



# FSE Report

Created by Richard Palahunik on 02/26/2008 04:20:19 PM.

### \* Required Fields

Submitted by Richard Palahunik on 02/26/2008 04:30:14 PM. Finalized by Richard Palahunik on 02/26/2008 04:30:14 PM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
NY013	SantaFe (CM)	2007	5NMSG73D67E [REDACTED]	2,660	05/11/2007	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
7	Medium	no	no	FPOR	Richard Palahunik

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
SWITCH ASSY-STOP LAMP(4P)	938100W000	EN02	B1315	03 Service brake system

Target Date:	Comment:
02/26/2008	

### Subject\*:

2007 CM SANTA FE - ESC WARNING LIGHT ON

### Condition\*:

Customer stated ESC comes on and will not go off until you shut the car off and then restart the engine.

### Vehicle History\*:

NY013	H63698	563698	2/20/2008	2,660	SWITCH ASSY-STOP LAMP
NY013	H51959	551959	8/28/2007	6	PRE-DELIVERY INSPECTION/SERVICE

### Root Cause Analysis\*:

Internal failure of stop lamp switch. BRAKE LIGHT SWITCH OPEN CIRCUIT

### Corrective Action\*:

Replace stop lamp switch assembly.

### Reason(s) vehicle was not previously repaired:

First repair

### Picture(s) and Attachment(s):

no

Did this action resolve condition?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Condition verified by personal inspection of company employee?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Were Photos Taken?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Parts Inspected?	<input type="radio"/> Yes <input checked="" type="radio"/> No

Parts Sent?  Yes  No

**5NMSH13E27HXXXXXX**



# FSE Report

Created by Rolf Stegemann on 08/17/2007 12:08:35 AM.

### \* Required Fields

Submitted by Rolf Stegemann on 08/17/2007 10:01:42 AM. Finalized by Rolf Stegemann on 08/17/2007 10:01:42 AM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
TX060	Santafe (CM)	2007	5NMSH13E2H [REDACTED]	8,789	10/17/2006	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
5	Low			FPOR	Rolf Stegemann

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
		EL05		11 Electrical system

Target Date:	Comment:
08/17/2007	

### Subject\*:

2007 CM SANTAFE - ABS LIGHT ON CODE C1513 P0504

### Condition\*:

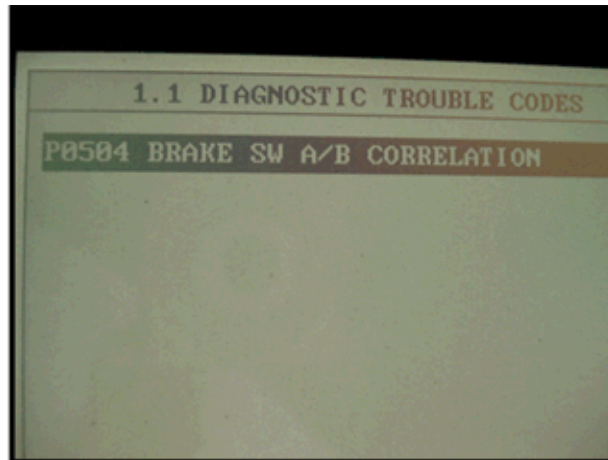
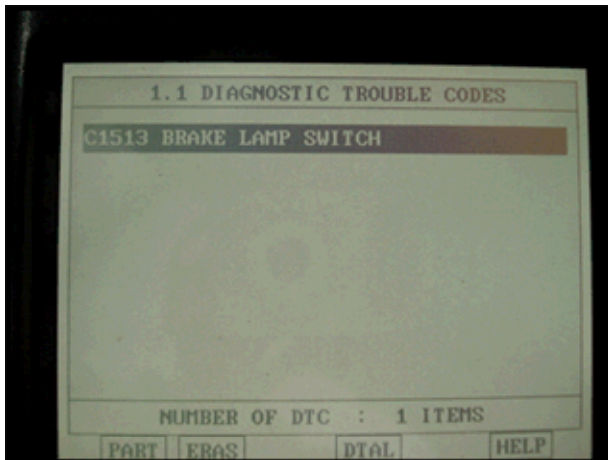
Customer complains of ABS light on code C1513

### Vehicle History\*:

TX060	77217A	177217	00	W	7/27/2007	9,384	93810R00	7/31/2007	A
TX060	68842A	168842	00	I	1/18/2007	4	PREDELIV		R
TX060	68842B	168842	00	I	1/18/2007	4	PREDELIV		R
TX060	68842E	168842	00	I	1/18/2007	4	PREDELIV	2/21/2007	A

### Root Cause Analysis\*:

- Retrieved codes C1513 from ABS module and P0504 from PCM.



### Corrective Action\*:

- Replaced brake switch and condition is no longer present.

**Reason(s) vehicle was not previously repaired:**

First time in

**Picture(s) and Attachment(s):**

**Did this action resolve condition?**  Yes  No

**Condition verified by personal inspection of company employee?**  Yes  No

**Were Photos Taken?**  Yes  No

**Parts Inspected?**  Yes  No

**Parts Sent?**  Yes  No

**5NMSH13E87HXXXXXX**



# FSE Report

Created by Richard Palahunik on 02/26/2008 04:05:27 PM.

### \* Required Fields

Submitted by Richard Palahunik on 02/26/2008 04:18:09 PM. Finalized by Richard Palahunik on 02/26/2008 04:18:09 PM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
NY013	SantaFe (CM)	2007	5NMSH13E8H [REDACTED]	2,611	02/28/2007	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
7	Medium	no	no	FPOR	Richard Palahunik

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
SWITCH ASSY-STOP LAMP(4P)	938100W000	EN02	P0504 - P0571	03 Service brake system

Target Date:	Comment:
02/26/2008	

**Subject\*:**  
2007 CM SANTA FE - ESC WARNING LIGHT ON

**Condition\*:**  
Customer stated the ESC and SES light are on.

**Vehicle History\*:**  
NY013 H61474 561474 1/16/2008 2,610 SWITCH ASSY-STOP LAMP  
NY013 H43751 543751 5/05/2007 5 PRE-DELIVERY INSPECTION/SERVICE

**Root Cause Analysis\*:**  
Internal failure of stop lamp switch. (open circuit)

**Corrective Action\*:**  
Replace stop lamp switch assembly

**Reason(s) vehicle was not previously repaired:**  
First repair

**Picture(s) and Attachment(s):**  
no

Did this action resolve condition?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Condition verified by personal inspection of company employee?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Were Photos Taken?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Parts Inspected?	<input type="radio"/> Yes <input checked="" type="radio"/> No

Parts Sent?  Yes  No



**5NMSH13EX7HXXXXXX**



## FSE Report

Created by Harrison Aye on 08/21/2007 11:01:42 PM.

### \* Required Fields

Submitted by Harrison Aye on 08/24/2007. Finalized by Harrison Aye on 08/24/2007 08:13:09 AM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
TX131	Santafe (CM)	2007	5NMSH13EXH [REDACTED]	5,660	03/26/2007	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
7	High			VDS	Harrison Aye

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
BRAKE LIGHT SWITCH	93810-0W000	BR01	C1513	03 Service brake system

Target Date:	Comment:
08/21/2007	8/21/07: FSE at dealer. Brake switch forwarded to National.

### Subject\*:

2007 CM SANTAFE - ESC OFF WARNING LIGHT ILLUMINATED WITH DTC C1513

### Condition\*:

- Customer states that ESC warning lights are illuminated.
- DTC C1513 - brake switch circuit error was stored in the system. DTC did not reset when cleared from the system.
- Brake paddle was applied and released several times in attempt to recreate the condition but DTC did not reset.
- Brake switch was removed from vehicle and brake switch plunger was physically pushed in and out several times but DTC did not reset.
- Resistance across pin #1 and #2 was measured. Open circuit was shown when plunger is extended. Resistance measurement varied from 5 to 17.2 ohms when plunger was pushed in.
- It appears that brake light switch is intermittently inoperative.

### Vehicle History\*:

- No prior repair history.

### Root Cause Analysis\*:

- It appears that brake light switch is intermittently inoperative.

### Corrective Action\*:

- Replaced brake light switch.

### Reason(s) vehicle was not previously repaired:

- N/A

Picture(s) and Attachment(s):



Did this action resolve condition?  Yes  No

Condition verified by personal inspection of company employee?  Yes  No

Were Photos Taken?  Yes  No

Parts Inspected?  Yes  No

Parts Sent?  Yes  No

**5NMSH73E17HXXXXXX**



## FSE Report

Created by Rodney Helgeson on 05/24/2007 02:07:19 PM.

### \* Required Fields

Submitted by Rodney Helgeson on 05/25/2007. Finalized by Rodney Helgeson on 05/25/2007 12:27:16 PM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
IL052	Santafe (CM)	2007	5NMSH73E1H [REDACTED]	22,368	07/25/2007	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
5	Medium	N/A	N/A	VDS	Rodney Helgeson

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
Brake light switch	93810-3K000	AT06		11 Electrical system

Target Date:	Comment:
05/24/2007	

### Subject\*:

2007 CM SANTAFE-- BRAKE LIGHT SWITCH

### Condition\*:

Customer states vehicle will not shift out of park. ESC light is illuminating

### Vehicle History\*:

IL021 61486P W61639 7/07/2006 5 PRE-DELIVERY INSPECTION/SERVICE

### Root Cause Analysis\*:

brake light switch when depress has open circuit between pins #3 and #4

### Corrective Action\*:

replace brake switch

### Reason(s) vehicle was not previously repaired:

n/a

### Picture(s) and Attachment(s):



P5220027.JPG

<b>Did this action resolve condition?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<b>Condition verified by personal inspection of company employee?</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No
<b>Were Photos Taken?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<b>Parts Inspected?</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No
<b>Parts Sent?</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No



## FSE Report

Created by Rolf Stegemann on 05/31/2007 10:39:42 AM.

### \* Required Fields

Submitted by Rolf Stegemann on 05/31/2007 10:41:12 AM. Finalized by Rolf Stegemann on 05/31/2007 12:41:12 PM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
TX116	Sonata (NF)	2007	5NPET46C37H [REDACTED]	14	11/20/2006	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
7	Medium			FPOR	Rolf Stegemann

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
SWITCH ASSY - STOP LAMP (4P)	93810-3K000	EL05		11 Electrical system

Target Date:	Comment:
05/31/2007	This is the second vehicle that dealer has seen with same condition.

#### Subject\*:

2007 NF SONATA - UNABLE TO REMOVE OUT OF PARK C1513

#### Condition\*:

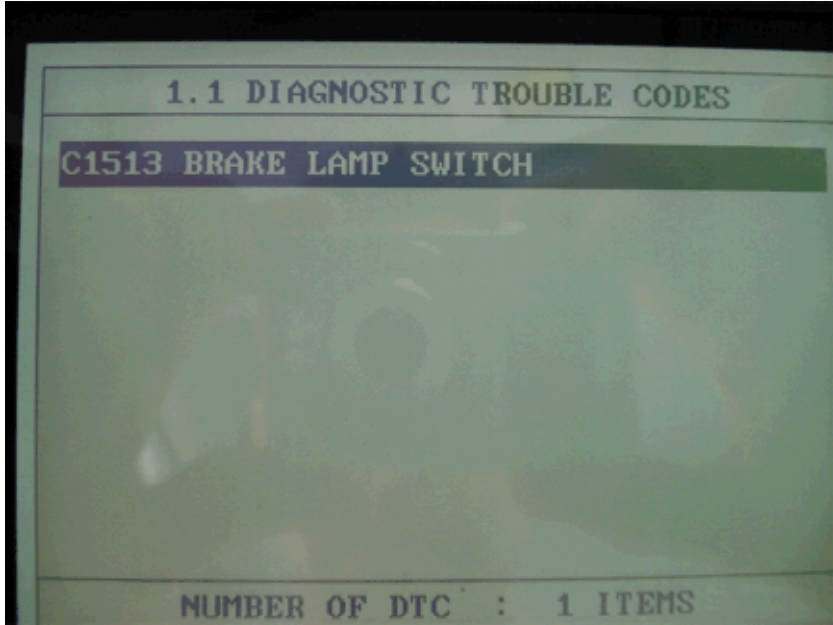
Shifter does not come out of park intermittently. SVM states that sometimes the ESC light comes on.

#### Vehicle History\*:

N/A

#### Root Cause Analysis\*:

- FTS verified for codes in ABS module. Found C1513.



- FTS advised to replace the brake switch.

**Corrective Action\*:**

- Replaced and adjusted brake switch.

**Reason(s) vehicle was not previously repaired:**

N/A

**Picture(s) and Attachment(s):**

Did this action resolve condition?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Condition verified by personal inspection of company employee?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Were Photos Taken?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Parts Inspected?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Parts Sent?	<input checked="" type="radio"/> Yes <input type="radio"/> No



**5NPET46C46HXXXXXX**



## FSE Report

Created by Harrison Aye on 05/20/2007 07:53:22 PM.

### \* Required Fields

Submitted by Harrison Aye on 05/20/2007 08:39:41 PM. Finalized by Harrison Aye on 05/20/2007 08:39:41 PM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
TX063	Sonata (NF)	2006	5NPET46C46[REDACTED]	20,561	03/20/2006	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
7	Medium			VDS	Harrison Aye

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
BRAKE LAMP SWITCH	93810-3K000	BR01	C1513	03 Service brake system

Target Date:	Comment:
05/20/2007	5/17/07: FSE at dealer. Brake lamp switch forwarded to Product Support for further analysis.

