

## Spacing Modifier Letters

**Range: 02B0–02FF**

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See <http://www.unicode.org/charts/> for access to a complete list of the latest character code charts. See <http://www.unicode.org/charts/PDF/Unicode-5.2/> for charts showing only the characters added in Unicode 5.2. See <http://www.unicode.org/Public/5.2.0/charts/> for a complete archived file of character code charts for Unicode 5.2.

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See <http://www.unicode.org/ucd/> and <http://www.unicode.org/reports/>

A thorough understanding of the information contained in these additional sources is required for a successful implementation.

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	02B	02C	02D	02E	02F
0	h 02B0	ʔ 02C0	˘ 02D0	Ÿ 02E0	ˆ 02F0
1	ĥ 02B1	ʕ 02C1	˙ 02D1	ı 02E1	˂ 02F1
2	ĵ 02B2	˃ 02C2	˚ 02D2	ſ 02E2	˄ 02F2
3	ŗ 02B3	˅ 02C3	˛ 02D3	Ɔ 02E3	◦ 02F3
4	Ĳ 02B4	ˆ 02C4	⊥ 02D4	ƒ 02E4	ˆ 02F4
5	Ĵ 02B5	∨ 02C5	⊥ 02D5	⌋ 02E5	ˆ 02F5
6	Ɓ 02B6	ˆ 02C6	+ 02D6	⌋ 02E6	ˆ 02F6
7	Ƶ 02B7	˘ 02C7	- 02D7	⌋ 02E7	˜ 02F7
8	Ʒ 02B8	˙ 02C8	˘ 02D8	⌋ 02E8	˙ 02F8
9	ƶ 02B9	— 02C9	• 02D9	⌋ 02E9	Ɔ 02F9
A	“ 02BA	˘ 02CA	◦ 02DA	⌋ 02EA	˘ 02FA
B	‘ 02BB	˘ 02CB	˘ 02DB	⌋ 02EB	⌋ 02FB
C	’ 02BC	˘ 02CC	˜ 02DC	˘ 02EC	⌋ 02FC
D	˘ 02BD	— 02CD	ˆ 02DD	≡ 02ED	⌋ 02FD
E	˘ 02BE	˘ 02CE	˘ 02DE	” 02EE	⌋ 02FE
F	˘ 02BF	˘ 02CF	× 02DF	˘ 02EF	← 02FF

**Latin superscript modifier letters**

- 02B0 <sup>h</sup> **MODIFIER LETTER SMALL H**  
 • aspiration  
 ≈ <super> 0068 <sup>h</sup>
- 02B1 <sup>fi</sup> **MODIFIER LETTER SMALL H WITH HOOK**  
 • breathy voiced, murmured  
 → 0266 <sup>fi</sup> latin small letter h with hook  
 → 0324 <sup>o</sup> combining diaeresis below  
 ≈ <super> 0266 <sup>fi</sup>
- 02B2 <sup>j</sup> **MODIFIER LETTER SMALL J**  
 • palatalization  
 → 0321 <sup>g</sup> combining palatalized hook below  
 ≈ <super> 006A <sup>j</sup>
- 02B3 <sup>r</sup> **MODIFIER LETTER SMALL R**  
 ≈ <super> 0072 <sup>r</sup>
- 02B4 <sup>ɹ</sup> **MODIFIER LETTER SMALL TURNED R**  
 → 0279 <sup>ɹ</sup> latin small letter turned r  
 ≈ <super> 0279 <sup>ɹ</sup>
- 02B5 <sup>ɹ̥</sup> **MODIFIER LETTER SMALL TURNED R WITH HOOK**  
 → 027B <sup>ɹ̥</sup> latin small letter turned r with hook  
 ≈ <super> 027B <sup>ɹ̥</sup>
- 02B6 <sup>ɻ</sup> **MODIFIER LETTER SMALL CAPITAL INVERTED R**  
 • preceding four used for r-coloring or r-offglides  
 → 0281 <sup>ɻ</sup> latin letter small capital inverted r  
 ≈ <super> 0281 <sup>ɻ</sup>
- 02B7 <sup>w</sup> **MODIFIER LETTER SMALL W**  
 • labialization  
 → 032B <sup>o</sup> combining inverted double arch below  
 ≈ <super> 0077 <sup>w</sup>
- 02B8 <sup>y</sup> **MODIFIER LETTER SMALL Y**  
 • palatalization  
 • common Americanist usage for 02B2<sup>j</sup>  
 ≈ <super> 0079 <sup>y</sup>

