 HYUNDAI NEW THINKING. NEW POSSIBILITIES. Technical Service Bulletin	GROUP AUTOMATIC TRANSMISSION	NUMBER 14-AT-015
	DATE NOVEMBER 2014	MODEL 2013~ Santa Fe (NC) AWD
SUBJECT:	AUTOMATIC TRANSAXLE NOISE FROM TRANSMISSION AT SLOW SPEEDS	

Description: Some Santa Fe (NC) AWD vehicles may experience a buzzing or scraping noise from the area of the transmission when accelerating at slow speeds. The noise may be caused by the crank position sensor wheel and the starter ring gear flexing/vibrating during acceleration or slow speed driving.

This bulletin provides the procedure to inspect and if necessary replace the crank position sensor wheel and plate.

- The noise sounds like brake noise or scraping noise and is difficult to pinpoint the location.
- The noise is loudest when driving next to a wall or a fence.
- The noise occurs when driving straight or turning left or right from 0~30 mph.
- The noise occurs during slow acceleration only, not coasting.
- The noise occurs with AWD engaged or not engaged.
- Not possible to duplicate the noise on a hoist.

NOTICE

Do not replace the transmission or transfer case for this condition. Instead, follow the Service Procedure below to diagnose the noise.

No drivability symptoms are associated with this condition.

Applicable Vehicles	2013 ~ Santa Fe (NC) with AWD
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Parts Information:

Model	Part	PNC Code	Part Number
2013~ Santa Fe (NC)	Crankshaft position sensor wheel and plate assembly	23200D	23200-3C142

Warranty Information:

Model	Op Code	Operation	Op Time	Causal Part
2013~Santa Fe (NC)	23211R00	Drive Plate	4.5	23200-3C142

Service Procedure:

1. Connect Chassis Ear (J-39570) or equivalent diagnostic tool to the bellhousing area of the transmission.



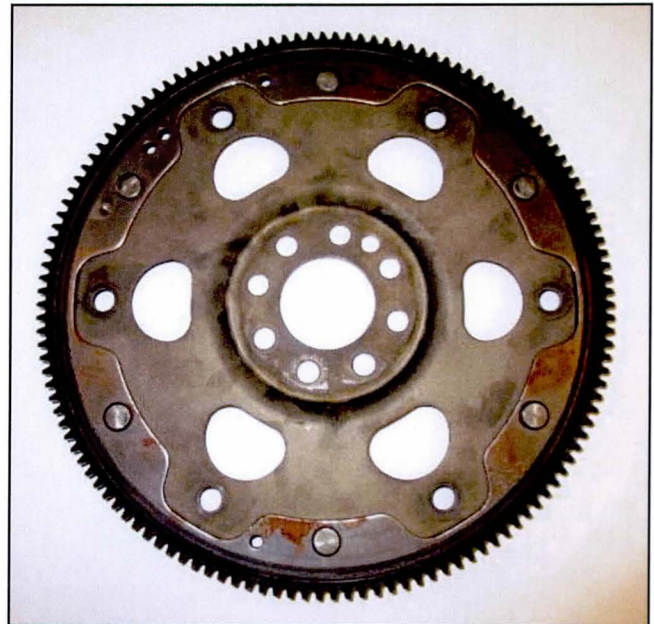
In this illustration, a bolt was threaded into the transmission support housing and the Wireless Chassis Ear was secured to the bolt.



2. Accelerate the vehicle from a stop at slow speeds and listen for noise from the bellhousing area. If a buzzing or scraping noise is heard, go to Step 3 and replace the crankshaft position sensor wheel and plate.
3. Refer to the Santa Fe Shop Manual and remove the transmission.
4. Remove the crankshaft position sensor wheel and plate and replace with a new part.

Install 8 bolts and torque to specification.

Torque: 53~56 lb-ft (7~8 kgf.m, 72~75 N.m)



5. Reinstall the transmission and other removed parts in reverse order of removal.
6. Drive the vehicle to confirm the transmission is operating as designed.