



UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS  
General Certificate of Education Ordinary Level

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**METALWORK**

**6040/02**

Paper 2 Practical Test

**October/November 2008**

**3 hours**

Additional Materials: As listed in the Confidential Instructions

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**READ THESE INSTRUCTIONS FIRST**

Please see page 2.

All dimensions are in millimetres unless stated otherwise.

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This document consists of **5** printed pages and **1** blank page.



From the materials supplied you are to make the LEVER AND BRACKET shown in the drawings.

All dimensions are in millimetres.

The following materials are supplied:

Part 1 One piece BDMS  $20 \times 5 \times 162$  long. Both ends sawn.

Part 2 One piece MS sheet  $52 \times 2 \times 62$  long. One end and one edge square.

Part 3 One piece BDMS  $20 \times 3 \times 52$  long. One end square.

Part 4 One piece BDMS  $\varnothing 8 \times 26$  long. Prepared prior to the examination.

Part 5 One piece BDMS  $20 \times 5 \times 35$  long. Both ends square.

Part 6 One piece BDMS  $10 \times 10 \times 30$  long. Both ends square.

Part 7 Two pieces BDMS  $\varnothing 8 \times 6$  long. Prepared prior to the examination.

Two  $\varnothing 3 \times 15$  long round head steel rivets.

One  $M6 \times 12$  long cheese head or round head screw.

One  $M6 \times 15$  long cheese head or round head screw and locknut.

One  $M6 \times 20$  long cheese head or round head screw and locknut.

(Two standard nuts can be used for each screw if locknuts are not available.)

One bag in which to enclose the work.

Two tie-on labels.

### Notes

#### Working Procedures

- A Part 4 should be silver soldered to Part 1 and the back filed flat.
- B Part 3 should be riveted to Part 2, using the round head rivets supplied, with the two spacers Part 7 between them.
- C Part 5 should be fixed to Part 1 using the  $M6 \times 12$  long screw provided.
- D Part 1 should be fixed to Part 2 using the  $M6 \times 15$  long screw and locknut supplied.
- E Part 6 should be shaped at both ends to remove the sharp corners.
- F Part 6 should be fixed to Part 1 using the  $M6 \times 20$  long screw and locknut supplied.

**General Notes**

- A second supply of material is **not** allowed. If you make a mistake, do your best to work as near to the dimensions given in the drawing as possible.
- Any dimensions omitted are left to your discretion.
- Attempt to complete the work but remember that a partly completed piece of work of good quality may gain more marks than one which is complete but inaccurate or poorly finished.
- Clean up all parts by draw filing. Emery cloth or similar must not be used.
- Write your **name and examination number** on both labels supplied, attach one to your work and the other to the bag in which your work is enclosed. Put all worked and unworked materials into the bag, with the exception of waste.

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