(x__)		*Initial Form*[%]

Code Sequence	Glyph	Form
ZWJ+1826+ZWJ	(x__)	*First Medial Form*

(also implemented with NNBSP - actually processed as initial in genetive suffix)

| ZWJ+1826+FVS1+ZWJ | (x__) | *Second Medial Form* |

(context-driven)

| ZWJ+1826+FVS2+ZWJ | (x__) | *Third Medial Form*[℮] |
| ZWJ+1826+FVS3+ZWJ | (x__) | *Fourth Medial Form* |

STATUS: Proposal #8 — (needed to handle DUEGER without NNBSP)

| ZWJ+1826 | (x__) | *First Final Form* |

(also implemented with NNBSP - actually processed as isolate in genetive suffix)

| ZWJ+1826+FVS1 | (x__) | *Second Final Form*[℮] |
| ZWJ+1826+FVS2 | (x__) | *Third Final Form* |

STATUS: Proposal #9 — (dotted - only implemented with NNBSP - actually processed as isolate in genetive suffix)

1827 (x__) MONGOLIAN LETTER EE

1827+ZWJ	(x__)	*Initial Form*
ZWJ+1827+ZWJ	(x__)	*Medial Form*
ZWJ+1827	(x__)	*Final Form*

1828 (xxxx) MONGOLIAN LETTER NA

| 1828+ZWJ | (xxxx) | *First Initial Form* |

(also context-driven in Todo)

| 1828+FVS1+ZWJ | (x__) | *Second Initial Form*[℮] |
| ZWJ+1828+ZWJ | (xxxx) | *First Medial Form* |

(context-driven) (may be implemented as a toggle)

| ZWJ+1828+FVS1+ZWJ | (xxxx) | *Second Medial Form* |

(context-driven as a toggle, so in actuality could be dotted or undotted)

| ZWJ+1828+FVS2+ZWJ | (x__) | *Third Medial Form* |

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

| ZWJ+1828+FVS3+ZWJ | (x__) | *Fourth Medial Form* |

(context-driven, Todo only)

| ZWJ+1828+FVS4+ZWJ | (x__) | *Fifth Medial Form* |

STATUS: Proposal #10 — (AN+FVS4+AR must remove the dot)

| ZWJ+1828 | (xxxx) | *Final Form* |

1829 (x__x) MONGOLIAN LETTER ANG

1829+ZWJ	(__)	*Initial Form*
ZWJ+1829+ZWJ	(x__x)	*Medial Form*
ZWJ+1829	(x__x)	*Final Form*

182A (x_xx) MONGOLIAN LETTER BA[$]

182A+ZWJ	(x_xx)	*Initial Form*
ZWJ+182A+ZWJ	(x_xx)	*Medial Form*
ZWJ+182A	(x_xx)	*First Final Form*
ZWJ+182A+FVS1	(x__)	*Second Final Form*[℮]

182B (x__) MONGOLIAN LETTER PA[$]

182B+ZWJ	(x__)	*Initial Form*
ZWJ+182B+ZWJ	(x__)	*Medial Form*
ZWJ+182B	(x__)	*Final Form*

182C (x__) MONGOLIAN LETTER QA

182C+FVS1	(x__)	*Second Isolate Form*[*]
182C+FVS2	(x__)	*Third Isolate Form*[*]
182C+ZWJ	(x__)	*First Initial Form*
182C+FVS1+ZWJ	(x__)	*Second Initial Form*[℮]
182C+FVS2+ZWJ	(x__)	*Third Initial Form*

STATUS: Proposal #11

ZWJ+182C+ZWJ	(x__)	*First Medial Form*
ZWJ+182C+FVS1+ZWJ	(x__)	*Second Medial Form*[℮]
ZWJ+182C+FVS2+ZWJ	(x__)	*Third Medial Form*

(actually - processed as final when pre-MVS) (Chinese Standard has dotted variant first - however all fonts show non-dotted variant first)

| ZWJ+182C+FVS3+ZWJ | (x__) | *Fourth Medial Form*[℮] |

(actually - processed as final when pre-MVS) (Chinese Standard has dotted variant first - however all fonts show non-dotted variant first)

182D (x__) MONGOLIAN LETTER GA

| 182D+FVS1 | (x__) | *Second Isolate Form*[*] |

(Chinese Standard uses ZWJ instead of FVS)

182D+FVS2	(x__)	*Third Isolate Form*[*]
182D+ZWJ	(x__)	*First Initial Form*
182D+FVS1+ZWJ	(x__)	*Second Initial Form*[℮]
182D+FVS2+ZWJ	(x__)	*Third Initial Form*

STATUS: Proposal #12 — (context-driven)

| ZWJ+182D+ZWJ | (x__) | *First Medial Form* |
| ZWJ+182D+FVS1+ZWJ | (x__) | *Second Medial Form* |

