

Blue Print Top Tip

Toyota Avensis - Dual Mass Flywheel (DMF) Information

Applicable References: ADT33512C, ADT330206

Applications: Toyota Avensis 2.0DT 1999>2003

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Symptom

It has been identified that certain Toyota models are prone to developing an abnormal 'rattle' noise that is most audible under the following conditions.

1. Engine Idling
2. During clutch engagement when pulling away approx 1,000rpm
3. When shifting from 1st to 2nd gear

The problem is most commonly reported on vehicles that are subject to mainly city/town driving conditions (i.e. a lot of 'stop and go'), especially those used as taxis or towing.

Cause

Certain Toyota Avensis models are fitted with a two piece Dual Mass flywheel that contains a cushion rubber which, during extended periods of engine idling, results in excessive heat and stress on the dual mass flywheel. Under these circumstances the cushion rubber can become detached on the acceleration side and hardened/cracked at the deceleration side, which then results in noise and possible failure of the dual mass flywheel. This may contribute to premature clutch failure.

Solution

ADL recommends the following:

If the vehicle has a dual mass flywheel that has failed, this should be replaced with a Blue Print dual mass flywheel (Part number **ADT33512C**) which matches the modified design currently supplied by Toyota Europe.

Alternatively, if the vehicle is being used as a taxi or spends a lot of time travelling short journeys, Blue Print's modified clutch kit **ADT330206** (which includes a single mass flywheel and all the fittings) should be installed. This is because excessive stress and vibration is placed on the dual mass flywheel during prolonged periods of engine idle which can drastically reduce its service life.

Please note – If a single mass flywheel is fitted then there may be a slight increase in the levels of vibration at idle compared to the dual mass type.

Please refer to the Blue Print catalogue to ensure you supply the correct parts for the application.



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