**Miscellaneous phonetic modifiers**

- 02B9 <sup>ˈ</sup> **MODIFIER LETTER PRIME**  
 • primary stress, emphasis  
 • transliteration of mjagkij znak (Cyrillic soft sign: palatalization)  
 → 0027 <sup>ˈ</sup> apostrophe  
 → 00B4 <sup>ˈ</sup> acute accent  
 → 02CA <sup>ˈ</sup> modifier letter acute accent  
 → 0301 <sup>ˆ</sup> combining acute accent  
 → 0374 <sup>ˈ</sup> greek numeral sign  
 → 2032 <sup>ˈ</sup> prime
- 02BA <sup>ˈˈ</sup> **MODIFIER LETTER DOUBLE PRIME**  
 • exaggerated stress, contrastive stress  
 • transliteration of tverdyj znak (Cyrillic hard sign: no palatalization)  
 → 0022 <sup>ˈˈ</sup> quotation mark  
 → 030B <sup>ˆˆ</sup> combining double acute accent  
 → 2033 <sup>ˈˈ</sup> double prime
- 02BB <sup>ˆ</sup> **MODIFIER LETTER TURNED COMMA**  
 • typographical alternate for 02BD <sup>ˆ</sup> or 02BF <sup>ˆ</sup>  
 • used in Hawai`ian orthography as `okina (glottal stop)  
 → 0312 <sup>ˆ</sup> combining turned comma above  
 → 07F5 <sup>ˆ</sup> nko low tone apostrophe  
 → 2018 <sup>ˆ</sup> left single quotation mark

- 02BC <sup>ˈ</sup> **MODIFIER LETTER APOSTROPHE**  
 = apostrophe  
 • glottal stop, glottalization, ejective  
 • many languages use this as a letter of their alphabets  
 • used as a tone marker in Bodo, Dogri, and Maithili  
 • 2019 <sup>ˈ</sup> is the preferred character for a punctuation apostrophe  
 → 0027 <sup>ˈ</sup> apostrophe  
 → 0313 <sup>ˆ</sup> combining comma above  
 → 0315 <sup>ˆ</sup> combining comma above right  
 → 055A <sup>ˈ</sup> armenian apostrophe  
 → 07F4 <sup>ˈ</sup> nko high tone apostrophe  
 → 1FBF <sup>ˈ</sup> greek psili  
 → 2019 <sup>ˈ</sup> right single quotation mark
- 02BD <sup>ˆ</sup> **MODIFIER LETTER REVERSED COMMA**  
 • weak aspiration  
 → 0314 <sup>ˆ</sup> combining reversed comma above  
 → 0559 <sup>ˆ</sup> armenian modifier letter left half ring  
 → 1FFE <sup>ˆ</sup> greek dasia  
 → 201B <sup>ˆ</sup> single high-reversed-9 quotation mark
- 02BE <sup>ˈ</sup> **MODIFIER LETTER RIGHT HALF RING**  
 • transliteration of Arabic hamza (glottal stop)  
 → 055A <sup>ˈ</sup> armenian apostrophe  
 → 0621 <sup>ˆ</sup> arabic letter hamza
- 02BF <sup>ˆ</sup> **MODIFIER LETTER LEFT HALF RING**  
 • transliteration of Arabic ain (voiced pharyngeal fricative)  
 → 0559 <sup>ˆ</sup> armenian modifier letter left half ring  
 → 0639 <sup>ˆ</sup> arabic letter ain
- 02C0 <sup>ʔ</sup> **MODIFIER LETTER GLOTTAL STOP**  
 • ejective or glottalized  
 • typographical alternate for 02BC <sup>ˈ</sup> or 02BE <sup>ˈ</sup>  
 → 0294 <sup>ʔ</sup> latin letter glottal stop  
 → 0309 <sup>ˆ</sup> combining hook above
- 02C1 <sup>ˆ</sup> **MODIFIER LETTER REVERSED GLOTTAL STOP**  
 • typographical alternate for 02BF <sup>ˆ</sup>  
 → 0295 <sup>ˆ</sup> latin letter pharyngeal voiced fricative
- 02C2 <sup><</sup> **MODIFIER LETTER LEFT ARROWHEAD**  
 • fronted articulation
- 02C3 <sup>></sup> **MODIFIER LETTER RIGHT ARROWHEAD**  
 • backed articulation
- 02C4 <sup>^</sup> **MODIFIER LETTER UP ARROWHEAD**  
 • raised articulation  
 → 005E <sup>^</sup> circumflex accent  
 → 2303 <sup>^</sup> up arrowhead
- 02C5 <sup>v</sup> **MODIFIER LETTER DOWN ARROWHEAD**  
 • lowered articulation
- 02C6 <sup>^</sup> **MODIFIER LETTER CIRCUMFLEX ACCENT**  
 • rising-falling tone, falling tone, secondary stress, etc.  
 → 005E <sup>^</sup> circumflex accent  
 → 0302 <sup>ˆ</sup> combining circumflex accent  
 → A788 <sup>^</sup> modifier letter low circumflex accent
- 02C7 <sup>˘</sup> **CARON**  
 = hacek  
 • falling-rising tone  
 • Mandarin Chinese third tone  
 → 030C <sup>˘</sup> combining caron

