



# TOYOTA

## Service Bulletin

Section : Engine

Ref. No. : EG-5010

Date : May.,2005

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Area Application : Europe

Model Name : YARIS, TOYOTA RAV4, AVENSIS VERSO, PICNIC, PREVIA,  
TARAGO

Model Code : ALL

### **Subject : Handling of DTC "P0420/P0430" Case by Models**

This service bulletin is to inform you on how to handle "DTC P0420 / P0430" cases for Yaris, Previa / Tarago, RAV4, Avensis Verso / Picnic.

#### **DESCRIPTION OF PHENOMENON**

- Engine MIL ON.
- Code P0420 or P0430 in the engine ECU.
- No influence on driveability or engine performance.

#### **PRODUCTION IMPROVEMENT**

**Yaris:**

**Modified Engine ECU software**

**RAV4:**

**Modified Engine ECU software and modified catalyst coating**

**Avensis Verso:**

**Modified Engine ECU software and modified catalyst coating**

**Previa:**

**Modified Engine ECU software and modified catalyst coating**

#### **Part No. Information :**

*	Prev. Part No	New Part No.	Part Name	Model (Model Code)	Qty
(I)	89661-0D014	89661-0D015	Engine Control Computer	Yaris (SCP10)	1
(I)	89661-0D024	89661-0D025			1
(I)	89661-0D210	89661-0D211			1
(I)	89661-0D220	89661-0D221			1
(I)	89661-0D070	89661-0D071		Yaris (SCP12)	1
(I)	89661-0D080	89661-0D081			1
(I)	89661-0D090	89661-0D091			1
(I)	25051-28040	25051-28041		Exhaust Manifold Converter Sub-assembly	RAV4 (ACA20 / ACA21)
(I)	-	09991-60504	CD-ROM for reprogramming		1
(I)	89661-44261	89661-44262	Engine Control Computer	Avensis Verso (ACM20)	1
(I)	89661-44271	89661-44272			1
	25051-28040	25051-28041	Exhaust Manifold Converter Sub-assembly		

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*	Prev. Part No	New Part No.	Part Name	Model (Model Code)	Qty
(I)	25051-28010	25051-28011	Exhaust Manifold Converter Sub-assembly	Previa (ACR30)	1
-	-	09991-60504	CD-ROM for reprogramming		1

\* : INTERCHANGABILITY CODE

I	Prev. Part	New Part	(I)	PP	NP	NI	PP	NP	(NI)	PP	NP	S	Interchangeable as a set
	↓	↓		↓	↓		↓	↓		↓	↓		
	Prev. Vehicle	New Vehicle		PV	NV		PV	NV		PV	NV		

## Production Effective :

Frame No.	Production Date
SCP10-A327037	June, 2004
SCP12-A135318	September, 2004
ACA20-0040480	September, 2002
ACA21-0196299	
ACA21-6074222	
ACM20-5009839	December, 2002
ACR30-0226099	April, 2003

