Technical Service Bulletin

Cobra Motorcycle Mfg.

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TSB0305: King & CM stator cooling

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Many people have been spraying liquids onto the stator of the King & CM motorcycle in an attempt to aid cooling in an attempt to extend usable life.

Working with the ignition supplier, PVL, we have determined that there is opportunity for liquid to make it's way into the stator housing while the stator is hot or during the cooling process. Either water or WD40, two known liquids to be sprayed onto the stator, can cause problems internal to the stator.

Water can quickly corrode any copper that it comes into contact with and WD40 can degrade some of the insulating material on the inside.

Cooling the stator after riding by taking the ignition cover off would be an acceptable practice but do not spray water or chemicals onto the stator to aid cooling.

NOTE:
So far the most common problem with stators that have been returned is that the spade terminals had become sloppy and were not making a reliable contact with the coil. Always check this before concluding that a stator is bad. These can be tightened with some pliers

CAUTION:
Never operate a Cobra motorcycle without a solid ground between the coil frame and the cylinder head. According to PVL, operating the system without a ground strap will cause a circuit to fail in the coil that keeps the stator from overloading itself. If this circuit fails, the bike will run but will allow the stator to overload causing several of the premature failures that have been returned to them.