(context-driven)

| ZWJ+182D+FVS2+ZWJ | (x__) | *Third Medial Form* |

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

| ZWJ+182D+FVS3+ZWJ | (x__) | *Fourth Medial Form* |

(context-driven)

| ZWJ+182D+FVS4+ZWJ | (x__) | *Fifth Medial Form* |

STATUS: Proposal #13 — (needed to over-ride default context) (COG+FVS4+A+FVS1+GULA)

| ZWJ+182D | (x__) | *First Final Form* |

(NOTE: error in Chinese Standard - missing)

| ZWJ+182D+FVS1 | (x__) | *Second Final Form* |

(needed to over-ride default context) (SIG+FVS1)

| ZWJ+182D+FVS2 | (x__) | *Third Final Form* |

(context-driven) (ABSIG+FVS2)

182E (x_xx) MONGOLIAN LETTER MA

182E+ZWJ	(x_xx)	*Initial Form*
ZWJ+182E+ZWJ	(x_xx)	*Medial Form*
ZWJ+182E	(x_xx)	*Final Form*

(also implemented with MVS)

182F (xxxx) MONGOLIAN LETTER LA

182F+ZWJ	(xxxx)	*Initial Form*
ZWJ+182F+ZWJ	(xxxx)	*Medial Form*
ZWJ+182F	(xxxx)	*Final Form*

(also implemented with MVS)

1830 (xxxx) MONGOLIAN LETTER SA

1830+ZWJ	(xxxx)	*Initial Form*
ZWJ+1830+ZWJ	(xxxx)	*Medial Form*
ZWJ+1830	(xxxx)	*First Final Form*
ZWJ+1830+FVS1	(x__)	*Second Final Form*[℮]

ZWJ+1830+FVS2	ᠰ (__x)	*Third Final Form*[æ]

1831 (xx__)   ᠱ   MONGOLIAN LETTER SHA

1831+ZWJ	(xx__)	*Initial Form*
ZWJ+1831+ZWJ	(xx__)	*Medial Form*
ZWJ+1831	(xx__)	*Final Form*

1832 (x___)   ᠲ   MONGOLIAN LETTER TA

1832+ZWJ	(x___)	*Initial Form*
ZWJ+1832+ZWJ	(x___)	*First Medial Form*
ZWJ+1832+FVS1+ZWJ	(x___)	*Second Medial Form*[æ]
ZWJ+1832	(x___)	*Final Form*

1833 (x___)   ᠳ   MONGOLIAN LETTER DA

1833+ZWJ	(x___)	*First Initial Form*
1833+FVS1+ZWJ	(x___)	*Second Initial Form* (also implemented with NNBSP)
ZWJ+1833+ZWJ	(x___)	*First Medial Form*
ZWJ+1833+FVS1+ZWJ	(x___)	*Second Medial Form* (context-driven)
ZWJ+1833	(x___)	*First Final Form*
ZWJ+1833+FVS1	(x___)	*Second Final Form*[æ]

1834 (xxxx)   ᠴ   MONGOLIAN LETTER CHA

1834+ZWJ	(xxxx)	*Initial Form*
ZWJ+1834+ZWJ	(xxxx)	*Medial Form*
ZWJ+1834	(x___)	*Final Form*

1835 (x__x)   ᠵ   MONGOLIAN LETTER JA

1835+ZWJ	(x__x)	*Initial Form*
ZWJ+1835+ZWJ	(x__x)	*First Medial Form*
ZWJ+1835+FVS1+ZWJ	(x___)	*Second Medial Form* (implemented with MVS & NNBSP only - actually - processed as final when pre-MVS/NNBSP)
ZWJ+1835	(x___)	*First Final Form*

1836 (x_xx)   ᠶ   MONGOLIAN LETTER YA

1836+ZWJ	(x_xx)	*First Initial Form*
1836+FVS1+ZWJ	(x___)	*Second Initial Form* (context-driven)
ZWJ+1836+ZWJ	(x_xx)	*First Medial Form*
ZWJ+1836+FVS1+ZWJ	(x___)	*Second Medial Form* (context-driven AND also needed to over-ride default context)
ZWJ+1836+FVS2+ZWJ	(x___)	*Third Medial Form* (implemented with MVS & NNBSP only - actually - processed as final when pre-MVS/NNBSP)
ZWJ+1836	(___)	*Final Form*

1837 (xxx_)   ᠷ   MONGOLIAN LETTER RA

1837+ZWJ	(xxx_)	*Initial Form*
ZWJ+1837+ZWJ	(xxx_)	*Medial Form*
ZWJ+1837	(xxx_)	*Final Form* (also implemented with MVS)

1838 (xxxx)   ᠸ   MONGOLIAN LETTER WA

1838+ZWJ	(xxxx)	*Initial Form*
ZWJ+1838+ZWJ	(xxxx)	*First Medial Form*
ZWJ+1838+FVS1+ZWJ	(x___)	*Second Medial Form* (context-driven)
ZWJ+1838	(x___)	*First Final Form*
ZWJ+1838+FVS1	(x___)	*Second Final Form*[æ] (only implemented with MVS)

1839 (x___)   ᠹ   MONGOLIAN LETTER FA[s]

