



# Supercharger Heat Shield Installation Instructions For MGB/MGA

PART # 150-066

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### MGB Instructions:

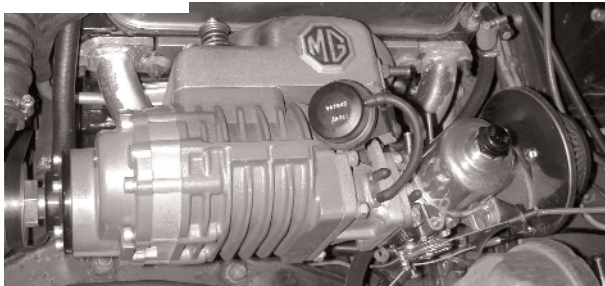
Tools required: 10mm, 3/8", and 1/2" - 1/4" drive shallow sockets, 1/4" drive ratchet and breaker bar, 1/2" and 7/16" combination wrenches, either a regular length Phillips screwdriver or a 90 degree Phillips screwdriver, telescoping magnet

Note: This is a challenging install due to the limited space inside the engine compartment around the supercharger. Take your time. Make sure the engine is cool before attempting this install. If you have coated headers, file any sharp edges to avoid scratching the finish during installation.

1. Disconnect the various hoses from the carburetor to gain easy access to the rear intake/exhaust manifold stud. Note the hose locations. Illustration 1

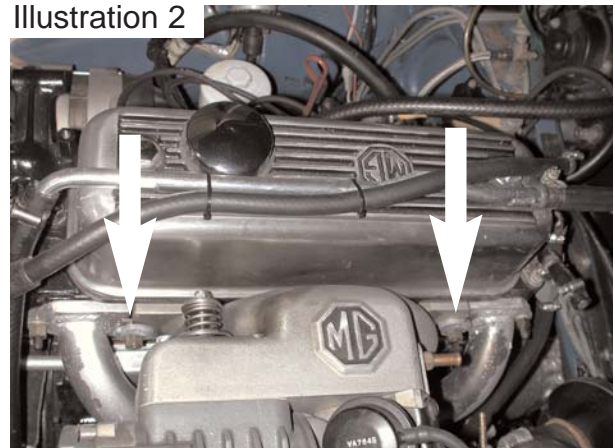


Illustration 1



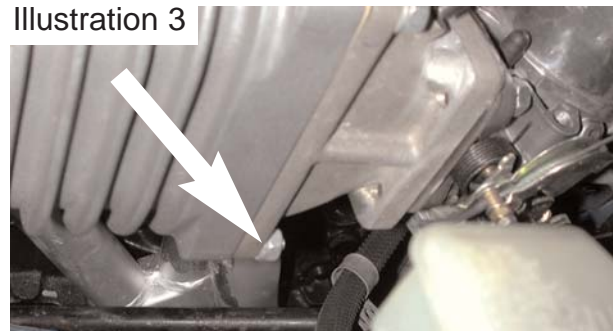
2. Using super glue, refasten the shims to the large washers holding the intake/exhaust manifolds to the head. Only glue the front most and rear most shared washer. Then, using a 1/2" combination wrench, carefully remove the nuts and lock washers from the studs. Illustration 2

Illustration 2



3. Next, use a 10mm socket to remove the two lower nuts on the carburetor to supercharger adapter. The nuts securing the adapter to the supercharger. Illustration 3

Illustration 3



# Installation Instructions

4. Attach a washer to one end of each coupling nut using super glue. Make sure the washer and nut are concentric. Install the coupling nuts onto the head studs with the washer facing out and tighten using a 7/16" wrench. Illustration 4

