



2000-2006 MERCEDES-BENZ CL CLASS
(W215 w/ABC SUSPENSION)



2000-2006 MERCEDES BENZ S CLASS
(W220 w/ABC SUSPENSION)

Congratulations on your selection to purchase an Arnott Air Suspension System. We at Arnott Air Suspension Systems are proud to offer a high quality product at the industries most competitive pricing. Thank you for your confidence in us and our product.

Proper installation is essential to experience and appreciate the benefits of this system. Please take a moment to review these installation instructions before you begin to install this system on your vehicle.

It is equally important to be aware of all necessary safety measures while installing your new Air Ride System. This includes proper lifting and immobilizing of the vehicle and isolation of any stored energy to prevent personal injury or property damage.

“Engineered to Ride, Built to last”

**WORK IS TO BE PERFORMED BY A FACTORY TRAINED MECHANIC;
FAILURE TO DO SO MAY CAUSE DAMAGE TO THE VEHICLE.
DIAGNOSTIC SOFTWARE IS REQUIRED TO RE-PRESSURIZE THE
HYDRAULIC SYSTEM AFTER STRUT INSTALLATION.**



WARNING: *The hydraulic suspension system is under pressure (in excess of 200 bar, or 2900 PSI); depressurize the hydraulic system completely before starting any work. Wear protective clothing and eye protection. When disengaging hydraulic lines without first depressurizing the system, dangerous skin or eye injuries may occur. If hydraulic fluid is swallowed, this may lead to poisoning symptoms such as headache, giddiness, abdominal pain, vomiting, diarrhea, cramps and unconsciousness.*

Kit contains **ONE (1)** of:

PARTS LIST			
	P/N	QTY	DESCRIPTION
<input type="checkbox"/>	SK-2456	1	REAR STRUT ASSEMBLY, RIGHT
<input type="checkbox"/>	SK-2457	1	REAR STRUT ASSEMBLY, LEFT
<input type="checkbox"/>	SK-2460	1	REAR STRUT ASSEMBLY, RIGHT
<input type="checkbox"/>	SK-2461	1	REAR STRUT ASSEMBLY, LEFT



2000-2006 MERCEDES-BENZ CL CLASS
(W215 w/ABC SUSPENSION)



2000-2006 MERCEDES BENZ S CLASS
(W220 w/ABC SUSPENSION)

General information:

- * *Struts not to be stored below 5 °F (-15 °C) and above 122 °F (50 °C).*
- * *Avoid damage to hydraulic lines and cables.*
- * *Removal and installation is only to be performed by full qualified personnel.*
- * *Use car manufacturer's diagnostic software.*
- * **CAUTION:** *Damage to the vehicle and strut assembly can be incurred if work is carried out in a manner other than specified in the instructions or in a different sequence.*

STRUT REMOVAL:



The ignition must remain switched off during the strut removal and replacement.

- 1.0 Set steering to straight ahead.
- 2.0 Locate and remove the Active Body Control fuse (Figure A).