1839+ZWJ	(x___)	*Initial Form*
ZWJ+1839+ZWJ	(x___)	*Medial Form*
ZWJ+1839	(x___)	*Final Form*

183A (xxxx)   ᠺ   MONGOLIAN LETTER KA[s]

183A+ZWJ	(xxxx)	*Initial Form*
ZWJ+183A+ZWJ	(xxxx)	*Medial Form*
ZWJ+183A	(x___)	*Final Form*

183B (xx__)   ᠻ   MONGOLIAN LETTER KHA[s]

183B+ZWJ	(xx__)	*Initial Form*
ZWJ+183B+ZWJ	(xx__)	*Medial Form*
ZWJ+183B	(xx__)	*Final Form*

183C (x___)   ᠼ   MONGOLIAN LETTER TSA

183C+ZWJ	(x___)	*Initial Form*
ZWJ+183C+ZWJ	(x___)	*Medial Form*
ZWJ+183C	(x___)	*Final Form*

183D (x___)   ᠽ   MONGOLIAN LETTER ZA

183D+ZWJ	(x___)	*Initial Form*
ZWJ+183D+ZWJ	(x___)	*Medial Form*
ZWJ+183D	(x___)	*Final Form*

183E (x___)   ᠾ   MONGOLIAN LETTER HAA

183E+ZWJ	(x___)	*Initial Form*
ZWJ+183E+ZWJ	(x___)	*Medial Form*
ZWJ+183E	(x___)	*Final Form*

183F (x___)   ᠿ   MONGOLIAN LETTER ZRA

183F+ZWJ	(x___)	*Initial Form*
ZWJ+183F+ZWJ	(x___)	*Medial Form*
ZWJ+183F	(x___)	*Final Form*

1840 (xx__)   ᡀ   MONGOLIAN LETTER LHA

1840+ZWJ	(xx__)	*Initial Form*
ZWJ+1840+ZWJ	(xx__)	*Medial Form*
ZWJ+1840	(___)	*Final Form*

1841 (x___)   ᡁ   MONGOLIAN LETTER ZHI

1841+ZWJ	(x___)	*Initial Form*
ZWJ+1841+ZWJ	(x___)	*Medial Form*

ZWJ+1841	ᡁ (__)	*Final Form*	

1842 (x__) ᡂ MONGOLIAN LETTER CHI

1842+ZWJ	ᡂ (x_)	*Initial Form*
ZWJ+1842+ZWJ	ᡂ (x_)	*Medial Form*
ZWJ+1842	ᡂ (__)	*Final Form*

Todo Letters

1843 (_x__) ᡃ MONGOLIAN LETTER TODO LONG VOWEL SIGN

1843+ZWJ	ᡃ (_x_) *Initial Form* (context-driven)	
ZWJ+1843+ZWJ	ᡃ (_x_) *Medial Form* (context-driven)	
ZWJ+1843	᠗ (_x_) *First Final Form* (context-driven)	
ZWJ+1843+FVS1	ᡃ (_x_) *Second Final Form* STATUS: Proposal #14	

1844 (_x__) ᡄ MONGOLIAN LETTER TODO E

1844+ZWJ	ᡄ (x_)	*Initial Form*
ZWJ+1844+ZWJ	ᡄ (x_)	*First Medial Form*
ZWJ+1844+FVS1+ZWJ	ᡄ (x_)	*Second Medial Form*^Æ
ZWJ+1844	ᡄ (x_)	*Final Form*

1845 (_x__) ᡅ MONGOLIAN LETTER TODO I

1845+ZWJ	ᡅ (x_)	*Initial Form*
ZWJ+1845+ZWJ	ᡅ (x_)	*First Medial Form*
ZWJ+1845+FVS1+ZWJ	ᡅ (x_) *Second Medial Form* (context-driven)	
ZWJ+1845	ᡅ (x_)	*Final Form*

1846 (_x__) ᡆ MONGOLIAN LETTER TODO O

1846+ZWJ	ᡆ (x_)	*Initial Form*
ZWJ+1846+ZWJ	ᡆ (x_)	*First Medial Form*
ZWJ+1846+FVS1+ZWJ	ᡆ (x_)	*Second Medial Form*^Æ
ZWJ+1846	ᡆ (x_)	*Final Form*

1847 (_x__) ᡇ MONGOLIAN LETTER TODO U

1847+FVS1	ᡇ (x_)	*Second Isolate Form*
1847+ZWJ	ᡇ (x_)	*Initial Form*
ZWJ+1847+ZWJ	ᡇ (x_)	*First Medial Form*
ZWJ+1847+FVS1+ZWJ	ᡇ (x_)	*Second Medial Form*^Æ
ZWJ+1847+FVS2+ZWJ	ᡇ (x_) *Third Medial Form* (context-driven)	
ZWJ+1847	ᡇ (x_)	*First Final Form*
ZWJ+1847+FVS1	ᡇ (x_) *Second Final Form* (context-driven)	

