

### from the Morgan Oasis Garage

Cuthbert J. Twillie, Proprietor  
Box 1010 – North 51 Terrace  
Hoodsport, WA 98548  
(360) 877-5160

This month's epistle is about the Plus Four's water pump. I saw two of them this month. Both of them had been assembled by a 3M. In the auto trades this is a Mickey Mouse Mechanic. The full title may be protected by its' franchisees, so I'll stick to just 3M. These two pumps, upon disassembly, displayed a pump shaft that was chewed up at the keyway, where the Woodruff key from the pulley drives the shaft and therefore the water pump. All this damage means a new water pump and a new pulley and key.

To obtain these items one could pay \$268 for the "real" Morgan stuff, or \$128 for Triumph pieces. Triumph gear is the same except for an aluminum ring on the Morgan variety. This ring fastens the eversoquaint Morgan Medieval Fan Blade to the garden variety Triumph water pump pulley. The aluminum ring can be removed from the damaged pulley using 1/4 x 20 hex head bolts, quantity 4. These are 2 1/2" long and have threads all the way up to the bolthead. One needs to liberally apply WD40 (much improved over WD39) and go slowly, walking the ring off the pulley by evenly screwing down the bolts. Smooth and easy does it. The pulley should be cleaned of dirt, grease and paint to ease the task, and it will come off. Go slow sport, cuz you can break the ring.

I noticed an article in the British club's Miscellany on a damaged pulley. They had it resleeved and a new keyway cut. I can't believe you'd find a machinist who'd resleeve a pulley for less than the new TR pulley. If you do find this wonderful cheap machinist, please give me his number. The last trick is to drill and tap the new pulley to secure the ring, just as the old one is bolted to the pulley.

