

SERVICE BULLETIN		
To:	All Dealers	Reference SB-11-0300 Issued: 15 April 2010
For the attention of:	Service Manager/After Sales Manager	
Please copy to:	The Dealer Principal	
	The Warranty Administrator	
	Aston Martin Technician(s)	
	The Parts Manager	
Model:	All V8 Vantage, DBS and DB9.	
VIN Range:	V8 Vantage up to C13358, DBS up to E01351 and DB9 up to A12418.	
Subject:	Squeak from the Steering Column	Page 1 of 4

Reason for this Service Bulletin

It is possible that a squeak can be heard from the area of the steering pinion when the steering is turned. This occurs when there is not sufficient lubrication of the lip-seal on the steering rack pinion. To correct this problem, it is necessary to drain and flush the Power Assisted Steering (PAS) system, then fill it with a different specification fluid and an additive.

Workshop Procedure

Note: *You will need applicable equipment to measure the temperature of the PAS fluid during the procedure that follows.*

1. Remove the cap from the PAS fluid reservoir.
2. Use a syringe to remove the PAS fluid from the reservoir.
3. Install the cap on the PAS fluid reservoir.
4. Remove the two (V12 vehicles) or three (V8 vehicles) M6 screws that attach the PAS reservoir (refer to Figure 1 - V12 shown).

Note: *This is to get access to the return hose connection.*

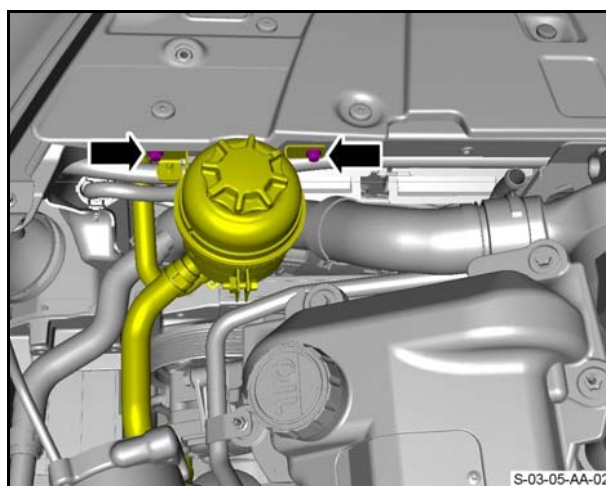


Figure 1

5. Put applicable absorbent material around the PAS fluid reservoir to absorb spilled fluid.

6. Release the hose clamp (1) that attaches the PAS return hose (2) to the PAS reservoir (3) (refer to Figure 2).
7. Disconnect the PAS return hose (2) from the PAS reservoir (3).
8. Install an applicable plug to seal the return port of the PAS reservoir (3).

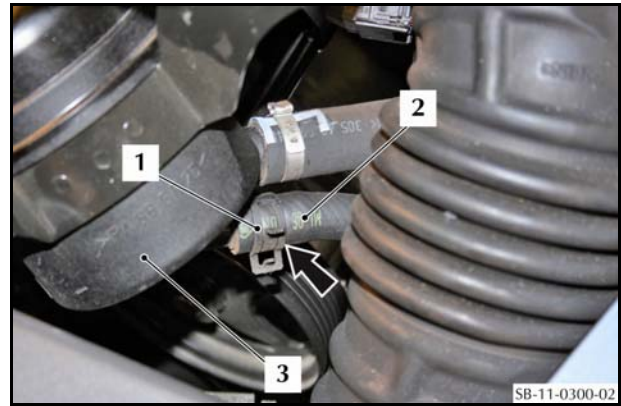


Figure 2

9. Put an applicable container under the PAS return hose (2) to collect PAS fluid.
10. Put the PAS return hose (2) into the container to drain the fluid.
11. Lift the vehicle until the wheels are off the ground and make it safe.

CAUTION: DO NOT OPERATE THE ENGINE IN THE STEPS THAT FOLLOW. IF YOU DO, COMPONENTS OF THE PAS SYSTEM CAN BE DAMAGED.

12. Turn the steering fully to the left, then fully to the right through ten cycles.
13. Let the PAS fluid drain fully.
14. Empty the unwanted PAS fluid from the container.

Note: *Obey the local approved procedures when you dispose of the unwanted PAS fluid.*

15. Turn the steering to the straight ahead position.

Flush the PAS System

Note: *You will need approximately 0.75 litres of Pentosin CHF 11S fluid to flush the system.*

16. Remove the cap from the PAS fluid reservoir.
17. Fill the PAS reservoir with Pentosin CHF 11S fluid.
18. Turn the steering fully to the left, then fully to the right through ten cycles.
19. Turn the steering to the straight ahead position.
20. Let the PAS fluid drain fully into the container.
21. Empty the unwanted PAS fluid from the container.

Note: *Obey the local approved procedures when you dispose of the unwanted PAS fluid.*

Install the PAS Reservoir

22. Remove the sealing plug from the return pipe on the PAS reservoir.
23. Connect the return hose to the PAS reservoir.
24. Install the hose clamp for the return hose.
25. Put the PAS reservoir in position.
26. Install and tighten the two or three M6 screws to attach the PAS reservoir.

