

(b) ① Collect the  $300 \times 55 \times 6$  mm piece of mild steel

② Mark the steel to the length of 300mm with a pencil or scribe

③ Secure the steel in the vice so the line is able to be cut.

- ④ Put of safety ~~gloves, eye protection~~ equipment
- ⑤ Use a hack saw to cut the steel
- ⑥ Use a double cut file to file away and sharp edges
- ⑦ Collect a 20mm circle gauge and scribe the ~~corner~~ <sup>circle</sup> ~~on~~ one of the corners
- ⑧ File the steel to the scribed line in steel
- ⑨ Measure 20mm in from one of the long sides and ~~scribe~~ scribe a line down.
- ⑩ Measure 20mm, 50mm and 90mm down that line and mark those points.
- ⑪ ~~on the top~~ Clamp the job into a vice and centre punch the marked points in the steel
- ⑫ Clamp the job under the drill press
- ⑬ Attach a  $\varnothing 10$  drill bit into the drill chuck
- ⑭ ~~Drill~~ Drill through the two bottom marking with the  $\varnothing 10$  drill bit
- ⑮ Collect a small round file and file a slot between the two holes and ensure no sharp edges remain.

Additional writing space on back page.

- ⑩ Attach a 1 mm drill bit into the drill press and drill through the remaining position
- ⑪ Attach a M12  $\times$  1.5 <sup>taper</sup> piece into the stock and die
- ⑫ Lubricate the cutting piece
- ⑬ Cut thread through the hole
- ⑭ Repeat steps 17 - 19 with intermediate and plug cutting tool
- ⑮ Ensure no sharp edges remain on the job

You may ask for an extra Writing Booklet if you need more space.