



This Service Information bulletin supersedes SI B33 01 02 **dated March 2008.**

NEW designates changes to this revision

SUBJECT

Grinding Noise from the Differential during Slow Cornering

MODEL

E46 M3 from start of production

E60 M5 from start of production

E63, E64 M6 from start of production

E90, E92 and E93 M3 from start of production

NEW E85, E86 with S54 from start of production

SITUATION

A grinding noise may be heard coming from the differential during slow cornering.

This noise is best heard during tight cornering situations; for example, while parallel parking, driving in a tight circle, etc.

CAUSE

When the rear wheel speed differential varies during tight cornering, a slip stick effect is created on the lining and steel discs incorporated in the differential locking clutch, causing the grinding noise.

This noise typically goes away as the locking clutch discs in the differential are broken in.

The break-in time varies depending on driving habits; for example, tighter cornering (working the locking clutch) means that it takes less time to break in the locking clutch discs.

CORRECTION

If a customer complaint is verified as described above on the E46 M3; E60 M5; E63 and E64 M6; or on the E90, E92 and E93 M3 vehicles, the differential oil should be replaced with a specially formulated differential oil, BMW part number 83 22 2 282 583.

PROCEDURE

1. Drain the differential oil. Refer to the appropriate model repair instruction in TIS:

Main Group 33 / Subgroup 10 / RA 0011259.

2. Refill the differential with special differential oil as shown in the illustration below.

Differential fill capacity = 1.2 liters (1.3 quarts).

