



SSA02575N
DI.PA. SPORT AIR SPRING
FOR 2005-2011 MERCEDES-BENZ ML-CLASS
FOR 2007-2012 MERCEDES-BENZ GL-CLASS



WARNING: *The air suspension system is under pressure (up to 10 bar, or 150 lbf/in). Verify pressure has been relieved and disconnect power to the air suspension system prior to disassembly. Do not allow dirt or grease to enter the system. Always wear standard hand, ear, and eye protection when servicing the air suspension system.*



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GENERAL INFORMATION:

- Not to be stored below 5°F (-15°C) or above 122°F (50°C).
- Avoid damage to air lines and cables.
- Removal and installation is only to be performed by fully qualified personnel.
- Use car manufacturer's diagnostic software.

CAUTION: *Damage to the vehicle and air suspension system can be incurred if work is carried out in a manner other than specified in the instructions or in a different sequence.*



To avoid the possibility of short circuits while working with electric components consult your owner's manual on how to disconnect your battery.



Consult your vehicle owner's manual, service manual, or car dealer for the correct jacking points on your vehicle and for additional care, safety and maintenance instructions. Under no circumstances should any work be completed underneath the vehicle if it is not adequately supported, as serious injuries and death can occur.

AIR STRUT REMOVAL

1. SET THE STEERING TO STRAIGHT AHEAD.
2. RAISE THE VEHICLE.
3. REMOVE THE FRONT WHEEL.
4. DISCONNECT THE AIR SHOCK ADS CONTROL CABLE CONNECTOR (LOCATED IN THE FENDER WELL).
5. DISCONNECT THE SWAY BAR ARM LINKAGE (FIGURE A).

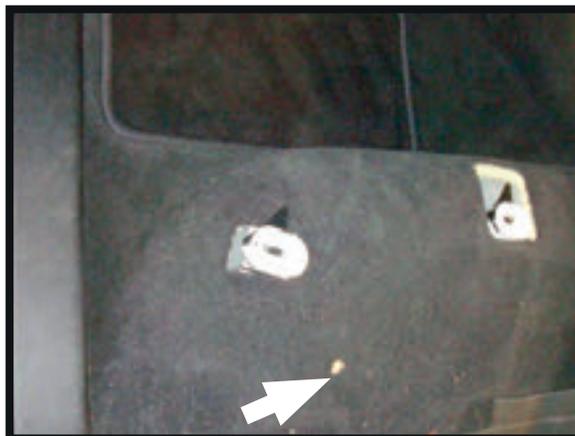


FIGURE A



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6. REMOVE THE LOWER SHOCK MOUNTING NUT AND BOLT. (FIGURE B)



FIGURE B

7. REMOVE THE BALL JOINT NUT AND SEPARATE FROM THE UPPER CONTROL ARM. (FIGURE C)



FIGURE C

8. REMOVE THE WIRE HARNESS MOUNT FROM SHOCK. (FIGURE D)

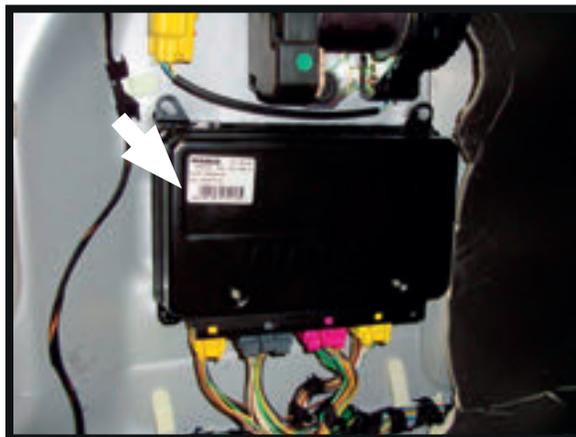


FIGURE D



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9. DISCONNECT THE AIR LINE. (FIGURE E)



FIGURE E

10. REMOVE THE AIR LINE FITTING. TO DO THIS, REMOVE THE COLLET AND THE REMAINING FITTING WILL SLIDE OFF OF THE AIR HOSE. (FIGURE F)