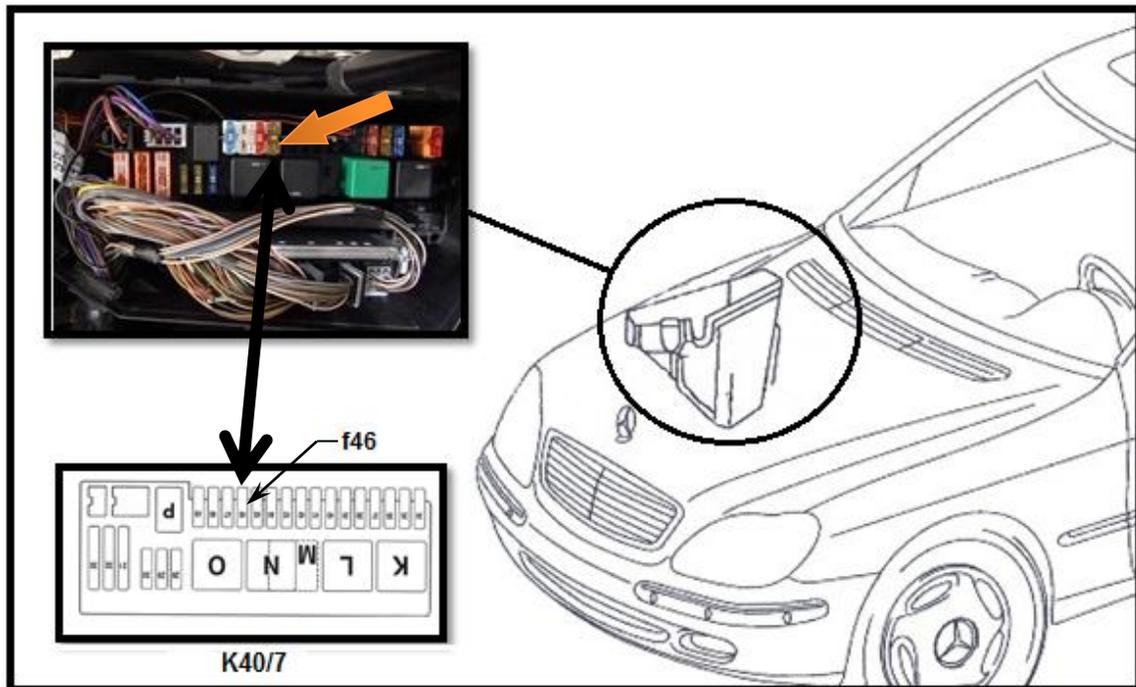


Figure A



2000-2006 MERCEDES-BENZ CL CLASS
(W215 w/ABC SUSPENSION)



2000-2006 MERCEDES BENZ S CLASS
(W220 w/ABC SUSPENSION)



Use lifting platform (hoist) that is capable of raising the body separately from the wheels, lift body at the lifting points prescribed by the vehicle manufacturer.

Vehicle slippage can cause danger to life and limb.

- 3.0 Remove the strut cover located on the rear deck (Figure B).
- 4.0 Disconnect the electrical connector at the top of strut (Figure B).
- 5.0 Remove the three nuts on the top of the strut (Figure B).