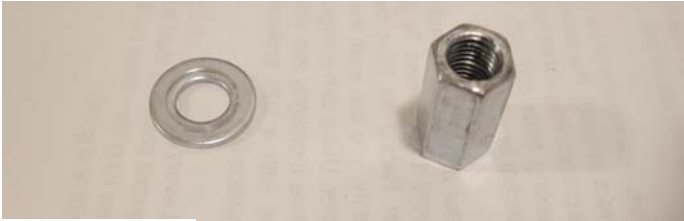
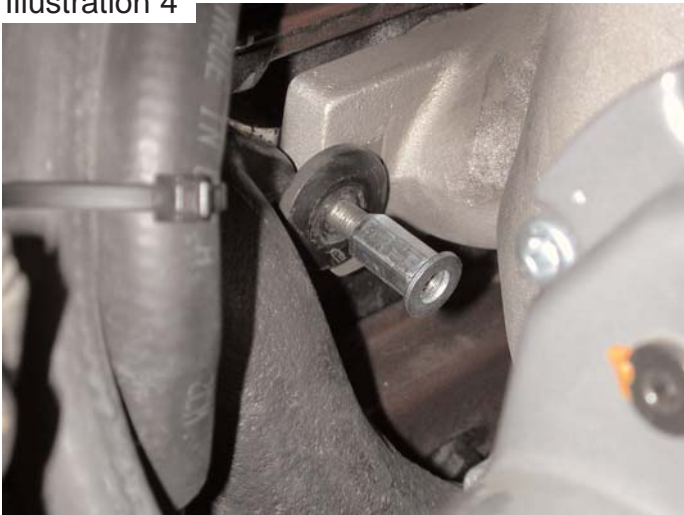
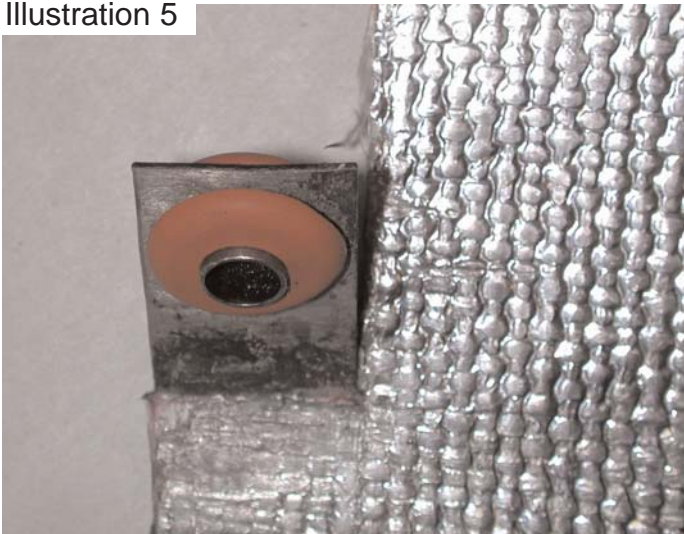


Illustration 4



5. Find the silicone grommets and fit them into the mounting tab on both halves of the heat shield. Slide a metal sleeve into each grommet hole. Illustration 5

Illustration 5



6. The heat shield is two pieces that interlock and then the bracket fastens on as shown. Illustration 6

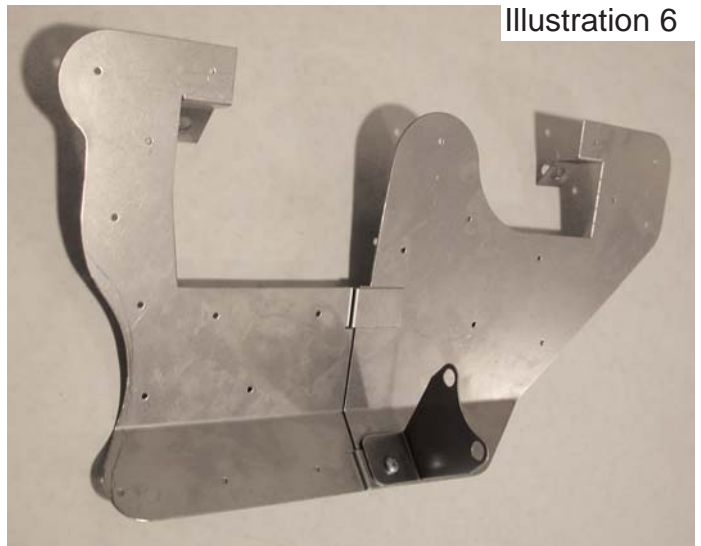


Illustration 6

7. Slip the rear section of the heat shield under the supercharger/manifold and up to the coupling nuts and washers. Illustration 7