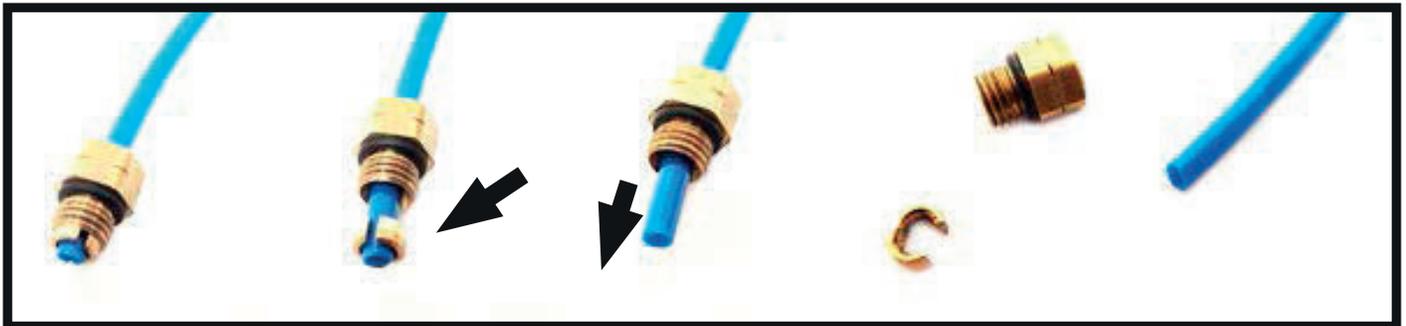


FIGURE F

11. REMOVE THE THREE (3) TOP FLANGE NUTS. (FIGURE G)

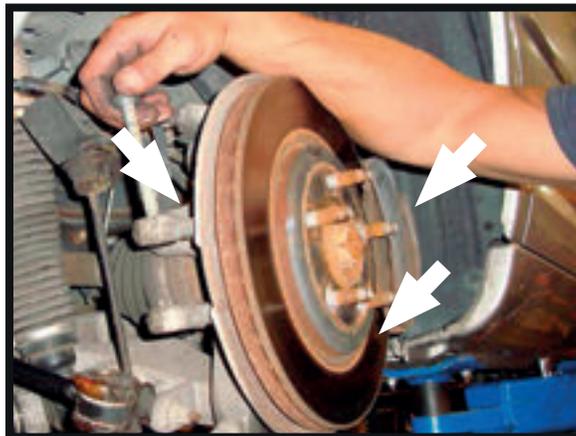


FIGURE G

12. REMOVE STRUT.
13. REMOVAL COMPLETE.



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AIR SPRING REMOVAL

1. OBTAIN FRONT SHOCK ASSEMBLY.
2. PLACE CAP REMOVAL TOOL ONTO THE STUDS OF THE TOP MOUNT OF THE SHOCK ASSEMBLY (THE BOLT OF THE CAP REMOVAL TOOL WILL REST ON THE CENTER OF THE TOP CAP), INSTALL THE THREE (3) NUTS THAT MOUNT THE SHOCK TO THE VEHICLE ON TOP OF THE CAP REMOVAL TOOL. (FIGURE H)

