



Engine Oil Leak on 2005-2007 Toyota 2.7L, 2TRFE Engines

The AERA Technical Committee offers the following information regarding a front engine oil leak on 2005-2007 Toyota 2.7L 2TRFE engines. Vehicle owners have complained of an excessive amount of engine oil leaking from the front crankshaft seal on the above mentioned engine.

To help resolve this condition a new crankshaft pulley, oil seal, and special installation tool have been created to address this condition. Follow the procedure below to replace the crankshaft oil seal and pulley after obtaining the affected parts and special tools.

Previous Part #	Current Part #	Part Identification	Quantity
90311-448020	90311-48029	Oil Seal, Type T	1
13408-75040	13408-75050	Crankshaft Pulley, sub-assembly	1
90105-16041	90105-16041	Crankshaft Pulley Bolt (No Change)	1
	09223-75010-01	Front Crankshaft Install Tool	1
	09213-54015-01	Crankshaft Pulley Holding Tool	1
	09330-00021	Companion Flange Holding Tool	1

Repair Procedure

- Remove the accessory belt.
- Remove the crankshaft pulley bolt and pulley
- Remove the front oil seal.
- Install the new timing cover oil seal with approved tooling.
 -) Apply MP grease to the lip of the NEW oil seal.
 -) Place the oil seal into the correct location in the seal recess of the timing chain cover.
 -) Install the special tool Part #09223-75010-01 into the crankshaft and lightly tighten until the seal is fully seated in the timing chain cover. Do NOT over tighten.
- Remove the crankshaft bolt and special tool
- Install the new crankshaft pulley by aligning the set key of the crankshaft with the key groove of the pulley, and slide on the pulley and temporarily install a new pulley bolt.
- Using the special tools Part #09213-54015-01 & 09330-00021, hold the crankshaft pulley, and tighten the crankshaft pulley bolt to 192 FT/LBS.

