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REFERENCE:  
CLTH 1/2011/6

## TECHNICAL

A confidential publication to authorised TOYOTA dealers. Issued by:  
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**MODEL : HILUX / FORTUNER (1KD & 2KD High Version Diesel Engines)**  
**SUBJECT : CLUTCH SHUDDER**

### Background:

This bulletin serves to advise you of the countremeasure and breakpoint details with regards to clutch shudder on 1KD & 2KD high version diesel Hilux and Fortuner models equipped with Aisin made clutch components. Above mentioned models were built after 1 October 2009.

**Note: This bulletin overrides the previous repair methods as described in bulletins CLTH9/2010/1, CLTH8/2010/15 and CLTH2/2010/16.**

**LUK components may no longer be fitted to affected vehicles built after 1 October 2009.**

### Investigation Result:

Investigation revealed that poor friction properties of the clutch disc material caused slippage between the flywheel and clutch cover. The slippage caused hot spots to occur on the flywheel and the clutch cover resulting in the shudder during pull-off.

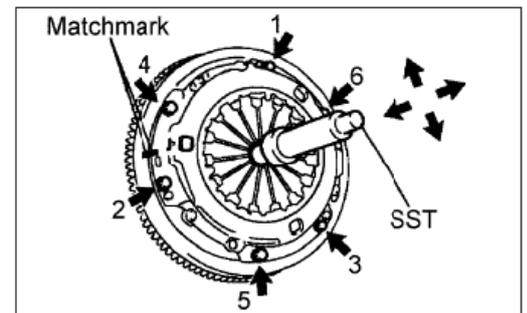
### Countermeasure:

TMC has introduced a new level clutch disc (part number: 31250-0k221) with an improved surface lining. The new level clutch disc reduces the slipping action during clutch engagement.

### Field Fix:

On affected vehicles, order the parts in the table below.

Hilux & Fortuner (1KD & 2KD Hi Version)	
Description	Part Number
Clutch Cover	31210-0K190
<b>Clutch Disc (New Level)</b>	<b>31250-0K221</b>
Flywheel	13405-30031



**Fitment Procedure:**

- Please clean the friction surfaces of the clutch cover and flywheel properly.
- Tighten the clutch cover bolts a little at a time in the correct sequence as per the picture above, starting at a dowel and finally torque the bolts to 24Nm.
- Use a transmission jack to refit the transmission to the vehicle.
- Please ensure that the clutch pedal is properly adjusted after replacement of the components.

**Breakpoint Details:****Date:** 2010/10/30**VIN:** AHTFR29G507025983**Warranty Claim Procedure:**

MODEL:	IMV HILUX AND FORTUNER	AISAN CLUTCH SHUDDER
TC CODE:	1A	
OFPN:	31250-0K220	DISC ASSY, CLUTCH.
MAIN OPE CODE:	311011	CLUTCH COVER SUBASSEMBLY
COMPONENT CODE:	EA099	OTHERS
T1 CODE:	9B	SHUDDER EXCESSIVE VIBRATION OR PULSATION
T2 CODE:	50	FAULTY MACHINING, POOR FORMING
COMPLAINT:	CLUTCH SHUDDER	
CAUSE:	HOT SPOTS ON COVER AND FLYWHEEL	
REMEDY:	R AND R CLUTCH COVER, DISC & FLYWHEEL	
LABOUR OPE CODE:	311011	CLUTCH COVER SUBASSEMBLY
	311011Z	
LABOUR COMMENTS:	ADD: R AND R FLYWHEEL	