**Subject\*:**  
2006 NF SONATA - ESC & ABS WARNING LIGHT ILLUMINATED WITH C1513

- Condition\*:**
- Customer states that ESC & ABS warning lights are on.
  - DTC C1513, brake lamp switch error, was stored in the system.
  - Condition is intermittent and unable to duplicate.
  - Brake lamp switch installation and plunger movement were inspected. It was installed correctly and plunger was moving.
  - It appears that brake lamp switch is intermittently inoperative.

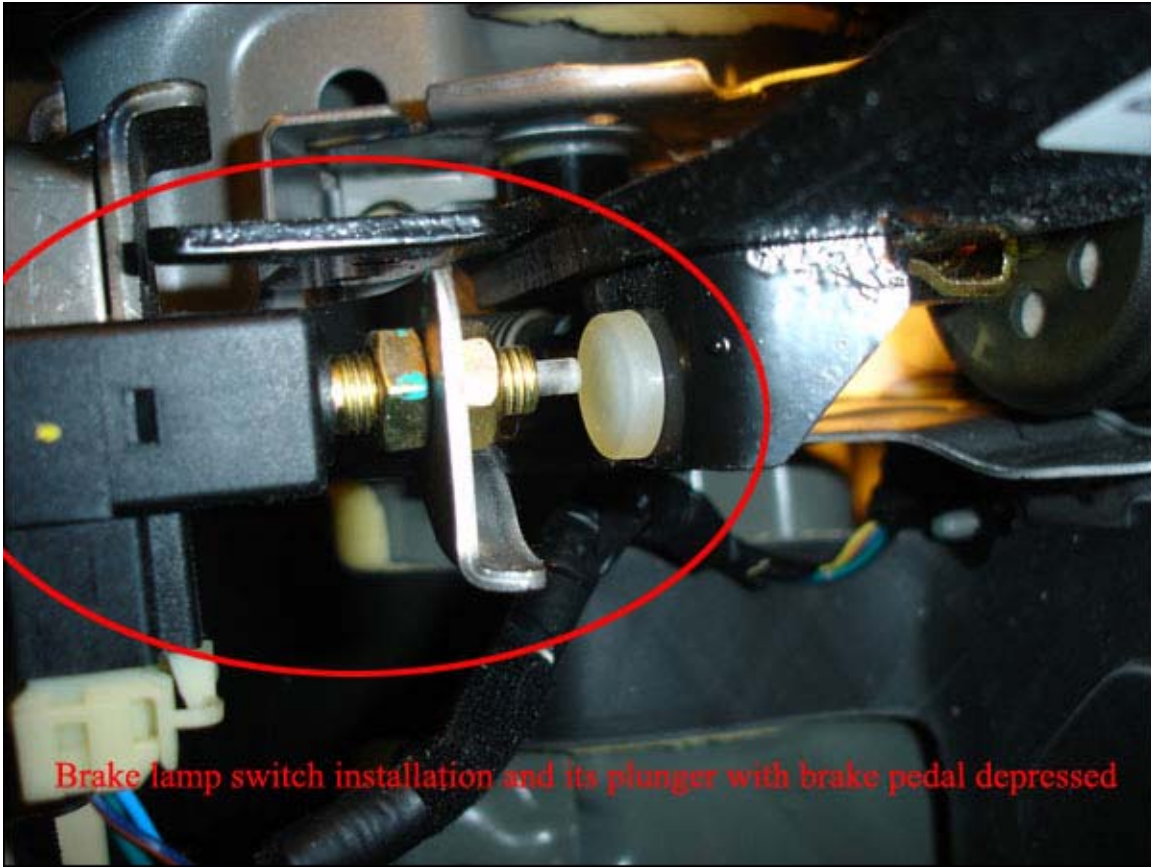
**Vehicle History\*:**  
No prior related repair history.

**Root Cause Analysis\*:**  
Brake lamp switch appears to be intermittently inoperative/poor contact.

**Corrective Action\*:**  
Replaced brake lamp switch assembly.

**Reason(s) vehicle was not previously repaired:**  
N/A

**Picture(s) and Attachment(s):**



Brake lamp switch installation and its plunger with brake pedal depressed

Did this action resolve condition?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Condition verified by personal inspection of company employee?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Were Photos Taken?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Parts Inspected?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Parts Sent?	<input checked="" type="radio"/> Yes <input type="radio"/> No

**5NPET46C47HXXXXXX**



## FSE Report

Created by Harrison Aye on 08/24/2007 10:10:47 AM.

### \* Required Fields

Submitted by Harrison Aye on 08/24/2007 10:34:29 AM. Finalized by Harrison Aye on 08/24/2007 10:34:29 AM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
TX068	Sonata (NF)	2007	5NPET46C47H [REDACTED]	12	12/15/2006	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
5	Medium			VDS	Harrison Aye

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
BRAKE LIGHT SWITCH	93810-3K000	BR01	C1513	03 Service brake system

Target Date:	Comment:
08/24/2007	

#### Subject\*:

2007 NF SONATA - BRAKE LIGHT SWITCH PLUNGER INTERMITTENTLY STUCK IN ITS HOUSING

#### Condition\*:

- ESC warning light is on and gear selector is difficult to shift during PDI.
- DTC C1513 - brake light switch error was found in the system and plunger was found to be intermittently stuck in its housing.

#### Vehicle History\*:

- New vehicle.

#### Root Cause Analysis\*:

- Inoperative brake light switch.

#### Corrective Action\*:

- Replaced brake light switch.

#### Reason(s) vehicle was not previously repaired:

- N/A

#### Picture(s) and Attachment(s):



STUCK  BRAKE LIGHT SWITCH PLUNGER

Did this action resolve condition?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Condition verified by personal inspection of company employee?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Were Photos Taken?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Parts Inspected?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Parts Sent?	<input checked="" type="radio"/> Yes <input type="radio"/> No

**5NPET46C56HXXXXXX**



# FSE Report

Created by Rolf Stegemann on 03/30/2007 11:32:46 AM.

**\* Required Fields**

Submitted by Rolf Stegemann on 03/30/2007 12:42:16 PM. Finalized by Rolf Stegemann on 03/30/2007 12:42:16 PM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
TX104	Sonata	2006	5NPET46C56H [REDACTED]	15,723	02/17/2006	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
5	Low			VDS	Rolf Stegemann

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
SWITCH ASSY - STOP LAMP	93810-3K000	BR06		11 Electrical system

Target Date:	Comment:
03/30/2007	

**Subject\*:**

2006 NF SONATA - BRAKE LIGHT IS ON C1513

**Condition\*:**

Customer complains of brake light is on

**Vehicle History\*:**

N/A

**Root Cause Analysis\*:**

Technician found brake lamp switch was causing code.

**Corrective Action\*:**

Replace brake lamp switch assy and condition was corrected.

**Reason(s) vehicle was not previously repaired:**

First time visit

**Picture(s) and Attachment(s):**



Brake switch.jpg

Did this action resolve condition?  Yes  No

Condition verified by personal inspection of company employee?  Yes  No

Were Photos Taken?  Yes  No

Parts Inspected?



Yes  No

Parts Sent?  Yes  No

**5NPET46C57HXXXXXX**



# FSE Report

Created by Rolf Brandt on 04/06/2007 08:20:32 AM.

### \* Required Fields

Submitted by Rolf Brandt on 04/06/2007 08:34:51 AM. Finalized by Rolf Brandt on 04/06/2007 08:34:51 AM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
WA026	Sonata	2007	5NPET46C57E [REDACTED]	10	11/15/2006	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
10	High			FPOR	Rolf Brandt

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
Stop Lamp Switch	93810-3K000	EL11		11 Electrical system

Target Date:	Comment:
04/06/2007	

**Subject\*:**  
2007 NF SONATA - STOP LAMP SWITCH

**Condition\*:**  
At times when the ignition is on and the brake pedal is depressed the shifter cannot be moved out of the Park position.

**Vehicle History\*:**  
N/A

**Root Cause Analysis\*:**

The picture to the right shows the incident stop light switch plunger stuck in the IN position. If the plunger does not extend when the brake pedal is pressed the brake lights do not light and the shifter shift lock does not release.

The plunger sticks in the switch bore.



The picture to the right shows the incident stop light switch with the plunger extended.



**Corrective Action\*:**

Replaced stop light switch.

**Reason(s) vehicle was not previously repaired:**

First repair

**Picture(s) and Attachment(s):**



Switch Plunger Stuck In.jpg Switch Plunger Extended.jpg

**Did this action resolve condition?**  Yes  No

**Condition verified by personal inspection of company employee?**  Yes  No

**Were Photos Taken?**  Yes  No

**Parts Inspected?**  Yes  No

**Parts Sent?**  Yes  No

**5NPET46C76HXXXXXX**



## FSE Report

Created by Terry Fowkles on 10/03/2008 02:12:31 PM.

### \* Required Fields

Submitted by Terry Fowkles on 10/03/2008 02:31:55 PM. Finalized by Harrison Aye on 10/12/2008 04:16:58 PM.

**This case was opened for 6 days.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
TX118	Sonata (NF)	2006	5NPET46C76H [REDACTED]	40,000	02/17/2006	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
7	Medium	3407830	3258100 3325438	Diagnostic Assistance	Harrison Aye

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
STOP LAMP SWITH ASSY	93810-0W000	BR01	C1513	03 Service brake system

Target Date:	Comment:
10/03/2008	<p>10/3/08: SVM is not at dealer. DTC C 1513 is stored. Spoke with Parts Mgr and request to call back when brake light switch shipment.</p> <p>10/6/08: Spoke with Parts Mgr. Advised to check voltage, amperage, stop lamp switch/brake light switch connector pin and connection. Advised to order new brake light switch and call back when received.</p> <p>10/8/08: The voltage, amperage, brake light switch connector pin and connection checked and no issue detected. The lot number on the new part is I8XX and the old brake light switch lot number is I71C. The new stop lamp switch is installed.</p>

### Subject\*:

2006 SONATA NF - ESC LIGHT ON, ABS LIGHT

### Condition\*:

VEHICLE HAS BEEN IN MULTIPLE TIMES WITH ESC LIGHT ON, ABS LIGHT, HAD NO BRAKE LIGHTS. TECHLINE INVOLVED. DPSM REQUEST FSE ASSISTANCE TO AVOID POSSIBLE BUYBACK.

### Vehicle History\*:

Below is vehicle warranty repair history.

Dealer Code	Claim Sequence No	Repair Order Number	Mileage	Repair Date Open	Nature Description	Cause Description	Operation Description
TX118	101411	10141	19,601	6/25/2007	WARNING LIGHT ON	POOR CONTACT & SHORT	SWITCH ASSY-STOP LAMP
TX118	126911	12691	27,809	11/6/2007	INOPERATIVE	POOR CONTACT & SHORT	SWITCH ASSY-STOP LAMP
TX118	133351	13335	29,935	12/13/2007	WARNING LIGHT ON	POOR CONTACT & SHORT	OIL CONTROL VALVE-CVVT
TX118	174511	17451	39,746	6/20/2008	INOPERATIVE	POOR CONTACT & SHORT	BULB ASSY-HIGH MOUNTED STOP
TX118	174513	17451	39,746	6/20/2008	INOPERATIVE	STICKING, SEIZED	MOTOR & FAN ASSY-HEATER BLOWER

**Root Cause Analysis\*:**

- It appears that stop lamp switch is intermittently inoperative.

**Corrective Action\*:**

- Replaced with countermeasure stop lamp switch.

**Reason(s) vehicle was not previously repaired:**

- It appears to be part quality issue.

**Picture(s) and Attachment(s):**



TECHLINE 3258100.doc TECHLINE 3325438.doc

Did this action resolve condition?  Yes  No

Condition verified by personal inspection of company employee?  Yes  No

Were Photos Taken?  Yes  No

Parts Inspected?  Yes  No

Parts Sent?  Yes  No



**5NPET46C77HXXXXXX**



## FSE Report

Created by Mark Konenkamp on 09/07/2007 04:39:58 PM.

### \* Required Fields

Submitted by Mark Konenkamp on 09/07/2007 01:46:38 PM. Finalized by Michael Porter on 09/11/2007 05:12:40 PM.

**This case was opened for 3 days.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
FL122	Sonata (NF)	2007	5NPET46C77H [REDACTED]	16,171	09/07/2007	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
5	High		None	Potential Buyback Prevention	Mark Konenkamp

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
Brake light Switch		BR06	C1513	03 Service brake system

Target Date:	Comment:
09/10/2007	<p>9/11/07</p> <p>FSE contacted dealer, reviewed past repairs and current diagnostics.</p> <p>Technician verified the brake light switch plunger was binding</p> <p>Technician advised to replace brake switch, follow TSB 06 50 006, Stop Lamp Switch Adjustment procedure</p>

### Subject\*:

2007 NF ESC light on

### Condition\*:

State Of Florida MVDN Inspection FL122 9-10-2007 Melissa Edelson

Customer states: "non functional electronic stability control and brake lights "

DTC C1513:Brake Light Switch Malfunction

### Vehicle History\*:

```

-----< VEHICLE CLAIM HISTORY >-----
Dealer Claim Repair Repair Repair Operation
Code Number Order Date Mileage Description
-----
FL122 225814 225814 8/13/2007 16,171 MOTOR & FAN ASSY-HEATER BLOWER
FL122 R23144 223144 7/16/2007 14,210 SWITCH ASSY-STOP LAMP
FL122 W23144 223144 7/16/2007 14,468 SWITCH ASSY-STOP LAMP
FL122 223144 223144 7/16/2007 14,468 WIRING HARNESS-FEM
FL122 R20683 220683 6/19/2007 13,468 SERVICE LOAN CAR CLAIM
FL122 W20683 220683 6/19/2007 13,468 WIRING HARNESS-FEM
FL122 220683 220683 6/19/2007 13,468 SWITCH ASSY-STOP LAMP
FL122 W14768 214768 4/16/2007 10,539 SWITCH ASSY-STOP LAMP
FL122 214768 214768 4/16/2007 10,539 MOTOR & FAN ASSY-HEATER BLOWER
FL122 195960 195960 9/08/2006 2 PRE-DELIVERY INSPECTION/SERVICE
  
```

VIN#: 5NPET46C77H [REDACTED] Sonata (NF) 2007 Wty Strt DT: 9/23/2006  
 Orig Owner: \_\_\_\_\_ DMV Trnsfr DT:  
 Transmission : Automatic  
 Selling Dealer: FL122 COCONUT CREEK HYUNDAI

### Root Cause Analysis\*:

Brake light switch plunger binding, not returning to it's normal rest position.

