

Mini Cooper Supercharger – Notes for Customers

Your Mini Cooper Supercharger has been filled with oil at our shop. Check unit for any shipping damage.

WATER PUMPS



IMPORTANT INFORMATION

- I'm finding there are many replacement water pumps on the market that have water impellers that are inadequate and are creating increased heat at the rear of the supercharger. We only recommend a water pump with an OEM impeller.
- You could check with Gates to see if their remand water pump has an OEM impeller.
- It's best to get a factory OEM water pump, not a low-cost aftermarket replacement.

Blowers that are delivered without a pulley will be VERY hard to turn because of the water pump drive. This is normal.

Requirements for further HP gains:

- Larger aftermarket S tube charge pipe – tpeprecision.com has an option
- Larger Throttle Body

Increase Boost:

- Recommended to purchase 1-2 stage colder spark plugs – gap at .030
- Do not run platinum plug - run an NGK V power plug

Tuning Notes:

- add 3 degrees timing globally
- air fuel at 12.0 at WOT
- run cool thermostat – for track cars: remove spring assembly & run the shell
- scoop fresh air onto blower

Belt OEM: Gates K060544

Blower speeds up to 14,000 are okay. Blower speeds above 15,500 can be problematic depending on driving habits.

ROTOR SPEED: Lower pulley diameter ÷ upper pulley x engine redline = Blower RPM

$$\text{Example: } 5.5 \div 2.2 \times 6000 = 15,000$$

(OEM upper pulley: 2.6 = 12,700)

Any questions? Call 636-949-2275

Revised 5/9/2023

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