



HELPFUL INFORMATION FOR CUSTOMER DISCUSSIONS REGARDING MOTORSPORT VEHICLE BRAKES

This Service Information Bulletin (Revision #05) replaces SI B34 10 19 **dated September 2021**.

What's New (Specific text highlighted):

- Information A4
- Attachment B34 07 18 Defect Catalog

MODEL

F06 (M6 Gran Coupe)	F10 (M5 Sedan)	F12 (M6 Convertible)	F13 (M6 Coupe)
F80 (M3 Sedan)	F82 (M4 Coupe)	F83 (M4 Convertible)	F85 (X5 M Sports Activity Vehicle)
F86 (X6 M Sports Activity Coupe)	F87 (M2 Coupe)	F90 (M5 Sedan)	F91 (M8 Convertible)
F92 (M8 Coupe)	F93 (M8 Gran Coupe)	F95 (X5 M Sports Activity Vehicle)	F96 (X6 M Sports Activity Coupe)
F97 (X3 M Sports Activity Vehicle)	F98 (X4 M Sports Activity Coupe)	G80 (M3 Sedan)	G82 (M4 Coupe)
G83 (M4 Convertible)			

INFORMATION

Inform the customer during a consultation that the M Compound (standard equipment) and M Carbon Ceramic (optional) brakes are high-performance brake systems which are designed for sporty, dynamic driving styles.

- As a side effect of the highest possible brake performance, customers are likely to hear noises due to the extremely resilient materials

In the same conversation, inform the customer that his/her braking performance can help ensure that the noises do not occur or disappear quickly.

For example:

1. It is important after washing the vehicle to always dry the brakes by applying them gently a few times from 30 to 0 mph (traffic permitting).
2. In the case of extended use at low brake load, the brakes tend to make a squeaking noise, which is why braking harder a few times occasionally (= higher brake temperature) is helpful.
3. After extremely sporty driving with high brake system load, ensure that-
 - a. The brakes can cool down while still driving, if possible
 - b. The brake pedal is not kept pressed during the first vehicle standstill
 - The increased material build-up on the brake pad and then onto the brake disc after extremely sporty driving can cause a humming noise which disappears after a short time with subsequent braking.

In addition to the below examples, BMW North America has published the following customer brochure: Attachment "BMW M Brake Systems: High-Performance Stopping Power"

Each new car will soon be delivered with a copy and every BMW dealer has received at least 250 pieces for distribution. A full copy of this brochure is attached.

"Brochure should be used by Service Advisors to educate customers of M vehicles on the unique features and idiosyncrasies of the high performance Motorsport brake systems. Many of customer's



perceived “complaints”, may be explained as a normal operation with help of the BMW M Brake Brochure.”

Please communicate to the customer that if they are unsure about the brake noises, they can contact the center’s Service Department at any time.

Examples:

A. Systemic noise generation in M Compound brake.

A1.	SQUEAKING NOISE
Sound file	V340919
Explanation	This noise occurs mainly when slowing down (approx. 20 mph to standstill) when brake is warm with low brake pressure. It can be heard when driving forwards and reversing.
Resolution	No repair required.
Note for customer	Please subject the brakes to a higher load (couple consecutive hard stops) to regenerate the brake pad via higher brake disc temperature. <ul style="list-style-type: none"> • Ensure that the traffic situation allows for stronger braking.

A2.	HUMMING NOISES DUE TO PERFORATED BRAKE DISCS
Sound file	V341019
Explanation	This noise mainly occurs when braking from higher speeds (e.g., 125 mph to 60 mph) with increasingly hotter brakes. It is initially felt as vibrations in the steering wheel, increasing to an overall droning noise inside the vehicle.
Resolution	No repair required, as it is normal.
Note for customer	The inherent design of ventilated and perforated brake discs result in noise creation from the air passages. This does not entail any functional limitations or safety risk.

A3.	SCRAPING NOISE
Sound file	
Explanation	Caused by corrosion formation as a result of a vehicle that is stationary and has not been in use, or from salt corrosion.
Resolution	
Note for customer	If corrosion is visible on the brake discs, the corrosion particle build-up and transfer onto the brake pads should wear off with normal braking. If the corrosion cannot be worn off, a repair is recommended. This situation is caused by extended storage times and is NOT considered a defect in material, or workmanship.

A4.	HUMMING NOISE
Sound file	
Explanation	Mainly occurs after excessive load (e.g. after driving on a race track). It is initially felt as vibrations in the steering wheel, increasing to an overall droning noise inside the vehicle. Any subsequent occurrence is temperature dependent. It is

caused by a brake pad build-up on the brake disc. Also refer to the fault pattern catalog- vibrations during braking (TRI B34 07 18).

Resolution	
Note for customer	The brake pad build-up must be worn down over time, if it doesn't disappear, a repair is required. This situation is not caused by a defect in material, or workmanship; but rather by overloading associated with racing.

B. Systemic noise generation in M Carbon Ceramic brake.

B1.	HONKING (mainly M CARBON CERAMIC, occasionally M COMPOUND)
Sound file	V341119
Explanation	The noise occurs shortly before standstill in wet weather (especially after using a car wash) when the brake is cold.
Resolution	No further repairs required.
Note for customer	Dry the brake system by applying the brake (especially after a car wash).

C. Caused by brake system in general.

C1.	BREAKAWAY GROANING NOISE (M Compound brake & M Ceramic brake)
Sound file	V341219
Explanation	Occurs at low speeds approaching 0 mph with minimal brake pressure. "Breakaway" refers to the sticking/slipping effect of the brake pad and disc which is heard as a groaning noise.
Resolution	No repairs required.
Note for customer	Noise does not compromise brake system operation.

C2.	SQUEAKING NOISE DURING BEDDING-IN PHASE (M Compound brake + M Ceramic brake)
Sound file	
Explanation	It takes the M Compound approx. 310 miles, the M Ceramic approx. 625 miles until the running-in is completed and the full braking effect of the brake system is reached. <ul style="list-style-type: none">• During this phase, drive with caution as otherwise the brake can make squeaking noises. Those will disappear after a certain operating period.
Resolution	No repair necessary.
Note for customer	Brake regenerates itself automatically.

C3.	BRAKE DUST (M Compound brake & M Ceramic brake)
Sound file	
Explanation	If a customer mentions increased brake dust, explain the implications of a high-performance brake system. <ul style="list-style-type: none">• M vehicles are high performance vehicles which are designed for sporty dynamic driving styles and embody racing heritage• The specially designed brakes give the vehicle the required, high braking performance which generates more brake dust due to the increased friction• The presence of brake dust indicates that the M vehicle is being driven in the appropriate manner• If the brake dust is removed regularly, it will not burn into the wheel rim paint
Resolution	
Note for customer	Remove visible brake dust on the wheel rim using conservative methods such as a vehicle wash, or by hand washing with a sponge. Avoid high-pressure water streams. Refer to the vehicle owner's manual (printed version, or electronic via the CID).

Supporting Materials

[picture_as_pdf B34 07 18 Defect Catalog.pdf](#)

[picture as pdf B34 10 19MBrakeBrochure.pdf](#)

Videos

[34 10 19](#)

[34 09 19](#)

[34 11 19](#)

[34 12 19](#)