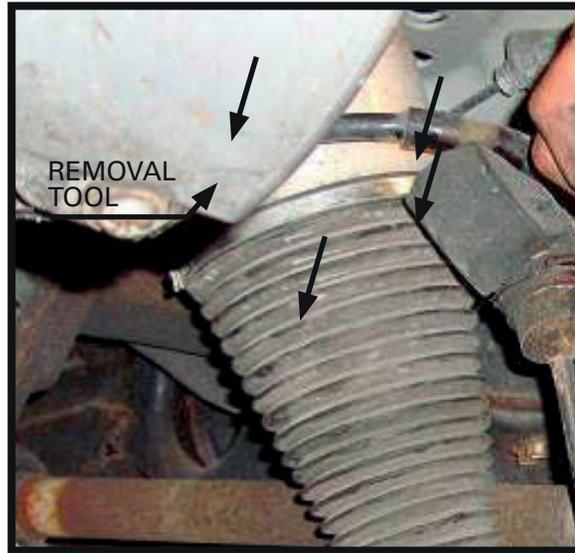


FIGURE H

3. EVENLY TIGHTEN THE THREE (3) NUTS UNTIL THE TOP CAP MOVES DOWNWARD (THIS WILL ALLOW THE RETAINING RING TO BE REMOVED). (FIGURE I)

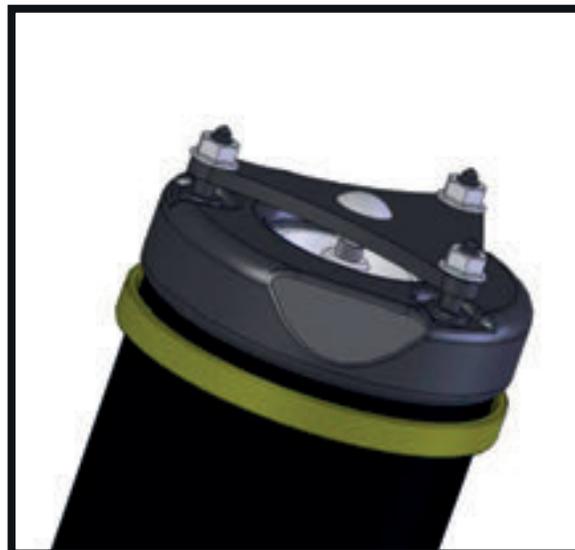


FIGURE I



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4. WITH THE TOP CAP PUSHED DOWN, USE A SMALL FLATTIP SCREW DRIVERTO REMOVE THE RETAINING RING. (FIGURE J)

