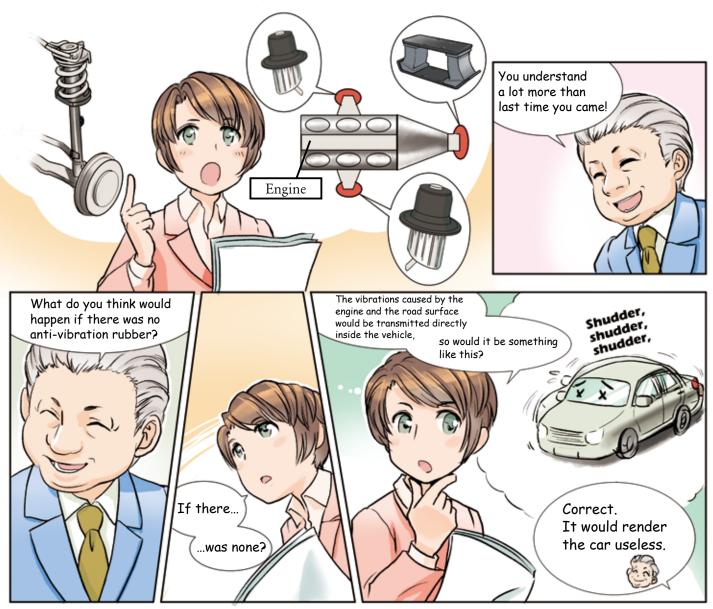


As was explained in the last report about anti-vibration rubber for suspension, it is rubber that reduces vibration.

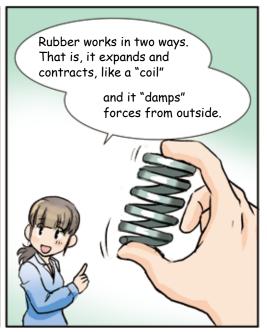
Anti-vibration rubber for suspension mainly reduces vibration caused by the road surface.

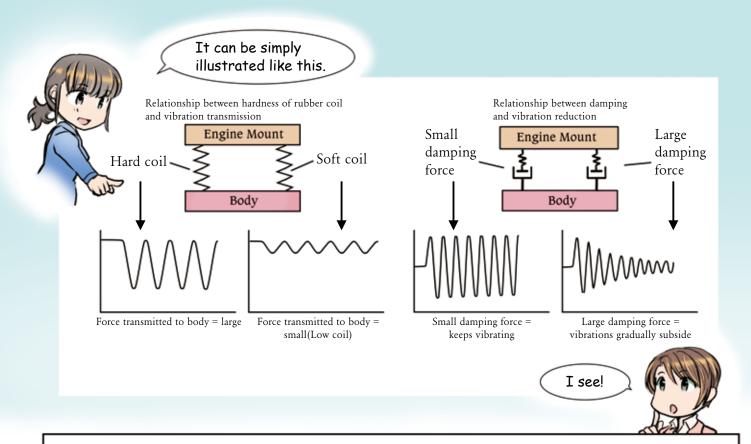
On the other hand, because vehicles move by exploding gasoline, anti-vibration rubber in the engine mount reduces the vibration generated by the engine.











Coils alone aren't enough to stop the vibration, so the car body keeps shaking.

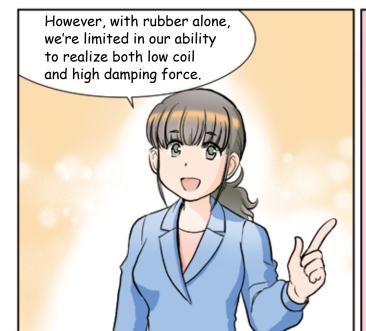
> On the other hand, with only a damper, the force transmitted from the road surface and the engine to the body will increase.

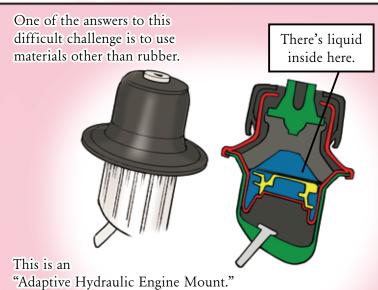
> > Anti-vibration rubber possesses both of these qualities.

Moreover, anti-vibration rubber can change the vehicle's properties in the back-and-forth, right-and-left, and up-and-down directions, making it possible to fine-tune the smooth ride to suit each type of vehicle.









It combines the "low coil" of rubber and the "high damping force" generated by moving fluid, right?

That's right. You're starting to get it, aren't you?

Although each single piece of anti-vibration rubber is small, what is packed inside it is something very big.



I am starting to sense how very profound the concept of anti-vibration rubber is... It makes me want to learn even more about my own company's products.



The Adaptive Hydraulic Engine Mount was mentioned earlier, and now we are moving on to today's main theme.

That is, what is required of an engine mount? To look at in more depth, there are four things demanded of an engine mount.

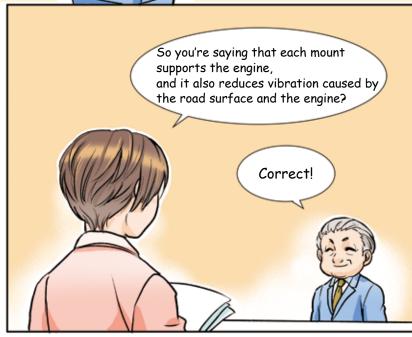


1.Support the engine ... Engine mounts support engines that weigh from 100 kg to 300 kg.

