



# Technical Service Bulletin

## 40 Chattering/skipping sensation in front axle on tight turns

40 22 35 2017148/12 March 16, 2022. Supersedes Technical Service Bulletin Group 40 number 20-08 dated June 26, 2020, for reasons listed below.

Model(s)	Year	VIN Range	Vehicle-Specific Equipment
R8	2008 – 2012 2014 – 2015 2017 – 2018 2020 – 2023	All	Not Applicable
R8 Spyder	2011 – 2012 2014 – 2015 2017 – 2018 2020 – 2023		

## Condition

REVISION HISTORY		
Revision	Date	Purpose
12	-	Revised header (Added model year)
11	06/26/2020	Revised header (Added model year)
10	07/11/2017	Revised header (Added model code)

### Customer states:

A chattering/skipping sensation is felt in the front axle during tight, slow-speed turns (such as parking maneuvers) could occur under the following conditions:

- Tires are cold or ambient temperatures are low.
- Road surface is wet/dirty.
- The vehicle has been parked for an extended period of time.

## Technical Background



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The R8 has the steering dynamic of a sports car. The inner and outer wheels are turned at approximately the same steering angle to ensure even power distribution through the front self-locking differential during high speed cornering. This steering dynamic minimizes understeer and ensures vehicle stability in high-speed turns.

Under normal conditions, when the vehicle is maneuvered through tight turns at slow speeds (such as while parking), the steering angle difference between the inner and outer wheel is not noticeable because the side wall flex of the tire is sufficient to compensate. Contact with the road surface is maintained.

However, under certain conditions (such as cold weather, wet/dirty pavement, or a long parking period), a front tire can scrub. The customer may report a shudder or a skipping sensation felt in the steering/front suspension of the vehicle during slow-speed parking maneuvers.

This is normal performance for the sports car steering dynamic in the R8, and no repairs are required.

## Production Solution

Not applicable.

## Service

Explain the background to the customer.

## Warranty

This TSB is informational only and not applicable to any Audi Warranty.

## Additional Information

All parts and service references provided in this TSB (2017148) are subject to change and/or removal. Always check with your Parts Department and/or ETKA for the latest information and parts bulletins. Please check the Repair Manual for fasteners, bolts, nuts, and screws that require replacement during the repair.

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