1848 (_x__) ᡈ MONGOLIAN LETTER TODO OE

1848+ZWJ	ᡈ (x_)	*Initial Form*
ZWJ+1848+ZWJ	ᡈ (x_)	*First Medial Form*
ZWJ+1848+FVS1+ZWJ	ᡈ (x_)	*Second Medial Form*^Æ
ZWJ+1848	ᡈ (x_)	*Final Form*

1849 (_x__) ᡉ MONGOLIAN LETTER TODO UE

1849+FVS1	ᡉ (x_)	*Second Isolate Form*
1849+ZWJ	ᡉ (x_)	*Initial Form*
ZWJ+1849+ZWJ	ᡉ (x_)	*First Medial Form*
ZWJ+1849+FVS1+ZWJ	ᡉ (x_)	*Second Medial Form*^Æ
ZWJ+1849	ᡉ (x_)	*Final Form*

184A (_x__) ᡊ MONGOLIAN LETTER TODO ANG

184A	ᡊ (__)	*Isolate Form*
184A+ZWJ	ᡊ (__)	*Initial Form*
ZWJ+184A+ZWJ	ᡊ (x_)	*Medial Form*
ZWJ+184A	ᡊ (x_)	*Final Form*^%

184B (_x__) ᡋ MONGOLIAN LETTER TODO BA

184B	ᡋ (__)	*Isolate Form*
184B+ZWJ	ᡋ (x_)	*Initial Form*
ZWJ+184B+ZWJ	ᡋ (x_)	*Medial Form*
ZWJ+184B	ᡋ (x_)	*Final Form*^%

184C (_x__) ᡌ MONGOLIAN LETTER TODO PA^$

184C+ZWJ	ᡌ (x_)	*Initial Form*
ZWJ+184C+ZWJ	ᡌ (x_)	*Medial Form*
ZWJ+184C	ᡌ (x_)	*Final Form*

184D (_x__) ᡍ MONGOLIAN LETTER TODO QA

184D+FVS1	ᡍ (x_)	Second *Isolate Form*^*
184D+ZWJ	ᡍ (x_)	*Initial Form*
ZWJ+184D+ZWJ	ᡍ (x_)	*Medial Form*
ZWJ+184D	ᡍ (x_)	*Final Form*

184E (_x__) ᡎ MONGOLIAN LETTER TODO GA

184E+FVS1	ᡎ (x_)	Second *Isolate Form*^*
184E+ZWJ	ᡎ (x_)	*Initial Form*
ZWJ+184E+ZWJ	ᡎ (x_)	*First Medial Form*
ZWJ+184E+FVS1+ZWJ	ᡎ (x_) *Second Medial Form* (context-driven)	
ZWJ+184E	ᡎ (x_)	*Final Form*

184F (_x__) ᡏ MONGOLIAN LETTER TODO MA

184F	ᡏ (__)	*Isolate Form*
184F+ZWJ	ᡏ (x_)	*Initial Form*
ZWJ+184F+ZWJ	ᡏ (x_)	*Medial Form*
ZWJ+184F	ᡏ (x_)	*Final Form*^%

1850 (_x__) ᡐ MONGOLIAN LETTER TODO TA

1850+ZWJ	ᡐ (x_)	*Initial Form*
ZWJ+1850+ZWJ	ᡐ (x_)	*Medial Form*
ZWJ+1850	ᡐ (x_)	*Final Form*

1851 (_x__) ᡑ MONGOLIAN LETTER TODO DA

1851+ZWJ	ᡑ (_x_)	*Initial Form*
ZWJ+1851+ZWJ	ᡑ (_x_)	*Medial Form*
ZWJ+1851	ᡑ (_x_)	*Final Form*

1852 (_x_) ᡒ MONGOLIAN LETTER TODO CHA

1852+ZWJ	ᡒ (_x_)	*Initial Form*
ZWJ+1852+ZWJ	ᡒ (_x_)	*Medial Form*
ZWJ+1852	ᡒ (_x_)	*Final Form*

1853 (xx_) ᡓ MONGOLIAN LETTER TODO JA

1853+ZWJ	ᡓ (xx_)	*Initial Form*
ZWJ+1853+ZWJ	ᡓ (xx_)	*Medial Form*
ZWJ+1853	ᡓ (x_)	*Final Form*

1854 (_x_) ᡔ MONGOLIAN LETTER TODO TSA

1854+ZWJ	ᡔ (_x_)	*Initial Form*
ZWJ+1854+ZWJ	ᡔ (_x_)	*Medial Form*
ZWJ+1854	ᡔ (_x_)	*Final Form*

1855 (_x_) ᡕ MONGOLIAN LETTER TODO YA

1855+ZWJ	ᡕ (_x_)	*Initial Form*
ZWJ+1855+ZWJ	ᡕ (_x_)	*Medial Form*
ZWJ+1855	ᡕ (__)	*Final Form*