02C8	'	<b>MODIFIER LETTER VERTICAL LINE</b>
		<ul style="list-style-type: none"> <li>• primary stress, downstep</li> <li>• precedes letter or syllable modified</li> </ul> → 0027 ' apostrophe → 030D ◌ combining vertical line above
02C9	ˉ	<b>MODIFIER LETTER MACRON</b>
		<ul style="list-style-type: none"> <li>• high level tone</li> <li>• precedes or follows letter or syllable modified</li> <li>• Mandarin Chinese first tone</li> </ul> → 00AF ˉ macron → 0304 ◌ combining macron
02CA	´	<b>MODIFIER LETTER ACUTE ACCENT</b>
		<ul style="list-style-type: none"> <li>• high-rising tone (IPA), high tone, primary stress</li> <li>• Mandarin Chinese second tone</li> </ul> → 00B4 ´ acute accent → 02B9 ´ modifier letter prime → 0301 ◌ combining acute accent → 0374 ´ greek numeral sign → 055B ´ armenian emphasis mark
02CB	˘	<b>MODIFIER LETTER GRAVE ACCENT</b>
		<ul style="list-style-type: none"> <li>• high-falling tone (IPA), low tone, secondary or tertiary stress</li> <li>• Mandarin Chinese fourth tone</li> </ul> → 0060 ˘ grave accent → 0300 ◌ combining grave accent → 055D ˘ armenian comma
02CC	˙	<b>MODIFIER LETTER LOW VERTICAL LINE</b>
		<ul style="list-style-type: none"> <li>• secondary stress</li> <li>• precedes letter or syllable modified</li> </ul> → 0329 ◌ combining vertical line below
02CD	˘	<b>MODIFIER LETTER LOW MACRON</b>
		<ul style="list-style-type: none"> <li>• low level tone</li> </ul> → 005F ˘ low line → 0331 ◌ combining macron below
02CE	˙	<b>MODIFIER LETTER LOW GRAVE ACCENT</b>
		<ul style="list-style-type: none"> <li>• low-falling tone</li> </ul>
02CF	ˆ	<b>MODIFIER LETTER LOW ACUTE ACCENT</b>
		<ul style="list-style-type: none"> <li>• low-rising tone</li> </ul> → 0375 ˆ greek lower numeral sign
02D0	:	<b>MODIFIER LETTER TRIANGULAR COLON</b>
		<ul style="list-style-type: none"> <li>• length mark</li> </ul> → 003A : colon
02D1	˙	<b>MODIFIER LETTER HALF TRIANGULAR COLON</b>
		<ul style="list-style-type: none"> <li>• half-length mark</li> </ul> → 00B7 ˙ middle dot
02D2	◌	<b>MODIFIER LETTER CENTRED RIGHT HALF RING</b>
		<ul style="list-style-type: none"> <li>• more rounded articulation</li> </ul>
02D3	◌	<b>MODIFIER LETTER CENTRED LEFT HALF RING</b>
		<ul style="list-style-type: none"> <li>• less rounded articulation</li> </ul>
02D4	ˆ	<b>MODIFIER LETTER UP TACK</b>
		<ul style="list-style-type: none"> <li>• vowel raising or closing</li> </ul> → 031D ◌ combining up tack below → 0323 ◌ combining dot below
02D5	ˆ	<b>MODIFIER LETTER DOWN TACK</b>
		<ul style="list-style-type: none"> <li>• vowel lowering or opening</li> </ul> → 031C ◌ combining left half ring below → 031E ◌ combining down tack below
02D6	+	<b>MODIFIER LETTER PLUS SIGN</b>
		<ul style="list-style-type: none"> <li>• advanced or fronted articulation</li> </ul> → 031F ◌ combining plus sign below

02D7	-	<b>MODIFIER LETTER MINUS SIGN</b>
		<ul style="list-style-type: none"> <li>• retracted or backed articulation</li> <li>• glyph may have small end-serifs</li> </ul> → 0320 ◌ combining minus sign below → 2212 - minus sign