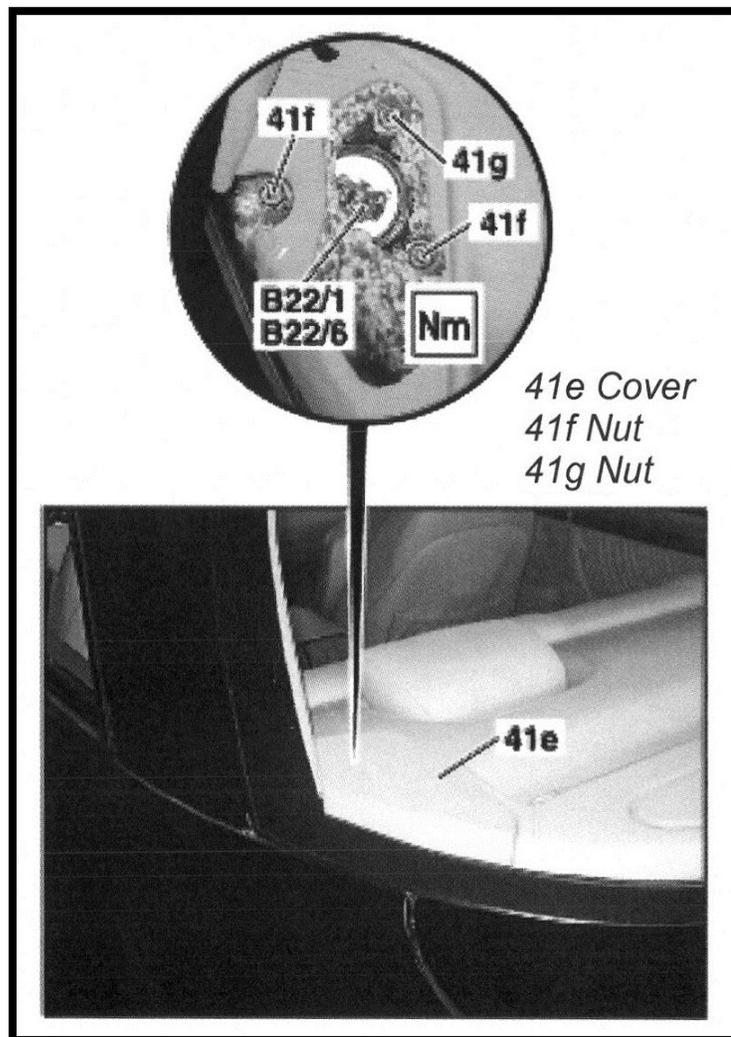


Figure B



2000-2006 MERCEDES-BENZ CL CLASS
(W215 w/ABC SUSPENSION)



2000-2006 MERCEDES BENZ S CLASS
(W220 w/ABC SUSPENSION)

- 6.0 Raise vehicle.
- 7.0 Remove rear tire.

CAUTION: HYDRAULIC SYSTEM UNDER PRESSURE.

NOTE: THE ENGINE MUST BE SHUT OFF FOR AT LEAST 5 MINUTES PRIOR TO BLEEDING.

- 8.0 Bleed off hydraulic pressure. Open bleed screw carefully so that the hydraulic fluid can drain out slowly to prevent the body dropping too rapidly (Figure C).