1856 (_x_) ᡖ MONGOLIAN LETTER TODO WA

1856+ZWJ	ᡖ (_x_)	*Initial Form*
ZWJ+1856+ZWJ	ᡖ (_x_)	*Medial Form*
ZWJ+1856	ᡖ (_x_)	*Final Form*

1857 (_x_) ᡗ MONGOLIAN LETTER TODO KA[$]

1857+ZWJ	ᡗ (_x_)	*Initial Form*
ZWJ+1857+ZWJ	ᡗ (_x_)	*Medial Form*
ZWJ+1857	ᡗ (_x_)	*Final Form*

1858 (xx_) ᡘ MONGOLIAN LETTER TODO GAA[$]

1858+ZWJ	ᡘ (xx_)	*Initial Form*
ZWJ+1858+ZWJ	ᡘ (xx_)	*Medial Form*
ZWJ+1858	ᡘ (__)	*Final Form*

1859 (_x_) ᡙ MONGOLIAN LETTER TODO HAA

1859	ᡙ (__)	*Isolate Form*
1859+ZWJ	ᡙ (_x_)	*Initial Form*
ZWJ+1859+ZWJ	ᡙ (_x_)	*Medial Form*
ZWJ+1859	ᡙ (_x_)	*Final Form*[%]

185A (_x_) ᡚ MONGOLIAN LETTER TODO JIA

185A+ZWJ	ᡚ (_x_)	*Initial Form*
ZWJ+185A+ZWJ	ᡚ (__)	*Medial Form*
ZWJ+185A	ᡚ (__)	*Final Form*

185B (xx_) ᡛ MONGOLIAN LETTER TODO NIA

185B+ZWJ	ᡛ (_x_)	*Initial Form*
ZWJ+185B+ZWJ	ᡛ (__)	*Medial Form*
ZWJ+185B	ᡛ (__)	*Final Form*

185C (xx_) ᡜ MONGOLIAN LETTER TODO DZA

185C+ZWJ	ᡜ (xx_)	*Initial Form*
ZWJ+185C+ZWJ	ᡜ (xx_)	*Medial Form*
ZWJ+185C	ᡜ (x_)	*Final Form*

Sibe Letters

185D (_xx) ᡝ MONGOLIAN LETTER SIBE E

185D	ᡝ (_x)	*Isolate Form*
185D+ZWJ	ᡝ (_xx)	*Initial Form*
ZWJ+185D+ZWJ	ᡝ (_xx)	*First Medial Form*
ZWJ+185D+FVS1+ZWJ	ᡝ (_xx)	*Second Medial Form* (context-driven)
ZWJ+185D	ᡝ (_xx)	*First Final Form*[%]
ZWJ+185D+FVS1	ᡝ (_xx)	*Second Final Form* (context-driven)

185E (_x_) ᡞ MONGOLIAN LETTER SIBE I

185E	ᡞ (_x)	*Isolate Form*
185E+ZWJ	ᡞ (_x)	*Initial Form*
ZWJ+185E+ZWJ	ᡞ (_x_)	*First Medial Form*
ZWJ+185E+FVS1+ZWJ	ᡞ (_x_)	*Second Medial Form*[%] (context-driven)
ZWJ+185E+FVS2+ZWJ	ᡞ (_x_)	*Third Medial Form* (context-driven)
ZWJ+185E	ᡞ (_x_)	*First Final Form* (also implemented with NNBSP – actually processed as isolate in accusative suffix)
ZWJ+185E+FVS1	ᡞ (_x_)	*Second Final Form* (context-driven)
ZWJ+185E+FVS2	ᡞ (_x_)	*Third Final Form*

185F (_xx) ᡟ MONGOLIAN LETTER SIBE IY

185F+ZWJ	ᡟ (__)	*Initial Form*
ZWJ+185F+ZWJ	ᡟ (_xx)	*Medial Form*
ZWJ+185F	ᡟ (_xx)	*Final Form*

1860 (_xx) ᡠ MONGOLIAN LETTER SIBE UE

1860+ZWJ	ᡠ (_xx)	*Initial Form*
ZWJ+1860+ZWJ	ᡠ (_xx)	*First Medial Form*
ZWJ+1860+FVS1+ZWJ	ᡠ (_xx)	*Second Medial Form* (context-driven)
ZWJ+1860	ᡠ (_xx)	*First Final Form*
ZWJ+1860+FVS1	ᡠ (_xx)	*Second Final Form* (context-driven)
ZWJ+1860+FVS2	ᡠ (_xx)	*Third Final Form* (context-driven) STATUS: Proposal #20

1861 (_xx) ᡡ MONGOLIAN LETTER SIBE U

1861	ᡡ (_x)	*Isolate Form*
1861+ZWJ	ᡡ (_x)	*Initial Form*

Code	Form	Character Name
ZWJ+1861+ZWJ	(_xx) *Medial Form*%	
ZWJ+1861	(_xx) *Final Form*	

1862 (_x_) MONGOLIAN LETTER SIBE ANG

1862	(__)	*Isolate Form*
1862+ZWJ	(__)	*Initial Form*
ZWJ+1862+ZWJ	(_x)	*Medial Form*
ZWJ+1862	(_x)	*Final Form*%

