



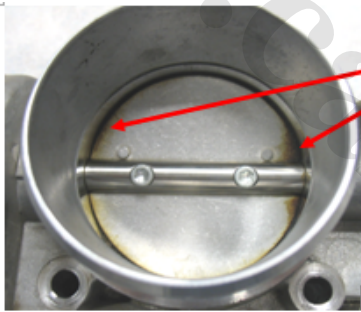
HYUNDAI Technical Service Bulletin

		Group	FUEL SYSTEM	
		Number	10-FL-009	
Subject	2.0L/2.4L THETA ENGINE ETC THROTTLE BODY CLEANING		Date	JULY, 2010
			Model	NF SONATA, YF SONATA, CM SANTA FE, LM TUCSON, BK GENESIS COUPE
CIRCULATE TO:	<input type="checkbox"/> GENERAL MANAGER	<input checked="" type="checkbox"/> PARTS MANAGER	<input checked="" type="checkbox"/> TECHNICIAN	
<input checked="" type="checkbox"/> SERVICE ADVISOR	<input checked="" type="checkbox"/> SERVICE MANAGER	<input checked="" type="checkbox"/> WARRANTY MGR	<input type="checkbox"/> SALES MANAGER	

DESCRIPTION:

This bulletin provides the procedure to clean the Electronic Throttle Control (ETC) throttle body of Theta-2.0L/2.4L engine equipped vehicles. If a vehicle exhibits the condition(s) listed below and deposits are found at the valve-to-bore interface inside the ETC throttle body, clean the throttle body using the procedure described in this bulletin.

NOTE: This throttle body cleaning procedure should be performed when diagnosing the conditions listed below. Do not replace the throttle body prior to performing this procedure.



Deposits
found at the
valve to bore
interface.

Condition:

Any of the following conditions may be caused by throttle body deposits:

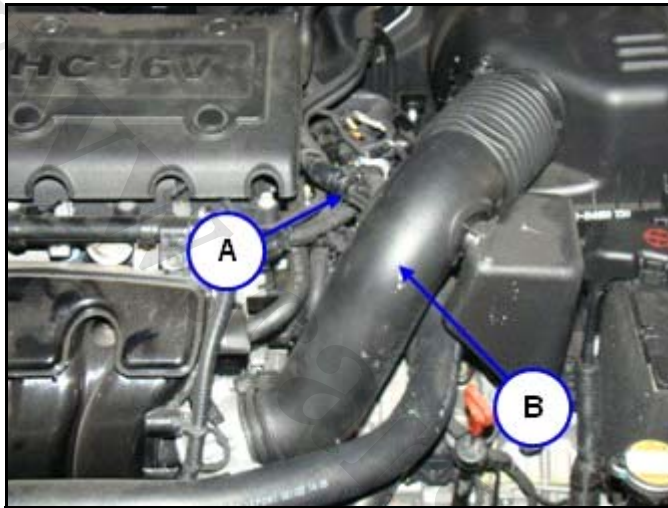
- No start (due to throttle valve stuck closed or air flow significantly restricted)
- Rough idle or fluctuating engine speed at idle (due to air flow restricted)
- MIL "On" with DTC P2118 or P2119 occurring along with P2110:
 - P2118: Throttle Actuator Control Motor Current Range/Performance
 - P2119: Throttle Actuator Control Throttle Body Range/Performance
 - P2110: Throttle Actuator Control System-Forced Limited Power

APPLICABILITY:

- 2006-2010 NF Sonata 2.4L
- 2011 YF Sonata 2.4L
- 2010 CM Santa Fe 2.4L
- 2010 LM Tucson 2.4L
- 2009-2010 BK Genesis Coupe 2.0L

SERVICE PROCEDURE:

1. Remove the breather hose (A) and the air intake hose (B) to gain access to the ETC throttle body.



2. With ignition key off disconnect the ETC connector (C) from the throttle body.





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3. Remove the 4 ETC throttle body mounting bolts and then pull out the ETC throttle body away from the intake manifold.



NOTE: Do not disconnect the coolant hose from the ETC throttle body. It is not necessary to remove the ETC throttle body completely from the vehicle for cleaning.



4. Spray a carbon cleaner or throttle body cleaning solution on the throttle valve and bore areas where deposits have accumulated. Wipe off the deposits with a clean and soft shop towel (as shown in the pictures).



NOTE:

- Do not use excessive force to open the throttle valve.
- Be careful not to scratch the throttle valve and bore areas during cleaning.



5. After ETC throttle body cleaning is complete, reinstall all the removed parts in reverse order of removal.
6. Torque the throttle body bolts to following specifications:
 - NF Sonata 2.4L: 0.8~1.0 kgf.m (7.8~9.8 N.m, 5.8~7.2 lb.ft)
 - All other 2.0L/2.4L: 1.0~1.2 kgf.m (9.8~11.8 N.m, 7.2~8.7 lb.ft)



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NOTE: If the ETC gasket has been damaged or contaminated by foreign substances, it must be replaced with a new one.

- Without starting the engine turn the ignition key ON for at least 10 seconds and then OFF for at least 10 seconds. This procedure allows the ECM to automatically learn the throttle valve position.

Throttle Position Learning Enable Conditions that must exist for learning to take place:

- Battery > 10V,
- Engine coolant temperature >5.3C (41.5F)

WARRANTY INFORMATION:

OP CODE	OP NAME	OP TIME	MODEL	CAUSAL P/N	NATURE	CAUSE
35002A00	Electronic Throttle Body Cleaning	0.4 M/H	2.4L(NF/YF Sonata, LM Tucson, CM Santa Fe)	35100-25400	N69	C32
			2.0L BK Genesis Coupe	35100-3C500		