



**LETTERS MAY BE SLANTED
IF DESIRED**

Image originally from 1967
US Navy Training Manual.

From www.qsl.net/wb3gck/morse.html

With a Thank-You to my sources above! This image has been reworked by WB7C
for a sharper presentation for use on this site in January 2016. -- WB7C

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Figure 4-2. — How to form printed characters.

The flip-side image contains a cleaned-up rendition with some minor changes: Letter D was shaped more like a sans-serif D, and is now a triangle. Letter U is a little more flattened out on the Bottom round. Y's instructions have been changed from drawing "from Top-Left to Bottom Center then drawing from Middle-Center to Top Right." The adopted instruction was seen in another military training manual. Not perfect, but hopefully it's much better.

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These instructions to draw the printed characters use terms "Left," "Center," and "Right" from Left to Right, and "Top", "Upper," "Middle," "Lower," and "Bottom" from Top to Bottom. "Middle Center" is the Center-point of the drawing.

LETTERS:

A:

- Begin stroke 1 at Bottom Left, over the Top and end at Bottom Right.
- Begin stroke 2 at Lower Left, straight across and end at Lower Right.

B:

- Start at Bottom Left, up to Top Left, continue Top loop, Bottom loop, ending Bottom Left.

B Alternative, in reverse:

- Start at Top Left, down to Bottom Left, continue Bottom loop, Top loop ending Top Left.

C:

- Begin at Upper Right, counterclockwise, ending at Lower Right.

D:

- Begin at Bottom Left to Top Left, continue diagonal straight line to Middle Right, continue diagonal straight line to Bottom Left. (Triangle D)

D Alternative, not pictured:

- Begin at Bottom Left, up to Top Left, continue the loop, ending Bottom Left.

E:

- Begin stroke 1 at Top Right, straight Left to Top Left, straight down to Bottom Left, straight Right to Bottom Right.
- Begin stroke 2 from Middle Left straight Right.

E Alternative #1, Lowercase E not pictured:

- Begin Middle Left, straight Right, counterclockwise over the Top around to the Bottom, ending Lower Right.

E Alternative #2, Reversed 3 not pictured:

- Start Top Right, End Bottom Right.

F:

- Begin stroke 1 Top Right, straight Left to Top Left, straight down to Bottom Left.
- Begin stroke 2 at Middle Left, straight Right.

G:

- Start stroke 1, Upper Right, counterclockwise to Lower Right.
- Start stroke 2 Middle Center, go straight Right to Middle Right, go straight down to meet.

H:

- Begin stroke 1 Top Left straight down to Bottom Left.
- Begin stroke 2 Top Right straight down to Bottom Right.
- Begin stroke 3 Middle Left straight to Middle Right.
- **H Alternative**, not pictured: 1 stroke lowercase h: Start Top Left, straight down to Bottom Left, straight up and loop from Middle Left to Middle Right, straight down to Bottom Right.

I:

- Single stroke from Top to Bottom.

J:

- Stroke 1: Begin at Top Center, down to Bottom, ending with loop Left.
- Stroke 2: Left to Right across the Top.

J alternative finds me drawing stroke 1 in reverse direction. Then Stroke 2.

- K:**
- Start stroke 1 Top Left, down to Bottom Left.
 - Start stroke 2 Top Right, angle to Middle Left and angle to Bottom Right.
- L:**
- Begin Stroke 1 Top Left down to Bottom Left, then across to Bottom Right.
- M:**
- One stroke from Bottom Left, to Top Left, angle down, angle up to Top Right, down to Bottom Right.
- N:**
- Begin Stroke 1 Bottom Left, to Top Left, angle to Bottom Right, up to Top Right.
- O:**
- Start rotation from Top Center, full Loop.
- P:**
- Begin Bottom Left, Up to Top Left, then Loop clockwise Right to Middle Left.
- Q:**
- As with O for Stroke 1.
 - Stroke 2 diagonal tail.
- R:**
- As with P for Stroke 1.
 - Stroke 2 from Loop to Bottom Right.
- R Alternative**, not pictured, Single stroke:
- As with P, add diagonal to Bottom Right.
- S:**
- Start Upper Right, end at Lower Left.
- T:**
- Stroke 1 Top Center to Bottom Center.
 - Stroke 2 Left to Right across Top.
- U:**
- Start Top Left, straight down, flattened clockwise round, straight up to Right.
- V:**
- Start Top Left, straight line angle to Bottom Center, straight line angle to Top Right.

W:
Start Top Left, like a V twice, ending Top Right.

- X:** Stroke 1: Start Top Left, angle Bottom Right.
Stroke 2: Start Top Right, back-angle Bottom Left.
- Y:** Stroke 1 Top Left Diagonal to Middle Center, continue diagonal to Top Right,
Stroke 2 from Middle Center straight down to Bottom Center.
- Z:** Stroke 1 Top Left to Top Right, to Bottom Left to Bottom Right.
Stroke 2 to add the Middle bar, Middle Left to Middle Right.

FIGURES:

- 1:** Stroke 1 from Top Center, to Bottom Center.
Stroke 2 from Bottom Left to Bottom Right.
- 2:** Start Upper Left Clockwise Loop across to Upper Right, continue Diagonal toward Bottom Left, continue from Bottom Left to the Right with a slight upswing at end.
- 3:** Start at Top Left loop Right and clockwise to Middle Left then clockwise to Bottom Left.
- 4:** Stroke 1 Top Right-of-Center to Bottom Right-of-Center.
Stroke 2 Top Right-of-Center diagonal to Lower Right, then fromm Left-to-Right to finish Lower Right.
- 5:** Stroke 1 Top Left, down to Middle Left, then clockwise to finish Lower Left,
Stroke 2 Top Left to Top Right.
- 6, 7:** Self Explanatory, start strokes at Top.
No dash through the 7 is needed.
- 8:** Start Top Right, go Left to begin, finish up at Top Right.
- 9:** Begin Top Right, going Left, Counterclockwise to Top Right, then down to Bottom.
- 0:** Slash-zero: Stroke 1 as with letter O.
Stroke 2 Diagonal from Top Right to Bottom Left.

Unlike with this computer font **0**, it is a nicer result to extend the slash outside of the body of the **0**. Using *Droid Sans Mono Slashed* for the **0**.
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