

Answers and marking guidance

Award one mark per correct, developed point unless stated. Other valid answers should be credited.

2 Describe the purpose of a boss and of a rib on the inside of the casing.

- Boss: takes a screw that holds the two halves together, and strengthens the fixing point
- Rib: adds strength and rigidity without making the walls thicker
- Rib: can locate and hold internal parts such as the circuit board

No marks for: "For strength" with no detail

3 Quick check

- a) Add rigidity without thick walls and hold internal parts
- b) Accurate assembly
- c) To take a screw and strengthen the fixing point
- d) Flashing

4 Key terms

- 1 – D
- 2 – B
- 3 – C
- 4 – E
- 5 – F
- 6 – A

5 Describe two benefits of moulding clips and threads into a product.

- Removes the need for separate fixings
- Faster assembly
- Fewer parts to stock and buy

No marks for: Naming a feature only

6 Explain the purpose of location pins, bosses and ribs/webs.

- Location pins: position parts accurately; stop parts moving
- Bosses: provide a fixing point for screws; strengthen around the fixing
- Ribs/webs: add strength and rigidity without thick walls; help material flow; locate internal components
- All three needed for full marks

No marks for: Repeated explanations