



# Technical Bulletin

## Carbide Cutters in Tire Repair

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Carbide Cutters have been around for a long time. They really came onto the tire repair scene when radial tires with steel cords came into the market. Prior to the steel reinforcement in passenger and light truck tires, the reinforcement was done with nylon, polyester, and fiberglass cords. These cords were easily “dressed up” for repair using a “hole type” cutter and/or hand rasps. However, these were not aggressive and robust enough to prepare the steel cords in modern radial tires.

Carbide cutters, as the name implies, are produced from hardened carbide steel to safely and thoroughly cut the ends of steel cables out of the injury channel in the tire. They remove the rubber and all of the cord to make the injury channel the correct size for the repair stem. This allows the filling of the injury channel with a rubber stem which bonds to the tire, while minimizing any injury to the stem itself from residual steel cords.

The carbide cutters are designed to be used at slow speeds (1,200 RPM's maximum). Using higher speeds may cause scorching of the rubber compounds in the tire, and result in poor bonding of the stem/tire interface.



Tire injury reamed with a carbide cutter.

Complete instructions on the proper use of carbide cutters are detailed in the REMA TIP TOP Nail Hole Repair CD or you can view REMA TIP TOP Training Videos on our website [www.rematiptop.com](http://www.rematiptop.com). The videos are located at: Home » Technical Information » Automotive » MINICOMBI REPAIR.

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