1863 (_x_) MONGOLIAN LETTER SIBE KA

1863	(_x)	*First Isolate Form*
1863+FVS1 — STATUS: Proposal #15	(_x)	*Second Isolate Form**
1863+ZWJ	(_x)	*Initial Form*
ZWJ+1863+ZWJ	(_x)	*First Medial Form*
ZWJ+1863+FVS1+ZWJ	(_x)	*Second Medial Form* (context-driven)
ZWJ+1863	(_x)	*Final Form*%

1864 (_xx) MONGOLIAN LETTER SIBE GA

1864+FVS1 — STATUS: Proposal #16	(_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 — STATUS: Proposal #17	(_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$

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

1869 (_xx) MONGOLIAN LETTER SIBE DA

1869+ZWJ	(_xx)	*First Initial Form*
1869+FVS1+ZWJ	(_xx)	*Second Initial Form* (context-driven and also NNBSP)
ZWJ+1869+ZWJ	(_xx)	*First Medial Form*
ZWJ+1869+FVS1+ZWJ	(_xx)	*Second Medial Form* (context-driven)
ZWJ+1869	(__)	*Final Form*

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$

186C+ZWJ	(_x)	*Initial Form*
ZWJ+186C+ZWJ	(_x)	*Medial Form*
ZWJ+186C	(__)	*Final Form*

186D (_x_) MONGOLIAN LETTER SIBE HAA$

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* (context-driven)
ZWJ+186F+ZWJ	(_xx)	*First Medial Form*
ZWJ+186F+FVS1+ZWJ	(_xx)	*Second Medial Form* (context-driven)
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)	ỏ	MONGOLIAN LETTER SIBE ZHA

1872+ZWJ	(__x)	*Initial Form*
ZWJ+1872+ZWJ	(__x)	*Medial Form*
ZWJ+1872	(__)	*Final Form*

Manchu Letters

1873	(__x)	ᡳ	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* (context-driven)
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 NNBSP - 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* (context-driven) (not in current USVL)

1874	(__x)	MONGOLIAN LETTER MANCHU KA

1874	(__x)	*First Isolate Form*
1874+FVS1	(__x)	*Second Isolate Form* STATUS: Proposal #18
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	(__)	*Isolate Form*
1875+ZWJ	(__x)	*Initial Form*
ZWJ+1875+ZWJ	(__x)	*Medial Form*
ZWJ+1875	(__x)	*Final Form*%

1876	(__x)	MONGOLIAN LETTER MANCHU FA

1876	(__)	*Isolate Form*
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)	MONGOLIAN LETTER ALI GALI INVERTED UBADAMA

1887	(xx_x)	MONGOLIAN LETTER ALI GALI A

1887+ZWJ	(__)	*Initial Form*
ZWJ+1887+ZWJ	(__)	*Medial Form*
ZWJ+1887	(x_x)	*First Final Form*
ZWJ+1887+FVS1	(x__)	*Second Final Form*
ZWJ+1887+FVS2	(xx__)	*Third Final Form*
ZWJ+1887+FVS3	(xx_x)	*Fourth Final Form*
ZWJ+1887+FVS4	(x__)	*Fifth Final Form* STATUS: Proposal #19

1888	(x__x)	MONGOLIAN LETTER ALI GALI I

1888+ZWJ	(__)	*Initial Form*
ZWJ+1888+ZWJ	(x_x)	*First Medial Form*
ZWJ+1888+ZWJ+FVS1	(x__x)	*Second Medial Form* (context-driven) STATUS: Proposal #21
ZWJ+1888	(x__)	*First Final Form*
ZWJ+1888+FVS1	(__x)	*Second Final Form* (context-driven)

1889	(xx__)	MONGOLIAN LETTER ALI GALI KA$

1889+ZWJ	(xx__)	*Initial Form*
ZWJ+1889+ZWJ	(__)	*Medial Form*
ZWJ+1889	(__)	*Final Form*

188A (xx__) ꢊ		MONGOLIAN LETTER ALI GALI NGA	
188A+ZWJ	ꢊ (xx__)	*First Initial Form*	
188A+FVS1+ZWJ	ꢊ (xx__)	*Second Initial Form* (context-driven)	
ZWJ+188A+ZWJ	ꢊ (xx__)	*First Medial Form*	
ZWJ+188A+FVS1+ZWJ	ꢊ (xx__)	*Second Medial Form* (context-driven)	
ZWJ+188A	ꢊ (__)	*Final Form*	

188B (xx__) ꢋ		MONGOLIAN LETTER ALI GALI CA	
188B+ZWJ	ꢋ (xx__)	*Initial Form*	
ZWJ+188B+ZWJ	ꢋ (xx__)	*Medial Form*	
ZWJ+188B	ꢋ (__)	*Final Form*	

