

# Scorpion Motor Lubrication Kit Instructions

The Scorpion Motor Lubrication Kit will help you maintain the bearings in your Scorpion, or any other brand brushless electric motor. Today's brushless motors, especially the helicopter models, can be pretty hard on the bearings. In an average flight, a 450 class helicopter motor can spin over a quarter million times at close to 50,000 RPM! At these speeds, the oil can get thrown out of the bearings in as little as 10-15 flights. Once the bearings lose their lubrication, they can heat up and wear out very quickly. To help prolong the life of your motor bearings, proper lubrication is required. The oil included in this kit is specially formulated to chemically bond to the balls and races in the bearings, enabling it to cling to the parts under the highest loads. The oil also displaces moisture and inhibits corrosion to help keep the bearings operating efficiently as long as possible.

Included with this kit is a 25cc bottle of oil with a leak-proof cap, and two needle point applicator nozzles. To install a tip on the bottle, unscrew the nozzle cap a quarter turn counter-clockwise and pull it off. Next, insert one of the needle point applicators by pushing it down onto the bottle and locking it into place with a quarter turn in the clockwise direction. After the applicator is in place, remove the protective cap by pulling it straight off. Using the needle point applicator, place a couple small drops of oil on each bearing as needed. Since the airplane motors spin much slower than helicopter motors, they do not need to be oiled as often. For helicopter motors, the bearings should be oiled every 5-10 flights, depending on how hard you push your helicopter. For airplane motors, they can be oiled once a month, or every 50 flights depending on how often you fly. The outer bearing can be oiled directly, and the inner bearing can be reached through one of the motor cooling holes with the needle point applicator. See the photos to the right for proper oiling locations. After you are finished oiling the motor, you can leave the needle point tip in place, and protect it with the needle cover, or remove the needle and replace the nozzle cap.



*Scorpion Products are Distributed in the United States By:*

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