Errata for AWS A2.4-98, Standard Symbols for Welding, Brazing, and Nondestructive Examination. The following is the corrected Welding Symbol Chart for AWS A2.4-98, pages 106 and 107.

### Basic Welding Symbols and Their Location Significance

<table>
<thead>
<tr>
<th>Location Significance</th>
<th>Fillet</th>
<th>Plug or Slot</th>
<th>Spot or Projection</th>
<th>Stud</th>
<th>Seam</th>
<th>Back or Backing</th>
<th>Surfacing</th>
<th>Edge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arrow Side</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other Side</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Both Sides</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No Arrow Side or Other Side Significance</td>
<td>Not Used</td>
<td>Not Used</td>
<td>Not Used</td>
<td>Not Used</td>
<td>Not Used</td>
<td>Not Used</td>
<td>Not Used</td>
<td>Not Used</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Location Significance</th>
<th>Groove</th>
<th>Scarf for Brazed Joint</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arrow Side</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other Side</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Both Sides</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No Arrow Side or Other Side Significance</td>
<td>Not Used</td>
<td>Not Used</td>
</tr>
</tbody>
</table>

### Supplementary Symbols

<table>
<thead>
<tr>
<th>Weld-All-Around</th>
<th>Field Weld</th>
<th>Melt-Thru</th>
<th>Consumable Insert</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>(Square)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Backing/Spacer (Rectangular)</th>
<th>Contour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backing</td>
<td></td>
</tr>
<tr>
<td>Spacer</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Basic Joints</th>
<th>Identification of Arrow Side and Other Side Joint</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butt Joint</td>
<td>Arrow of Welding Symbol</td>
</tr>
<tr>
<td></td>
<td>Other Side of Joint</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Corner Joint</th>
<th>Arrow of Welding Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arrow Side of Joint</td>
<td>Other Side of Joint</td>
</tr>
</tbody>
</table>

### Location of Elements of a Welding Symbol

- **FAR**: Field Weld All-Around Reference
- **Flare-V**: Flare Bevel
- **Flare-Bevel**: Flare Bevel
- **S(E)**: Spot, Seam, Stud, Plug, Slot, or Projection Welds
- **L-P**: Lap Joint
- **T**: T-Joint
- **L**: Lap Joint
- **E**: Edge Joint

- **Groove Angle**: Included Angle of Counterstrik for Plug Welds
- **Root Opening**: Depth of Filling for Plug and Slot Welds
- **Depth of Bevel**: Size or Strength for Certain Welds
- **Pitch (Center to Center Spacing)** of Weld Segments
- **Number of Spot, Seam, Stud, Plug, Slot, or Projection Welds**
- **Reference Line**: Line to Arrow Side Member of Joint or Arrow Side of Joint
- **Weld Symbols Shall Be Contained Within the Length of the Reference Line**

- **Arrow Connecting Reference Line to Arrow Side Member of Joint or Arrow Side of Joint**

- **American Welding Society**
  550 N.W. LaSalle Road
  Miami, Florida 33126
**Typical Welding Symbols**

<table>
<thead>
<tr>
<th>Double-Fillet Welding Symbol</th>
<th>Chain Intermittent Fillet Welding Symbol</th>
<th>Staggered Intermittent Fillet Welding Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fillet Weld Size</td>
<td>Pitch (Distance Between Centers) of Segments</td>
<td>Fillet Weld Size (Length of Leg)</td>
</tr>
<tr>
<td>1/4</td>
<td>5/16</td>
<td>1/2</td>
</tr>
<tr>
<td>3/16</td>
<td>2-6</td>
<td>3-5</td>
</tr>
<tr>
<td>Omission of Length indicates that Weld Extends Between Abrupt Changes In Direction or as Dimensioned</td>
<td>Length of Segments</td>
<td>Length of Segments</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Plug Welding Symbol**

- Included Angle of Counterdrill
- Plug Weld Size (Diameter of Hole at Root)
- Depth of Filling (Omission indicates Filling is Complete)

**Back Welding Symbol**

- Pitch (Distance Between Centers) of Welds
- 2nd Operation OR 1st Operation
- Backing Weld

**Backing Welding Symbol**

- Pitch (Distance Between Centers) of Segments
- 2nd Operation OR 1st Operation
- Backing Weld

**Spot Welding Symbol**

- Spot Weld Size
- Number of Welds
- Process

**Stud Welding Symbol**

- 1/2
- Number of Studs
- Stud Size
- Process

**Seam Welding Symbol**

- Increment Length
- Pitch
- Process

**Square-Groove Welding Symbol**

- Groove Weld Size
- Root Opening

**V-Groove Welding Symbol**

- Depth of Bevel
- Groove Angle
- Groove Weld Size

**Double-Bevel-Groove Welding Symbol**

- Groove Weld Size
- (1-1/4)
- Arrow Points Toward Member to be Beveled

**Symbol with Backgouging**

- Depth of Bevel
- Back Gouge

**Flare-V-Groove Welding Symbol**

- Groove Weld Size
- Flare-Bevel-Groove Welding Symbol

**Flare-Bevel-Groove Welding Symbol**

- Groove Weld Size
- (1/4)

**Multiple Reference Lines**

- Complete Joint Penetration
- Edge Welding Symbol

- 1st Operation On Line Nearest Arrow
- 2nd Operation
- 3rd Operation

**Flash or Upset Welding Symbol**

- Process Reference
- Joint with Backing

- 1/2
- Root Reinforcement
- 'R' Indicates Backing Removed After Welding

**Melt-Thru Symbol**

- Joint with Spacer
- Flush Contour Symbol
- Convex Contour Symbol

**With Modified Groove Weld Symbol**

- Double-Bevel Groove

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It should be understood that these charts are intended only as shop aids. The only complete and official presentation of the standard welding symbols is in AWS A2.4-98, Standard Symbols for Welding, Brazing, and Nondestructive Examination.