

PVC Connector Packaging

A unique task with a Packaging process, and a separate Assembly function



Materials

- 32 large PVC nuts (A)
- 32 yellow plastic inserts (B)
- 32 white plastic inserts (C)
- 32 metal nuts (D)
- 32 connector bases (E)
- 16 clear plastic, 5-compartment boxes (F)
- 1 parts bin
- 2 storage bins



Setup

Place the storage bin with the empty clear boxes to the left on the table. Place the parts bin with the connectors in the middle. Place the empty storage bin to the right.

Procedure

- Take a clear box from the storage bin, open it, and place it on the table.
- Take a PVC connector from the parts bin.
- Unscrew the large PVC nut, remove from the base, and place in the first compartment of the clear box.
- Dump out the yellow and white plastic inserts.
- Place the yellow plastic insert in the second compartment of the clear box.
- Place the white plastic insert in the third compartment of the clear box.
- Unscrew the metal nut, remove it, and place it in the fourth compartment of the clear box.
- Leaving the yellow washer in place, put the base unit in the last compartment of the clear box (standing up with the wide end down)
- Repeat with a second PVC connector.
- When the second connector is disassembled and packaged, close the clear box.
- Place the packaged clear box in the other storage bin, following the pattern of the first storage bin.
- Repeat all steps until all the PVC connectors are disassembled and packaged, and all packaged clear boxes are stored in the storage bin.

Norms:

Task – 11 minutes
Per clear box with
two connectors – 42 seconds

Quality Criteria

Each 5-compartment box should have two of each component in the five compartments in the correct order. The boxes should be securely snapped closed and placed in the storage bin, correctly positioned.

PVC Connector Assembly

A unique task with an Assembly process, and a separate Packaging function



Materials

- 32 large PVC nuts (A)
- 32 yellow plastic inserts (B)
- 32 white plastic inserts (C)
- 32 metal nuts (D)
- 32 connector bases (E)
- 16 clear plastic, 5-compartment boxes (F)
- 1 parts bin
- 2 storage bins



Fig. 1



Fig. 2

Setup

Place the storage bin with the packaged clear boxes to the left on the table. Place the parts bin in the middle. Place the empty storage bin to the right.

Procedure

- Take a packaged clear box, open it, and dump the contents on the table.
- Close the clear box and place it in the other storage bin matching the placement in the first storage bin.
- From the pieces on the table, take a connector base and a metal nut.
- Screw the metal nut onto the base until it is snug (not tight) against the yellow washer.
- Hold the base so the larger opening faces up.
- With the other hand, take a white plastic insert and drop it into the base—the wide end going in first (Fig. 1).
- Take a yellow plastic insert and place it over the white plastic insert—with the lip on the yellow insert facing out (Fig. 2).
- Take large PVC nut and screw it onto the base until it is snug (not tight).
- Place the assembled connector in the parts bin.
- Repeat the assembly process with the second connector.
- Repeat all the steps above with the remaining packaged clear boxes.

Norms:

Task – 12 minutes
 Per clear box
 with two connectors – 45 seconds

Quality Criteria

All parts must be removed from the 5-compartment boxes. Each connector must be complete and securely screwed together (but not tight). All empty plastic boxes must be placed in the storage container, correctly positioned.