**Corrective Action\*:**

Replace the brake light switch

Advised tech to use a brake switch from a 2008 NF to ensure a current production run part.

**Reason(s) vehicle was not previously repaired:**

Poor switch performance

Possible incorrect switch installation/adjustment

**Picture(s) and Attachment(s):**



Did this action resolve condition?  Yes  No

Condition verified by personal inspection of company employee?  Yes  No

Were Photos Taken?  Yes  No

Parts Inspected?  Yes  No

Parts Sent?  Yes  No

**5NPET46C87HXXXXXX**



## FSE Report

Created by Rodney Helgeson on 08/01/2007 12:59:50 PM.

### \* Required Fields

Submitted by Rodney Helgeson on 08/02/2007. Finalized by Rodney Helgeson on 08/02/2007 02:44:24 PM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
IL002	Sonata (NF)	2007	5NPET46C87H [REDACTED]	18,879	07/29/2006	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
5	Low	N/A	N/A	FPOR	Rodney Helgeson

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
BRAKE SWITCH	93810-3K000	BR03		12 Exterior lighting

Target Date:	Comment:
08/01/2007	

### Subject\*:

2007 NF SONATA-- BRAKE LIGHT SWITCH C1513

### Condition\*:

ABS light is on DTC C1513

### Vehicle History\*:

IL002	66613C	066613	7/11/2007	18,879	SWITCH ASSY-STOP LAMP
WI012	A08316	508316	8/28/2006	4	PRE-DELIVERY INSPECTION/SERVICE

### Root Cause Analysis\*:

Brake light switch connector E62, pins 3 and 4 should be N/C 0 ohms, there is resistance of 40 OHMS, switch depressed ophm meter goes to OL open circuit

### Corrective Action\*:

Replace brake light switch

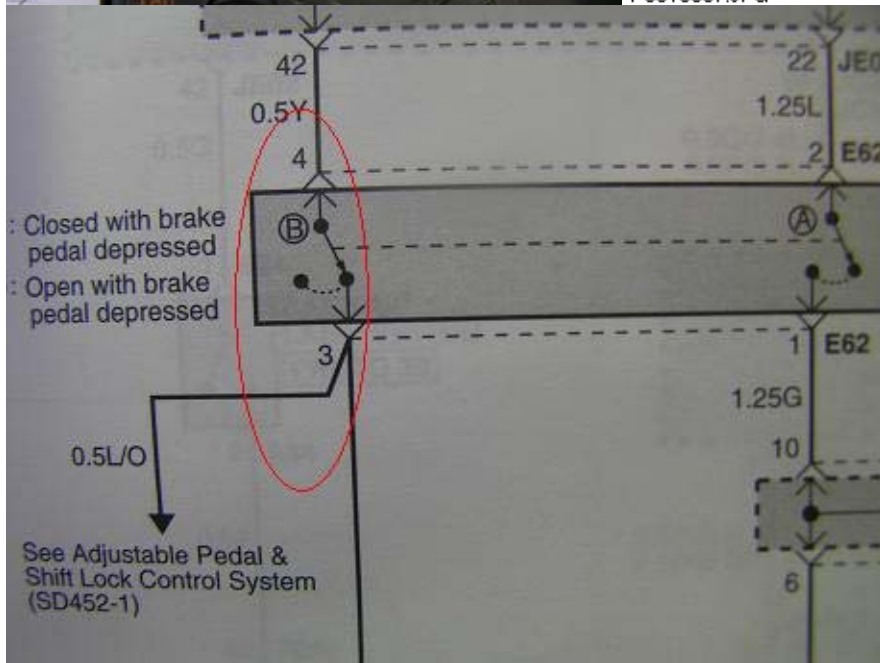
### Reason(s) vehicle was not previously repaired:

N/A

### Picture(s) and Attachment(s):



P8010087.JPG



P8010088.JPG

Did this action resolve condition?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Condition verified by personal inspection of company employee?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Were Photos Taken?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Parts Inspected?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Parts Sent?	<input checked="" type="radio"/> Yes <input type="radio"/> No

**5NPET46CX6HXXXXXX**



## FSE Report

Created by Michael Porter on 10/15/2008 09:35:45 PM.

**\* Required Fields**

Submitted by Michael Porter on 10/16/2008 02:31:53 AM. Finalized by Michael Porter on 10/16/2008 02:31:53 AM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
FL093	Sonata (NF)	2006	5NPET46CX6E [REDACTED]	27,005	12/09/2005	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
10	High	3389225		Potential Buyback Prevention	Michael Porter

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
Switch assy-stop lamp	93810-3K000	BR01	C1513	11 Electrical system

Target Date:	Comment:																																								
10/15/2008	<ul style="list-style-type: none"> <li>• Reviewed dealer "hard" file for ABS/ECS visits</li> </ul> <table style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 15%;">DATE</th> <th style="width: 15%;">MILES</th> <th style="width: 15%;">Repair</th> <th style="width: 55%;"></th> </tr> </thead> <tbody> <tr> <td>1. 10/15/08</td> <td><b>27105</b></td> <td>Switch</td> <td>Daig by FSE</td> </tr> <tr> <td>2. 03/21/08</td> <td>21945</td> <td>Switch</td> <td></td> </tr> <tr> <td>3. 03/01/08</td> <td>21516</td> <td>Switch</td> <td></td> </tr> <tr> <td>4. 02/23/08</td> <td>21388</td> <td>Return later for daig.</td> <td></td> </tr> <tr> <td>5. 01/07/08</td> <td><b>20345</b></td> <td>Switch</td> <td></td> </tr> <tr> <td>6. 11/12/07</td> <td><b>19040</b></td> <td>Switch</td> <td></td> </tr> <tr> <td>7. 07/31/07</td> <td><b>16177</b></td> <td>Switch</td> <td></td> </tr> <tr> <td>8. 07/21/07</td> <td>16044</td> <td>NPF</td> <td></td> </tr> <tr> <td>9. 12/01/06</td> <td><b>9932</b></td> <td>Switch</td> <td></td> </tr> </tbody> </table>	DATE	MILES	Repair		1. 10/15/08	<b>27105</b>	Switch	Daig by FSE	2. 03/21/08	21945	Switch		3. 03/01/08	21516	Switch		4. 02/23/08	21388	Return later for daig.		5. 01/07/08	<b>20345</b>	Switch		6. 11/12/07	<b>19040</b>	Switch		7. 07/31/07	<b>16177</b>	Switch		8. 07/21/07	16044	NPF		9. 12/01/06	<b>9932</b>	Switch	
DATE	MILES	Repair																																							
1. 10/15/08	<b>27105</b>	Switch	Daig by FSE																																						
2. 03/21/08	21945	Switch																																							
3. 03/01/08	21516	Switch																																							
4. 02/23/08	21388	Return later for daig.																																							
5. 01/07/08	<b>20345</b>	Switch																																							
6. 11/12/07	<b>19040</b>	Switch																																							
7. 07/31/07	<b>16177</b>	Switch																																							
8. 07/21/07	16044	NPF																																							
9. 12/01/06	<b>9932</b>	Switch																																							

**Subject\*:**  
2006 NF ABS/ESC light on

**Condition\*:**

- Normal driving, ABS & ESC light flash on & off
- ABS/ESC DTC C1513: Brake Light switch malfunction

**Vehicle History\*:**

WBC032 MPORTER1	Hyundai Motor America	10/15/2008
MPORTER	Warranty Vehicle Information	18:46:30

-----< VEHICLE CLAIM HISTORY >-----

Dealer Claim Code	Repair Number	Repair Order	Repair Date	Repair Mileage	Operation Description
FL093	105510	105510	1/07/2008	<b>20,345</b>	SWITCH ASSY-STOP LAMP



FL093 103368 103368 11/12/2007 19,040 SWITCH ASSY-STOP LAMP  
 FL093 099405 099405 7/31/2007 16,177 SWITCH ASSY-STOP LAMP  
 FL093 090017 090017 12/01/2006 9,932 SWITCH ASSY-STOP LAMP  
 FL093 010406 076 12/29/2005 5 PRE-DELIVERY INSPECTION/SERVICE  
 VIN#: 5NPET4 ██████████ Sonata (NF) 2006 Wty Strt DT: 3/19/2006  
 Orig Owner: ██████████ DMV Trnsfr DT:  
 Transmission  
 Selling Dealer: FL093 NAPLES HYUNDAI

**Root Cause Analysis\*:**

- Depress brake pedal slowly, brake light switch signal remained "OFF"
- Pedal depressed, gently tap the switch with you finger, brake lights flash on/off as indicated in the attached line graph
- Grasping rear section of the switch housing, applying light pressure, generated same results
- Removed rear switch housing, inspected switch contact surface.
- Surface area appeared blacken and misshapen due to "arcing"
- Date code 17JK
- Inspected for aftermarket wiring on vehicle, non present
- Performed pin tension test on brake switch connector-passed

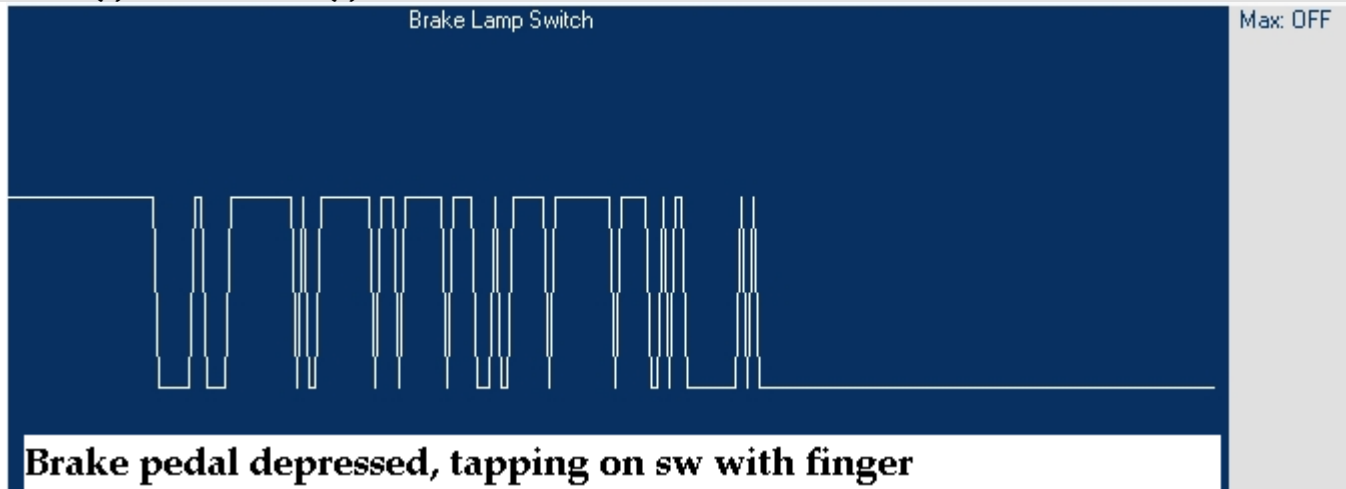
**Corrective Action\*:**

- Replaced the brake switch, repeated above test, switch function normal.
- Date code 18GK

**Reason(s) vehicle was not previously repaired:**

Dealer performed pervious repairs per service manual daig. information, Techline & FSE instructions

**Picture(s) and Attachment(s):**



NF\_FL093\_BK Sw\_2008\_10\_15(08\_51\_17).jpg

Did this action resolve condition?  Yes  No

Condition verified by personal inspection of company employee?  Yes  No

Were Photos Taken?

Yes  No

Parts Inspected?  Yes  No

Parts Sent?  Yes  No

**5NPET46CX7HXXXXXX**



## FSE Report

Created by Ron McKendrick on 04/22/2008 01:44:07 PM.

**\* Required Fields**

Submitted by Ron McKendrick on 04/22/2008 01:51:19 PM. Finalized by Tony Barbere on 04/29/2008 09:56:31 PM.