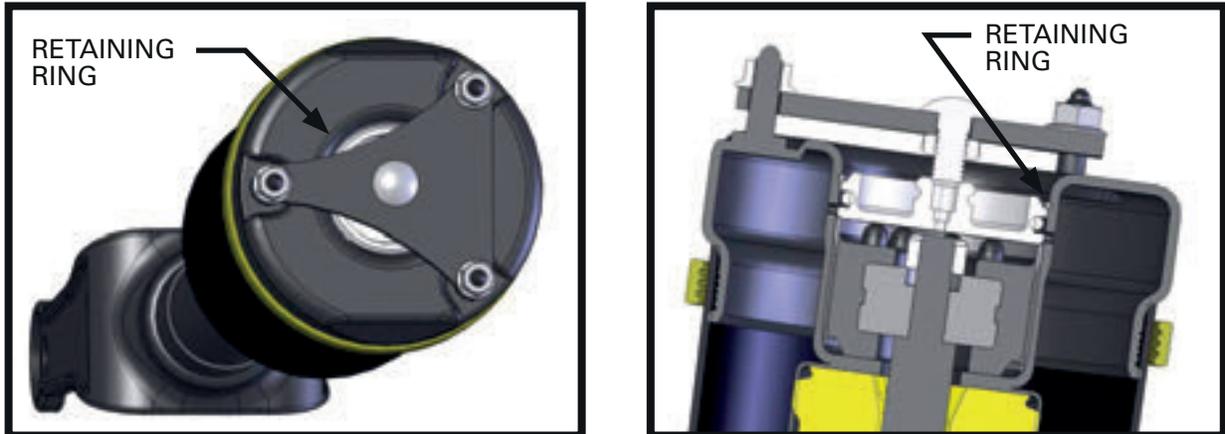


FIGURE J

5. REMOVE THE CAP REMOVAL TOOL.
6. USING A PAIR OF LOCKING PLIERS REMOVE THE TOP CAP. (FIGURE K)

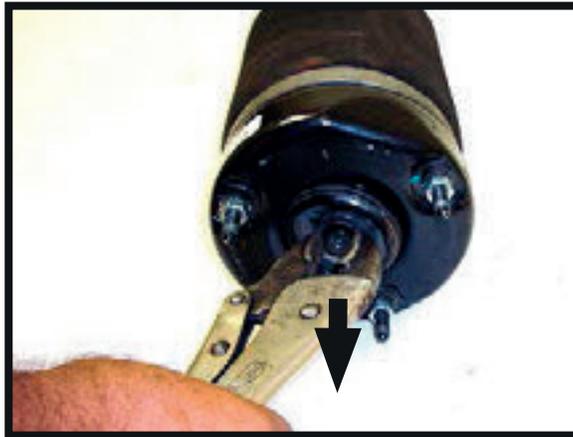


FIGURE K

7. REMOVE THE NUT HOLDING THE AIR SPRING ASSEMBLY TO THE SHOCK. (FIGURE L)



FIGURE L



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8. REMOVE THE OLD AIR SPRING AND O-RING, DISCARD. CLEAN THE AREA WHERE THE NEW AIR SPRING WILL BE INSTALLED. (FIGURE M)

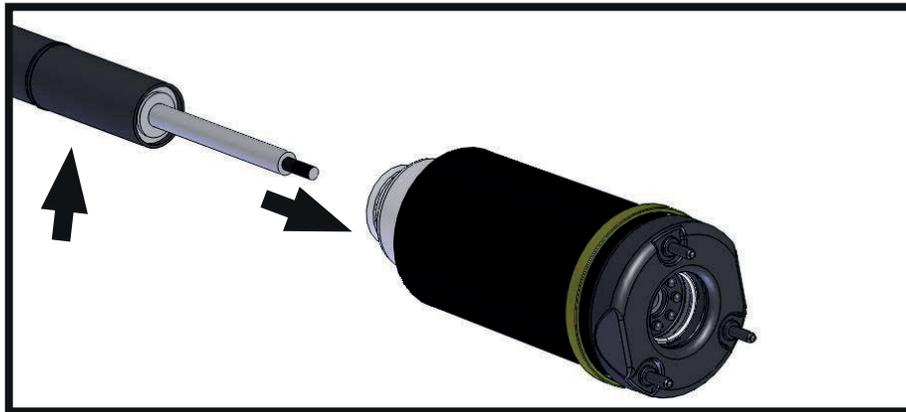


FIGURE M

AIR SPRING INSTALLATION

1. INSTALL SHOCK CAP INTO PLACE ON THE SHOCK. TAP LIGHTLY WITH A HAMMERTO FULLY SEAT THE CAP. (FIGURE N)

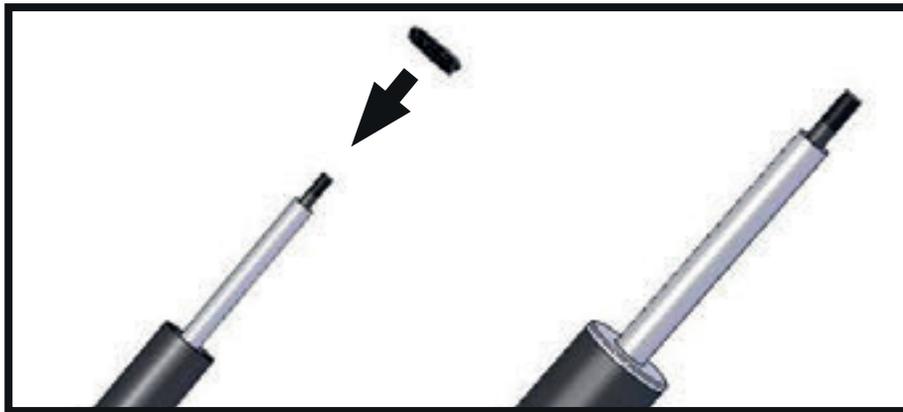


FIGURE N

2. OBTAIN THE NEW AIR SPRING, APPLY A LUBRICANT TO THE O-RINGS LOCATED IN THE BOTTOM OF THE AIR SPRING, INSTALL ONTO THE SHOCK. (FIGURE O)

