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COBRA GUIDE

2008

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**Heat Shield Insulation
by Quiet Ride Solutions**

2008 SPECIAL
DISPLAY UNTIL
APRIL 2008

ance
from the Editors of

**KIT
CAR
BUILDER** Magazine

AUTOMOTIVE





KEEPING YOUR CAR COOL & QUIET

It's the stuff you can't see that often makes the difference between a good and a great project car. That's because it's all too easy to get distracted by the obvious features such as the engine, bodywork and upholstery. But what about beneath and behind those items? Without sufficient insulation for heat and sound, your car can end up being hot and noisy, an uncomfortable experience at best.

Let's address the noise aspect first. Note that sound can emanate from a least two different sources on a car: via a solid material (the frame and body panels) and through the air (such as from the exhaust pipe). So reducing noise levels starts with minimizing vibration, like placing your hand on the skin of a drum.

Dynamat, a material composed of rubber and asphalt, is the rough equivalent of placing your hand on the drumming motion of your cockpit panels. Quiet Ride, the country's largest distributor of Dynamat, starts an insulation project by laying down strips of the self-adhesive material on the surfaces.

Next a layer of Quality Heat Shield, dense padding bonded to a reinforced layer of aluminum foil. It's important that the foil be placed on top (instead of against the fiberglass body or sheet-metal) for several reasons. It not only serves as a skin to protect the padding, but also creates an air pocket, similar to a double-pane window. It's that layer of air that provides the insulation, providing as much as a 50 percent reduction in noise.

As for reducing temperature, the foil also helps to reflect back heat emanating from the engine and exhaust system. This material acts as a fire retardant, and reflects back 97 percent of infrared energy, resulting in a temperature drop of as much as 30 degrees.

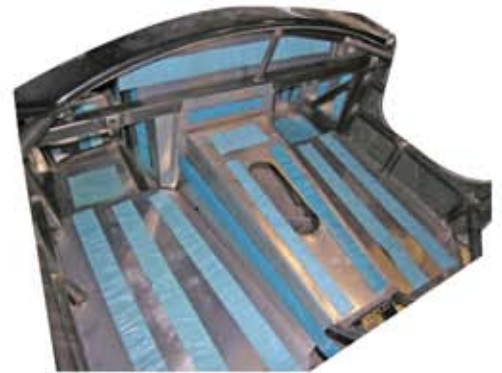
It's fairly easy to put in the materials, and Quiet Ride offers a wide range of pre-cut kits including Factory Five, Street Beasts and Superformance. A universal package that you can custom fit is available as well.

It's important to make sure the materials form a consistent barrier or envelope that's sealed with foil tape at the seams, and is glued down securely.

CG

STOP the HEAT & STOP the NOISE

Step # 1 Dynamat



Step # 2 Heat Shield



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