188C (xx__) ꢌ		MONGOLIAN LETTER ALI GALI TTA	
188C+ZWJ	ꢌ (x__)	*Initial Form*	
ZWJ+188C+ZWJ	ꢌ (__)	*Medial Form*	
ZWJ+188C	ꢌ (__)	*Final Form*	

188D (xx__) ꢍ		MONGOLIAN LETTER ALI GALI TTHA	
188D+ZWJ	ꢍ (x__)	*Initial Form*	
ZWJ+188D+ZWJ	ꢍ (__)	*Medial Form*	
ZWJ+188D	ꢍ (__)	*Final Form*	

188E (xx__) ꢎ		MONGOLIAN LETTER ALI GALI DDA	
188E+ZWJ	ꢎ (x__)	*Initial Form*	
ZWJ+188E+ZWJ	ꢎ (__)	*Medial Form*	
ZWJ+188E	ꢎ (__)	*Final Form*	

188F (xx_x) ꢏ		MONGOLIAN LETTER ALI GALI NNA	
188F+ZWJ	ꢏ (x__)	*Initial Form*	
ZWJ+188F+ZWJ	ꢏ (__)	*Medial Form*	
ZWJ+188F	ꢏ (__)	*Final Form*	

1890 (x__) ꢐ		MONGOLIAN LETTER ALI GALI TA	
1890+ZWJ	ꢐ (x__)	*Initial Form*	
ZWJ+1890+ZWJ	ꢐ (__)	*Medial Form*	
ZWJ+1890	ꢐ (__)	*Final Form*	

1891 (x__) ꢑ		MONGOLIAN LETTER ALI GALI DA	
1891+ZWJ	ꢑ (x__)	*Initial Form*	
ZWJ+1891+ZWJ	ꢑ (__)	*Medial Form*	
ZWJ+1891	ꢑ (__)	*Final Form*	

1892 (xx_x) ꢒ		MONGOLIAN LETTER ALI GALI PA$^$	
1892+ZWJ	ꢒ (x__)	*Initial Form*	
ZWJ+1892+ZWJ	ꢒ (__)	*Medial Form*	
ZWJ+1892	ꢒ (__)	*Final Form*	

1893 (xx__) ꢓ		MONGOLIAN LETTER ALI GALI PHA$^$	
1893+ZWJ	ꢓ (x__)	*Initial Form*	

ZWJ+1893+ZWJ	ꢓ (__)	*Medial Form*	
ZWJ+1893	ꢓ (__)	*Final Form*	

1894 (xx__) ꢔ		MONGOLIAN LETTER ALI GALI SSA	
1894+ZWJ	ꢔ (xx__)	*Initial Form*	
ZWJ+1894+ZWJ	ꢔ (xx__)	*Medial Form*	
ZWJ+1894	ꢔ (__)	*Final Form*	

1895 (x__) ꢕ		MONGOLIAN LETTER ALI GALI ZHA	
1895+ZWJ	ꢕ (x__)	*Initial Form*	
ZWJ+1895+ZWJ	ꢕ (__)	*Medial Form*	
ZWJ+1895	ꢕ (__)	*Final Form*	

1896 (xx__) ꢖ		MONGOLIAN LETTER ALI GALI ZA	
1896+ZWJ	ꢖ (xx__)	*Initial Form*	
ZWJ+1896+ZWJ	ꢖ (xx__)	*Medial Form*	
ZWJ+1896	ꢖ (__)	*Final Form*	

1897 (xx__) ꢗ		MONGOLIAN LETTER ALI GALI AH	
1897+ZWJ	ꢗ (x__)	*Initial Form*	
ZWJ+1897+ZWJ	ꢗ (__)	*Medial Form*	
ZWJ+1897	ꢗ (__)	*Final Form*	

1898 (_x__) ꢘ		MONGOLIAN LETTER TODO ALI GALI TA	
1898+ZWJ	ꢘ (_x_)	*Initial Form*	
ZWJ+1898+ZWJ	ꢘ (__)	*Medial Form*	
ZWJ+1898	ꢘ (__)	*Final Form*	

1899 (_x__) ꢙ		MONGOLIAN LETTER TODO ALI GALI ZHA	
1899+ZWJ	ꢙ (_x_)	*Initial Form*	
ZWJ+1899+ZWJ	ꢙ (__)	*Medial Form*	
ZWJ+1899	ꢙ (__)	*Final Form*	

189A (___x) ꢚ		MONGOLIAN LETTER MANCHU ALI GALI GHA	
189A+ZWJ	ꢚ (__x)	*Initial Form*	
ZWJ+189A+ZWJ	ꢚ (__x)	*Medial Form*	
ZWJ+189A	ꢚ (__)	*Final Form*	

189B (___x) ꢛ		MONGOLIAN LETTER MANCHU ALI GALI NGA	
189B+ZWJ	ꢛ (__x)	*Initial Form*	
ZWJ+189B+ZWJ	ꢛ (__x)	*Medial Form*	
ZWJ+189B	ꢛ (__)	*Final Form*	