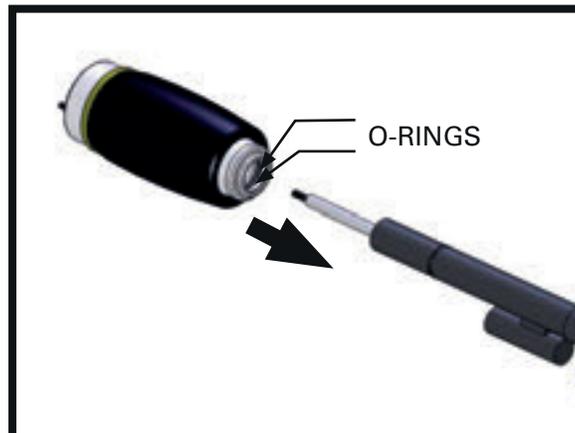


FIGURE O



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3. INSTALL LOCKNUT ONTO SHAFT OF THE SHOCK AND TIGHTEN TO MANUFACTURERS SPECIFICATIONS. (FIGURE P)



FIGURE P

4. WITH THE NUT SECURED PROPERLY, LUBRICATE THE O-RING BEFORE INSERTING THE SUPPLIED CAP. (FIGURE Q)



FIGURE Q

5. PLACE THE RETAINING RING ON TOP OF THE CAP BEFORE REINSTALLING THE SUPPLIED TOOL. (FIGURE R)



FIGURE R



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6. PROCEED TO TIGHTEN THE THREE NUTS UNTIL THE CAP IS PRESSED FAR ENOUGH INSIDE OF THE AIR SPRING TO SECURELY SEAT THE RETAINING CLIP. REMOVE TOOL. (FIGURE S)

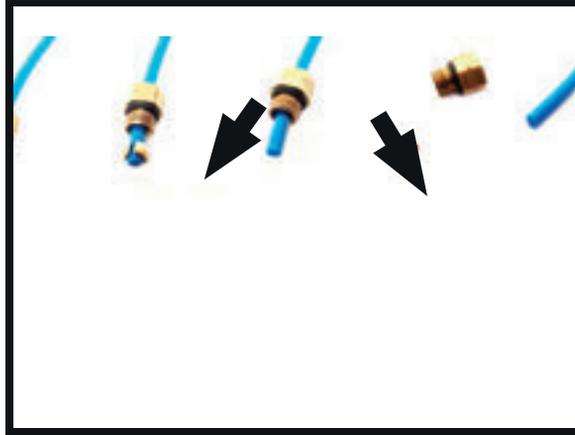


FIGURE S

7. AIR STRUT ASSEMBLY COMPLETE.

AIR STRUT INSTALLATION



Tighten all nuts and bolts to manufacturer's specifications during the installation process.

1. INSTALLATION IS IN REVERSE ORDER OF AIR STRUT REMOVAL.
2. REMOVE THE WHITE SHIPPING PIN AND INSERT AIR LINE INTO THE NEW AIR LINE FITTING. (FIGURE T)

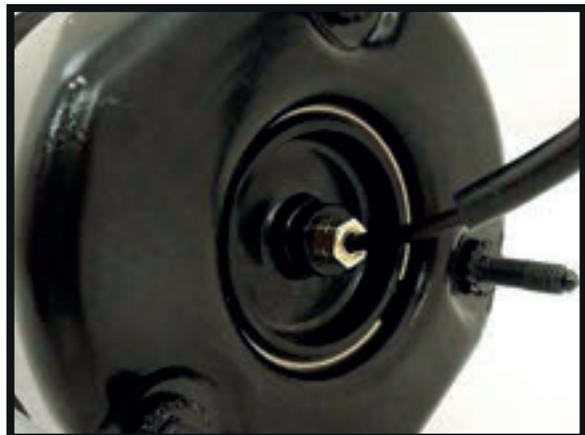


FIGURE T