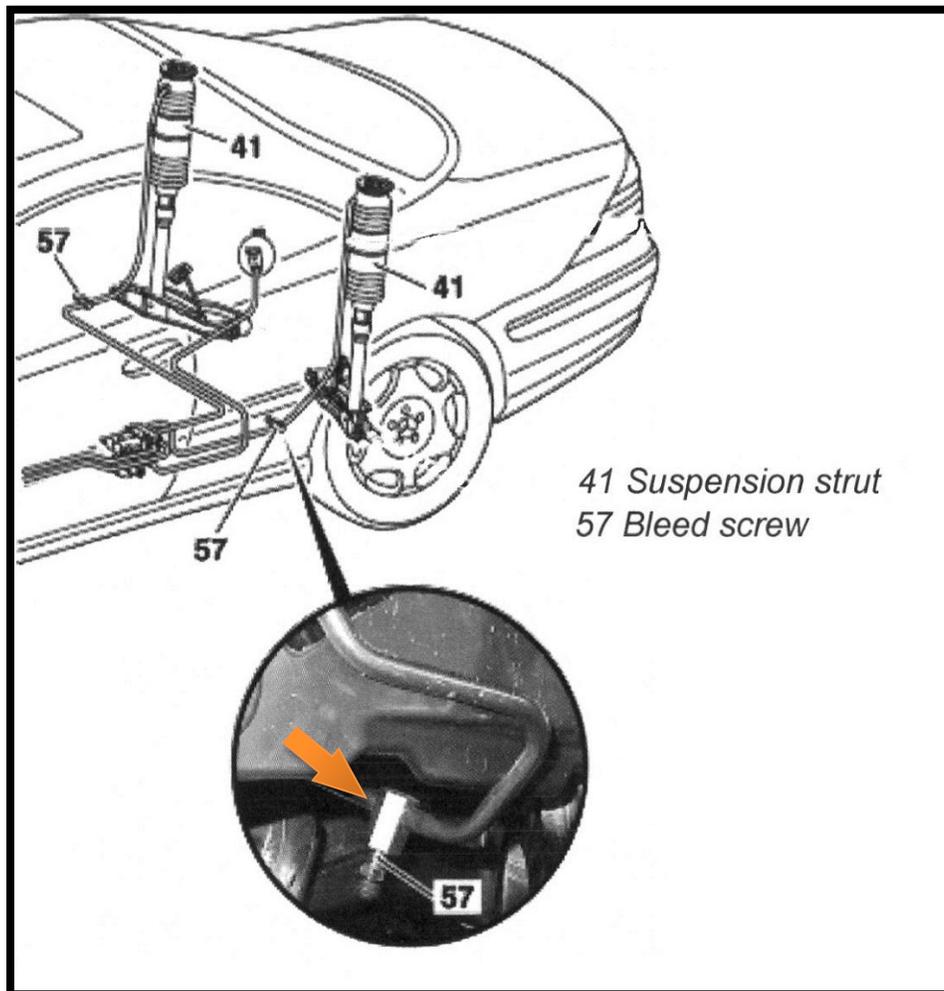


Figure C



2000-2006 MERCEDES-BENZ CL CLASS
(W215 w/ABC SUSPENSION)



2000-2006 MERCEDES BENZ S CLASS
(W220 w/ABC SUSPENSION)

- 9.0 Disconnect the hydraulic