**This case was opened for 6 days.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
NY097	Sonata (NF)	2007	5NPET46CX7H [REDACTED]	14,256	11/30/2006	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
5	Medium	1080601	3235546	Buyback Inspection	Tony Barbere

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
		0000		11 Electrical system

Target Date:	Comment:
04/22/2008	<p>AFTER INSPECTION. <b>IMPORTANT</b>&gt; PLEASE HAVE DEALER GENERATE A <b>FINAL REPAIR ORDER STIPULATING CUSTOMER BUYBACK COMPLAINT!!!!</b> (Please indicate if repair needed or no problem found – car operating as designed.), AND FAX IT TO - CONSUMER AFFAIRS / EASTERN REGION - <b>ATTN. RON MCKENDRICK AT 609-395-7335 THANKS</b></p> <p>4/28/08 FSE inspected vehicle. Dealer followed ER CA directions above.</p>

**Subject\*:**

2007 NF > ESC light comes on > cust would not allow another repair.

**Condition\*:**

BUYBACK INSPECTION

**Vehicle History\*:**

Dealer Name	Dealer Code	Repair Order Number	Labor	Parts	Mileage	Repair Date Open	Repair Date Close	Claim Type Description	Nature Description	Cause Description	Operation Description
HYUNDAI OF NANUET	NY097	023053	28.8	7.34	14,003	3/29/2008	3/29/2008	New Veh. LTD Warranty	WARNING LIGHT ON	POOR CONTACT & SHORT	SWITCH ASSY-STOP LA
HYUNDAI OF NANUET	NY097	022493	28.8	7.34	12,796	2/29/2008	2/29/2008	New Veh. LTD Warranty	WARNING LIGHT ON	POOR CONTACT & SHORT	SWITCH ASSY-STOP LA
HYUNDAI OF NANUET	NY097	021534	28.8	9.66	11,083	1/10/2008	1/10/2008	New Veh. LTD Warranty	WARNING LIGHT ON	POOR CONTACT & SHORT	SWITCH ASSY-STOP LA
HYUNDAI OF NANUET	NY097	021340	28.8	9.66	10,650	12/29/2007	12/29/2007	New Veh. LTD Warranty	WARNING LIGHT ON	POOR CONTACT & SHORT	SWITCH ASSY-STOP LA
CURRY HYUNDAI	NY106	956291	94	0	11	4/25/2007	4/25/2007	Pre-delivery Inspection/Service	Nature Code	Cause Code	PRE-DELIVERY INSPECTION/S
TERMINATED...GEIS HYUNDAI	NY068	883791	69	0	11	2/23/2007	2/23/2007	Pre-delivery Inspection/Service	Nature Code	Cause Code	PRE-DELIVERY INSPECTION/S

**Root Cause Analysis\*:**

Internal of OEM brake lamp switch. Dealer then received non-upgraded brake switch from PDC.

**Corrective Action\*:**

Dealer ordered and received upgraded brake switch.

**Reason(s) vehicle was not previously repaired:**

Customer frustrated with multiple repairs. (dealer received non-upgrade brake switch.

**Picture(s) and Attachment(s):**

<b>Did this action resolve condition?</b>	<input type="radio"/> Yes <input type="radio"/> No
<b>Condition verified by personal inspection of company employee?</b>	<input type="radio"/> Yes <input type="radio"/> No
<b>Were Photos Taken?</b>	<input type="radio"/> Yes <input type="radio"/> No
<b>Parts Inspected?</b>	<input type="radio"/> Yes <input type="radio"/> No
<b>Parts Sent?</b>	<input type="radio"/> Yes <input type="radio"/> No

**5NPET46F88HXXXXXX**



## FSE Report

Created by Michael Smolinsky on 01/14/2009 08:42:26 PM.

### \* Required Fields

Submitted by Michael Smolinsky on 01/15/2009. Finalized by Michael Smolinsky on 01/15/2009 05:44:49 PM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
PA018	Sonata (NF)	2008	5NPET46F88E [REDACTED]	15,500	07/09/2007	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
5	High			FPOR	Michael Smolinsky

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
Brake Switch	93810-3K000	BR03	C1513	03 Service brake system

Target Date:	Comment:
01/14/2009	

### Subject\*:

2008 NF Sonata-Brake light on, ESC light on.

### Condition\*:

Customer states the brake light and the ESC light are on.

Technician found brake switch contact to be over heated and the brake lights not illuminating when he steps on the brakes.

Technician showed FSE brake switch from another vehicle with burned contacts and C1513 code; VIN 5NPET46C67H [REDACTED]

Vehicle has been to dealer numerous times for this issue.

FSE instructed technician to examine all grounds associated with brake lamp and rear lamps.

Technician found seam sealer covering ground G32 as well as the ground bolt.

Technician cleaned the seam sealer from the ground and the bolt and reattached ground.

Condition did not return.

Vehicle performing as designed.

Parts available upon request.

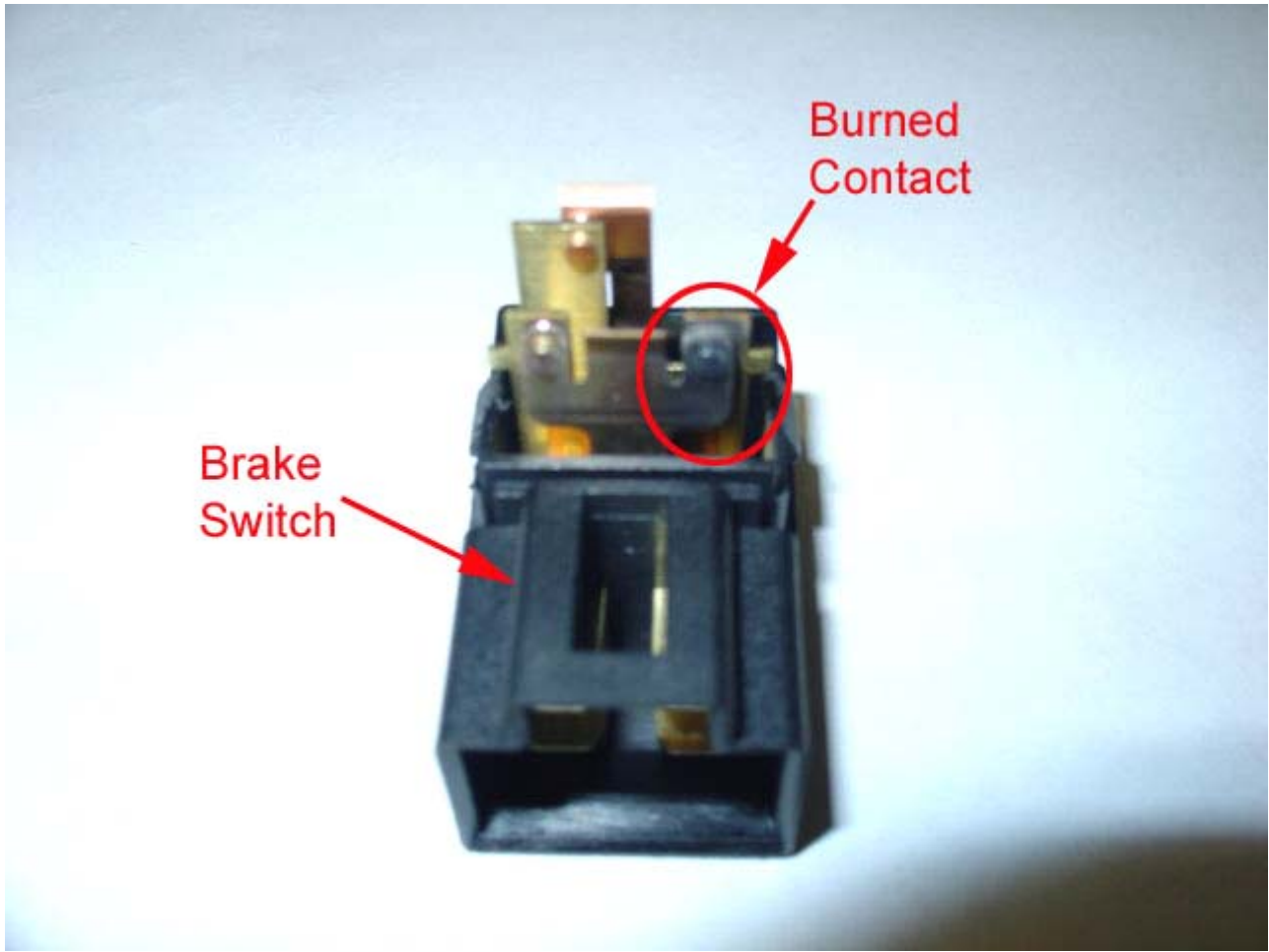




PHOTO.104

PHOTO



**Vehicle History\*:**

-----< VEHICLE CLAIM HISTORY >-----

Dealer Claim Code	Repair Number	Repair Order	Repair Date	Repair Mileage	Operation Description
PA018	460824	460824	7/18/2008	15,279	SWITCH ASSY-STOP LAMP
PA018	440500	440500	4/30/2008	7,144	SWITCH ASSY-STOP LAMP
PA018	438622	438622	4/23/2008	6,456	SWITCH ASSY-STOP LAMP
PA018	427574	427574	3/12/2008	1,801	SENSOR-ABS REAR WHEEL SPEED (LH)
PA068	40451A	340451	12/19/2007	8	PRE-DELIVERY INSPECTION/SERVICE

VIN#: 5NPET46F88H [REDACTED] CSI Sonata (NF) V-6 2008 Wty Strt DT: 2/28/2008  
 Orig Owner: [REDACTED] DMV Trnsfr DT:  
 Transmission : Automatic  
 Selling Dealer: PA018 MOTORWORLD HYUNDAI

**Root Cause Analysis\*:**

Seam sealer covering ground G32, causing insufficient ground for brake lamp circuit.

**Corrective Action\*:**

Remove seam sealer from ground G32 and ground bolt and reattach ground.

**Reason(s) vehicle was not previously repaired:**

Technician confused as to why brake switch repeatedly failed, did not check grounds related to system.

**Picture(s) and Attachment(s):**



DSC03335.JPG DSC03341.JPG

**Did this action resolve condition?**  Yes  No

**Condition verified by personal inspection of company employee?**  Yes  No

**Were Photos Taken?**  Yes  No

**Parts Inspected?**  Yes  No

**Parts Sent?**  Yes  No

**5NPEU46C56HXXXXXX**



## FSE Report

Created by YeongJae Choe on 07/21/2006 02:04:50 PM.

### \* Required Fields

Submitted by YeongJae Choe on 07/21/2006 02:52:07 PM. Finalized by YeongJae Choe on 07/21/2006 02:52:07 PM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
IL047	Sonata	2006	5NPEU46C56E [REDACTED]	2,410	07/21/2006	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
1	Medium			Diagnostic Assistance	YeongJae Choe

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
SWITCH ASSY-STOP LAMP	938103K000	BR01	BR01	03 Service brake system

Target Date:	Comment:
07/21/2006	

#### Subject\*:

2006 SONATA - C1513 Brake Switch with Heat Spots at Contact Points

#### Condition\*:

ABS code B1513 brake switch signal is on.

#### Vehicle History\*:

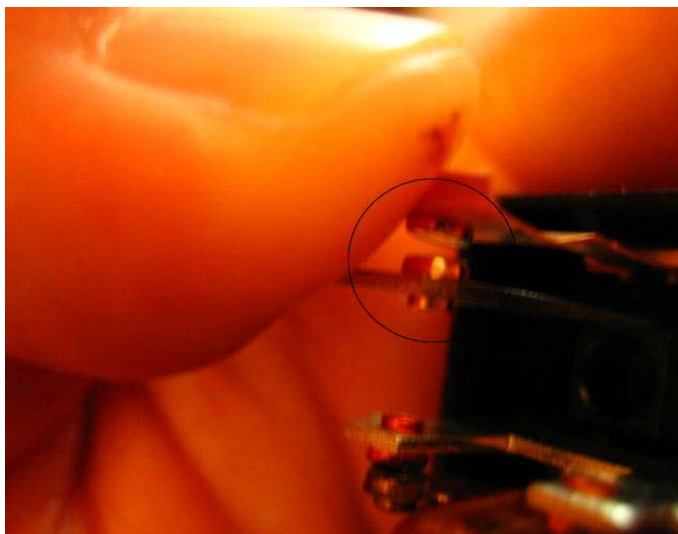
!

#### Root Cause Analysis\*:

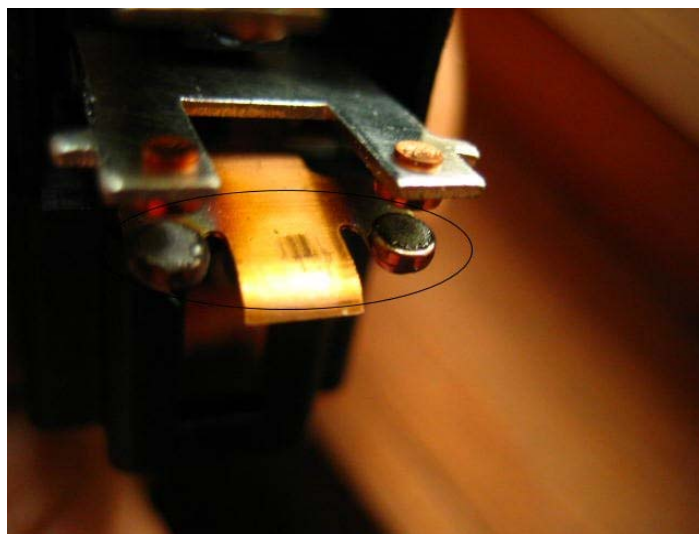
Code didn't set right away when clearing it - checked brake switch functions and works OK - Opened housing and found one side of bridge connection points have heat spots when the other side is OK - It is necessary to find out if this heat spot interfere with switch signal and how long it takes to set the code again.

