3 Piece Piston Ring Set - Installation Instructions

USA

Service Category

Engine/Hybrid System

Section

Lubrication

2AZ-FE and 2AZ-FXE Equipped Models

# APPLICABLE VEHICLES

2007-2009	Camry	2006-2008	RAV4	
2009-2013	Matrix	2007-2008	Solara	
2009-2011	Corolla	2007-2011	Camry HV	

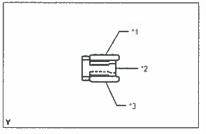
#### CONDITION

- There has been some concern with 3 Piece Piston Ring installations for 2AZ-FE and 2AZ-FXE engines.
- This Tech Tip contains the accepted installation method required for Toyota vehicles.

### RECOMMENDATIONS

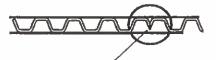
Install Piston Ring Set

1.) Install the oil ring expander and 2 oil ring side rails by hand.



*1	Upper Oil Ring Side Rail	
*2	Oil Ring Expander	
*3	Lower Oil Ring Side Rail	

NOTE: When installing oil expander ring, do NOT overlap the ends.

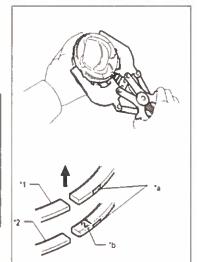


Ends cannot overlap and must point to bottom of piston.

2.) Using a piston ring expander, install the No. 1 compression ring and No. 2 compression ring with the code mark positioned as shown in the illustration.

*1	No. 1 Compression Ring	
*2	No. 2 Compression Ring	
*a	Paint Mark	
*Ь	Code Mark (2T)	
-	Upward	

NOTE: Install the No. 2 compression ring with the code mark facing upward.



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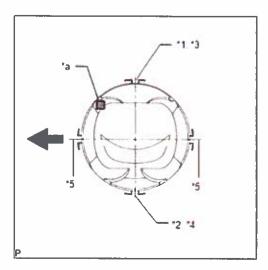
Subject

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USA

## RECOMMENDATIONS

3.) Position the piston rings so that the ends are as shown in the illustration.



*1	No. 1 Compression Ring	
*2	No. 2 Compression Ring	
*3	Upper Oil Ring Side Rail	
*4	Lower Oil Ring Side Rail	
*5	Oil Ring Expander	
*a	Front Mark	
-	Front Side	

HINT: The oil ring expander can be installed with the ring ends in either of the directions shown in the illustration.

# LINK REFERENCES

This Tech Tip does not contain any link references

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