line quick-release coupling from the strut (ensure that no dirt enters the opened quick-release fitting) (Figure D).

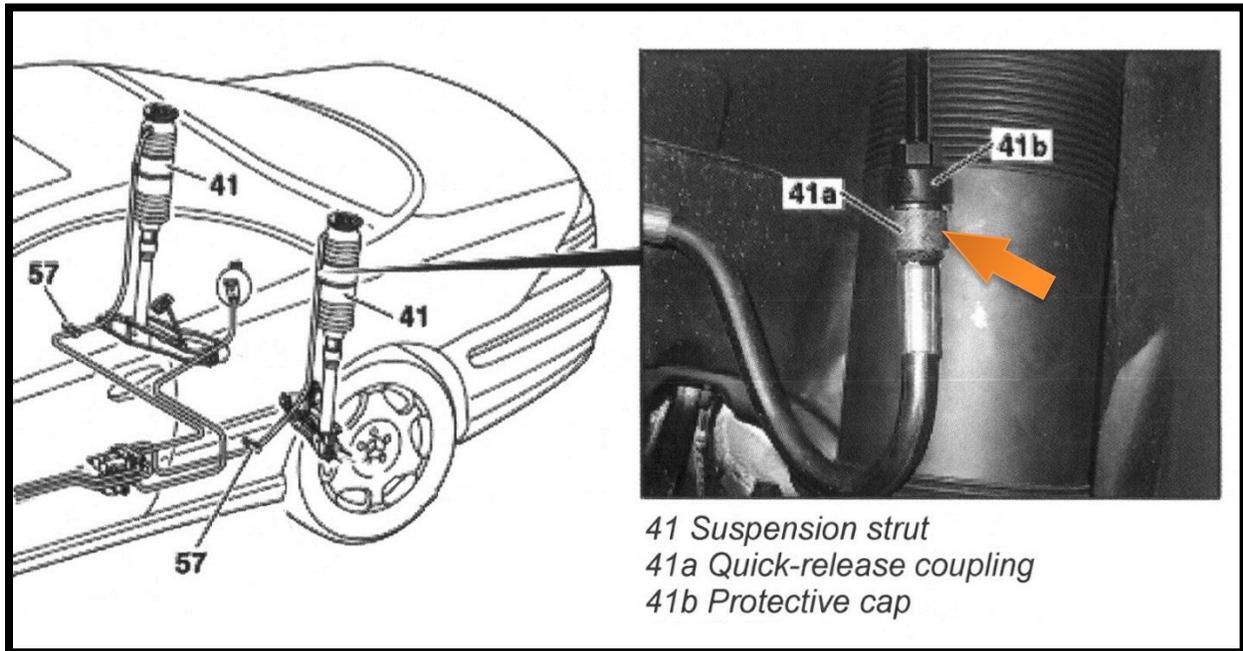
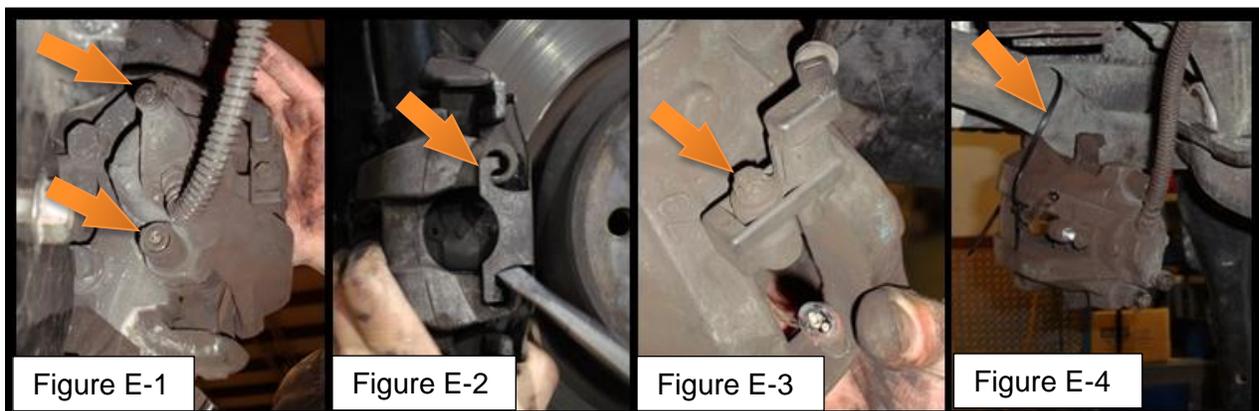


