



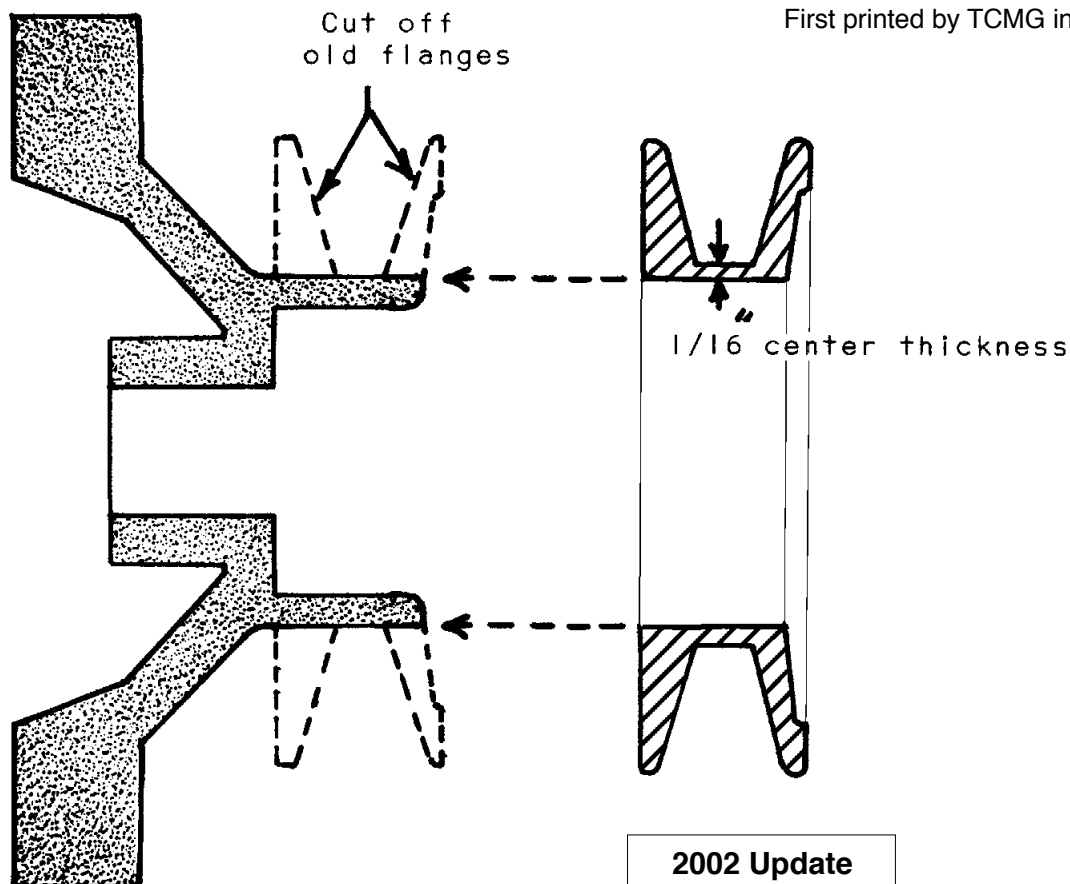
TClinic

REPAIR OF GENERATOR PULLEY

by George White

The TC generator pulley, being cast of pot metal or something akin thereto is easily cracked. Fortunately, the cracks usually occur on the inside of the front flange, however if the pulley is continued in use, it will throw a piece of this flange off. Even though these pulleys are NLS, no need to pucker up over the damage. They can be repaired. Simply machine both the front and rear pulley flanges off, leaving a smooth shaft protruding from the cooling fin plate. Machine a new steel pulley (crosshatched area on drawing) with a 1/16" center thickness

between the flanges. Make the inner dimension a light press fit over the shaft left by machining off the old flanges. Use some Loktite bearing mount between the new pulley and the shaft. This will result in a pulley which has 1/8" greater diameter under the center of the fan belt, but the fan belt doesn't get this deep into the pulley, so it won't affect performance. In machining off old flanges, exercise care to remove only enough of the old flanges to leave a smooth shaft (see inner dotted line on drawing.) Drawing is exact scale.



The original style aluminum pulleys for early TCs are still not available but cast iron replicas pulleys for late TCs are. If appearance is important to you, repairing an original type (if you can still find any used ones) is probably your best bet.

If your pulley has worked loose and chewed up the center bore see TClinic # 57 for repair of that.