189C (___x) ꢜ		MONGOLIAN LETTER MANCHU ALI GALI CA	
189C+ZWJ	ꢜ (__x)	*Initial Form*	
ZWJ+189C+ZWJ	ꢜ (__x)	*Medial Form*	
ZWJ+189C	ꢜ (__)	*Final Form*	

189D (___x) ꢝ		MONGOLIAN LETTER MANCHU ALI GALI JHA	
189D+ZWJ	ꢝ (__x)	*Initial Form*	
ZWJ+189D+ZWJ	ꢝ (__x)	*Medial Form*	

ZWJ+189D	𐡎 (__)	*Final Form*

189E (__x) 𐡎   MONGOLIAN LETTER MANCHU ALI GALI TTA

189E+ZWJ	𐡎 (__x)	*Initial Form*
ZWJ+189E+ZWJ	𐡎 (__x)	*Medial Form*
ZWJ+189E	𐡎 (__)	*Final Form*

189F (__x) 𐡎   MONGOLIAN LETTER MANCHU ALI GALI DDHA

189F+ZWJ	𐡎 (__x)	*Initial Form*
ZWJ+189F+ZWJ	𐡎 (__x)	*Medial Form*
ZWJ+189F	𐡎 (__)	*Final Form*

18A0 (__x) 𐡎   MONGOLIAN LETTER MANCHU ALI GALI TA

18A0+ZWJ	𐡎 (__x)	*First Initial Form*
<mark>18A0+FVS1+ZWJ</mark>	𐡎 (__x)	*Second Initial Form* (context-driven) (not in current USVL)
ZWJ+18A0+ZWJ	𐡎 (__x)	*First Medial Form*
<mark>ZWJ+18A0+FVS1+ZWJ</mark>	𐡎 (__x)	*Second Medial Form* (context-driven) (not in current USVL)
ZWJ+18A0	𐡎 (__)	*Final Form*

18A1 (__x) 𐡎   MONGOLIAN LETTER MANCHU ALI GALI DHA

18A1+ZWJ	𐡎 (__x)	*First Initial Form*
<mark>18A1+FVS1+ZWJ</mark>	𐡎 (__)	*Second Initial Form* (context-driven) (not in current USVL)
ZWJ+18A1+ZWJ	𐡎 (__x)	*First Medial Form*
<mark>ZWJ+18A1+FVS1+ZWJ</mark>	𐡎 (__)	*Second Medial Form* (context-driven) (not in current USVL)
ZWJ+18A1	𐡎 (__)	*Final Form*

18A2 (__x) 𐡎   MONGOLIAN LETTER MANCHU ALI GALI SSA

18A2+ZWJ	𐡎 (__x)	*Initial Form*
ZWJ+18A2+ZWJ	𐡎 (__x)	*Medial Form*
ZWJ+18A2	𐡎 (__)	*Final Form*

18A3 (__x) 𐡎   MONGOLIAN LETTER MANCHU ALI GALI CYA

18A3+ZWJ	𐡎 (__x)	*Initial Form*
ZWJ+18A3+ZWJ	𐡎 (__x)	*Medial Form*
ZWJ+18A3	𐡎 (__)	*Final Form*

18A4 (__x) 𐡎   MONGOLIAN LETTER MANCHU ALI GALI ZHA

18A4+ZWJ	𐡎 (__x)	*Initial Form*
ZWJ+18A4+ZWJ	𐡎 (__x)	*Medial Form*
ZWJ+18A4	𐡎 (__)	*Final Form*

18A5 (__x) 𐡎   MONGOLIAN LETTER MANCHU ALI GALI ZA

18A5+ZWJ	𐡎 (__x)	*Initial Form*
ZWJ+18A5+ZWJ	𐡎 (__x)	*Medial Form*
ZWJ+18A5	𐡎 (__)	*Final Form*

18A6 (xx__) 𐡎   MONGOLIAN LETTER ALI GALI HALF U

18A6+ZWJ	𐡎 (__x)	*Initial Form*
ZWJ+18A6+ZWJ	𐡎 (__)	*Medial Form*
ZWJ+18A6	𐡎 (__)	*Final Form*

18A7 (xx_x) 𐡎   MONGOLIAN LETTER ALI GALI HALF YA

18A7+ZWJ	𐡎 (__x)	*Initial Form*
ZWJ+18A7+ZWJ	𐡎 (__x)	*Medial Form*
ZWJ+18A7	𐡎 (__)	*Final Form*

18A8 (__x) 𐡎   MONGOLIAN LETTER MANCHU ALI GALI BHA[+]

18A8+ZWJ	𐡎 (__x)	*Initial Form*
ZWJ+18A8+ZWJ	𐡎 (__)	*Medial Form*
ZWJ+18A8	𐡎 (__)	*Final Form*

18AA (__x) 𐡎   MONGOLIAN LETTER MANCHU ALI GALI LHA

18AA+ZWJ	𐡎 (__x)	*Initial Form*
ZWJ+18AA+ZWJ	𐡎 (__x)	*Medial Form*
ZWJ+18AA	𐡎 (__)	*Final Form*