Figure D

- 10.0 Remove rear brake caliper:

- 10.1 Loosen the two (2) bolts on the backside of the caliper (Figure E-1)
- 10.2 Remove the retaining clip (Figure E-2).
- 10.3 Remove the brake pad sensor bracket (Passenger side only) (Figure E-3).
- 10.4 Secure the caliper (Figure E-4).





2000-2006 MERCEDES-BENZ CL CLASS
(W215 w/ABC SUSPENSION)



2000-2006 MERCEDES BENZ S CLASS
(W220 w/ABC SUSPENSION)

11.0 Disconnect the travel sensor (Figure F).



Figure F

12.0 Disassemble the outer suspension arm (Figure H).



Figure H



2000-2006 MERCEDES-BENZ CL CLASS
(W215 w/ABC SUSPENSION)



2000-2006 MERCEDES BENZ S CLASS
(W220 w/ABC SUSPENSION)

- 13.0 Remove the bolt and nut connecting the strut assembly to the suspension arm (Figure I).

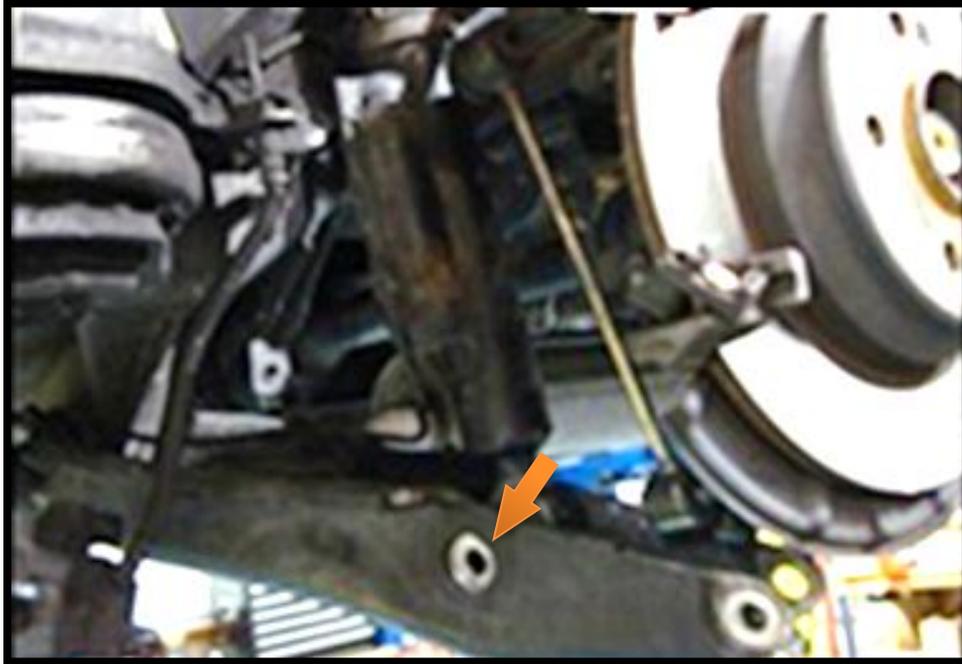


Figure I

- 14.0 Loosen the lower control bolt slightly, DO NOT REMOVE (this will allow the lower control arm to swing down) (Figure J).

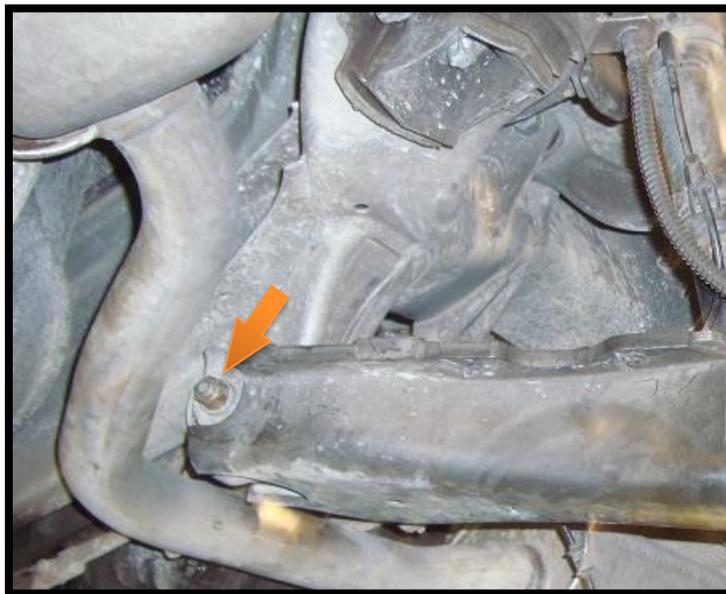


Figure J



2000-2006 MERCEDES-BENZ CL CLASS
(W215 w/ABC SUSPENSION)



2000-2006 MERCEDES BENZ S CLASS
(W220 w/ABC SUSPENSION)

-
- 15.0 Remove strut assembly from car.
 - 16.0 Strut removal complete.
 - 17.0 Installation is reverse order as removal (tighten all mounting hardware to factory specifications).
 - 18.0 Fill the ABC system using MB hydraulic fluid (part number 001 989 24 03) or Pentosin CHF 11S Hydraulic fluid to the reservoir as follows (Ref. Figure K):
 - 18.1 Fill the expansion reservoir of the ABC system with hydraulic fluid using filtered funnel (part number 126 589 12 63 00).
 - 18.2 Insert dipstick all the way into the expansion reservoir, pull out, read off fluid level and correct if necessary (level to be between “min” and “max” on the “ENGINE OFF, UNLADEN” side of the dipstick).
 - 18.3 Start engine, the fluid level in the expansion reservoir must not drop below the “MIN” marking. The tandem pump must not draw air under any circumstances otherwise, it can be damaged in advance due to a shortage of lubrication.
 - 18.4 Press the vehicle level control button repeatedly, continuing until both of the indicator lamps within the button go out.
 - 18.5 Insert dipstick all the way into the expansion reservoir, pull out, read off fluid level and correct if necessary (level to be between “min” and “max” on the “ENGINE ON, UNLADEN” side of the dipstick).