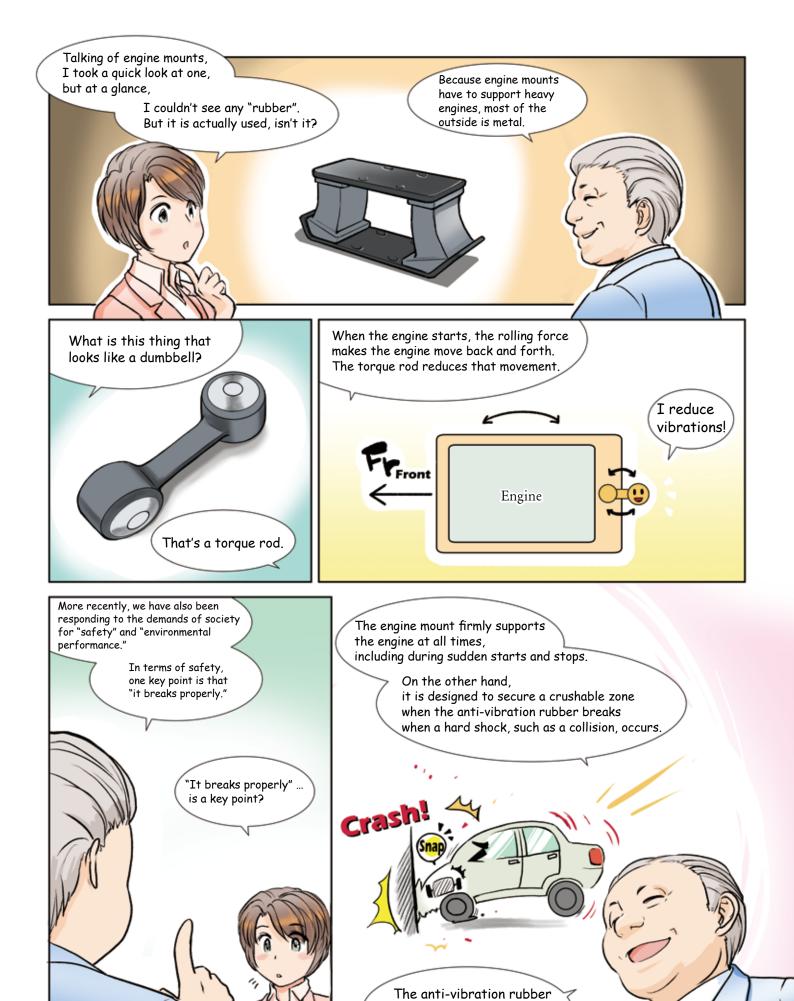
2.Reduce vibration generated by the engine ... Shut out and reduce the vibration generated by the engine that is transmitted inside the car.

3.Reduce shaking of the engine itself ... Quickly suppress the shaking of the engine itself caused by vibration and shock from the road surface.

4.Prevent interference by the engine ... During sharp turns of the steering wheel or sudden braking, it keeps the engine from moving and hitting other parts.



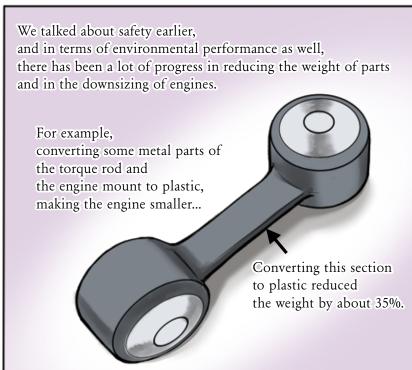


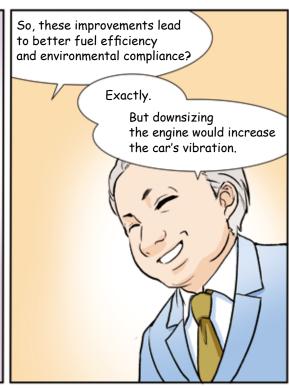


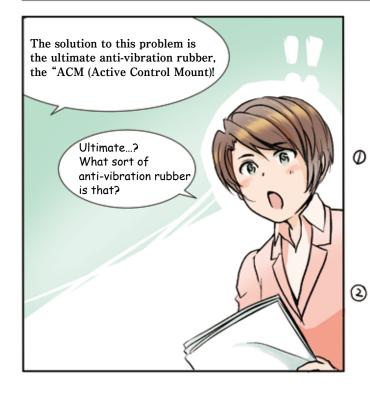
breaking creates a crushable zone here.

\*Crushable zone: a space that functions to absorb energy by crumpling during a collision.

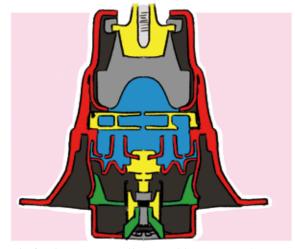








ACM sends an electrical signal corresponding with the engine's revolutions, and by synchronizing the actuator ([2]) installed in the bottom of the Adaptive Hydraulic Engine Mount ([1]), cancels out the vibrations from the engine.



That's why ACM is well received by car manufacturers as a device that achieves both fuel efficiency improvement and vibration control.

