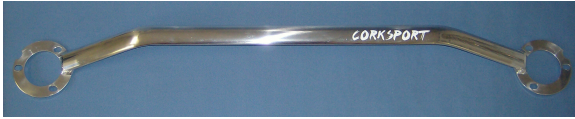


The Shock/Strut Tower Brace

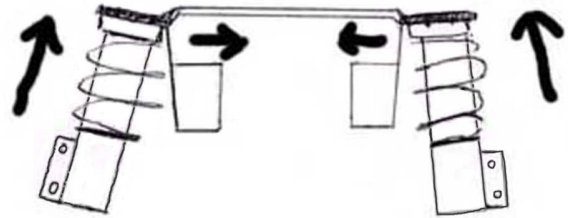


What and why is a shock tower brace needed in my Mazda? The purpose of a shock/strut tower brace is to resist vehicle chassis flex from the load points of the suspension. For our example we will describe the benefits on a Mazda 6.



On the Mazda 6 the top of the shock tower (see picture above) is the connection point for the spring/shock for the front suspension. By connecting the front shock mounting points together it helps minimize the vehicle chassis deformation under hard cornering. This keeps the suspension working as it was intended by the Mazda suspension and chassis engineers, even under heavy loads. This principle also applies to the rear strut/shock mounting points and is especially beneficial in hatchback models.

The illustration below shows how distributed forces from the suspension result in chassis flex. With the brace installed chassis flex under hard cornering is minimized, making the suspension more effective.



An example of how a front shock tower brace can improve performance was demonstrated during a recent track test. We ran a Mazda 6 at a local slalom event with and without the shock tower brace. We found that an otherwise stock 2004 Mazda 6 V6 gained 7 mph in the slalom with the CorkSport shock tower brace.



If you do any spirited driving then you need to try a CorkSport shock/strut tower brace and you will notice the difference the next time you drive your favorite twisty road.

CorkSport has strut tower bars available for most Mazda's.

Happy Motoring!