**Spacing clones of diacritics**

02D8	◌	<b>BREVE</b>
		→ 0306 ◌ combining breve ≈ 0020 [sp] 0306 ◌
02D9	◌	<b>DOT ABOVE</b>
		<ul style="list-style-type: none"> <li>• Mandarin Chinese fifth tone (light or neutral)</li> </ul> → 0307 ◌ combining dot above ≈ 0020 [sp] 0307 ◌
02DA	◌	<b>RING ABOVE</b>
		→ 00B0 ◌ degree sign → 030A ◌ combining ring above ≈ 0020 [sp] 030A ◌
02DB	◌	<b>OGONEK</b>
		→ 0328 ◌ combining ogonek ≈ 0020 [sp] 0328 ◌
02DC	◌	<b>SMALL TILDE</b>
		→ 007E ◌ tilde → 0303 ◌ combining tilde → 223C ~ tilde operator ≈ 0020 [sp] 0303 ◌
02DD	◌	<b>DOUBLE ACUTE ACCENT</b>
		→ 030B ◌ combining double acute accent ≈ 0020 [sp] 030B ◌

**Additions based on 1989 IPA**

02DE	◌	<b>MODIFIER LETTER RHOTIC HOOK</b>
		<ul style="list-style-type: none"> <li>• rhotacization in vowel</li> <li>• often ligated: 025A ◌ = 0259 ◌ + 02DE ◌ ; 025D ◌ = 025C ◌ + 02DE ◌</li> </ul>
02DF	×	<b>MODIFIER LETTER CROSS ACCENT</b>
		<ul style="list-style-type: none"> <li>• Swedish grave accent</li> </ul>
02E0	◌	<b>MODIFIER LETTER SMALL GAMMA</b>
		<ul style="list-style-type: none"> <li>• these modifier letters are occasionally used in transcription of affricates</li> </ul> ≈ <sup> 0263 ◌
02E1	◌	<b>MODIFIER LETTER SMALL L</b>
		≈ <sup> 006C ◌
02E2	◌	<b>MODIFIER LETTER SMALL S</b>
		≈ <sup> 0073 ◌
02E3	×	<b>MODIFIER LETTER SMALL X</b>
		≈ <sup> 0078 ◌
02E4	◌	<b>MODIFIER LETTER SMALL REVERSED GLOTTAL STOP</b>
		≈ <sup> 0295 ◌

**Tone letters**

02E5	◌	<b>MODIFIER LETTER EXTRA-HIGH TONE BAR</b>
02E6	◌	<b>MODIFIER LETTER HIGH TONE BAR</b>
02E7	◌	<b>MODIFIER LETTER MID TONE BAR</b>
02E8	◌	<b>MODIFIER LETTER LOW TONE BAR</b>
02E9	◌	<b>MODIFIER LETTER EXTRA-LOW TONE BAR</b>

**Extended Bopomofo tone marks**

02EA	◌	<b>MODIFIER LETTER YIN DEPARTING TONE MARK</b>
02EB	◌	<b>MODIFIER LETTER YANG DEPARTING TONE MARK</b>

**IPA modifiers**

02EC	◌	<b>MODIFIER LETTER VOICING</b>
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02ED = MODIFIER LETTER UNASPIRATED

**Other modifier letter**

02EE ” MODIFIER LETTER DOUBLE APOSTROPHE  
 • Nenets

**UPA modifiers**

02EF ∨ MODIFIER LETTER LOW DOWN ARROWHEAD  
 02F0 ^ MODIFIER LETTER LOW UP ARROWHEAD  
 02F1 < MODIFIER LETTER LOW LEFT ARROWHEAD  
 02F2 > MODIFIER LETTER LOW RIGHT ARROWHEAD  
 02F3 ° MODIFIER LETTER LOW RING  
 02F4 ` MODIFIER LETTER MIDDLE GRAVE ACCENT  
 02F5 ˘ MODIFIER LETTER MIDDLE DOUBLE GRAVE ACCENT  
 02F6 ˆ MODIFIER LETTER MIDDLE DOUBLE ACUTE ACCENT  
 02F7 ~ MODIFIER LETTER LOW TILDE  
 02F8 ⋮ MODIFIER LETTER RAISED COLON  
 02F9 ˆ MODIFIER LETTER BEGIN HIGH TONE  
 02FA ˆ MODIFIER LETTER END HIGH TONE  
 02FB ˆ MODIFIER LETTER BEGIN LOW TONE  
 02FC ˆ MODIFIER LETTER END LOW TONE  
 02FD ˆ MODIFIER LETTER SHELF  
 02FE ˆ MODIFIER LETTER OPEN SHELF  
 02FF ← MODIFIER LETTER LOW LEFT ARROW