

# TimbScale RS-0070-K-76 Power Pole Kit

Instruction sheet

## 1 Part Description and Part Number

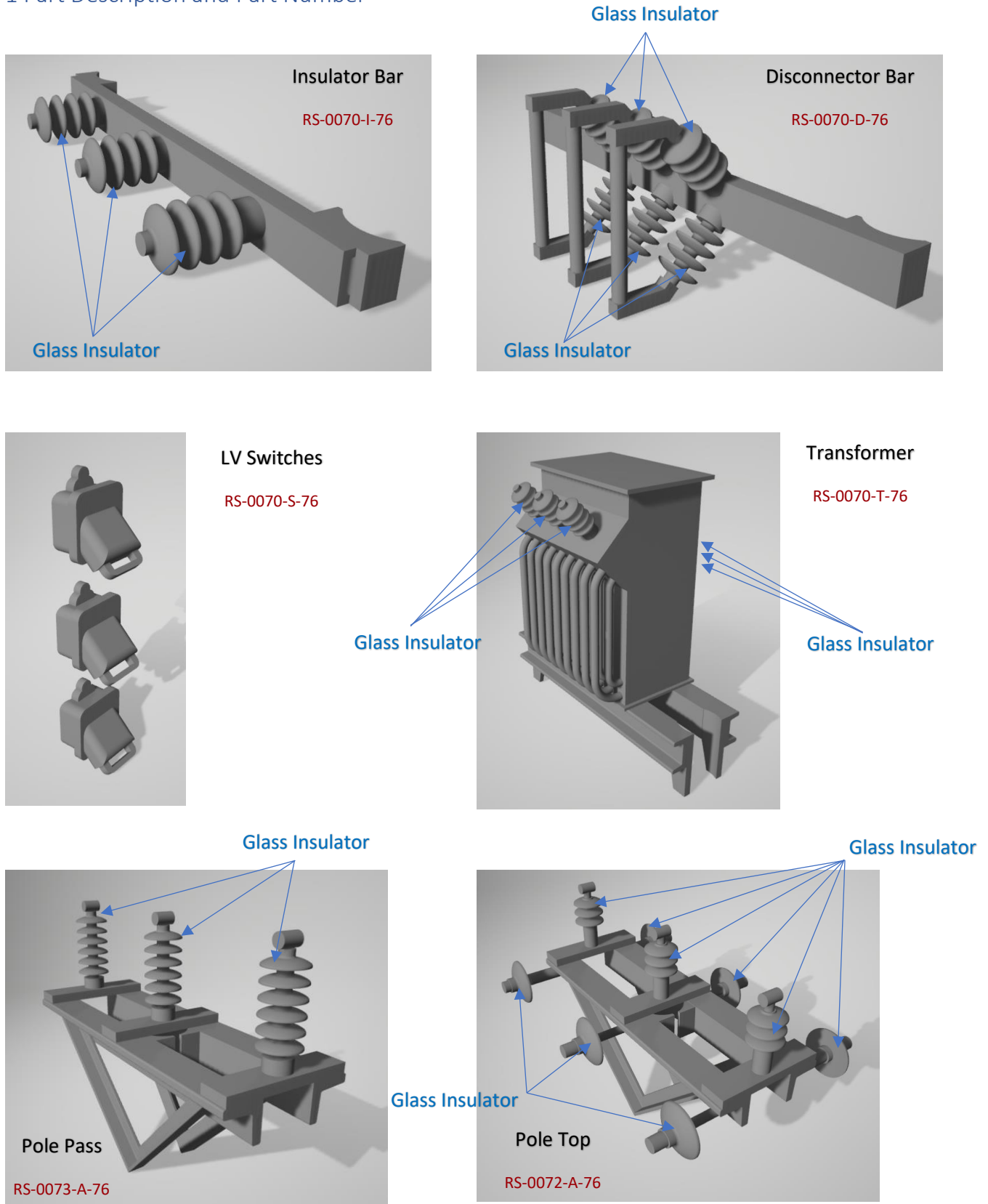


Figure 1 Exploded view of parts

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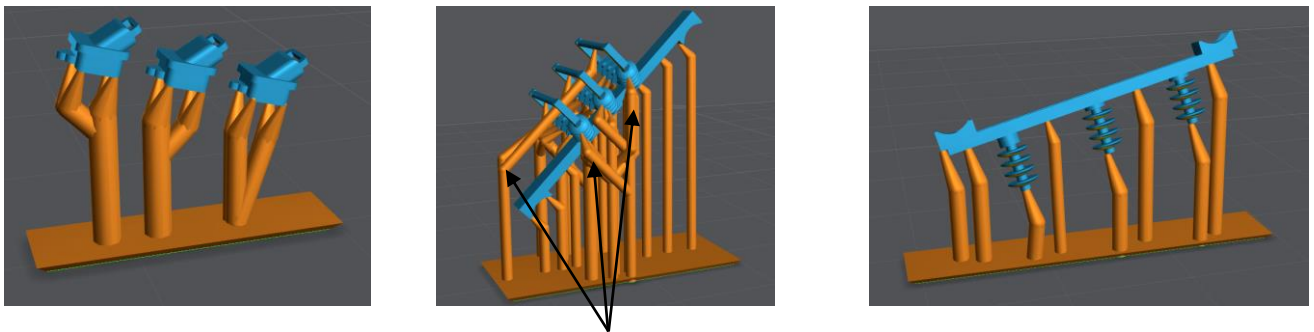
A Range of parts to enable a complete 11KV High Voltage power pole distribution system to be built. The Starter kit RS-0070-K consists of 1 power pole, 1 pass through pole and 3 insulator poles. Each of RS-0071-K transformer pole, RS-0072-K top insulator pole and RS-0073-K pass through insulator pole kits are available, to extend the basic kit. Each kit consists of 3D printed parts and wooden poles ready for assembly and staining/painting.

