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)

January 20, 2017 *(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.

($X_1X_2X_3X_4$) – 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).

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 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__)	᠈	MONGOLIAN INVERTED BIRGA
11668	(xx__)	᠉	MONGOLIAN INVERTED BIRGA WITH DOUBLE ORNAMENT
11669	(xx__)	᠊	MONGOLIAN SWIRL BIRGA
1166A	(xx__)	᠋	MONGOLIAN SWIRL BIRGA WITH ORNAMENT
1166B	(xx__)	᠌	MONGOLIAN SWIRL BIRGA WITH DOUBLE ORNAMENT
1166C	(xx__)	᠍	MONGOLIAN TURNED SWIRL BIRGA WITH DOUBLE ORNAMENT
1801	(xxxx)	᠁	MONGOLIAN ELLIPSIS
1802	(xx__)	᠂	MONGOLIAN COMMA
1803	(xx__)	᠃	MONGOLIAN FULL STOP
1804	(xxxx)	᠄	MONGOLIAN COLON
1805	(xx__)	᠅	MONGOLIAN FOUR DOTS
1806	(_x__)	᠆	MONGOLIAN TODO SOFT HYPHEN
1808	(___x)	᠇	MONGOLIAN MANCHU COMMA
1809	(___x)	᠈	MONGOLIAN MANCHU FULL STOP

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

Marks

1885	(xx_x)	◌᠋	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) FVS1 MONGOLIAN FREE VARIATION SELECTOR ONE
180C (xxxx) FVS2 MONGOLIAN FREE VARIATION SELECTOR TWO
180D (xxxx) FVS3 MONGOLIAN FREE VARIATION SELECTOR THREE

Format Characters

180E (xxxx) MVS MONGOLIAN VOWEL SEPARATOR
(or … Mongolian Tsatslag Connector)

180F (xxxx) NNBSP MONGOLIAN SUFFIX CONNECTOR
Proposal #1 Graphic should read MSC for Mongolian Suffix Connector

NOTE: A Mongolian vertical font should also include the control characters NNBSP (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__) ᠐ 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 (__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) ᠠ MONGOLIAN LETTER A

1820+FVS1 ᠡ (xx__) *Second Isolate Form*
1820+ZWJ ᠠ (xxxx) *First Initial Form*
ZWJ+1820+ZWJ ᠊ (xxxx) *First Medial Form*
ZWJ+1820+FVS1+ZWJ ᠊ (xx__) *Second Medial Form*[&]
ZWJ+1820+FVS2+ZWJ ᠊ (xx__) *Third Medial Form*
(only implemented with NNBSP - actually - processed as initial in ACA suffix)
ZWJ+1820 ᠠ (xxxx) *First Final Form*
ZWJ+1820+FVS1 ᠠ (xx__) *Second Final Form*
(only implemented with MVS/NNBSP)

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

1821 (x___) ᠡ MONGOLIAN LETTER E

1821+ZWJ ᠡ (x___) *First Initial Form*
1821+FVS1+ZWJ ᠡ (x___) *Second Initial Form*[&]
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 NNBSP - actually - processed as initial in ECA suffix)
ZWJ+1821 ᠠ (x___) *First Final Form*
ZWJ+1821+FVS1 ᠠ (x___) *Second Final Form*
(identical with comments on U+1820 Second Final)

1822 (x___) ᠢ MONGOLIAN LETTER I

1822+ZWJ ᠢ (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*[&]
ZWJ+1822+FVS2+ZWJ ᠊ (x___) *Third Medial Form*
STATUS: Included in Chinese Proposal – WG2#65
(context-driven)
ZWJ+1822+FVS3+ZWJ ᠊ (x___) *Fourth Medial Form*
STATUS: Discussion needed
(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: Included in Chinese Proposal – WG2#65 – pending discussion
ZWJ+1822+FVS2 ᠊ (x___) *Third Final Form*
STATUS: Included in Chinese Proposal – WG2#65
(only implemented with NNBSP)

1823 (x_xx) ᠣ MONGOLIAN LETTER O

1823+ZWJ ᠣ (x_xx) *Initial Form*
ZWJ+1823+ZWJ ᠊ (x_xx) *First Medial Form*
ZWJ+1823+FVS1+ZWJ ᠊ (x___) *Second Medial Form*[&]
ZWJ+1823 ᠣ (x_xx) *First Final Form*
ZWJ+1823+FVS1 ᠣ (x_xx) *Second Final Form*[&]

1824 (x___) ᠤ MONGOLIAN LETTER U

1824 ᠤ (x___) *First Isolate Form*
1824+FVS1 ᠤ (___) *Second Isolate Form*
STATUS: Included in Chinese Proposal – WG2#65
(NOTE: this is the Unicode presentation form)
1824+ZWJ ᠤ (x___) *Initial Form*[%]
ZWJ+1824+ZWJ ᠊ (x___) *First Medial Form*
(also implemented with NNBSP - actually processed as initial in genitive suffix)

ZWJ+1824+FVS1+ZWJ ᠸ (x__) *Second Medial Form*[&]

ZWJ+1824 ᠪ (x__) *First Final Form*

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

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

STATUS: Included in Chinese Proposal – WG2#65

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

STATUS: Included in Chinese Proposal – WG2#65

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

1825 (x___) ᠹ MONGOLIAN LETTER OE

1825+ZWJ ᠹᠵ (x__) *Initial Form*

ZWJ+1825+ZWJ ᠸ (x__) *First Medial Form*

ZWJ+1825+FVS1+ZWJ ᠺ (x__) *Second Medial Form*

(context-driven)