Illustration 7



# Installation Instructions

Illustration 7 con't



8. Next, slip the front half under the supercharger/manifold and into place. Illustration 8



Illustration 8



9. Connect the two halves together. Illustration 9

Illustration 9



10. Line up the grommets in the heat shield with the coupling nuts. Apply loctite to a 5/16-24 x 3/4 bolt and use a magnet to insert it. Use the index or middle finger of one hand to hold the bolt against the coupling nut. Turn the bolt with a wrench in your free hand. Illustration 10



Illustration 10



# Installation Instructions



Illustration 10 con't



11. Hang the bracket on the studs securing the carburetor adapter to the supercharger. The bracket points toward the front of the car. Start the nuts. Apply loctite to the screw and insert it through the hole in the bracket and then through both halves of the heat shield. Start the nut.

Illustration 11

Illustration 11



12. Tighten the hardware starting with the intake/exhaust nuts, then the nuts holding the bracket and finally the screw holding the bracket to the heat shield. This screw is a little difficult to get to. Try a regular length Phillips screwdriver at an angle or if that doesn't work, try a special 90 degree screwdriver and a 3/8" socket. Reconnect hoses to carburetor.

## MGA Instructions:

Tools required: 10mm, 3/8", and 1/2" - 1/4" drive shallow sockets, 1/4" drive ratchet and breaker bar, 1/2" and 7/16" combination wrench, stubby Phillips screwdriver, telescoping magnet

Note: This is a challenging install due to the limited space inside the engine compartment around the supercharger. Take your time. Make sure the engine is cool before attempting this install. If you have coated headers, file any sharp edges to avoid scratching the finish during installation.

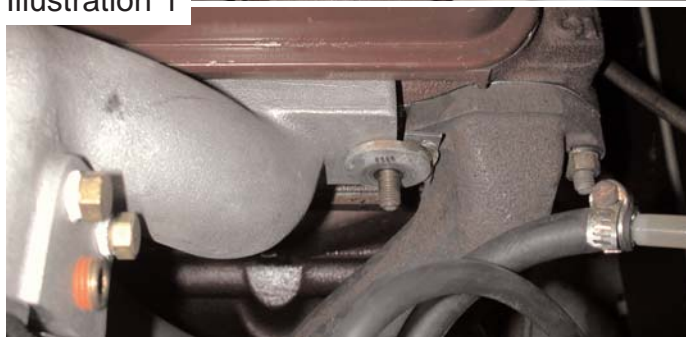
1. Disconnect the various vacuum hoses from the carburetors and remove the air filter element for more access.

2. Super glue the shims back to the large washers on the forward most and rearward most stud between the exhaust and intake manifold runners. Remove the nuts and lock washers from those studs. Pay attention to the number of shims and thickness in case they fall out.

Illustration 1



Illustration 1



# Installation Instructions

3. Using a 10mm socket, remove the bottom two lock nuts on the supercharger/carburetor adaptor. (The nuts securing the adaptor to the supercharger.)

4. Attach a washer to one end of each coupling nut using super glue. Make sure the washer and nut are concentric. Install the coupling nuts onto the head studs with the washer facing out and tighten using a 7/16" wrench. Illustration 2

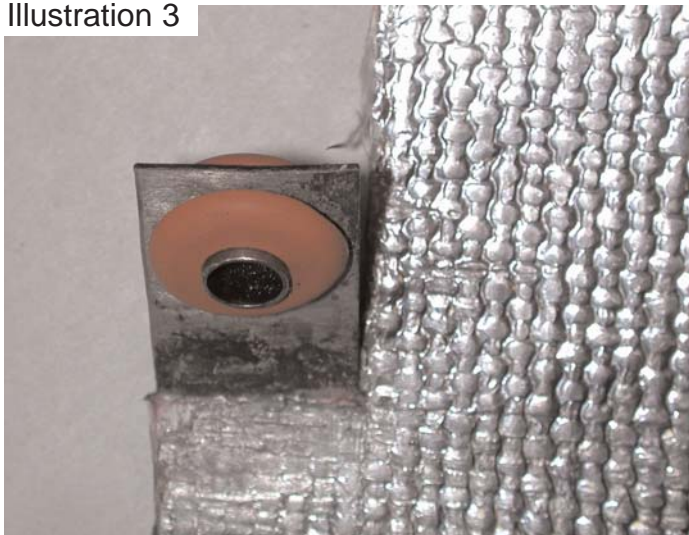


Illustration 2



5. Find the silicone grommets and fit them into the mounting tab on both halves of the heat shield. Slide a metal sleeve into each grommet hole. Illustration 3