One side contact point is OK (no heat spots)

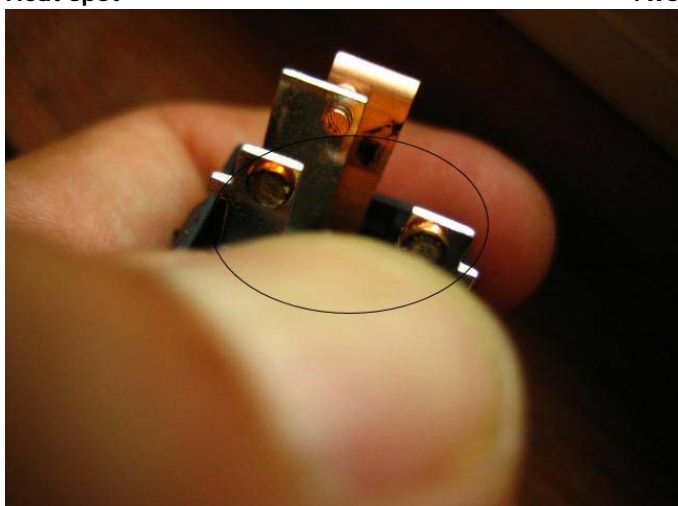
The other side of contact has heat spots



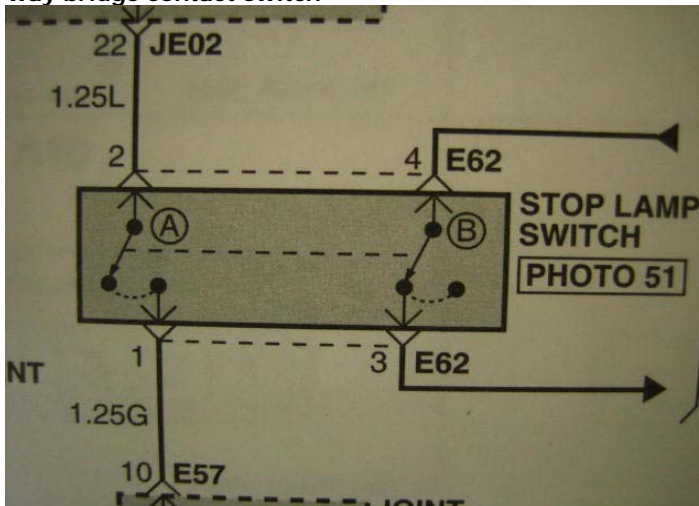
Heat spot



Two way bridge contact switch



(A) pin 1, 2 open with pedal not depressed (normal)

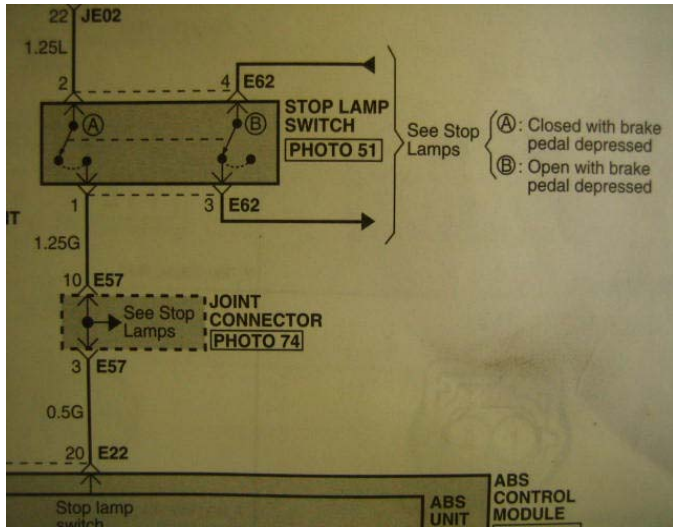


(A) pin 1, 2 closed with pedal depressed (normal)



ETM





**Corrective Action\*:**

Replaced brake lamp switch

**Reason(s) vehicle was not previously repaired:**

**Picture(s) and Attachment(s):**



IMG\_6948.jpg IMG\_6950.jpg IMG\_6952.jpg IMG\_6955.jpg IMG\_6963.jpg IMG\_6964.jpg IMG\_6965.jpg

Did this action resolve condition?  Yes  No

Condition verified by personal inspection of company employee?  Yes  No

Were Photos Taken?  Yes  No

Parts Inspected?  Yes  No

Parts Sent?  Yes  No

**5NPEU46F06HXXXXXX**





## FSE Report

Created by Mark Konenkamp on 04/11/2008 01:06:31 AM.

**\* Required Fields**

Submitted by Mark Konenkamp on 04/10/2008 10:10:02 PM. Finalized by Michael Porter on 04/25/2008 08:43:39 PM.

**This case was opened for 12 days.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
FL005	Sonata (NF)	2006	5NPEU46F06[REDACTED]	39,417	02/14/2006	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
1	High			Potential Buyback Prevention	Michael Porter

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
SWITCH ASSY-STOP LAMP	938103K000	BR03		03 Service brake system

Target Date:	Comment:
04/17/2008	4/17/08  DPSM inspected vehicle  Check for DTC's, including the ESC/ABS system. None  Complete a road-test, all systems function normal  FSE reviewed repairs with the DPSM. All indications are the ESC/ABS system has function as designed since completed repairs on 2/22/08

**Subject\*:**  
2006 NF Brake System

**Condition\*:**  
State Of Florida MVDN Inspection FL005 4-17-2008 Arlene Wolf  
  
Customer states: "brake Concerns"

**Vehicle History\*:**  
WBC032 MKONENKA1 Hyundai Motor America 4/10/2008  
MKONENKA Warranty Vehicle Information 20:23:55

-----< VEHICLE CLAIM HISTORY >-----

Dealer Claim Code	Repair Order Number	Repair Date	Repair Mileage	Repair Description
FL005 252378	252378	2/22/2008	39,417	SWITCH ASSY-STOP LAMP
FL005 247862	247862	11/19/2007	34,338	SWITCH ASSY-STOP LAMP
FL005 247933	247933	11/19/2007	34,339	BULBS (LH)
FL005 47862C	247862	11/19/2007	34,338	WIRE REPAIR TIME (MINOR)-ADJUST
FL005 244486	244486	9/11/2007	30,079	SWITCH ASSY-STOP LAMP
FL005 243960	243960	8/30/2007	29,412	SWITCH ASSY-STOP LAMP



FL005 231695 231695 1/20/2007 15,857 TENSIONER ASSY-TIMING CHAIN (BO  
FL005 224374 224374 9/20/2006 8,425 WEATHER STRIP ASSY-FRONT DOOR L  
VIN#: 5NPEU46F06H ██████████ Sonata (NF) V-6 2006 Wty Strt DT: 4/28/2006  
Orig Owner: ██████████ DMV Trnsfr DT:  
Transmission : Automatic  
Selling Dealer: FL005 RICK CASE HYUNDAI

**Root Cause Analysis\*:**

Brake switch intermittent open

**Corrective Action\*:**

Replaced the brake switch

**Reason(s) vehicle was not previously repaired:**

Brake switches not performing as designed.

**Picture(s) and Attachment(s):**

Did this action resolve condition?	<input type="radio"/> Yes <input type="radio"/> No
Condition verified by personal inspection of company employee?	<input type="radio"/> Yes <input type="radio"/> No
Were Photos Taken?	<input type="radio"/> Yes <input type="radio"/> No
Parts Inspected?	<input type="radio"/> Yes <input type="radio"/> No
Parts Sent?	<input type="radio"/> Yes <input type="radio"/> No

**5NPEU46F37HXXXXXX**



## FSE Report

Created by YeongJae Choe on 04/06/2007 09:50:54 AM.

### \* Required Fields

Submitted by YeongJae Choe on 04/06/2007 08:46:09 AM. Finalized by YeongJae Choe on 04/06/2007 08:46:09 AM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
IL018	Sonata	2007	5NPEU46F37H [REDACTED]	885	09/09/2006	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
5	Medium			FPOR	YeongJae Choe

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
SWITCH ASSY-STOP LAMP(4P)	938103K000	BR01	BR01	03 Service brake system

Target Date:	Comment:
04/06/2007	

### Subject\*:

2007 HD ELANTRA - C1513 Brake Lamp ABS code (Prod. 9/09/06)

### Condition\*:

ABS light was on and gone by the time the car came into the shop - But had code C1513 (stop lamp switch)

### Vehicle History\*:

!

### Root Cause Analysis\*:

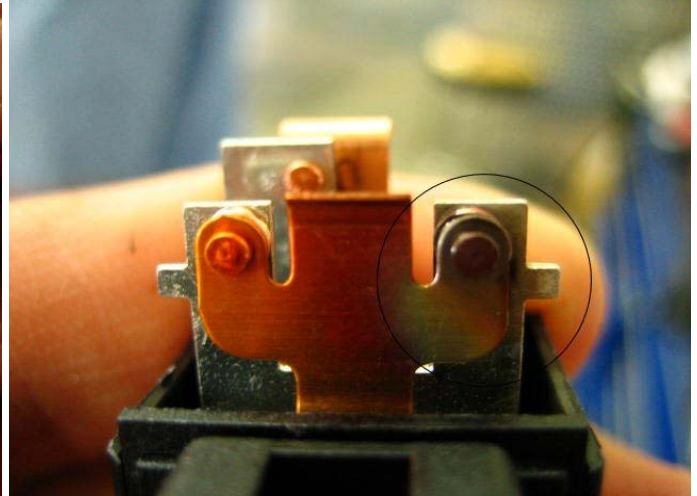
Found one of the prong (input to PCM) has heat spot - Heated prong surface intermittently doesn't allow secure connection - Customer says that ESC light was flashing (not staying on) and turned off by the time the vehicle arrived at dealer - But C1513 was set in ABS module

At this time pin 1, 2 (input to PCM) was OK

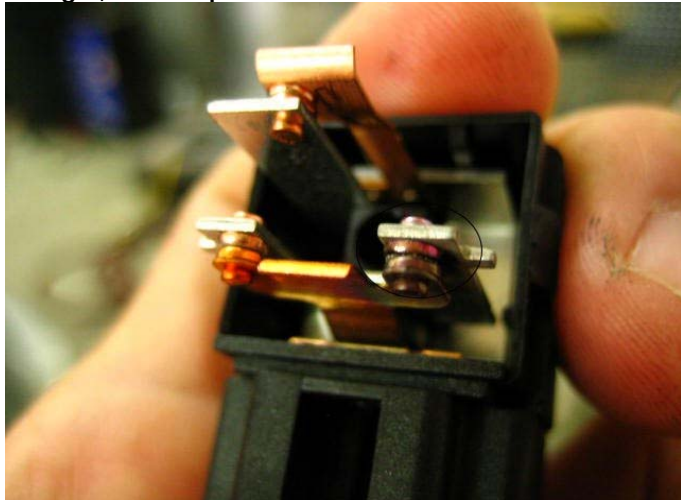
But RH side of prong 1, 2 has heat spots



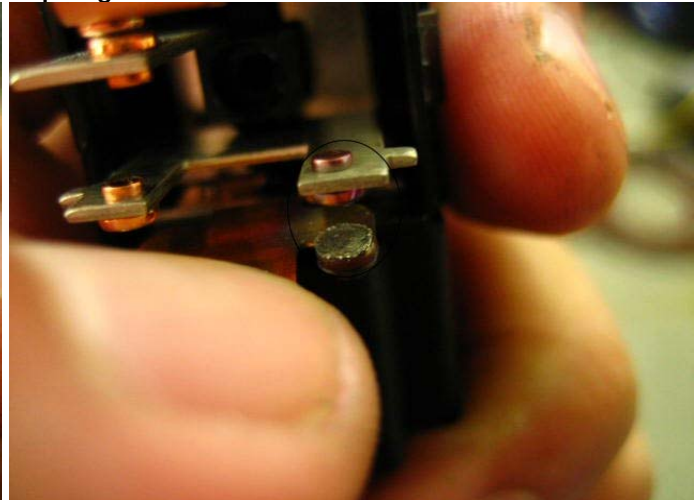
Prong 1, 2 heat spots



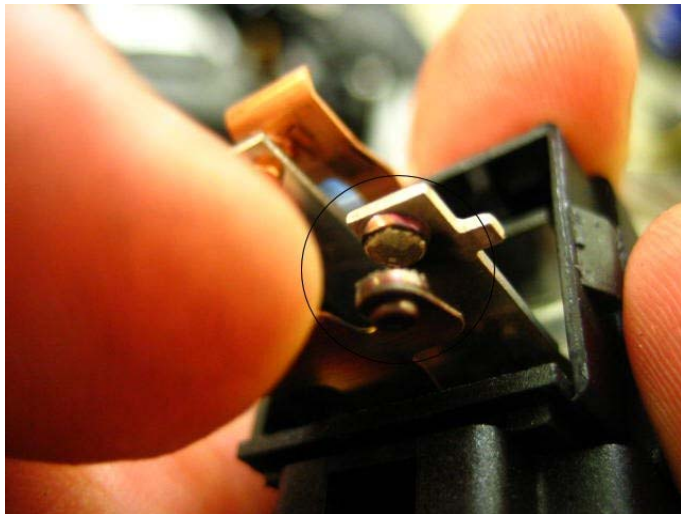
Heated prong surface



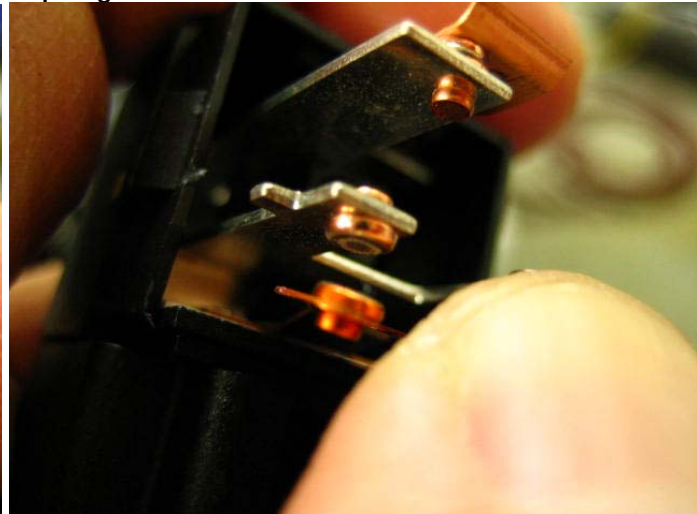
Heated surface doesn't allow secure contact



