



Date: 15.05.2019

Model: All Toyota Powertrain Elise

Number: 2019/06
USA

Copy files should be maintained by:

Service Manager		Service Reception		Supervisor		Parts Manager	
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The contents of this bulletin are in addition to the information contained in Technical Service Bulletin TSB 2018/23 issued on 13.11.2018

TITLE:

Compatibility of Yokohama AD07 and V105 tire product ranges for the Elise model range.

REASON:

Because of the reasons listed in Technical Service Bulletin TSB 2018/23 the Yokohama AD07 Advan Neova product range is no longer manufactured. Therefore, Lotus phased in the fitment of the Yokohama V105 specification tire as a production running change in September 2018 for the Toyota Powertrain Elise model range.

ACTION:

- If you receive any enquiries concerning tire fitment or specifications for the Elise model range, then first confirm the vehicles model year and VIN to ensure you provide the correct information relevant to the Yokohama specification tires fitted at the time of production.
- Where possible replace existing Yokohama AD07 product tires with the latest equivalent Yokohama AD07 service replacements, (please note that because of current legislation, AD07 product tires cannot be sold for highway use after April 2021).
- If Yokohama AD07 product range tires are no longer practicably available, Lotus recommends that the correct size and manufacturers coded Yokohama V105 specification tires* should be fitted as a vehicle set to both front and rear axles.

IMPORTANT: AD07 and V105 product tires **MUST NOT** be fitted on the same axle. This is especially important for the front axle as the size is increased from 175-55 R16 80W for the AD07 tire to 195-50 R16 84W for the V105 tire.

*Refer to Technical Service Bulletin TSB 2018/23 or service notes sections GH.3 or TDQ for further information.

If replacement of the V105 tire as a complete vehicle set is not agreed with the vehicle owner, then they should be made aware of the following result scenarios (A, B & C) that were noted by Lotus Cars when compatibility testing was carried out.

A - AD07 product tires replaced by V105 product tires as a complete vehicle set

- Handling comparable to vehicles originally fitted with Yokohama AD07 product tires
- No abnormal Lotus DPM/ESP* behavior was observed in this configuration

B - AD07 LTS2 product tires fitted to the front axle and V105 product tires fitted on the rear axle

- Rear axle felt less supported relative to the front axle
- Handling balance is the most towards oversteer compared to configurations A or C.
- Vehicle is not inherently unstable, but with Lotus DPM/ESP* in normal mode a significant amount of early interventions was observed

Continued..

LOTUS CARS LIMITED

Potash Lane Hethel Norwich Norfolk NR14 8EZ England T +44 (0) 1953 608 000 F +44 (0) 1953 608 514 www.group Lotus.com
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C - V105 product tires fitted to the front axle and AD07 LTS2 product tires fitted on the rear axle

- Diminished turn-in, especially at higher speeds
- Handling balance less towards oversteer, needs more provocation to go into oversteer
- No abnormal Lotus DPM/ESP* behaviour was observed

*Only applicable to 2011 model year vehicles onwards fitted with a T6 ECU.

CHARGES:

No warranty charges are associated with the contents of this bulletin.

Ends.

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