

Start here.

TOOLS & Equipment:

- vice
- milling machine
- hacksaw
- file set
- Tap & Die set
- ^{twist} Drill bit set
- ^{pedestal} ~~press~~ drill with ~~clack~~ chuck to suit drill set
- Drill vice.
- marking block
- Ruler
- set squares
- scribing tool.

Process:

- ① place material on marking block
- ② mark out dimensions of all features using Ruler, set square and scribing tool.
- ③ ~~use~~ Fix material in vice
- ④ cut off excess material using hacksaw, ~~use~~
Repositioning material in vice where necessary.
- ⑤ file off all sharp edges with file set and file corner off Round as per Diagram.
- ⑥ use milling machine to cut elongated hole.
- ⑦ use pedestal drill to drill an appropriately sized hole in material.
- ⑧ use tap & die set to thread hole with appropriate thread.

ⓐ clean all tools used.

Risk assessment:

Hazard	Risk Before	Countermeasures	Risk After
High speed Rotating Parts	3	Drill. use a vice to secure work piece	5
flying debris	3 3	Always wear safety goggles	5
Loud noises	3	wear earmuffs	5
cutting tools	3	Always cut away from body	5

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