ZWJ+1825+FVS2+ZWJ ᠻ (x__) *Third Medial Form*[&]

ZWJ+1825 ᠪ (x__) *First Final Form*

ZWJ+1825+FVS1 ᠫ (x__) *Second Final Form*[&]

1826 (x___) ᠺ MONGOLIAN LETTER UE

1826 ᠺᠵ (x__) *First Isolate Form*

1826+FVS1 ᠺᠶ (x__) *Second Isolate Form*

1826+FVS2 ᠺᠷ (___) *Third Isolate Form*

STATUS: Included in Chinese Proposal – WG2#65

(NOTE: this is the Unicode presentation form)

1826+ZWJ ᠺᠵ (x__) *Initial Form*[%]

ZWJ+1826+ZWJ ᠸ (x__) *First Medial Form*

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

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

(context-driven)

ZWJ+1826+FVS2+ZWJ ᠻ (x__) *Third Medial Form*[&]

ZWJ+1826+FVS3+ZWJ ᠸ (x__) *Fourth Medial Form*

STATUS: Discussion needed

(needed to handle DUEGER without NNBSP)

ZWJ+1826 ᠪ (x__) *First Final Form*

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

ZWJ+1826+FVS1 ᠫ (x__) *Second Final Form*[&]

ZWJ+1826+FVS2 ᠬ (x__) *Third Final Form*

STATUS: Included in Chinese Proposal – WG2#65

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

1827 (x___) ᠽ MONGOLIAN LETTER EE

1827+ZWJ ᠽᠵ (x__) *Initial Form*

ZWJ+1827+ZWJ ᠸ (x__) *Medial Form*

ZWJ+1827 ᠭ (x__) *Final Form*

1828 (xxxx) ᠾ MONGOLIAN LETTER NA

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

(also context-driven in Todo)

1828+FVS1+ZWJ ᠾ (x__) *Second Initial Form*[&]

ZWJ+1828+ZWJ ᠸ (xxxx) *First Medial Form*

(context-driven)

(may be implemented as a toggle)

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

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

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

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

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

(context-driven, Todo only)

ZWJ+1828+VS01+ZWJ ᠸ (x__) *Fifth Medial Form*

STATUS: Discussion needed

(AN+VS01+AR must remove the dot)

ZWJ+1828 ᠹ (xxxx) *Final Form*

(context-driven – add in Baiti)

1829 (x__x) ᠼ MONGOLIAN LETTER ANG

1829+ZWJ ᠼᠵ (___) *Initial Form*

ZWJ+1829+ZWJ ᠼ (x__x) *Medial Form*

ZWJ+1829 ᠽ (x__x) *Final Form*

182A (x_xx) ᠿ MONGOLIAN LETTER BA[$]

182A+ZWJ ᠿᠵ (x_xx) *Initial Form*

ZWJ+182A+ZWJ ᠿ (x_xx) *Medial Form*

ZWJ+182A ᠿ (x_xx) *First Final Form*

ZWJ+182A+FVS1 ᠾ (x__) *Second Final Form*[&]

182B (x___) ᡀ MONGOLIAN LETTER PA[$]

182B+ZWJ ᡀᠵ (x__) *Initial Form*

ZWJ+182B+ZWJ ᡀ (x__) *Medial Form*

ZWJ+182B ᡀ (x__) *Final Form*

182C (x___) ᡁ MONGOLIAN LETTER QA

182C+FVS1 ᡁᠶ (x__) *Second Isolate Form*[*]

STATUS: Included in Chinese Proposal – WG2#65

182C+FVS2 ᡁᠷ (x__) *Third Isolate Form*[*]

STATUS: Included in Chinese Proposal – WG2#65

182C+ZWJ ᡁᠵ (x__) *First Initial Form*

182C+FVS1+ZWJ ᡁ (x__) *Second Initial Form*[&]

182C+FVS2+ZWJ ᡁ (x__) *Third Initial Form*

STATUS: Included in Chinese Proposal – WG2#65

182C+FVS3+ZWJ ᡁ (x__) *Fourth Initial Form*

STATUS: Included in Chinese Proposal – WG2#65

ZWJ+182C+ZWJ ᡂ (x__) *First Medial Form*

ZWJ+182C+FVS1+ZWJ ᡂ (x__) *Second Medial Form*[&]

ZWJ+182C+FVS2+ZWJ ᡃ (x__) *Third Medial Form*

STATUS: Included in Chinese Proposal – WG2#65

(actually - processed as final when pre-MVS)

ZWJ+182C+FVS3+ZWJ ᡃ (x__) *Fourth Medial Form*[&]

STATUS: Included in Chinese Proposal – WG2#65

(actually - processed as final when pre-MVS)

ZWJ+182C+VS01+ZWJ ᡁ (x__) *Fifth Medial Form*

STATUS: Included in Chinese Proposal – WG2#65

ZWJ+182C+VS02+ZWJ ᡁ (x__) *Sixth Medial Form*

STATUS: Included in Chinese Proposal – WG2#65

ZWJ+182C ᡃ (___) *Final Form*

182D (x___) ᡄ MONGOLIAN LETTER GA

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

STATUS: Included in Chinese Proposal – WG2#65

182D+FVS2 ᡄᠷ (x__) *Third Isolate Form*[*]

