

SERVICE BULLETIN

Reference number:	SB-06-1117V4	Issued: 21 February, 2020
Subject:	Brake Squeal	
Model(s):	DB11 & Vantage 19MY (with steel brake discs)	
VIN Range:	All	
Applicable to:	All Dealers	
Distribute to:	After Sales Manager Executive Manager Service Manager Sales Manager	Warranty Staff Technician(s) Parts Staff

Reason for Version 4 of this Service Bulletin

Changes to the document have a black line against them in the left margin. Please discard all copies of SB-06-1117V3 and replace them with SB-06-1117V4.

Reason for this Service Bulletin

Aston Martin has found that some vehicles with steel brake discs can have brake squeal. This is a known property of high performance brakes and can occur at low speed and in low temperatures. Please refer to the vehicle Owners Guide, Chapter 5.

Brake noise analysis

Do a road test of the vehicle. If necessary, have the customer in the vehicle with you.

If the vehicle makes the brake noise again, get another person to record a sound file. This can be done with a PicoScope NVH kit.

Note: *You must observe all local road traffic regulations when you road test the vehicle.*

A PicoScope NVH kit can be used to help technicians identify brake noise. If the noise is from the front brakes, the frequency will be between 10.8 and 10.9 kHz. If the noise is from the rear brakes, the frequency will be between 12.5 and 12.7 kHz.

A PicoScope NVH kit can also be used to measure acceleration and deceleration during the brake bed-in procedure.

Inspection

Do a visual inspection of the brake discs, pads and wheel mounting face for signs of external contamination. If there are signs of external contamination because the incorrect wheel cleaner was used, this damage will not be covered by the vehicle warranty. The brake pads must be replaced. Figure 1 gives an example of contamination on the wheel mounting face and calliper.



Figure 1

Workshop procedure

1. Remove the brake pads (refer to Workshop Manual procedure 06.03.AD or 06.04.AD).
2. Do a check of the manufacturer's part number (refer to Figure 2).



Figure 2

3. Use the manufacturer's part number to find the Aston Martin part version, in the table below (refer to Figure 3). Follow the recommendation for the part version.

	Part Number	TMD/ Brembo Part Number (shown on the pads)	Recommendation	Known Frequency
Rear Pads	HY53-2C562-AA	07.8560.84 07.8560.85	Follow steps 4-9	12.0 – 12.8kHz
	HY53-2C562-BA	XB followed by a 4-digit number	Contact AMTECH via SpotLight case with conditions where brake noise occurs and sound / frequency recording (i.e. SB-06-0410). Clean the surface and <u>DO NOT</u> apply Tunap / grease.	
	HY53-2C562-BB	07.8560.48 07.8560.49		
Front Pads	HY53-2D007-AA	07A9302000	Follow steps 4-9	10.8 - 11.0kHz
	HY53-2D007-AB	07A9302100		
	HY53-2D007-BA	XB followed by a 4-digit number	Contact AMTECH via SpotLight case with conditions where brake noise occurs and sound / frequency recording (i.e. SB-06-0410). Clean the surface and <u>DO NOT</u> apply Tunap / grease.	
	HY53-2D007-BB	07A9302200 07A9302300		

Figure 3

4. Use an abrasive paper to fully clean the braking surface of all four brake discs.
5. With the brake discs and callipers in position, clean all brake dust and contaminants with an aerosol brake cleaner.
6. Apply Tunap paste to the rear of the brake pads (refer to Service Bulletin SB-06-0344V2).
7. Do Service Bulletin: SB-06-1005 - Low-Speed Brake Modulation, if applicable.
8. Do the brake pad bedding-in procedure (refer to Workshop Manual procedure 06.03.BC).
9. If there is still a noise, start a SpotLight case for authority to send an order for parts with the -BB suffix.

Customer Education

Aston Martin recommends that After-sales personnel speak with the customer about what products they use when their vehicle is cleaned. Acidic cleaners can cause contamination of the brake pads which can cause brake noise symptoms.

If the vehicle is frequently driven in city traffic, it is necessary to put heat into the brakes at regular intervals. This can be done with gradually heavier application of the brakes at higher speeds where possible with traffic conditions and when safe to do so. This will help to build up a transfer layer of friction material on the brake discs which can reduce brake noise.

If the customer still has complaints related to brake noise, please start a SpotLight case. This must include:

- Pictures of the brake discs, pads, pad level information (refer to Figure 2), hubs and callipers.
- A video file, with audio, before steps 1-6 are done.
- A video file, with audio, after step 6 is completed.

If you have any questions related to this document, please refer to the 'Contact Us' link on this webpage, or contact your local Dealer or After Sales Manager.

The English version of this notice is written in Simplified Technical English to ASD-STE100™.