

## Mechanical Drawing

### After You Read Drafting Help

After a drawing is finished, it must be looked over carefully before it is used. This is called “checking the drawing.” It is important work. A drawing you have made should be checked by someone other than you. A person who has not worked on the drawing will be better able to spot errors. However, you must inspect your own work for errors or omissions before having it further checked.

To make a thorough check, drafters and checkers follow a set order of procedures. The following checks should be made:

1. The views completely describe the shape of each piece.
2. There are no unnecessary views.
3. The scale used is large enough to show all detail clearly.
4. All views are to scale, and the correct dimensions are given.
5. There are no parts that interfere with each other during assembly or operation, and necessary clearance space is provided around all parts that need it.
6. Enough dimensions are given to define the sizes of all parts completely, and no unnecessary or duplicate dimensions are given.
7. All necessary location and positioning dimensions are given with necessary precision.
8. Necessary tolerances and limits and fits are given, along with any other precision information.
9. The kind of material and the quantity needed of each part are specified.
10. The kind of finish is specified, all finished surfaces are marked, and a finished surface is not called for where one is not needed.
11. Standard parts and stock items, such as fasteners, handles, and catches, are used where suitable.
12. All necessary explanatory notes are given and are placed properly on the drawing.