STATUS: Included in Chinese Proposal – WG2#65

182D+ZWJ ᡄᠵ (x__) *First Initial Form*

182D+FVS1+ZWJ ᡄ (x__) *Second Initial Form*[&]

182D+FVS2+ZWJ ᡄ (x__) *Third Initial Form*

STATUS: Included in Chinese Proposal – WG2#6

(context-driven)

182D+FVS3+ZWJ ᡄ (x__) *Fourth Initial Form*

STATUS: Included in Chinese Proposal – WG2#65

ZWJ+182D+ZWJ ᢍ (x__) *First Medial Form*

ZWJ+182D+FVS1+ZWJ ᢍ (x__) *Second Medial Form*
(context-driven)

ZWJ+182D+FVS2+ZWJ ᢍ (x__) *Third Medial Form*
(only implemented with MVS)
(actually - processed as final when pre-MVS)

ZWJ+182D+FVS3+ZWJ ᢍ (x__) *Fourth Medial Form*
(context-driven)

ZWJ+182D+VS01+ZWJ ᢍ (x__) *Fifth Medial Form*
STATUS: Included in Chinese Proposal – WG2#65

ZWJ+182D ᢎ (x__) *First Final Form*

ZWJ+182D+FVS1 ᢎ (x__) *Second Final Form*
STATUS: Agreed upon by UTC at WG2#65
(needed to over-ride default context)
(SIG+FVS1)

ZWJ+182D+FVS2 ᢏ (x__) *Third Final Form*
STATUS: Agreed upon by UTC at WG2#65
(context-driven)
(ABSIG+FVS2)

182E (x_xx) ᢐ MONGOLIAN LETTER MA

182E+ZWJ ᢐ (x_xx) *Initial Form*

ZWJ+182E+ZWJ ᢑ (x_xx) *Medial Form*

ZWJ+182E ᢒ (x_xx) *Final Form*

182F (xxxx) ᢓ MONGOLIAN LETTER LA

182F+ZWJ ᢓ (xxxx) *Initial Form*

ZWJ+182F+ZWJ ᢔ (xxxx) *Medial Form*

ZWJ+182F ᢕ (xxxx) *Final Form*

1830 (xxxx) ᢖ MONGOLIAN LETTER SA

1830+ZWJ ᢖ (xxxx) *Initial Form*

ZWJ+1830+ZWJ ᢗ (xxxx) *Medial Form*

ZWJ+1830 ᢘ (xxxx) *First Final Form*

ZWJ+1830+FVS1 ᢘ (x__) *Second Final Form*[&]

ZWJ+1830+FVS2 ᢗ (__x) *Third Final Form*[&]

1831 (xx__) ᢙ MONGOLIAN LETTER SHA

1831+ZWJ ᢙ (xx_) *Initial Form*

ZWJ+1831+ZWJ ᢚ (xx_) *Medial Form*

ZWJ+1831 ᢛ (xx_) *Final Form*

1832 (x___) ᢜ MONGOLIAN LETTER TA

1832+ZWJ ᢜ (x__) *Initial Form*

ZWJ+1832+ZWJ ᢝ (x__) *First Medial Form*

ZWJ+1832+FVS1+ZWJ ᢜ (x__) *Second Medial Form*[&]

ZWJ+1832 ᢞ (x__) *Final Form*

1833 (x___) ᢟ MONGOLIAN LETTER DA

1833+ZWJ ᢜ (x__) *First Initial Form*

1833+FVS1+ZWJ ᢟ (x__) *Second Initial Form*
(also implemented with NNBSP)

ZWJ+1833+ZWJ ᢠ (x__) *First Medial Form*

ZWJ+1833+FVS1+ZWJ ᢟ (x__) *Second Medial Form*
(context-driven)

ZWJ+1833 ᢡ (x__) *First Final Form*

ZWJ+1833+FVS1 ᢟ (x__) *Second Final Form*[&]

1834 (xxxx) ᢢ MONGOLIAN LETTER CHA

1834+ZWJ ᢢ (xxxx) *Initial Form*

ZWJ+1834+ZWJ ᢢ (xxxx) *Medial Form*

ZWJ+1834 ᢣ (x__) *Final Form*

1835 (x__x) ᢤ MONGOLIAN LETTER JA

1835+ZWJ ᢤ (x__x) *Initial Form*

ZWJ+1835+ZWJ ᢥ (x__x) *First Medial Form*

ZWJ+1835+FVS1+ZWJ ᢤ (x__) *Second Medial Form*
(implemented with MVS & NNBSP only - actually - processed as final when pre-MVS/NNBSP)

ZWJ+1835 ᢦ (x__) *Final Form*

1836 (x_xx) ᢧ MONGOLIAN LETTER YA

1836+ZWJ ᢧ (x_xx) *First Initial Form*

1836+FVS1+ZWJ ᢧ (x__) *Second Initial Form*
(context-driven)

ZWJ+1836+ZWJ ᢧ (x_xx) *First Medial Form*

ZWJ+1836+FVS1+ZWJ ᢧ (x__) *Second Medial Form*
(context-driven AND also needed to over-ride default context)

ZWJ+1836+FVS2+ZWJ ᢤ (x__) *Third Medial Form*
(implemented with MVS & NNBSP only - actually - processed as final when pre-MVS/NNBSP)