Illustration 3



6. Start off by slipping the front half of the heat shield under the supercharger manifold from the rear. Then the rear half. Slide both halves together until the hole in the lower edge aligns. Illustration 4

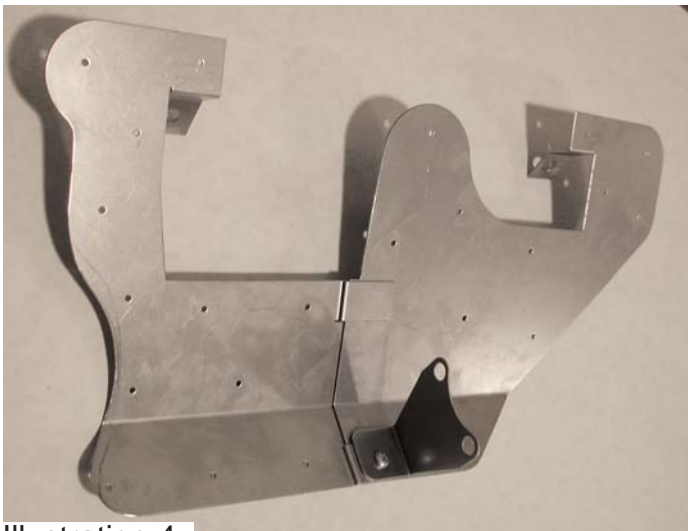


Illustration 4



# Installation Instructions

7. Line up the grommets on the heat shield assembly with the coupling nuts. Apply loctite to a 5/16-24 x 3/4 bolt and use a magnet to insert it. Use the index or middle finger of one hand to hold the bolt against the coupling nut. Turn the bolt with a wrench in your free hand. Only finger tight for now. Illustration 5



Illustration 5



Illustration 5 con't

8. Now fasten the bracket to the heat shield with the screw and nut provided. This is difficult given the limited space. Apply loctite to the screw. Then insert it into the bracket from the top side and lower both pieces down to the hole in the heat shield. Slip the screw through the hole and start the nut on the bottom side. Use a stubby Phillips screwdriver and a 3/8" socket to snug the screw. Align the bracket as shown in the photo and tighten the screw. Illustration 6

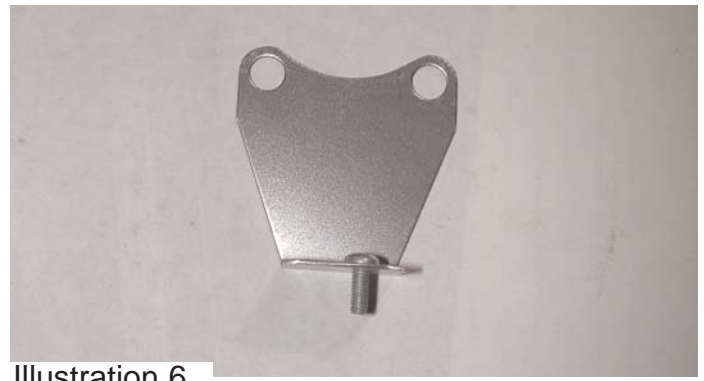


Illustration 6



# Installation Instructions

9. Hang the bracket on the studs for the supercharger/carburetor adaptor, start and tighten the locknuts. Use a 1/2" combination wrench to tighten the 5/16-24 x 3/4bolts on the intake/exhaust runner coupling nuts. Go back and tighten all nuts and bolts.

10. Reconnect the vacuum hoses to the carburetor and reinstall the air filter. Illustration 7

Illustration 7

