



TOYOTA

Technical Service Bulletin

Subject:

Cylinderhead gasket failure under severe driving conditions

Models:

PRIUS; PRIUS +

Model codes:

ZVW30; ZVW40

Engine

EG-0127T-1014

INTRODUCTION

This Technical Service Bulletin is to inform you of the production revision and repair method for the subject phenomenon. Applicable to vehicles that perform higher mileage driving under severe driving conditions, produced before the production change information shown below.

DESCRIPTION OF PHENOMENON

Some customers may experience and report one or more of the below phenomena:

- Engine coolant consumption
- White smoke from the exhaust caused by coolant consumption
- Rough engine running / misfire caused by coolant consumption

In some unique severe driving conditions, the engine coolant temperature can rise above a specific value, in certain areas of the engine block.

If this specific temperature rise occurs frequently (severe driving), in combination with higher vehicle mileage (vehicle mileage above 200.000km), there is a risk the cylinder head gasket may fail.

Classification of severe driving/usage conditions:

- Long period of engine idle time e.g. taxi use, city parcel delivery, traffic jam, etc
- High percentage of "stop / take-off" (go) operation e.g. traffic jam, city / door-to-door driving, etc
- High percentage of high speed / high load operation
- Use of low quality engine coolant
- Vehicle used for towing

PRODUCTION CHANGE

The engine electrical water pump logic is upgraded to avoid this symptom from occurring.

PRODUCTION CHANGE INFORMATION

Model	Model code	Implementation date
Prius	ZVW30	October 2014
Prius +	ZVW40	

PARTS INFORMATION

QUALITY
SERVICE



TOYOTA MOTOR EUROPE NV/SA

Model code	Previous part number	Current part number	Part name	Quantity
ALL	89685-20010	Same	ECU label	1

REPAIR PROCEDURE

A software upgrade file is available for vehicles driving under these specific driving conditions.

- Reprogram the “Computer, Engine Control” to the latest available calibration ID (minimum to the new CID as shown in below table).
- Re-label the ECU with the new calibration ID

Model code	Old calibration ID	Minimum calibration ID
ZVW30	34717000 34717100 34717200 34717300 34717400	34717500
	34730000 34730100 34730200	34730300
	34736000 34736100 34749000	34749100
ZVW40	34743000 34743100	34743200