ZWJ+1836 ᢤ (___) *Final Form*

1837 (xxx_) ᢨ MONGOLIAN LETTER RA

1837+ZWJ ᢨ (xxx_) *Initial Form*

ZWJ+1837+ZWJ ᢨ (xxx_) *Medial Form*

ZWJ+1837 ᢩ (xxx_) *Final Form*

1838 (xxxx) ᢪ MONGOLIAN LETTER WA

1838+ZWJ ᢪ (xxxx) *Initial Form*

ZWJ+1838+ZWJ ᢪ (xxxx) *First Medial Form*

ZWJ+1838+FVS1+ZWJ ᢫ (x__) *Second Medial Form*
STATUS: Included in Chinese Proposal – WG2#65
(context-driven)

ZWJ+1838 ᢪ (x__) *First Final Form*

ZWJ+1838+FVS1 ᢬ (x__) *Second Final Form*[&]
(only implemented with MVS)

1839 (x___) ᢭ MONGOLIAN LETTER FA[$]

1839+ZWJ ᢭ (x__) *Initial Form*

ZWJ+1839+ZWJ ᢭ (x__) *Medial Form*

ZWJ+1839 ᢮ (x__) *Final Form*

183A (xxxx) ᢯ MONGOLIAN LETTER KA[$]

183A+ZWJ ᢯ (xxxx) *Initial Form*

ZWJ+183A+ZWJ ᢯ (xxxx) *Medial Form*

ZWJ+183A ᢰ (x__) *Final Form*

183B (xx__) ᢱ MONGOLIAN LETTER KHA[$]

183B+ZWJ ᢱ (xx_) *Initial Form*

ZWJ+183B+ZWJ ᢱ (xx_) *Medial Form*

ZWJ+183B ᢲ (xx_) *Final Form*

183C (x___) MONGOLIAN LETTER TSA

183C+ZWJ *Initial Form*
ZWJ+183C+ZWJ *Medial Form*
ZWJ+183C *Final Form*

183D (x___) MONGOLIAN LETTER ZA

183D+ZWJ *Initial Form*
ZWJ+183D+ZWJ *Medial Form*
ZWJ+183D *Final Form*

183E (x___) MONGOLIAN LETTER HAA

183E+ZWJ *Initial Form*
ZWJ+183E+ZWJ *Medial Form*
ZWJ+183E *Final Form*

183F (x___) MONGOLIAN LETTER ZRA

183F+ZWJ *Initial Form*
ZWJ+183F+ZWJ *Medial Form*
ZWJ+183F *Final Form*

1840 (xx__) MONGOLIAN LETTER LHA

1840+ZWJ *Initial Form*
ZWJ+1840+ZWJ *Medial Form*
ZWJ+1840 *Final Form*

1841 (x___) MONGOLIAN LETTER ZHI

1841+ZWJ *Initial Form*
ZWJ+1841+ZWJ *Medial Form*
ZWJ+1841 *Final Form*

1842 (x___) MONGOLIAN LETTER CHI

1842+ZWJ *Initial Form*
ZWJ+1842+ZWJ *Medial Form*
ZWJ+1842 *Final Form*

Todo Letters

1843 (_x__) MONGOLIAN LETTER TODO LONG VOWEL SIGN

1843+ZWJ *Initial Form*
ZWJ+1843+ZWJ *Medial Form*
(context-driven)
ZWJ+1843 *Final Form*
STATUS: Included in Chinese Proposal – WG2#65
(context-driven)
ZWJ+1843 *First Final Form*
STATUS: Included in Chinese Proposal – WG2#65
This as a ligature for long 1820-A

1844 (_x__) MONGOLIAN LETTER TODO E

1844+ZWJ *Initial Form*
ZWJ+1844+ZWJ *First Medial Form*
ZWJ+1844+FVS1+ZWJ *Second Medial Form*[&]
ZWJ+1844 *Final Form*

1845 (_x__) MONGOLIAN LETTER TODO I

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

1846 (_x__) MONGOLIAN LETTER TODO O

1846+ZWJ *Initial Form*
ZWJ+1846+ZWJ *First Medial Form*
ZWJ+1846+FVS1+ZWJ *Second Medial Form*[&]
ZWJ+1846 *Final Form*

1847 (_x__) MONGOLIAN LETTER TODO U

1847+FVS1 *Second Isolate Form*
1847+ZWJ *Initial Form*
ZWJ+1847+ZWJ *First Medial Form*
ZWJ+1847+FVS1+ZWJ *Second Medial Form*[&]
(context-driven)
ZWJ+1847+FVS2+ZWJ *Third Medial Form*
(context-driven)
ZWJ+1847 *First Final Form*
ZWJ+1847+FVS1 *Second Final Form*
(context-driven)

1848 (_x__) MONGOLIAN LETTER TODO OE

1848+ZWJ *Initial Form*
ZWJ+1848+ZWJ *First Medial Form*
ZWJ+1848+FVS1+ZWJ *Second Medial Form*[&]
ZWJ+1848 *Final Form*

1849 (_x__) MONGOLIAN LETTER TODO UE

1849+FVS1 *Second Isolate Form*
1849+ZWJ *Initial Form*
ZWJ+1849+ZWJ *First Medial Form*
ZWJ+1849+FVS1+ZWJ *Second Medial Form*[&]
ZWJ+1849 *Final Form*