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## FIELD FIX PROCEDURE

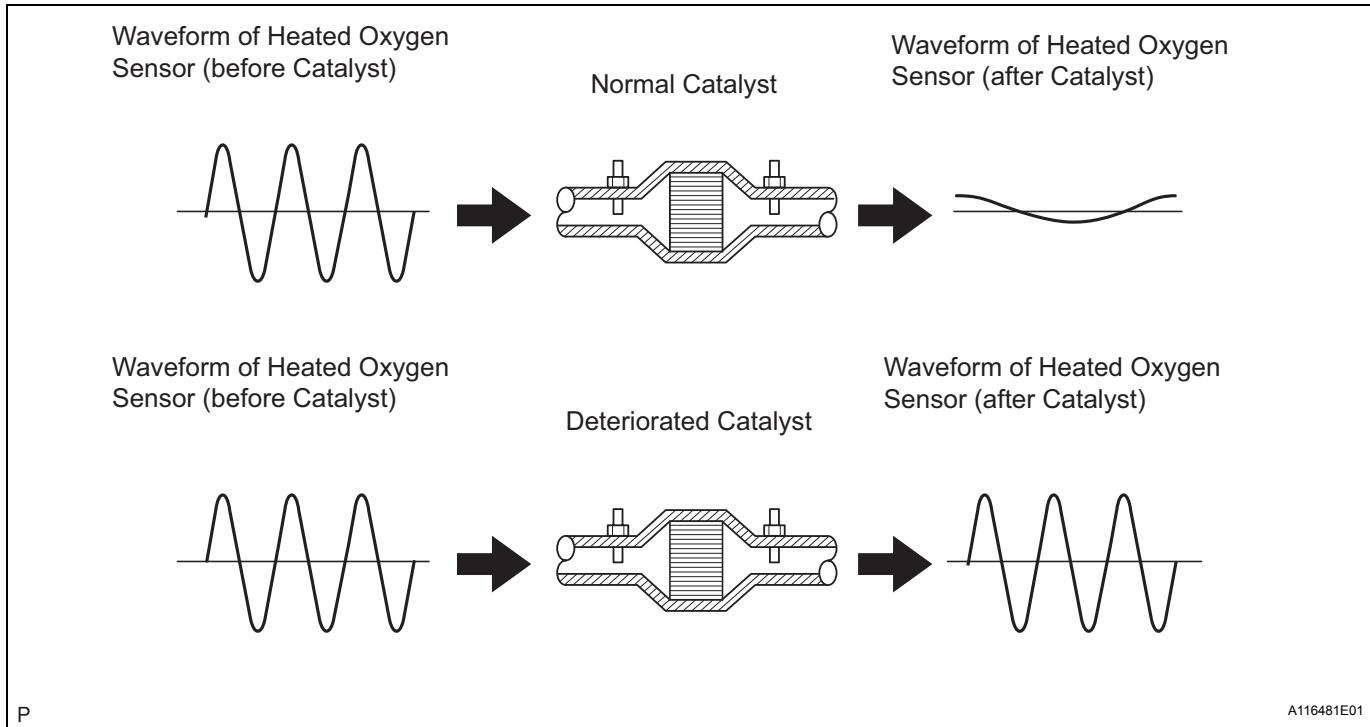
Depending on the model (model code), perform the field fix procedure(s) shown:

Model (Model Code)	Frame Number	Production Date	Field Fix
Yaris (SCP10)	All frame numbers up to SCP10-A327037	From earliest production date to June, 2004	2, 4
Yaris (SCP12)	All frame numbers up to SCP12-A135318	From earliest production date to Sept, 2004	2, 4
RAV4 (ACA20)	All frame numbers up to ACA20-0040480	From earliest production date to Sept, 2002	1, 3
	ACA20-0040480 to ACM20-5009839	Sept, 2002 to Aug, 2003	1
RAV4 (ACA21)	All frame numbers up to ACA21-0196299	From earliest production date to Sept, 2002	1, 3
	ACA21-0196299 to ACA21-0263347	Sept, 2002 to Aug, 2003	1
	All frame numbers up to ACA21-6074222	From earliest production date to Sept, 2002	1, 3
	ACA21-6074222 to ACA21-6098308	Sept, 2002 to Aug, 2003	1
Avensis Verso (ACM20)	All frame numbers up to ACM20-5009839	From earliest production date to Dec, 2002	1, 4
	ACM20-5009839 to ACM20-5017264	Dec, 2002 to Oct, 2003	1
Previa (ACR30)	All frame numbers up to ACR30-0149677	From earliest production date to Jan, 2002	1, 3
	ACR30-0149677 to ACR30-0226099	Jan, 2002 to Apr, 2003	1

1. Replace the exhaust manifold converter sub-assembly according to the Part No. Information table

## 2. Inspect Catalytic Converter efficiency by measuring O<sub>2</sub> sensor signals, and replace converter if necessary

(a) Refer to the oxygen sensor output signal waveforms below.



### HINT:

- In case of normal operating catalyst, the output signal of the rear heated oxygen sensor shows very slow activity.
- If the catalyst has deteriorated, the output signal of the rear heated oxygen sensors becomes very similar to that of front heated oxygen sensor.
- If, based on the sensor signals, you judge catalyst is not working properly, replace catalyst and not the O<sub>2</sub> sensors.

## 3. Upgrade ECU software

- PREVIA ECU upgrade is available only on CD-ROM.
- RAV4 ECU upgrade is available on CD-ROM or with upgrade files available from your distributor.

### HINT:

Detailed procedures for reprogramming ECU's for this issue are available in TSB: EG-2003 (Previa) and EG-2004 (RAV4)

### NOTICE:

- If your diagnosis program card is version 10.0 or later → use CUW 5.0 Version
- If your diagnosis program card is version 9.0 or 9.1 → use CUW 4.1 Version

## 4. Replace Engine ECU