

Sportster 32 Tooth Overdrive Pulley Installation (1991-2003)

MODIFICATIONS: 32 Tooth Pulley (see pictures)

There are three “bosses” on the engine/transmission housing that the pulley cover mounts onto. Each of these needs to be “filed” to allow installation of the

larger diameter 32T pulley. The pulley will mount but the bosses are too close to allow proper clearance for the belt. The belt protrudes above the solid ring on the back of the pulley $\sim 1/16$ ”.

File the forward and bottom bosses on the engine side and on the back of the pulley cover until there is $1/8$ ” clearance for the belt. The belt “grows” on deceleration. The rear boss and cover standoff only need clearance for the pulley, they may not require filing. The exhaust hanger also is ground.

The standoffs on the cover require more filing at

their base than at the “top” because they are tapered, they are “fatter” where they meet the cover than where they meet the engine. Clearance may be checked by setting the 32T pulley into the cover between the standoffs, with the solid ring at the base of the standoffs (see picture).

Following are guideline dimensions to start your modifications.

<u>Boss Location</u>	<u>Width</u>	<u>Depth</u>
Front	5/8”	1/8”
Bottom	5/8”	1/8”
Rear	3/8”	1/16”

Verify $1/8$ ” clearance for the belt.



Please notice the lowermost screw is no longer used.

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