184A (_x__) MONGOLIAN LETTER TODO ANG

184A *Isolate Form*
184A+ZWJ *Initial Form*
ZWJ+184A+ZWJ *Medial Form*
ZWJ+184A *Final Form*[%]

184B (_x__) MONGOLIAN LETTER TODO BA

184B *Isolate Form*
184B+ZWJ *Initial Form*
ZWJ+184B+ZWJ *Medial Form*

ZWJ+184B ᢏ (_x_) *Final Form*[%]

184C (_x_) ᢐ MONGOLIAN LETTER TODO PA[$]

184C+ZWJ ᢐ (_x_) *Initial Form*
ZWJ+184C+ZWJ ᢐ (_x_) *Medial Form*
ZWJ+184C ᢑ (_x_) *Final Form*

184D (_x_) ᢒ MONGOLIAN LETTER TODO QA

184D+FVS1 ᢒ (_x_) *Second Isolate Form*[*]
STATUS: Included in Chinese Proposal – WG2#65
184D+ZWJ ᢒ (_x_) *Initial Form*
184D+FVS1+ZWJ ᢒ (_x_) *Second Initial Form*
ZWJ+184D+ZWJ ᢒ (_x_) *Medial Form*
ZWJ+184D+FVS1+ZWJ ᢒ (_x_) *Second Medial Form*

ZWJ+184D ᢓ (_x_) *Final Form*

184E (_x_) ᢔ MONGOLIAN LETTER TODO GA

184E+FVS1 ᢔ (_x_) Second *Isolate Form*[*]
STATUS: Included in Chinese Proposal – WG2#65
184E+ZWJ ᢔ (_x_) *Initial Form*
184E+FVS1+ZWJ ᢔ (x__) *Second Initial Form*
STATUS: Included in Chinese Proposal – WG2#65
ZWJ+184E+ZWJ ᢔ (_x_) *First Medial Form*

ZWJ+184E+FVS1+ZWJ ᢔ (_x_) *Second Medial Form*
(context-driven)
ZWJ+184E+FVS2+ZWJ ᢔ (x__) *Third Medial Form*
STATUS: Included in Chinese Proposal – WG2#65
ZWJ+184E ᢕ (_x_) *Final Form*

184F (_x_) ᢖ MONGOLIAN LETTER TODO MA

184F ᢖ (_x_) *Isolate Form*
184F+ZWJ ᢖ (_x_) *Initial Form*
ZWJ+184F+ZWJ ᢖ (_x_) *Medial Form*
ZWJ+184F ᢗ (_x_) *Final Form*[%]

1850 (_x_) ᢘ MONGOLIAN LETTER TODO TA

1850+ZWJ ᢘ (_x_) *Initial Form*
ZWJ+1850+ZWJ ᢘ (_x_) *Medial Form*
ZWJ+1850 ᢙ (_x_) *Final Form*

1851 (_x_) ᢚ MONGOLIAN LETTER TODO DA

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

1852 (_x_) ᢛ MONGOLIAN LETTER TODO CHA

1852+ZWJ ᢛ (_x_) *Initial Form*
ZWJ+1852+ZWJ ᢛ (_x_) *Medial Form*
ZWJ+1852 ᢜ (_x_) *Final Form*

1853 (xx__) ᢝ MONGOLIAN LETTER TODO JA

1853+ZWJ ᢝ (xx_) *Initial Form*
ZWJ+1853+ZWJ ᢝ (xx_) *Medial Form*
ZWJ+1853 ᢞ (_x_) *Final Form*

1854 (_x__) ᢟ MONGOLIAN LETTER TODO TSA

1854+ZWJ ᢟ (_x_) *Initial Form*
ZWJ+1854+ZWJ ᢟ (_x_) *Medial Form*
ZWJ+1854 ᢠ (_x_) *Final Form*

1855 (_x__) ᢡ MONGOLIAN LETTER TODO YA

1855+ZWJ ᢡ (_x_) *Initial Form*
ZWJ+1855+ZWJ ᢡ (_x_) *Medial Form*
ZWJ+1855 ᢡ (___) *Final Form*

1856 (_x__) ᢢ MONGOLIAN LETTER TODO WA

1856+ZWJ ᢢ (_x_) *Initial Form*
ZWJ+1856+ZWJ ᢢ (_x_) *Medial Form*
ZWJ+1856 ᢣ (_x_) *Final Form*

1857 (_x__) ᢤ MONGOLIAN LETTER TODO KA[$]

1857+ZWJ ᢤ (_x_) *Initial Form*
ZWJ+1857+ZWJ ᢤ (_x_) *Medial Form*
ZWJ+1857 ᢥ (_x_) *Final Form*

1858 (xx__) ᢦ MONGOLIAN LETTER TODO GAA[$]

1858+ZWJ ᢦ (xx_) *Initial Form*
ZWJ+1858+ZWJ ᢦ (xx_) *Medial Form*
ZWJ+1858 ᢦ (___) *Final Form*

1859 (_x__) ᢧ MONGOLIAN LETTER TODO HAA

1859 ᢧ (_x_) *Isolate Form*
1859+ZWJ ᢧ (_x_) *Initial Form*
ZWJ+1859+ZWJ ᢧ (_x_) *Medial Form*
ZWJ+1859 ᢨ (_x_) *Final Form*[%]

