

IED 1.2 - CENTERLINES & SYMMETRY

Technical Drawing Practice | Centers, Axes & Symmetry

Directions: Add ONLY the centerlines that are required. Use a thin long-short-long pattern.
Centerlines identify centers/axes of circular features and may show symmetry. Extend them slightly beyond the feature.

LINE KEY  Object
  Center

Name: _____ Period: _____ Date: _____

PART A - CENTERS & AXES

Use centerlines to communicate centers and axes - not decoration.

1. Concentric Washer

Add every required centerline.

TECHNICAL VIEW



CHECK YOUR THINKING

How many centerlines are needed? _____
What feature do they locate? _____

2. Cylindrical Pin - Two Views

Add every required centerline.

TECHNICAL VIEWS



SIDE VIEW



END VIEW

CHECK YOUR THINKING

Which view shows the longitudinal axis? _____
What pattern should the line use? _____

3. Offset-Hole Part

Add every required centerline.

TECHNICAL VIEW



CHECK YOUR THINKING

Does the whole part have symmetry? ☐ Yes ☐ No
Does the hole still need centerlines? ☐ Yes ☐ No

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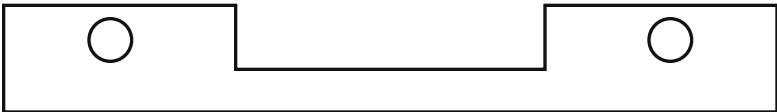
PART B - SYMMETRY IN TECHNICAL VIEWS

Add centerlines, then classify the symmetry of each overall view.

4. Symmetric U-Bracket

Add every required centerline.

TECHNICAL VIEW



SYMMETRY CHECK

Symmetry of overall view:

☐ Vertical ☐ Horizontal

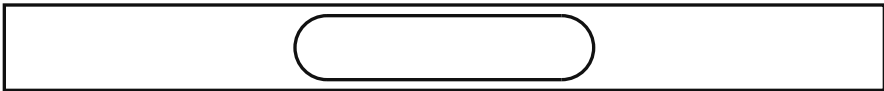
☐ Both ☐ None

Why? _____

5. Slotted Mounting Plate

Add every required centerline.

TECHNICAL VIEW



SYMMETRY CHECK

Symmetry of overall view:

☐ Vertical ☐ Horizontal

☐ Both ☐ None

Why? _____

6. Four-Hole Mounting Plate

Add every required centerline.

TECHNICAL VIEW



SYMMETRY CHECK

Symmetry of overall view:

☐ Vertical ☐ Horizontal

☐ Both ☐ None

Why? _____