

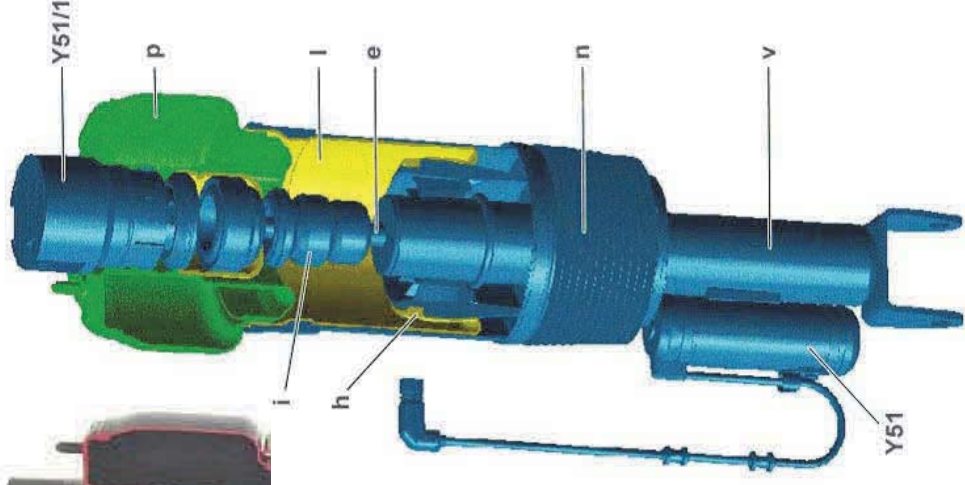
Front Air Spring Construction



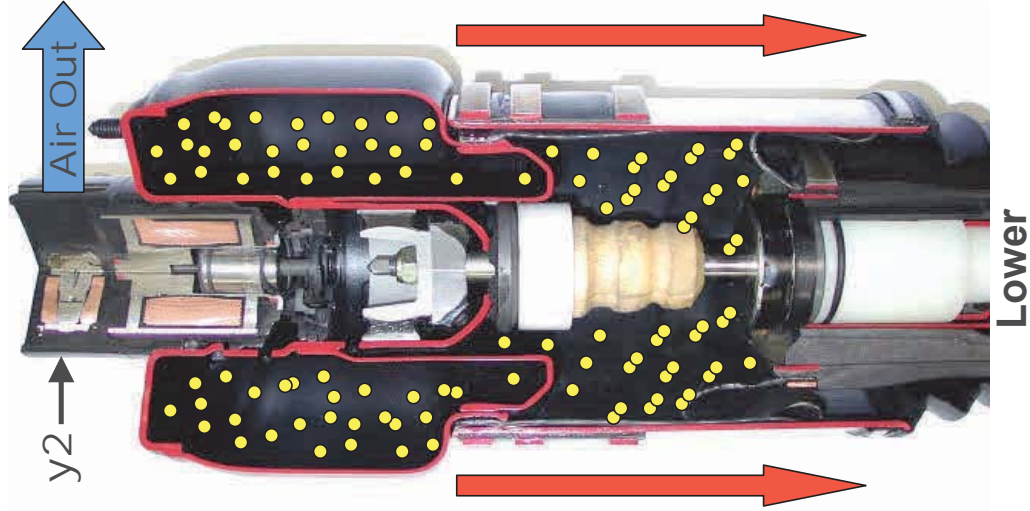
Y51/1y2

Y51/1y1

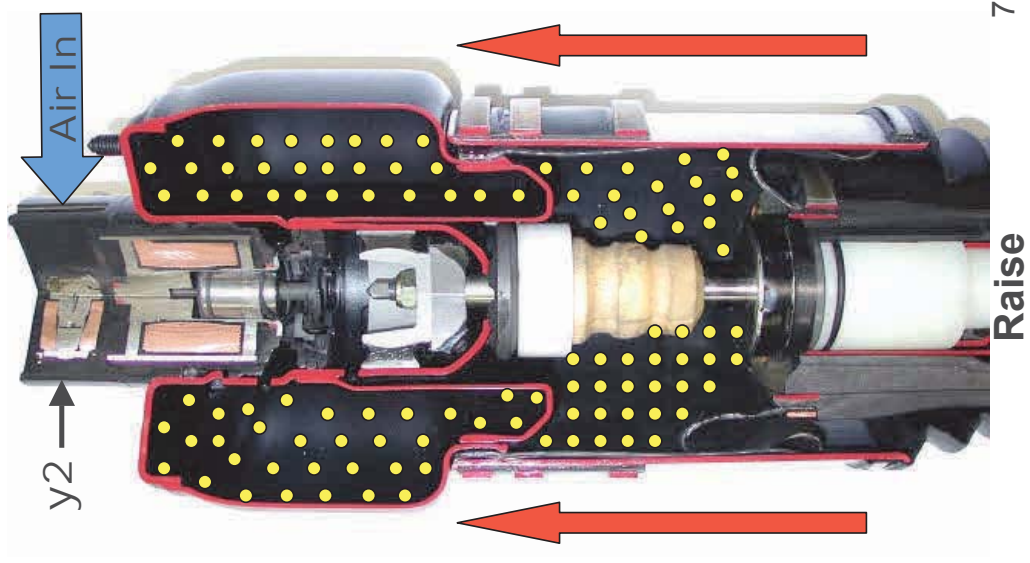
- 40 Front air spring / strut
- Y51/1 LF spring strut valve unit
 - y1 Additional volume valve
 - y2 Level valve
- p Additional volume air chamber
- i Stop buffer
- l Air chamber
- e Piston rod
- h Air bellows
- n Protective boot
- v Shock absorber
- Y51 LF front axle dampening valve