### 2 Preparation

We suggest that most parts are best painted while still on the supports.

Carefully remove the upper supports<sup>1</sup> from the **Disconnecter Bar**, then paint all of the electrical parts while they are on the supports.

Note <sup>1</sup> - Use 'flush cutting' fine cutters to carefully snip, as close as possible to the parts.



Remove upper supports for painting

Figure 2 Supports

Once all items are painted and dry, remove from supports<sup>1</sup>

### 3 Painting

All electrical parts should be painted in a light grey or silver to emulate galvanised steel.

The Glass insulators should be painted either Ruby Red or Light Brown

Don't forget to paint all 6 Glass insulators on the **Transformer**

The **LV Switches** should be painted either bright red or white

The round wooden sticks should be painted before assembly. We recommend using an ink wash of brown or black on the wooden poles, or you can paint them a dark brown, but use diluted paint, that way the wood grain will stand out.

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## 4 Assembly

### 4a Transformer

Apply a small drop (x4) of superglue to the inside edge of the brackets of the **Transformer** and slide the poles in, the top of the bracket should be approx 46mm from the top of the pole (31+11+4). Ensure the poles are square to the Transformer and that the poles are level to each other.

Apply a drop of super glue to each side of the **Disconnecter Bar** bracket curved protrusion and place 31mm above the Transformer bracket

Apply a drop of super glue to each side of the **Insulator Bar** bracket curved protrusion and place 11mm above the **Disconnecter Bar** bracket

Apply a drop of super glue to the back of each LV Switch and apply to one of the poles, 12mm below the **Transformer** bracket, equally spaced across 8mm

*None of the above dimensions are critical, they are just suggestions*

### 4b Pole Top & Pole Pass

Apply a drop of super glue to the back of the vee at its lowest point on each side and each side of the half rounds in the bar and insert the wooden pole, ensure the bar is at right angles to the pole and the tip of the vee is in the center of the the pole

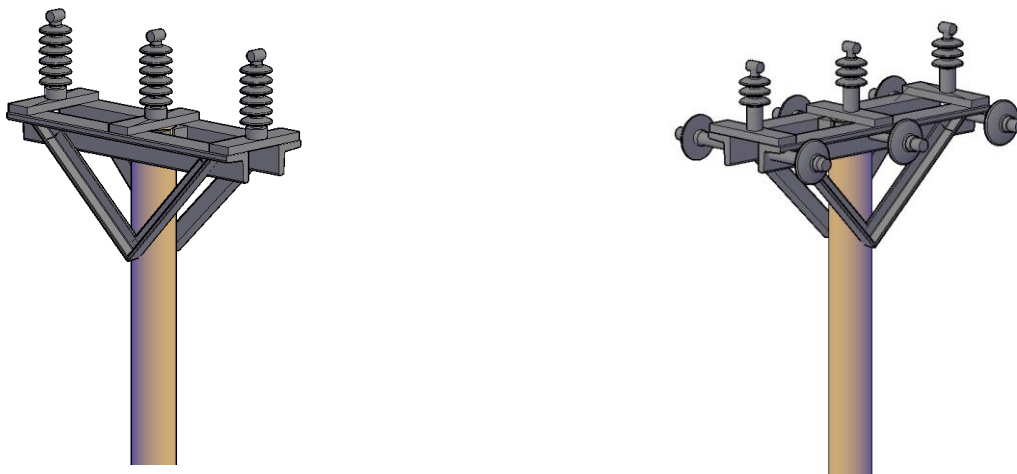


Figure 3 Pole Top and Pole Pass

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## 5 Installation

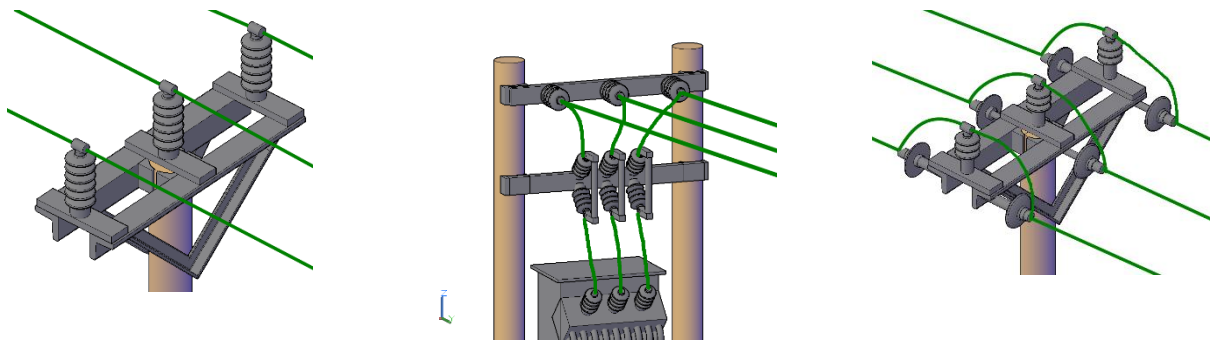
Simply drill a 3mm or 3.5mm hole in the base board and glue the pole in, the height is not critical, but we recommend it should be over 100mm.

Drill two holes with a 66mm pitch between centres for the transformer assembly.

## 6 Enhancement

We recommend the use of EZ Line rope product, ideally, should be green, fine – .010" (0.25mm) diameter to emulate the corrosion of the copper wires.

You can use fishing line or cotton, but EZ Line is elastic, so if you catch the wires, it just bends rather than pulling the polls down



You can even use black insulated copper wire to simulate the LV wires to the switches