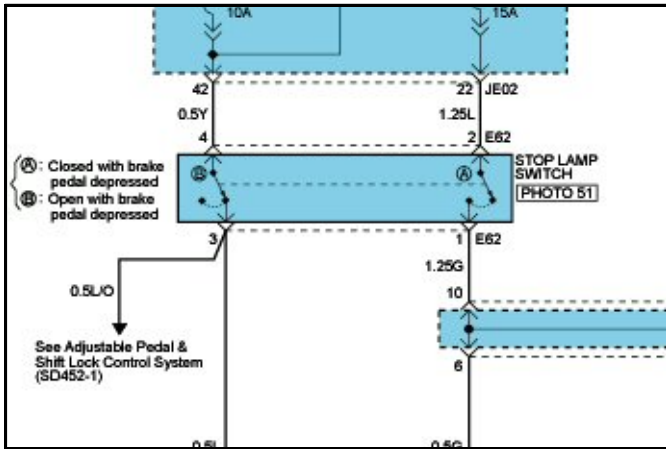
LH side prong still OK



Prong 1, 2 got heated (input to PCM)



Part usage



	PriorYR	CurrYR
APR	93	206
MAR	46	515
FEB	32	442
JAN	29	405
DEC	13	324
NOV	8	312
OCT	0	368
SEP	3	444
AUG	1	388
JUL	0	202
JUN	0	119
MAY	0	80
TTL	225	3805

**Corrective Action\*:**

Replaced brake lamp switch

**Reason(s) vehicle was not previously repaired:**

N/A

**Picture(s) and Attachment(s):**



Image2.jpg IMG\_0818.jpg IMG\_0819.jpg IMG\_0820.jpg IMG\_0821.jpg IMG\_0822.jpg IMG\_0823.jpg

Did this action resolve condition?  Yes  No

Condition verified by personal inspection of company employee?  Yes  No

Were Photos Taken?  Yes  No

Parts Inspected?  Yes  No

Parts Sent?  Yes  No

**5NPEU46F46HXXXXXX**



## FSE Report

Created by Donna Clark on 10/02/2007 10:35:03 AM.

### \* Required Fields

Submitted by Donna Clark on 10/02/2007 09:11:10 AM. Finalized by Joshua Graf on 10/10/2007 08:08:04 AM.

**This case was opened for 7 days.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
KS003	Sonata (NF)	2006	5NPEU46F46E [REDACTED]	37,800	10/03/2005	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
1	High	None	261248	Diagnostic Assistance	Joshua Graf

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
SWITCH ASSY-STOP LAMP[4P]	938103K000	BR01		11 Electrical system

Target Date:	Comment:
10/02/2007	FSE test drove vehicle approximately 250 miles while monitoring with GDS. No check engine light or ESC light came back on and no codes are stored in any system. Vehicle is operating as designed by manufacturer.

### Subject\*:

2006 NF Sonata - ESC light on with code C1513.

### Condition\*:

ESC light on with C1513.

### Vehicle History\*:

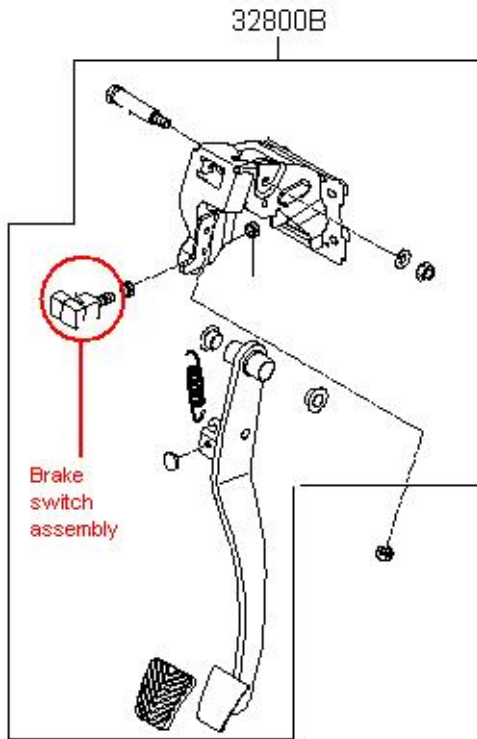
KS003	482981	8/17/2007	8/17/2007	37,759	HYDRAULIC MODULE ASSY	82981 A	SCHOLFIELD HYUNDAI
KS003	482981	8/17/2007	8/17/2007	37,759	HYDRAULIC MODULE ASSY	82981 A	SCHOLFIELD HYUNDAI
KS003	474431	4/23/2007	4/23/2007	30,964	PEDAL ASSY-ACCELERATOR	74431 A	SCHOLFIELD HYUNDAI
KS003	472849	3/29/2007	3/29/2007	30,214	JUNCTION BOX ASSY-I/PNL	72849 A	SCHOLFIELD HYUNDAI
					BODY		

KS003	464385	11/27/2006	11/27/2006	25,271	ASY-THROTTLE &/OR GSKT ADD	464385	SCHOLFIELD HYUNDAI
KS003	464385	11/27/2006	11/27/2006	25,271	BODY ASSY-THROTTLE AND/OR GASK	64385 A	SCHOLFIELD HYUNDAI
CO035	016537	10/31/2005	10/31/2005	8	PRE-DELIVERY INSPECTION/SERVIC	16537 A	LONGS PEAK HYUNDAI
AL531	260322	10/8/2005	10/8/2005	5	ROOF PANEL (WITH SUNROOF)	260322	MVP-MONTGOMERY VEH. PROCESSING

Cannot copy tech line report into this document.

**Root Cause Analysis\*:**

Intermittent open in brake switch assembly.



**Corrective Action\*:**

Replace brake switch assembly.

**Reason(s) vehicle was not previously repaired:**

This is a different issue than the vehicle has had previously.

**Picture(s) and Attachment(s):**





06 Sonata Brake Switch.JPG

<b>Did this action resolve condition?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<b>Condition verified by personal inspection of company employee?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<b>Were Photos Taken?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<b>Parts Inspected?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<b>Parts Sent?</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No

**5NPEU46F47HXXXXXX**



## FSE Report

Created by Roger LaFleur on 09/06/2007 12:08:47 PM.

### \* Required Fields

Submitted by Roger LaFleur on 09/06/2007 01:51:07 PM. Finalized by Roger LaFleur on 09/06/2007 01:51:07 PM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
NH009	Sonata (NF)	2007	5NPEU46F47E [REDACTED]	10,512	08/31/2006	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
10	High	1049732	250987 249201	Potential Buyback Prevention	Roger LaFleur

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
Brake Light Switch Assy	93810-3K000	BR03	C1513	03 Service brake system

Target Date:	Comment:
09/06/2007	FSE examined vehicle on 9-6-2007.  Body work done to vehicle at NH009 has been completed.

### Subject\*:

2007 NF Brake Lights

### Condition\*:

Repeating code C1513

### Vehicle History\*:

WBC032 RLAFLEUR1 Hyundai Motor America 9/06/2007  
 RLAFLEUR Warranty Vehicle Information 09:07:02

-----< VEHICLE CLAIM HISTORY >-----

Dealer Code	Claim Number	Repair Order	Repair Date	Repair Mileage	Operation Description
NH009	N3593A	113593	2/16/2007	4,138	SWITCH ASSY-STOP LAMP
NH009	NN462A	113462	2/13/2007	4,017	WIRE REPAIR TIME (MINOR)-ADJUST
NH009	L7527A	107527	12/20/2006	2,147	SWITCH ASSY-STOP LAMP
NH009	L6603A	106603	12/04/2006	1,357	SWITCH ASSY-STOP LAMP
NH009	219439	102946	10/06/2006	10	PRE-DELIVERY INSPECTION/SERVICE

VIN#: 5NPEU4 [REDACTED] Sonata (NF) V-6 2007 Wty Strt DT: 11/18/2006  
 Orig Owner: [REDACTED] DMV Trnsfr DT:  
 Transmission:  
 Selling Dealer: NH009 AUTOFAIR HYUNDAI

### Root Cause Analysis\*:

- Loose pins on brake light switch connector E62.
- FSE checked all other connector pin fit in the brake light circuit and found all others to be good.

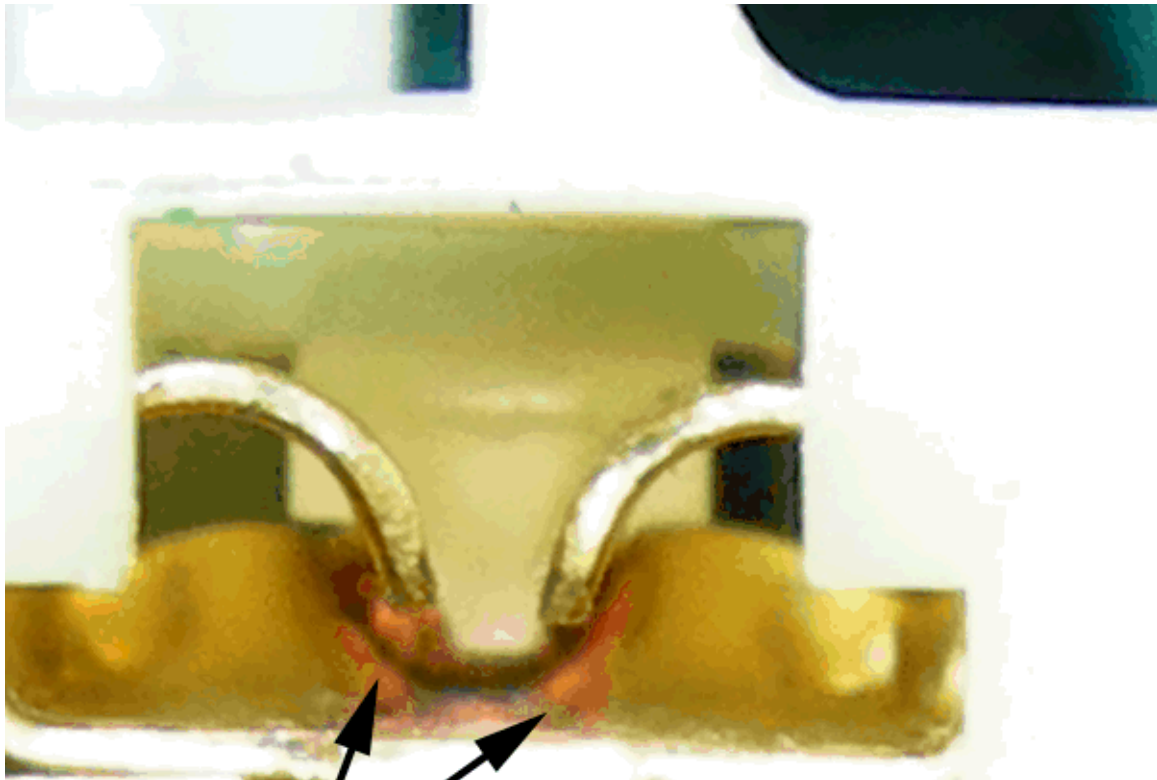
**Corrective Action\*:**

- Tighten pins on E62 connector and replace brake light switch.
- At this time the vehicle is operating as designed.