185A (_x__) ᢩ MONGOLIAN LETTER TODO JIA

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

185B (xx__) ᢪ MONGOLIAN LETTER TODO NIA

185B+ZWJ ᢪ (xx_) *Initial Form*[2]
ZWJ+185B+ZWJ ᢪ (xx_) *Medial Form*
ZWJ+185B ᢪ (___) *Final Form*

185C (xx__) ᢫ MONGOLIAN LETTER TODO DZA

185C+ZWJ ᢫ (xx_) *Initial Form*
ZWJ+185C+ZWJ ᢫ (xx_) *Medial Form*
ZWJ+185C ᢬ (_x_) *Final Form*

Sibe Letters

185D (__xx) MONGOLIAN LETTER SIBE E

185D	(__xx)	*Isolate Form*
185D+ZWJ	(__xx)	*Initial Form*
ZWJ+185D+ZWJ	(__xx)	*First Medial Form*
ZWJ+185D+FVS1+ZWJ	(__xx)	*Second Medial Form* (context-driven)
ZWJ+185D	(__xx)	*First Final Form*%
ZWJ+185D+FVS1	(__xx)	*Second Final Form* (context-driven)

185E (__x_) MONGOLIAN LETTER SIBE I

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

185F (__xx) MONGOLIAN LETTER SIBE IY

185F+ZWJ	(___)	*Initial Form*
ZWJ+185F+ZWJ	(__xx)	*Medial Form*
ZWJ+185F	(__xx)	*Final Form*

1860 (__xx) MONGOLIAN LETTER SIBE UE

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

1861 (__xx) MONGOLIAN LETTER SIBE U

1861	(__x)	*Isolate Form*
1861+ZWJ	(__x)	*Initial Form*
ZWJ+1861+ZWJ	(__xx)	*Medial Form*%
ZWJ+1861	(__xx)	*Final Form*

1862 (__x_) MONGOLIAN LETTER SIBE ANG

1862	(__x_)	*Isolate Form*
1862+ZWJ	(___)	*Initial Form*
ZWJ+1862+ZWJ	(__x_)	*Medial Form*
ZWJ+1862	(__x_)	*Final Form*%

1863 (__x_) MONGOLIAN LETTER SIBE KA

1863 STATUS: Currently not shown in the code charts	(__x_)	*First Isolate Form*
1863+FVS1 STATUS: Included in Chinese Proposal – WG2#65	(__x_)	*Second Isolate Form**
1863+ZWJ	(__x_)	*First Initial Form*
1863+FVS1+ZWJ STATUS: Included in Chinese Proposal – WG2#65	(__x_)	*Second Initial Form*
ZWJ+1863+ZWJ	(__x_)	*First Medial Form*
ZWJ+1863+FVS1+ZWJ	(__x_)	*Second Medial Form* (context-driven)
ZWJ+1863+FVS2+ZWJ STATUS: Included in Chinese Proposal – WG2#65	(__x_)	*Third Medial Form*
ZWJ+1863	(__x_)	*Final Form*%

1864 (__xx) MONGOLIAN LETTER SIBE GA

1864+FVS1 STATUS: Included in Chinese Proposal – WG2#65	(__xx)	*Second Isolate Form**
1864+ZWJ	(__xx)	*First Initial Form*
1864+FVS1+ZWJ to be added STATUS: Included in Chinese Proposal – WG2#65	(__x_)	*Second Initial Form*
1864+FVS2+ZWJ STATUS: Included in Chinese Proposal – WG2#65	(__x_)	*Third Initial Form*
ZWJ+1864+ZWJ	(__xx)	*Medial Form*
ZWJ+1864+FVS1+ZWJ STATUS: Included in Chinese Proposal – WG2#65	(__x_)	*Second Medial Form*
ZWJ+1864	(___)	*Final Form*

1865 (__xx) MONGOLIAN LETTER SIBE HA

1865+FVS1 STATUS: Included in Chinese Proposal – WG2#65	(__xx)	*Second Isolate Form**
1865+ZWJ	(__xx)	*Initial Form*
1865+FVS1+ZWJ STATUS: Included in Chinese Proposal – WG2#65	(__x_)	*Second Initial Form*
ZWJ+1865+ZWJ	(__xx)	*Medial Form*
ZWJ+1865+FVS1+ZWJ STATUS: Included in Chinese Proposal – WG2#65	(__x_)	*Second 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* (context-driven)
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 (__xx) MONGOLIAN LETTER SIBE GAA[$]

186C+ZWJ (__xx) *Initial Form*

ZWJ+186C+ZWJ (__xx) *Medial Form*

ZWJ+186C (___) *Final Form*

186D (__xx) MONGOLIAN LETTER SIBE HAA[$]

186D+ZWJ (__xx) *Initial Form*

ZWJ+186D+ZWJ (__xx) *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_) 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*
(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*
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*

1874+FVS1+ZWJ (__x) *Second Initial Form*
STATUS: Included in Chinese Proposal – WG2#65

1874+FVS2+ZWJ (__x) *Third Initial Form*
STATUS: Included in Chinese Proposal – WG2#65

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 ᡵ (__x) *Second Initial Form* (context-driven)
ZWJ+1876+ZWJ ᡶ (__x) *First Medial Form*[%]
ZWJ+1876+FVS1+ZWJ ᡵ (__x) *Second Medial Form* (context-driven)
ZWJ+1876 ᡶ (___) *Final Form*