27. Remove the absorbent material from around the PAS fluid reservoir.
28. Fully clean all spilled PAS fluid from around the work area.

Fill and Bleed the PAS System

29. Put 50 ml of Lubrizol additive to the PAS reservoir.
30. Fill the PAS system with Pentosin CHF 11S.
31. Use an applicable cleaner to remove all grease and oil from the surface of the cap for the PAS reservoir.
32. Apply a label to the cap to show that Pentosin CHF 11S is the correct type of fluid to use in the PAS system.
33. Put an applicable temperature probe into the PAS reservoir.

Note: *Do the steps that follow with the vehicle on a hard, flat surface outside the workshop.*

34. Start the engine.
35. Keep the vehicle at a stop with the steering in the straight forward position
36. Turn the steering wheel 90 degrees clockwise and hold it at that position.
37. Apply and hold a very slight force in a clockwise direction, against the pressure of the steering.

Note: *Do not actually turn the steering wheel.*

38. Increase the speed of the engine to 2000 RPM and keep it at that speed.
39. Monitor the temperature of the PAS fluid until it reaches 100 °C +/- 5 °C.

Note: *This will usually take approximately eight minutes.*

40. **CAUTION: DO NOT HOLD THE STEERING AT FULL LOCK FOR MORE THAN TWO SECONDS WHEN THE PAS FLUID TEMPERATURE IS AT 100 °C. IF YOU DO, DAMAGE TO THE PAS SYSTEM CAN OCCUR.**

Note: *Make sure that you keep the engine speed between 900 and 1000 RPM in the step that follows.*

Turn the steering wheel at a moderate speed to full lock for two seconds then very quickly turn it back 90 degrees.

41. Do step 40 again eight times.
42. Do steps 40 and 41 again in a counterclockwise direction.
43. Turn the steering to the straight forward position.
44. Stop the engine.
45. Remove the temperature probe from the PAS reservoir.
46. Install the cap on the PAS reservoir.
47. Do a road test of the vehicle. If the steering system continues to make a squeak sound, do steps 33 to 47 up to two times again.

Note: *If the steering system continues to make a squeak noise, speak to Aston Martin Technical Support.*

48. Remove the Owner's Guide from the glove box.

49. Find the page that shows the specification of the PAS fluid.
50. Apply a label that covers the initial fluid type in the Owner's Guide to show the new fluid type (refer to Figure 3).

Note: The page shown in Figure 3 is an example. The actual page can look different.

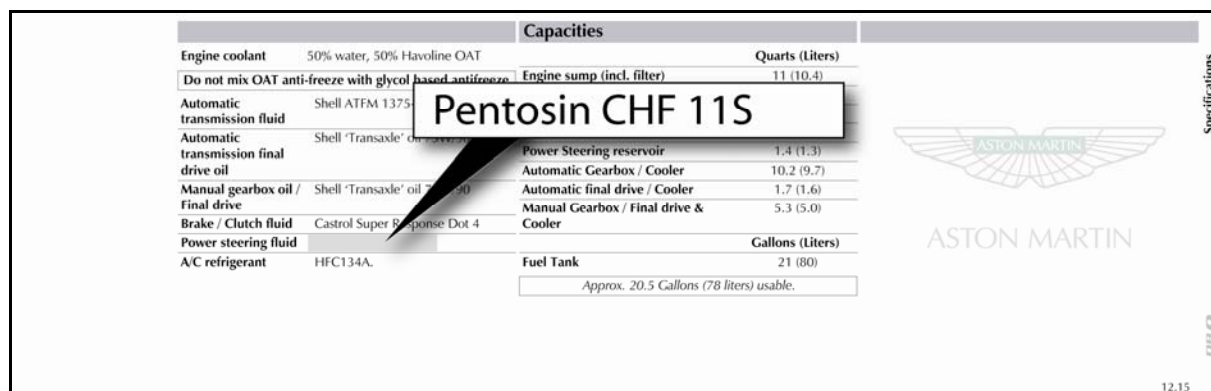


Figure 3

51. Put the Owner's Guide back into the glovebox.

Part Data

Description	Part Number	Quantity
Lubrizol	4G43-24-11082	50 ml
Pentosin CHF 11S	6G33-19H373-BA	2 Litres
PAS Reservoir Label: "Pentosin CHF 11S"	AD43-3F730-AA	1
Owner's Guide Label: "Pentosin CHF 11S"	4G43-40-11083	1

Warranty Data

Description	Time	Labour Code
Flush the PAS system and change the fluid and add an additive.	DBS: 0.75 hours DB9: 0.75 hours V8 Vantage: 0.75 hours	11.02.AM

If you have any queries related to this Service Bulletin, please contact: Aston Martin Technical Services on:
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E-mail: amtech@astonmartin.com. Or contact your After Sales Manager.

The English version of this Service Bulletin is written in
Simplified Technical English to ASD STE-100™.