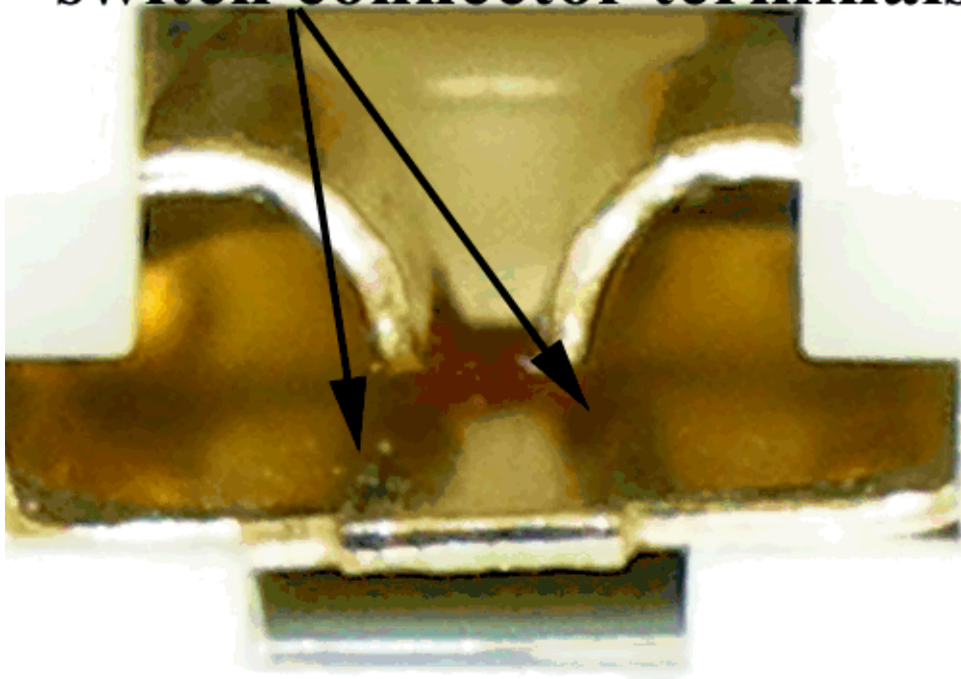
**Reason(s) vehicle was not previously repaired:**

N/A

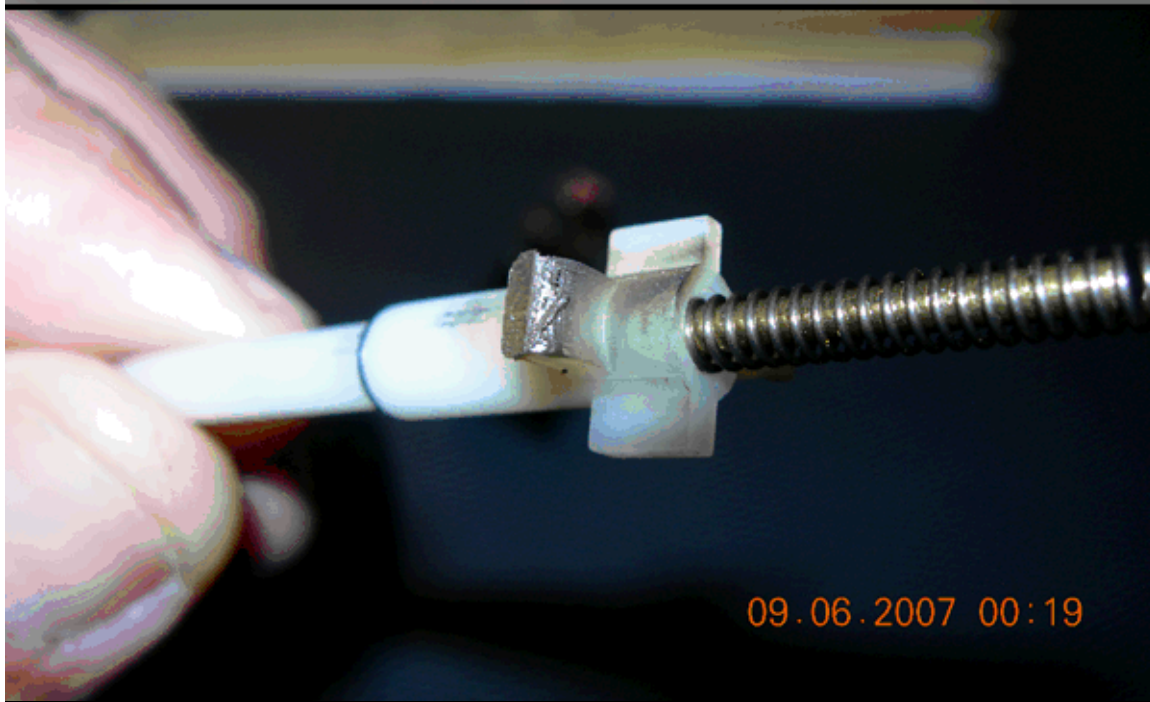
**Picture(s) and Attachment(s):**



**Burn marks on Brake light switch connector terminals.**



**Brake light switch plunger showing signs of burn from the switch contacts.**



09.06.2007 00:19

**Brake light switch contacts showing burn.  
Brake lights still worked on this vehicle.**



09.06.2007 00:18



<b>Did this action resolve condition?</b>	<input checked="" type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>
<b>Condition verified by personal inspection of company employee?</b>	<input checked="" type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>
<b>Were Photos Taken?</b>	<input checked="" type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>
<b>Parts Inspected?</b>	<input checked="" type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>
<b>Parts Sent?</b>	<input checked="" type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>

**5NPEU46F56HXXXXXX**





## FSE Report

Created by Harrison Aye on 10/14/2008 10:14:03 PM.

### \* Required Fields

Submitted by Harrison Aye on 10/16/2008. Finalized by Harrison Aye on 10/16/2008 04:37:23 PM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
TX062	Sonata (NF)	2006	5NPEU46F56H [REDACTED]	28,054	03/31/2006	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
7	High			VDS	Harrison Aye

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
STOP LAMP SWITCH ASSY	93810-3K000	EN02	P0504	03 Service brake system

Target Date:	Comment:
10/14/2008	

### Subject\*:

2006 NF SONATA - INOPERATIVE STOP LAMP SWITCH AND DTC P0504

### Condition\*:

- Customer stated that check engine light is coming on.
- DTC P0504 Brake Lamp Switch A/B Correlation was stored when technician scanned for codes.
- The stop lamp switch was found to be inoperative. The stop lamp switch was recently replaced 400 miles ago.
- The production lot number of recently installed inoperative stop lamp switch is "I8DX". was after the counter measure date.

### Vehicle History\*:

- Attached below is warranty repair history.

Dealer Code	Claim Number	Repair Order	Repair Date	Repair Mileage	Operation Description
TX062	10042A	510042	09/22/2008	27,688	SWITCH ASSY-STOP LAMP
TX062	L77582	477582	12/05/2006	6,792	SERVICE LOAN CAR CLAIM
TX062	77582B	477582	12/05/2006	6,792	LOCK ASSY-GLOVE BOX
TX062	75340A	475340	10/19/2006	4,396	BACK ASSY-FRONT SEAT (LH)
TX062	L72722	472722	08/28/2006	2,141	SERVICE LOAN CAR CLAIM
TX062	72722A	472722	08/28/2006	2,141	LID ASSY-GLOVE BOX
TX062	72722B	472722	08/28/2006	2,141	TRACK ASSY-FRONT SEAT (RH) R
TX062	72722E	472722	08/28/2006	2,141	TRACK ASSY-FRONT SEAT (LH)
TX062	466922	466922	05/09/2006		2PRE-DELIVERY INSPECTION/SERVICE

### Root Cause Analysis\*:

- It appears that the stop lamp switch is inoperative.

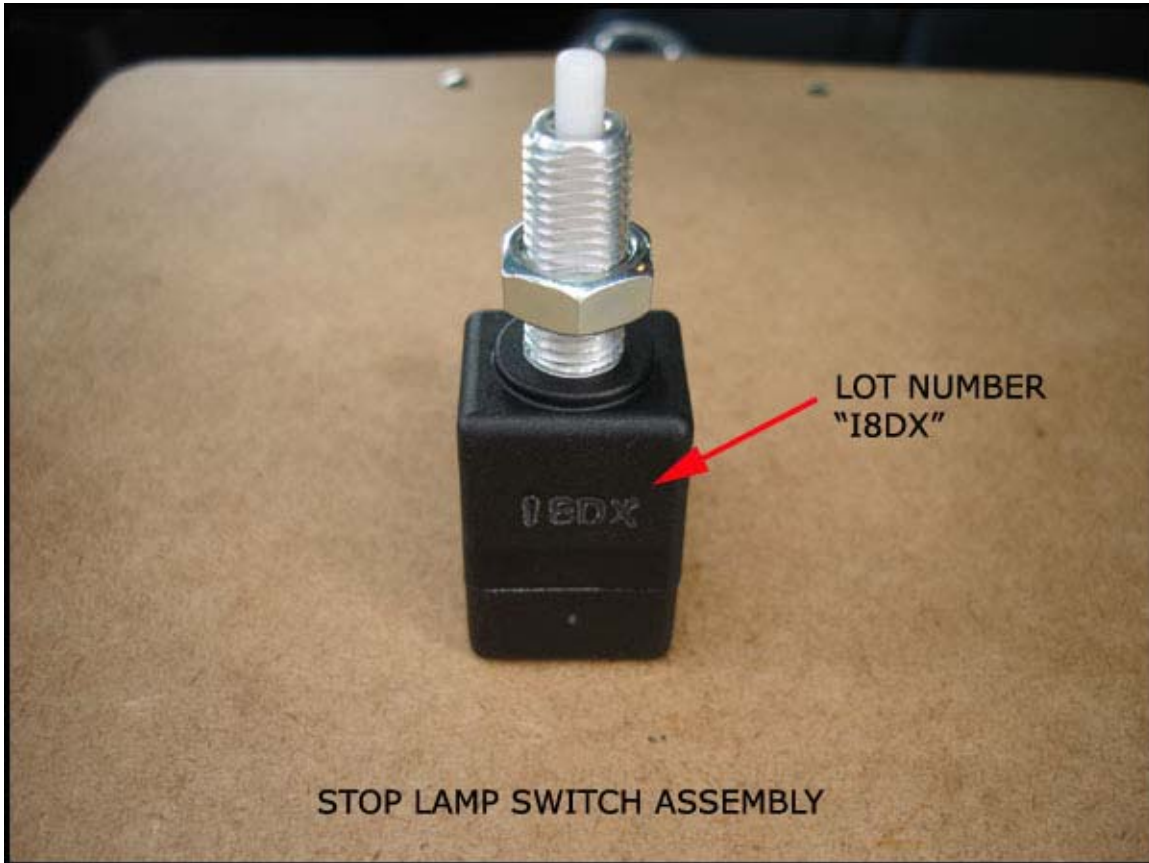
### Corrective Action\*:

- The stop lamp switch assembly was replaced.

**Reason(s) vehicle was not previously repaired:**

- It appears to be part quality issue.

**Picture(s) and Attachment(s):**



Did this action resolve condition?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Condition verified by personal inspection of company employee?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Were Photos Taken?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Parts Inspected?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Parts Sent?	<input checked="" type="radio"/> Yes <input type="radio"/> No

**5NPEU46F66HXXXXXX**



## FSE Report

Created by Mark Konenkamp on 08/17/2006 01:24:14 AM.

**\* Required Fields**

Submitted by Mark Konenkamp on 08/16/2006. Finalized by Mark Konenkamp on 08/16/2006 10:26:08 PM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
FL005	Sonata	2006	5NPEU46F66H [REDACTED]	2,876	08/08/2006	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
1	High			Vehicle Down	Mark Konenkamp

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
				99 Other

Target Date:	Comment:
08/17/2006	

**Subject\*:**

State Of Florida MVDN Inspection 8-8-2006 FL005 Gantt,Cyrus..

**Condition\*:**

**Buy Back Prevention**

Dealer Code:	FL005	Dealer Name:	RICK CASE OF PLANTATION HYUNDAI, INC.
Region Code:	S	DPSM:	DAN HICKS
District Code:	B	Soc. Sec. Number:	
Salutation:	<input type="radio"/> Mr <input type="radio"/> Mrs <input type="radio"/> Ms	First Name:	Service Manager
Middle Name:		Last Name:	
Dealer Phone #:	(954) 581-5885	Fax:	
Urgency:	Normal	E Mail:	

Model Year:	06	Model:	SONATA
VIN Check VIN:	5NPEU46F66H [REDACTED]	Miles:	2876
	17 digits		

Part Number:		Production Date:	
Customer Name:	[REDACTED]	Repair Order #:	
Condition:	Brakes - Noise	Component Code: (UPC)	0000
Condition Code:	BR05	Diagnostic Code	

<b>Description:</b>	State Of Florida MVDN Inspection 8-8-2006 FL005 Gantt,Cyrus... Customer states: "ABS Light/Brakes squeaking" Note: Dealer never called Tech Line on this case.
---------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------

<b>Recommendation:</b>	Mark Konenkamp on 08/09/2006 07:16:59 PM: Technician inspected vehicle and found Brake switch code. TSB 06-50-006 has been done.
------------------------	-------------------------------------------------------------------------------------------------------------------------------------

(DESCRIPTION: This TSB describes the procedure to adjust the stop lamp switch. In most cases, proper adjustment of the stop lamp switch will resolve DTC's P0504 (brake switch) and C1513 (brake light switch) without unnecessary replacement of the stop lamp switch. If the vehicle exhibits inoperative brake lights or DTC codes P0504 or C1513 use the following procedure to ensure proper diagnosis. NOTE: Two stop lamp switches have been installed on 2006 Sonatas.) Advised technician to replace fuse box and control harness. Technician to check all other connections in system..