1877 (___x) ᡷ MONGOLIAN LETTER MANCHU ZHA
1877+ZWJ ᡷ (__x) *Initial Form*
ZWJ+1877+ZWJ ᡷ (__x) *Medial Form*
ZWJ+1877 ᡷ (___) *Final Form*

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

Ali Gali Letters

1880 (xx_x) ᠐ MONGOLIAN LETTER ALI GALI ANUSVARA
1880+FVS1 ᠐ (xx_x) *Second Form*

1881 (xx_x) ᠑ MONGOLIAN LETTER ALI GALI VISARGA
1881+FVS1 ᠑ (xx_x) *Second Form*

1882 (xx_x) ᠒ MONGOLIAN LETTER ALI GALI DAMARU

1883 (xx_x) ᠓ MONGOLIAN LETTER ALI GALI UBADAMA

1884 (xx_x) ᠔ MONGOLIAN LETTER ALI GALI INVERTED UBADAMA

1887 (xx_x) ᠗ MONGOLIAN LETTER ALI GALI A
1887+FVS1 ᠗ (___) *Second Isolate Form*
STATUS: Included in Chinese Proposal – WG2#65
1887+ZWJ ᠗ (___) *Initial Form*
ZWJ+1887+ZWJ ᠗ (___) *Medial Form*
ZWJ+1887 ᠗ (x__x) *First Final Form*
ZWJ+1887+FVS1 ᠗ (x___) *Second Final Form*
ZWJ+1887+FVS2 ᠗ (xx_) *Third Final Form*
ZWJ+1887+FVS3 ᠗ (xx_x) *Fourth Final Form*
ZWJ+1887+VS01 ᠗ (x___) *Fifth Final Form*
STATUS: Agreed upon by the UTC at WG2#65 – glyph is currently the wrong shape

1888 (x__x) ᠘ MONGOLIAN LETTER ALI GALI I
1888+ZWJ ᠘ (___) *Initial Form*
ZWJ+1888+ZWJ ᠘ (x__x) *First Medial Form*
ZWJ+1888+ZWJ+FVS1 ᠘ (x__x) *Second Medial Form* (context-driven)
STATUS: Discussion needed.
ZWJ+1888 ᠘ (x___) *First Final Form*
ZWJ+1888+FVS1 ᠘ (__x) *Second Final Form* (context-driven)

1889 (xx__) ᠙ MONGOLIAN LETTER ALI GALI KA[$]
1889+ZWJ ᠙ (xx_) *Initial Form*
ZWJ+1889+ZWJ ᠙ (x__) *Medial Form*[3]
ZWJ+1889 ᠙ (___) *Final Form*

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

188B (xx__) ᠛ MONGOLIAN LETTER ALI GALI CA
188B+ZWJ ᠛ (xx_) *Initial Form*
ZWJ+188B+ZWJ ᠛ (xx_) *Medial Form*
ZWJ+188B ᠛ (___) *Final Form*

188C (x___) ᠜ MONGOLIAN LETTER ALI GALI TTA
188C+ZWJ ᠜ (x__) *Initial Form*
ZWJ+188C+ZWJ ᠜ (x__[4]) *Medial Form*
ZWJ+188C ᠜ (___) *Final Form*

188D (x___) ᠝ MONGOLIAN LETTER ALI GALI TTHA
188D+ZWJ ᠝ (x__) *Initial Form*
ZWJ+188D+ZWJ ᠝ (x__[5]) *Medial Form*
ZWJ+188D ᠝ (___) *Final Form*

188E (x___) ᠞ MONGOLIAN LETTER ALI GALI DDA
188E+ZWJ ᠞ (x__) *Initial Form*
ZWJ+188E+ZWJ ᠞ (x__[5]) *Medial Form*
ZWJ+188E ᠞ (___) *Final Form*

188F (x_xx) ᠟ MONGOLIAN LETTER ALI GALI NNA
188F+ZWJ ᠟ (xx_x) *Initial Form*
ZWJ+188F+ZWJ ᠟ (xx_x) *Medial Form*
ZWJ+188F ᠟ (___) *Final Form*

1890 (x___) ᠠ MONGOLIAN LETTER ALI GALI TA
1890+ZWJ ᠠ (x__) *Initial Form*
ZWJ+1890+ZWJ ᠠ (x__[5]) *Medial Form*
ZWJ+1890 ᠠ (___) *Final Form*

1891 (x___) ᠡ MONGOLIAN LETTER ALI GALI DA
1891+ZWJ ᠡ (x__) *Initial Form*
ZWJ+1891+ZWJ ᠡ (x__[5]) *Medial Form*
ZWJ+1891 ᠡ (___) *Final Form*

1892 (x__x) ᠢ MONGOLIAN LETTER ALI GALI PA[$]
1892+ZWJ ᠢ (x__x) *Initial Form*

ZWJ+1892+ZWJ ᠹ (x_x)[$] *Medial Form*
ZWJ+1892 ᠹ (___) *Final Form*

1893 (x___) ᠺ MONGOLIAN LETTER ALI GALI PHA[$]
1893+ZWJ ᠺ (x___) *Initial Form*
ZWJ+1893+ZWJ ᠺ (x__)[$] *Medial Form*
ZWJ+1893 ᠺ (___) *Final Form*

1894 (xx__) ᠻ MONGOLIAN LETTER ALI GALI SSA
1894+ZWJ ᠻ (xx_) *Initial Form*
ZWJ+1894+ZWJ ᠻ (xx_) *Medial Form*
ZWJ+1894 ᠻ (___) *Final Form*

