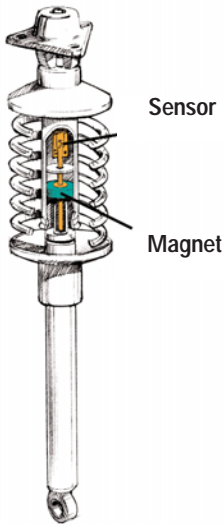


Automotive Suspensions

Part Number: 10-03
550872 Revision B

ACTIVE OR SEMI-ACTIVE STRUT



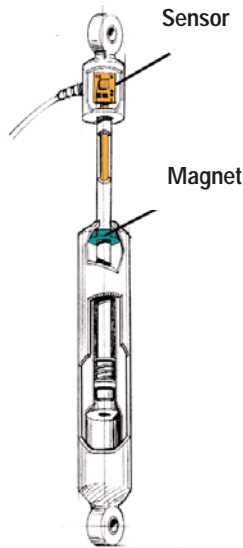
Mounted in spring preload cylinder of a strut.

Active damper and height control can sometimes be combined into a single strut design. By combining an actuator along the same axis as the damper, a complete assembly can be provided to the suspension builder for preloading the spring to control ride height and quality. Adding a Commercial Sensor to the spring preload cylinder section of the strut can give the designers valuable information about ride height, and suspension reaction to road conditions.

Standard sensors are available from the CSP line for this purpose or a completely customized, internally or externally mounted sensor can be designed. Output formats to the system controller can be analog or digital.

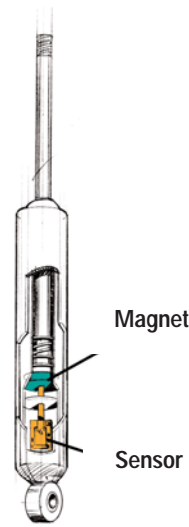
ACTIVE DAMPERS

Adding a sensor to a controlled, variable rate damper provides position and velocity information so the damping rate can be controlled on the fly. Mounting an MTS Commercial Sensor can be done in several ways.

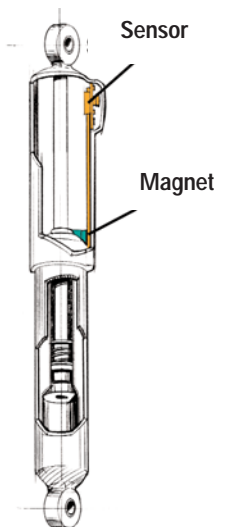


Mounted and referenced to the damper rod.

MTS can provide a sensor that mounts co-axially within the damper rod. Two co-axial mounting schemes are possible. One mounts the sensor stationary with the rod. The magnet mounts to the damper body. The other method mounts the sensor stationary with the body and the magnet mounts to the rod piston. In the rod mount, the sensor is not wetted. In the body mount, the sensor is wetted.



Mounted and referenced to the damper body.



Mounted into the damper dust cover.

A third damper mounting can be made within the damper dust cover. In this case, the magnet is fastened to the damper body.

Sensors can be standard assemblies from the CSP line or customized with special electronics and/or packaging. Sensor components allow the user to fully integrate the sensor mechanically and incorporate the electronics within system controllers, while accommodating special packaging needs.

Reference:

Commercial Sensors Brochure: Part No. 550941.



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