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*Page 8/25*



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(2AR-FE) (2009) >  
Toyota Workshop  
Manuals > Engine,  
Cooling and Exhaust >  
Engine > Timing  
Components >  
Camshaft  
Gear/Sprocket >  
Component  
Information >  
Technical Service  
Bulletins > All  
Technical Service  
Bulletins for Camshaft  
Gear/Sprocket: >  
SB0012-11 > Feb > 11  
> Engine - Rattling

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Noises/MIL ON/DTC's  
P0015/P0017 > Page  
2124

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(2AR-FE) (2009) >  
Toyota Workshop  
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Cooling and Exhaust >  
Engine > Timing  
Components >  
Camshaft  
Gear/Sprocket >

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Component  
Information >  
Technical Service  
Bulletins > All  
Technical Service  
Bulletins for Camshaft  
Gear/Sprocket: >  
SB0012-11 > Feb > 11  
> Engine - Rattling  
Noises/MIL ON/DTC's  
P0015/P0017 > Page  
2129

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Manuals > RAV4  
2WD L4-2.5L (2AR-  
FE) (2009 ...**  
*Page 11/25*

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## 2AR-FE ENGINE 1.

General The 2AR-FE engine is an in-line, 4-cylinder, 2.5-liter, 16-valve DOHC engine. This engine uses the Dual VVT-i (Variable Valve Timing-intelligent) system, DIS (Direct Ignition System), ACIS (Acoustic Control Induction System) and ETCS-i (Electronic Throttle Control System-intelligent). It has been developed to

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## **2AR-FE ENGINE 1. General - Toyota RAV4 Forums**

2AR-FE Engine Problems and Reliability. The engine turned very good. We didn't find any noticeable problems or defects. The engine is featured by a knocking sound from the VVTi system when it is cold, but this doesn't affect reliability and longevity.

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## **Toyota 2AR- FE/FSE/FXE, Problems, Reliability, Oil, Specs**

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## **2AZ engine timing mark**

Align the gold or yellow colored links with the timing marks of the camshaft timing gear and camshaft timing sprocket. Install the chain. Fig. Align the marks of the sprockets and bearing caps to set the No. 1 cylinder at TDC-2.4L (2AZ-FE) engine. Fig. Set the crankshaft set key facing upward-2.4L (2AZ-FE) engine

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## **2 ar fe balancer shaft timing for 2010 camry - Fixya**

Per Toyota T-  
sb-0041-13 --

immediately following  
a cold startup, some  
2009-2013 model year  
vehicles equipped with  
the 1ar-fe and 2ar-fe  
engines may exhibit a  
brief knock/rattle noise  
from the ...

## **40 Complaints: 2010 Toyota Camry**

*Page 16/25*



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## **Engine Problems**

The AR engine family is an Inline-4 piston engine series by Toyota, first introduced in 2008 for the RAV4, and subsequently for the Highlander, Venza, Camry and Scion tC.. The AR series uses a die-cast aluminium engine block and aluminium DOHC cylinder head. The engine series shares many of the technologies in the AZ

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engine, while incorporating new features such as variable valve timing on ...

## **Toyota AR engine - Wikipedia**

Align the gold or yellow colored links with the timing marks of the camshaft timing gear and camshaft timing sprocket. Install the chain. Fig. Align the marks of the sprockets and bearing caps to set

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the No. 1 cylinder at TDC-2.4L (2AZ-FE) engine. Fig. Set the crankshaft set key facing upward-2.4L (2AZ-FE) engine

## **Timing balance shafts on 2ar fe toyota - Fixya**

Some 2010 - 2011 model year Federal Emissions Specification Camry vehicles and 2009 - 2011 model year RAV4 vehicles equipped with the 2AR-

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FE engine may exhibit one or more of the following conditions:

- MIL "ON" with DTC P0015 and/or P0017 setting
- P0015 — Camshaft position "B" - Timing over-retarded (Bank 1)
- P0017 — Crankshaft position - Camshaft position correlation (Bank 1 Sensor B)
- Rattle noise from the engine

Follow the repair procedure in this bulletin to address this

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## **MIL ON and/or Rattle Noise from Engine (2AR)**

Toyota 2AR engine reliability, problems and repair. 2AR-FE engine has been put into production in 2008. It has replaced the 2.4-liter 2AZ-FE. The 2AR cylinder block has straight-4 configuration, it is made of aluminum. Inside, there are thin

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cast-iron sleeves. The crankshaft has 8 counterweights; it is mounted with 10 mm shift to the intake side.

## **Toyota 2AR Engine | Turbo, specs, oil capacity, problems**

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SB-0041-13 March 15, 2013 Page 6 of 16 Brief Engine Knock/Rattle Noise at Cold Startup (1AR/2AR) Repair Procedure (Continued)  
F. Rotate the

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crankshaft  
counterclockwise by  
10° and loosen the  
tension of the chain. G.  
Remove the timing  
chain cover plate. H.  
Align the holes of the  
stopper plate and

## **T-SB-0041-13 March 15, 2013 Brief Engine Knock/Rattle**

...

Diagnosing upper  
engine noises in  
today's engines with  
variable cam timing

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can be difficult. The 2004-05 Ford 4.6 and 5.4L three-valve V8s are among them. Early on, this engine family had problems with VCT phaser and lifter noises. The VCT phasers make the most noise when the engine is hot, below 1200 rpm. Some light noise is considered normal.



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