1895 (x___) ᠼ MONGOLIAN LETTER ALI GALI ZHA
1895+ZWJ ᠼ (x___) *Initial Form*
ZWJ+1895+ZWJ ᠼ (x__)[$] *Medial Form*
ZWJ+1895 ᠼ (___) *Final Form*

1896 (xx__) ᠽ MONGOLIAN LETTER ALI GALI ZA
1896+ZWJ ᠽ (xx_) *Initial Form*
ZWJ+1896+ZWJ ᠽ (xx_) *Medial Form*
ZWJ+1896 ᠽ (___) *Final Form*

1897 (x___) ᠾ MONGOLIAN LETTER ALI GALI AH
1897+ZWJ ᠾ (x___) *Initial Form*
ZWJ+1897+ZWJ ᠾ (x___) *Medial Form*[5]
ZWJ+1897 ᠾ (___) *Final Form*

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

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

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

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

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

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

189E (___x) ᡅ MONGOLIAN LETTER MANCHU ALI GALI TTA
189E+ZWJ ᡅ (__x) *Initial Form*
ZWJ+189E+ZWJ ᡅ (__x) *Medial Form*
ZWJ+189E ᡅ (___) *Final Form*

189F (___x) ᡆ MONGOLIAN LETTER MANCHU ALI GALI DDHA
189F+ZWJ ᡆ (__x) *Initial Form*
ZWJ+189F+ZWJ ᡆ (__x) *Medial Form*
ZWJ+189F ᡆ (___) *Final Form*

18A0 (___x) ᡇ MONGOLIAN LETTER MANCHU ALI GALI TA
18A0+ZWJ ᡇ (__x) *First Initial Form*
18A0+FVS1+ZWJ ᡇ (__x) *Second Initial Form*
STATUS: Included in Chinese Proposal – WG2#65
(context-driven)
ZWJ+18A0+ZWJ ᡇ (__x) *First Medial Form*
ZWJ+18A0+FVS1+ZWJ ᡇ (__x) *Second Medial Form*
STATUS: Included in Chinese Proposal – WG2#65
(context-driven)
ZWJ+18A0 ᡇ (___) *Final Form*

18A1 (___x) ᡈ MONGOLIAN LETTER MANCHU ALI GALI DHA
18A1+ZWJ ᡈ (__x) *First Initial Form*
18A1+FVS1+ZWJ ᡈ (___) *Second Initial Form*[6]
STATUS: Included in Chinese Proposal – WG2#65
(context-driven)
ZWJ+18A1+ZWJ ᡈ (__x) *First Medial Form*
ZWJ+18A1+FVS1+ZWJ ᡈ (___) *Second Medial Form*[7]
STATUS: Included in Chinese Proposal – WG2#65
(context-driven)
ZWJ+18A1 ᡈ (___) *Final Form*

18A2 (___x) ᡉ MONGOLIAN LETTER MANCHU ALI GALI SSA
18A2+ZWJ ᡉ (__x) *Initial Form*
ZWJ+18A2+ZWJ ᡉ (__x) *Medial Form*
ZWJ+18A2 ᡉ (___) *Final Form*

18A3 (___x) ᡊ MONGOLIAN LETTER MANCHU ALI GALI CYA
18A3+ZWJ ᡊ (__x) *Initial Form*
ZWJ+18A3+ZWJ ᡊ (__x) *Medial Form*
ZWJ+18A3 ᡊ (___) *Final Form*

18A4 (___x) ᡋ MONGOLIAN LETTER MANCHU ALI GALI ZHA
18A4+ZWJ ᡋ (__x) *Initial Form*
ZWJ+18A4+ZWJ ᡋ (__x) *Medial Form*
ZWJ+18A4 ᡋ (___) *Final Form*

18A5 (___x) ᡌ MONGOLIAN LETTER MANCHU ALI GALI ZA

18A5+ZWJ	ᢵ (__x)	*Initial Form*
ZWJ+18A5+ZWJ	ᢵ (__x)[5]	*Medial Form*
ZWJ+18A5	ᢵ (___)	*Final Form*

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

18A6+ZWJ	ᢶ (xx_)	*Initial Form*
ZWJ+18A6+ZWJ	ᢶ (xx_)[5]	*Medial Form*
ZWJ+18A6	ᢶ (___)	*Final Form*

18A7 (xx__) ᢷ MONGOLIAN LETTER ALI GALI HALF YA

18A7+ZWJ	ᢷ (xx_)	*Initial Form*
ZWJ+18A7+ZWJ	ᢷ (xx_)	*Medial Form*
ZWJ+18A7	ᢷ (___)	*Final Form*

18A8 (___x) ᢸ MONGOLIAN LETTER MANCHU ALI GALI BHA[5]

18A8+ZWJ	ᢸ (__x)	*Initial Form*
ZWJ+18A8+ZWJ	ᢸ (__x)[8]	*Medial Form*
ZWJ+18A8	ᢸ (___)	*Final Form*

18AA (___x) ᢹ MONGOLIAN LETTER MANCHU ALI GALI LHA

18AA+ZWJ	ᢹ (__x)	*Initial Form*
ZWJ+18AA+ZWJ	ᢹ (__x)	*Medial Form*
ZWJ+18AA	ᢹ (___)	*Final Form*

[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."