Level and Height Adjustment (y2)

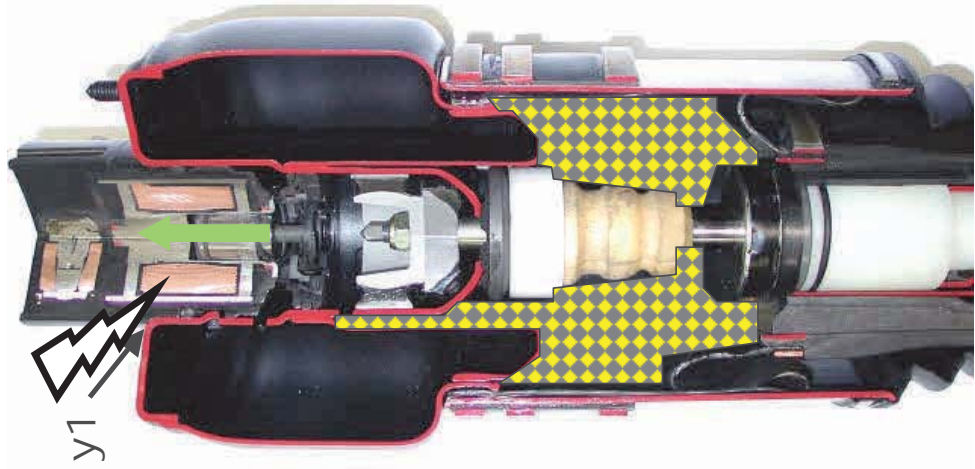


Solenoid (y2) energized (open) for ride height changes

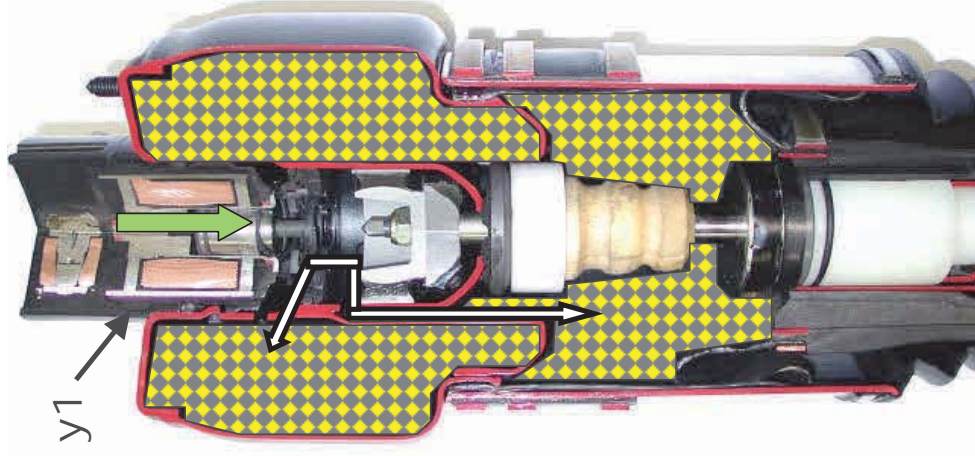
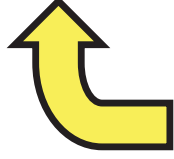
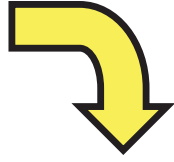


Note:
Closing y2 acts as the check valve. This will maintain air volume in spring / strut assembly.

Air Spring Dampening (y1)



Solenoid (y1) closed
(energized)
one air chamber used,
less air volume to
compress = firmer



Solenoid (y1) open
(de-energized)
both air chambers
used, more air volume to
compress = softer