2000-2006 MERCEDES-BENZ CL CLASS
(W215 w/ABC SUSPENSION)



2000-2006 MERCEDES BENZ S CLASS
(W220 w/ABC SUSPENSION)

NOTE: *WHEN BLEEDING AIR FROM THE ABC SYSTEM AND WHENEVER ALLOWING THE PUMP MOTOR TO RUN, ALWAYS ENSURE THAT THE FLUID RESIVOIR CONTAINS ADIQUATE HYDRAULIC FLUID.*

NOTE: *SEE THE SERVICE MANUAL FOR OTHER ABC SYSTEM BLEEDING OPTIONS.*

19.0 Bleed the ABC system using the “RODEO” method. This method requires the use of the “STAR DIAGNOSIS” software.

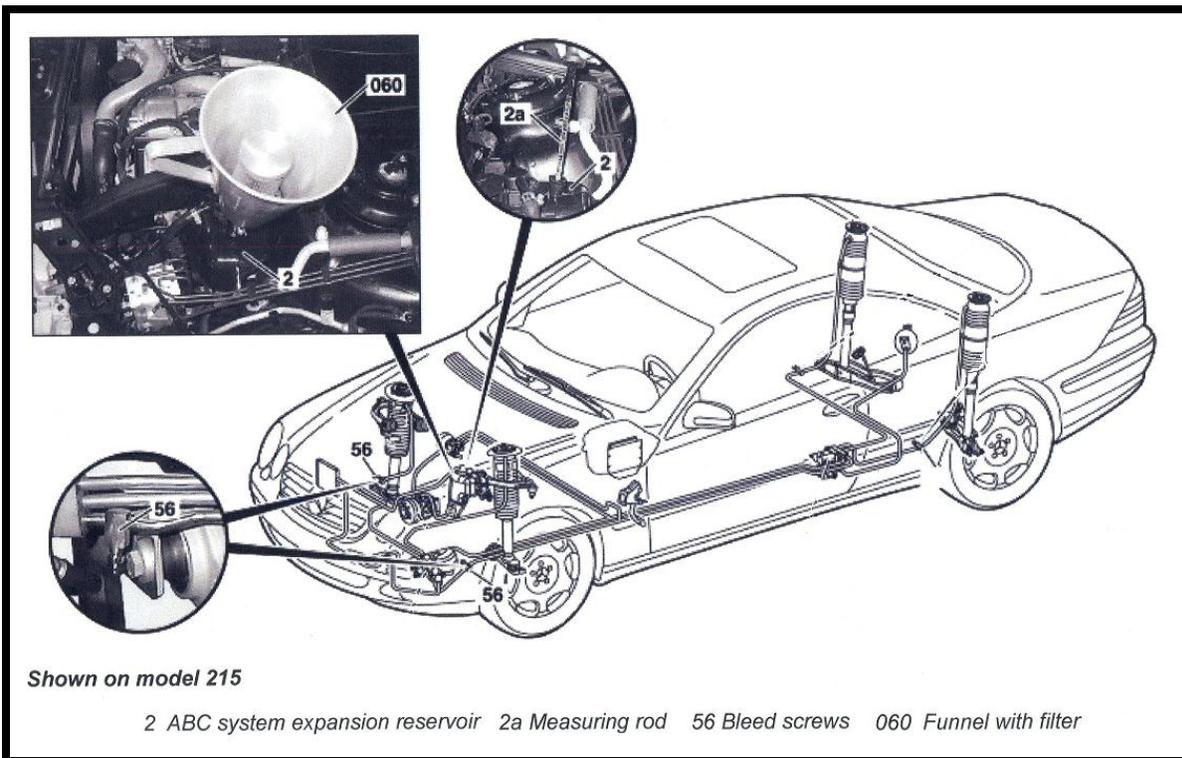


Figure K