

INSTALLATION INSTRUCTIONS



MAKE: Mini
MODEL: Cooper S
YEAR: 2011-2015
ENGINE: I4-1.6L (t) N18

Turbocharger (GT Series)
46-60222

	Parts Included:	Qty.
	Turbocharger Oil Injector Oil Return gasket Oil supply banjo washer Water supply banjo washer Water return banjo washer M8 Stud Turbocharger to Downpipe gasket Turbocharger to Exhaust Manifold	1 1 1 2 2 2 7 1 1
<p>CAUTION: Allow time for your vehicle to cool down prior to installation. When working on your vehicle proceed with caution. Wear protective safety equipment; eye goggles and gloves to ensure a safe installation. aFe recommends professional installation on this product. Thoroughly inspect the aFe turbocharger to make sure there is no damage from shipping (if damage is noted, immediately contact aFe customer service).</p>		

aFe recommends professional installation on this product.

1. Disconnect the battery.
2. Drain the coolant from the radiator.
3. Remove the upper O₂ sensor from the downpipe.
4. Remove the heat shield from the top of the turbocharger.
5. Remove the lower O₂ sensor from the downpipe.
6. Remove the exhaust down pipe.
7. Remove the heat shield for the exhaust down pipe.
8. Remove the air intake from the turbocharger.
9. Disconnect the wiring connector from the blow off valve.
10. Remove the boost tube from the turbocharger.
11. Remove the wastegate hose from the turbocharger.
12. Disconnect the oil supply line from the turbocharger.
13. Disconnect the water supply line from the turbocharger.
14. Disconnect the water return line from the turbocharger.
15. Disconnect the oil return from the turbocharger.
16. Disconnect the exhaust manifold.
17. Disconnect the turbocharger from the exhaust manifold.

NOTE: aFe recommends the replacement of all the gaskets and O-rings disassembled prior to installation.

NOTE: Lubricate the aFe turbocharger with the supplied oil injector prior to assembly.

18. Install the (4) M8 studs into the turbocharger exhaust connection and tighten.
19. Install the supplied aFe turbocharger to the exhaust manifold with supplied gasket.
20. Install the exhaust manifold and tighten (new gasket recommended).
21. Connect the oil return for the turbo using the supplied gasket and tighten.
22. Connect the water return line (use supplied banjo washers).
23. Connect the water supply line (use supplied banjo washers).
24. Connect the oil supply line to the turbocharger (use supplied banjo washers).
25. Install the wastegate hose to the turbocharger.
26. Install the boost tube to the turbocharger.
27. Reconnect the wiring connector to the blow off valve.
28. Install the air intake to the turbocharger.

29. Install the heat shield for the exhaust down pipe.
30. Install the exhaust down pipe using supplied gasket.
31. Install the lower O₂ sensor into the downpipe.
32. Install the heat shield to the top of the turbocharger.
33. Install the upper O₂ sensor into the downpipe.
34. Fill the coolant in the radiator to the proper level.
35. Reconnect the battery.
36. Your installation is now complete. Start the vehicle and verify again that all connections are secure and that you have no leaks. Let idle for 5-15 mins. to allow the aFe turbocharger to properly lubricate before driving.

Gaskets needed:

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| • Exhaust Manifold to Cylinder Head Gasket / Heat Shield | G2NME2406 |
| • Downpipe to Exhaust V-Clamp | G2NME5303-P |
| • Mini Cooper S Turbo Oil Supply Line Oem Gen2 R55-R61 | G2NME2218 |
| • Mini Cooper S O-ring For Turbo Oil Return Line Oem Gen2 R55-r61 | G2NME2211 |
| • Mini Cooper S Turbo Oil Return Line N14 N18 Oem Gen2 R55-R61 | G2NME2219 |

Or Kit Number:

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|---|-----------|
| • Mini Cooper Turbo Install Kit Standard OEM Gen2 R55-R61 | G2NMK2223 |
| • Mini Cooper Turbo Install Kit Basic OEM Gen2 R55-R61 | G2NMK2222 |