

## KMT Supercharger Reduction Pulley Install Instructions for MINI COOPER S 2002-2006

1. Disconnect the battery at the back of the car. Be careful and do not close your rear hatch. It's powered from the battery, so use a towel or something to cover the lower latch or leave the hatch open.
2. Jack the front of the car.
3. Raise the engine with a lift (use wood not to damage the oil pan).
4. Remove the right engine mount bracket (16mm socket) and release the left engine mount. Be careful with the fuel lines etc.



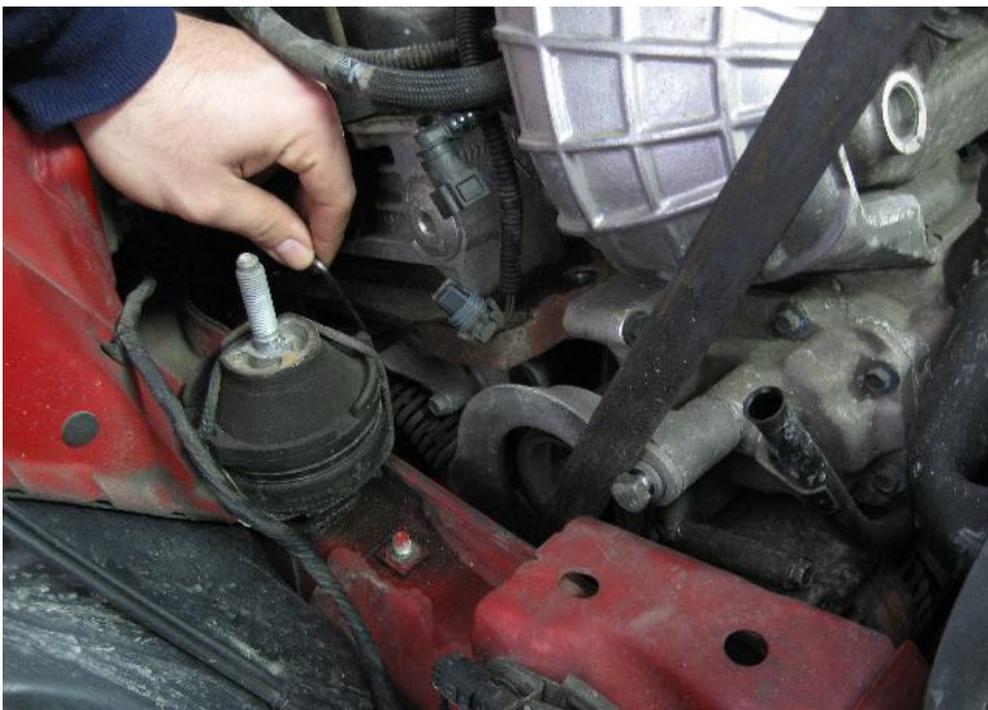
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Mini Cooper S tuning - smaller pulley for the Mini Cooper S

5. Remove the 6mm screw which holds the radiator hose at the front (a little lower than the intercooler).



6. Lift the engine as much as possible (be careful about all the lines etc)
7. Release the belt with a belt tensioner tool or you can unscrew the belt on the supercharger a little and put a flat stick there and release it with that. Put the 4mm stick on the second hold of the tensioner. Remove hydraulic belt tensioner (4bolts).



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Mini Cooper S tuning - smaller pulley, intercooler kits, brakes.

8. Remove the old pulley with a pulley puller or something else (use your imagination). Some people use a grinding machine.



9. Mount the inside piece of the KMT pulley. If it is very tight you can use some sandpaper (1200) on the inside. Put it as back as you can on the shaft. Take the outside piece of the pulley and 4 bolts. Use loctite on them. Hold the outside piece of the pulley to the shaft and screw down the bolts. Tight them as much as you can hold the pulley.

10. Install the new belt.



11. Put the belt tensioner back. When the belt tensioner works you can try to screw down 4 bolts of the pulley (because you can not hold the pulley with your hand as much as the belt tensioner).

12. Put the engine back down.

13. Put back the engine mount. Tight the right engine mount bracket and the left engine mount bracket.

14. Remove the lift of the engine.

15. Put the car back down to the road and connect the battery.

16. Change the spark plugs with colder ones, for example NKG BKR7EQUP, NGK BKR7E1X-11 or Denso Iridium IK 22.

17. Enjoy your driving. ☺

**Belts:**

For 11% smaller is OK original 1380 belt.

For 15% smaller I recommend 1370 belt.

For 17% and 19% smaller I recommend 1350 belt.

Feel free to ask anything you want at [info@kavsmotorsport.com](mailto:info@kavsmotorsport.com).