

Diablo

Mounting The Motor

Please read these instructions fully before mounting the motor assembly

The motor kit supplied for the Diablo Power Truck comes in your choice of size and is fitted with a flywheel and a resilient mounting pad. A set of four small self-tapping screws of 1.4mm size are provided for attaching the motor mounting plate to your model.

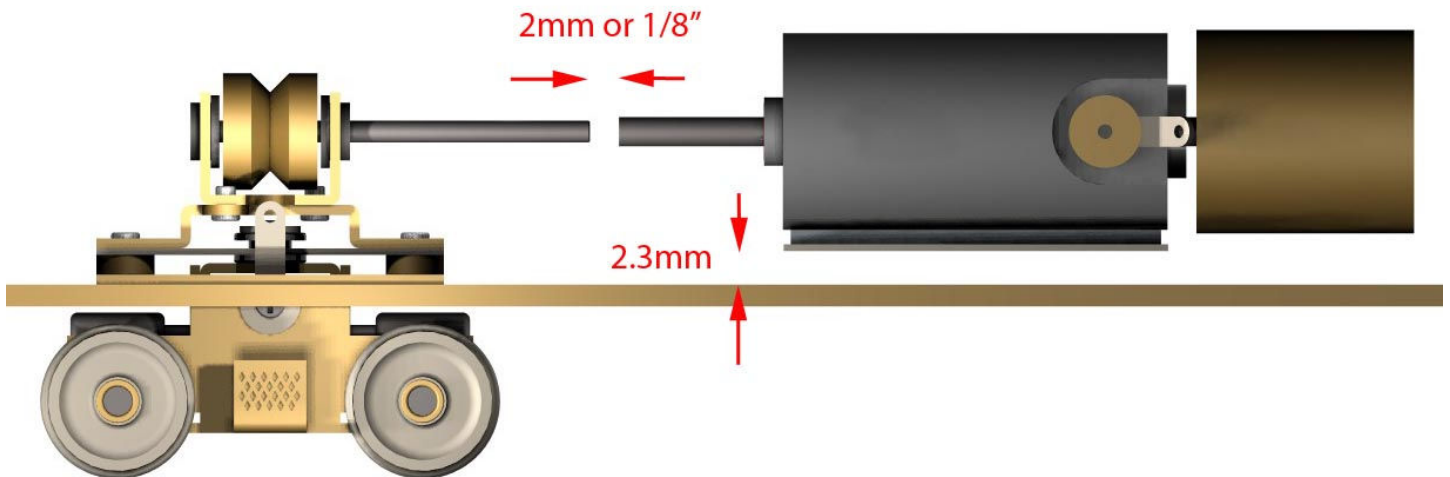
The Diablo is supplied with a one inch long piece of black silicone tubing to connect the motor to the Diablo drive shaft, and for best operation, it is necessary to make sure the two shafts line up properly. The closer you can get the two shafts to exactly in line, the better and smoother the drive performance.

To do this, it will most likely be necessary to adjust the mounting height of the motor. There is no rule as to what the finished motor mounting height will be, as it depends upon the ride height of the Diablo truck, an option set when assembling the truck. The distance from the centre of the motor shaft to the underside of the mounting plate is 8.3mm.



However the height from the bottom of the Truck Mounting Frame on the Diablo to the center-line of the Diablo drive shaft is approximately 8.8mm with no height adjusting washers inserted.

In the example below, the motor has to be raised by 2.3 millimetres to line up correctly with the Diablo drive shaft, because the Diablo has been assembled with two spacer washers to adjust the ride height.



To pack the motor up to the right height, pieces of Evergreen styrene can be used, perhaps glued to the floor of the model, then the motor assembly can be attached using the four small self-tapping screws.

It is advisable to keep the gap between the motor shaft and the Diablo drive shaft down to a minimum of 2mm, or about 1/16", with a maximum gap of 1/8".