<----->

Mark Konenkamp on 08/04/2006 09:38:27 AM:  
WBC032 MKONENKA1 Hyundai Motor America 8/04/2006  
MKONENKA Warranty Vehicle Information 06:34:51

-----< VEHICLE CLAIM HISTORY >-----

Dealer Claim Code	Repair Number	Repair Order	Repair Date	Repair Mileage	Operation Description
FLO05	20464G	220464	7/18/2006	2,876	HOUSING-GLOVE BOX
FLO05	19419F	219419	6/30/2006	2,556	SERVICE LOAN CAR CLAIM
FLO05	19419G	219419	6/30/2006	2,556	FRT DR "POWER" WINDOW REG. ASS'
FLO05	16982F	216982	5/19/2006	2,050	SERVICE LOAN CAR CLAIM
FLO05	16982G	216982	5/19/2006	2,048	STOP LAMP SWITCH ASS'Y
FLO05	13681F	213681	3/28/2006	1,154	WIRE REPAIR TIME (MAJOR)
FLO05	13681H	213681	3/28/2006	1,156	SERVICE LOAN CAR CLAIM
FLO05	11498G	211498	2/25/2006	273	WIRE REPAIR TIME (MINOR)

VIN#: 5NPEU46F66H [REDACTED] Sonata (NF) V-6 2006 Wty Strt DT: 1/31/2006  
Orig Owner: [REDACTED] DMV Trnsfr DT:  
Transmission : Automatic  
Selling Dealer: FLO05 RICK CASE HYUNDAI

<----->

[Close](#)

Call Status : Open

Modified on : 08/04/2006 07:03:58 AM by: Mark Konenkamp  
08/09/2006 04:17:02 PM - Mark Konenkamp

Technician inspected vehicle and found Brake switch code. TSB 06-50-006 has been done. (DESCRIPTION: This TSB describes the procedure to adjust the stop lamp switch. In most cases, proper adjustment of the stop lamp switch will resolve DTC's P0504 (brake switch) and C1513 (brake light switch) without unnecessary replacement of the stop lamp switch. If the vehicle exhibits inoperative brake lights or DTC codes P0504 or C1513 use the following procedure to ensure proper diagnosis. NOTE: Two stop lamp switches have been installed on 2006 Sonatas.) Advised technician to replace fuse box and control harness. Technician to check all other connections in system..235141

MARK KONENKAMP ON 08/09/2006 07:16:59 PM: TECHNICIAN INSPECTED VEHICLE AND FOUND BRAKE SWITCH CODE. TSB 06-50-006 HAS BEEN DONE. (DESCRIPTION: THIS TSB DESCRIBES THE PROCEDURE TO ADJUST THE STOP LAMP SWITCH. IN MOST CASES, PROPER ADJUSTMENT OF THE STOP LAMP SWITCH WILL RESOLVE DTC'S P0504 (BRAKE SWITCH) AND C1513 (BRAKE LIGHT SWITCH) WITHOUT UNNECESSARY REPLACEMENT OF THE STOP LAMP SWITCH. IF THE VEHICLE EXHIBITS INOPERATIVE BRAKE LIGHTS OR DTC CODES P0504 OR C1513 USE THE FOLLOWING PROCEDURE TO ENSURE PROPER DIAGNOSIS. NOTE: TWO STOP LAMP SWITCHES HAVE BEEN INSTALLED ON 2006 SONATAS.) ADVISED TECHNICIAN TO REPLACE FUSE BOX AND CONTROL HARNESS. TECHNICIAN TO CHECK ALL OTHER CONNECTIONS IN SYSTEM.. <-----> MARK KONENKAMP ON 08/04/2006 09:38:27 AM: WBC032 MKONENKA1 HYUNDAI MOTOR AMERICA 8/04/2006 MKONENKA WARRANTY VEHICLE INFORMATION 06:34:51 -----< VEHICLE CLAIM HISTORY >----- DEALER CLAIM REPAIR REPAIR REPAIR OPERATION CODE NUMBER ORDER DATE MILEAG

----- Forwarded by Mark Konenkamp/Service/HMA-HQ/Hyundai on 08/14/2006 03:20 PM -----

Case No.: 235904 Date & Time Opened: 08/04/2006 06:43 AM by: Mark Konenkamp

Vehicle History\*:

Root Cause Analysis\*:

Corrective Action\*:

**Reason(s) vehicle was not previously repaired:**

**Picture(s) and Attachment(s):**

<b>Did this action resolve condition?</b>	<input type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>
<b>Condition verified by personal inspection of company employee?</b>	<input type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>
<b>Were Photos Taken?</b>	<input type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>
<b>Parts Inspected?</b>	<input type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>
<b>Parts Sent?</b>	<input type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>



## FSE Report

Created by Barbara Lenderman on 10/04/2006 09:09:20 AM.

### \* Required Fields

Submitted by Barbara Lenderman on 10/04/2006 06:33:19 AM. Finalized by Michael Porter on 10/31/2006 09:44:23 AM.

**This case was opened for 20 days.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
FL005	Sonata	2006	5NPEU46F66H [REDACTED]	3,170	09/26/2005	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
1	Low	973644	235903	Buyback Inspection	Michael Porter

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
		BR03	BR03	11 Electrical system

Target Date:	Comment:
10/04/2006	<p>FTS review repair with Service manager</p> <p>All concerns corrected in previous repairs</p> <p>Vehicle ready for pick-up</p>

**Subject\*:**  
2006 Sonata- a. Brake concern, b. passenger window squeaks

**Condition\*:**  
a. ABS light on setting DTC P0504 and C1513  
b. Passenger window squeaks when going up & down

**Vehicle History\*:**  
**Case No.:** 235903 **Date & Time Opened:** 08/04/2006 09:34 AM by: Mark Konenkamp

<b>Dealer Code:</b>	FL005	<b>Dealer Name:</b>	RICK CASE OF PLANTATION HYUNDAI, INC.
<b>Region Code:</b>	S	<b>DPSM:</b>	DAN HICKS
<b>District Code:</b>	B	<b>Soc. Sec. Number:</b>	
<b>Salutation:</b>	<input type="radio"/> Mr <input type="radio"/> Mrs <input type="radio"/> Ms	<b>First Name:</b>	Service Manager
<b>Middle Name:</b>		<b>Last Name:</b>	
<b>Dealer Phone #:</b>	(954) 581-5885	<b>Fax:</b>	
<b>Urgency:</b>	Normal	<b>E Mail:</b>	

<b>Model Year:</b>	06	<b>Model:</b>	SONATA
<b>VIN Check VIN:</b>	5NPEU46F66H [REDACTED]	<b>Miles:</b>	2876
	17 digits		

<b>Part Number:</b>		<b>Production Date:</b>	
<b>Customer Name:</b>	[REDACTED]	<b>Repair Order #:</b>	
<b>Condition:</b>	Brakes - Noise	<b>Component Code:</b>	0000

	(UPC)
Condition Code: BR05	Diagnostic Code

**Description:** State Of Florida MVDN Inspection 8-8-2006 FLO05 Gantt,Cyrus... Customer states: "ABS Light/Brakes squeaking" Note: Dealer never called Tech Line on this case.

**Recommendation:**

Mark Konenkamp on 08/09/2006 07:16:59 PM:  
 Technician inspected vehicle and found Brake switch code. TSB 06-50-006 has been done. (DESCRIPTION: This TSB describes the procedure to adjust the stop lamp switch. In most cases,proper adjustment of the stop lamp switch will resolve DTC's P0504 (brake switch) andC1513 (brake light switch) without unnecessary replacement of the stop lamp switch.If the vehicle exhibits inoperative brake lights or DTC codes P0504 or C1513 use the following procedure to ensure proper diagnosis.NOTE: Two stop lamp switches have been installed on 2006 Sonatas.) Advised technician to replace fuse box and control harness. Technician to check all other connections in system..

<----->

Mark Konenkamp on 08/04/2006 09:38:27 AM:  
 WBC032 MKONENKA1 Hyundai Motor America 8/04/2006  
 MKONENKA Warranty Vehicle Information 06:34:51

-----< VEHICLE CLAIM HISTORY >-----

Dealer Claim Code	Repair Order Number	Repair Order	Repair Date	Repair Mileage	Operation Description
FLO05	20464G	220464	7/18/2006	2,876	HOUSING-GLOVE BOX
FLO05	19419F	219419	6/30/2006	2,556	SERVICE LOAN CAR CLAIM
FLO05	19419G	219419	6/30/2006	2,556	FRT DR "POWER" WINDOW REG. ASS'
FLO05	16982F	216982	5/19/2006	2,050	SERVICE LOAN CAR CLAIM
FLO05	16982G	216982	5/19/2006	2,048	STOP LAMP SWITCH ASS'Y
FLO05	13681F	213681	3/28/2006	1,154	WIRE REPAIR TIME (MAJOR)
FLO05	13681H	213681	3/28/2006	1,156	SERVICE LOAN CAR CLAIM
FLO05	11498G	211498	2/25/2006	273	WIRE REPAIR TIME (MINOR)

VIN#: 5NPEU46F66H- ██████████ Sonata (NF) V-6 2006 Wty Strt DT: 1/31/2006  
 Orig Owner: ██████████ DMV Trnsfr DT:  
 Transmission : Automatic  
 Selling Dealer: FLO05 RICK CASE HYUNDAI

<----->

[Close](#)

Call Status : Open

Modified on :08/04/2006 10:03:58 AM by:Mark Konenkamp

08/09/2006 04:17:02 PM - Mark Konenkamp

inspected vehicle and found Brake switch code. TSB 06-50-006 has been done. (DESCRIPTION: This TSB describes the procedure to adjust the stop lamp switch. In most cases,proper adjustment of the stop lamp switch will resolve DTC's P0504 (brake switch) andC1513 (brake light switch) without unnecessary replacement of the stop lamp switch.If the vehicle exhibits inoperative brake lights or DTC codes P0504 or C1513 use the following procedure to ensure proper diagnosis.NOTE: Two stop lamp switches have been installed on 2006 Sonatas.) Advised technician to replace fuse box and control harness. Technician to check all other connections in system..235141

MARK KONENKAMP ON 08/09/2006 07:16:59 PM: TECHNICIAN INSPECTED VEHICLE AND FOUND BRAKE SWITCH CODE. TSB 06-50-006 HAS BEEN DONE. (DESCRIPTION: THIS TSB DESCRIBES THE PROCEDURE TO ADJUST THE STOP LAMP SWITCH. IN MOST CASES,PROPER ADJUSTMENT OF THE STOP LAMP SWITCH WILL RESOLVE DTC'S P0504 (BRAKE SWITCH) ANDC1513 (BRAKE LIGHT SWITCH) WITHOUT UNNECESSARY REPLACEMENT OF THE STOP LAMP SWITCH.IF THE VEHICLE EXHIBITS INOPERATIVE BRAKE LIGHTS OR DTC CODES P0504 OR C1513 USE THE FOLLOWING PROCEDURE TO ENSURE PROPER DIAGNOSIS.NOTE: TWO STOP LAMP SWITCHES HAVE BEEN INSTALLED ON 2006 SONATAS.) ADVISED TECHNICIAN TO REPLACE FUSE BOX AND CONTROL HARNESS. TECHNICIAN TO CHECK ALL OTHER CONNECTIONS IN SYSTEM.. <-----> MARK KONENKAMP ON 08/04/2006 09:38:27 AM: WBC032 MKONENKA1 HYUNDAI MOTOR AMERICA 8/04/2006 MKONENKA WARRANTY VEHICLE INFORMATION 06:34:51 -----< VEHICLE CLAIM HISTORY >----- DEALER CLAIM REPAIR REPAIR REPAIR OPERATION CODE NUMBER ORDER DATE MILEAG



**Root Cause Analysis\*:**

- a. stop lamp switch or brake switch not performing to specification
- b. window regulator noisy

**Corrective Action\*:**

- a. Replaced stop lamp and brake light switches
- b. Replaced window regulator

**Reason(s) vehicle was not previously repaired:**

n/a

**Picture(s) and Attachment(s):**

n/a

<b>Did this action resolve condition?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<b>Condition verified by personal inspection of company employee?</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No
<b>Were Photos Taken?</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No
<b>Parts Inspected?</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No
<b>Parts Sent?</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No

**5NPEU46F66HXXXXXX**



## FSE Report

Created by Rolf Brandt on 11/24/2008 02:32:02 PM.

### \* Required Fields

Submitted by Rolf Brandt on 11/24/2008 03:08:22 PM. Finalized by Rolf Brandt on 11/24/2008 03:08:22 PM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
WA033	Sonata (NF)	2006	5NPEU46F66H [REDACTED]	32,502	10/21/2005	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
7	Medium			VDS	Rolf Brandt

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
Brake Light Switch	93810-3K000	BR01	C1513	03 Service brake system

Target Date:	Comment:
11/24/2008	

### Subject\*:

2006 NF SONATA - ABS AND ESC LIGHTS ON - C1513

### Condition\*:

Customer concern of the ABS light and the ESC light on.

### Vehicle History\*:

Dealer Code	Claim Number	Repair Order	Repair Date	Repair Mileage	Operation Description
WA033	33308A	033308	11/13/2006	3,908	AMP ASSY-GLASS ANTENNA (RH)
WA036	1230P1	064299	12/30/2005		6PRE-DELIVERY INSPECTION/SERVICE

### Root Cause Analysis\*:

Dealer interrogated vehicle fault memory and observed diagnostic trouble code (DTC) C1513 (Brake Switch Error) present.

### Corrective Action\*:

Replaced brake light switch.

### Reason(s) vehicle was not previously repaired:

First repair for this concern.

### Picture(s) and Attachment(s):



Vehicle Durability Study 6057557.doc VDS 6057557 (1).JPG VDS 6057557 (2).JPG VDS 6057557.JPG

<b>Did this action resolve condition?</b>	<input checked="" type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>
<b>Condition verified by personal inspection of company employee?</b>	<input type="radio"/> <b>Yes</b> <input checked="" type="radio"/> <b>No</b>
<b>Were Photos Taken?</b>	<input checked="" type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>
<b>Parts Inspected?</b>	<input checked="" type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>
<b>Parts Sent?</b>	<input checked="" type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>

**5NPEU46F96HXXXXXX**



## FSE Report

Created by Carol Gustafson on 04/25/2007 10:31:07 AM.

### \* Required Fields

Submitted by Carol Gustafson on 04/25/2007 10:35:51 AM. Finalized by Rolf Brandt on 05/01/2007 10:13:48 PM.

**This case was opened for 5 days.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
CA077	Sonata (NF)	2006	5NPEU46F96H [REDACTED]	61,673	08/30/2005	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
10	High	1047741	261342	Consumer Affairs	Rolf Brandt

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
Control Wiring Harness	91410-0A010	EN02	P2106	11 Electrical system
Brake Light Switch	93810-3K000		P2127	
			P2138	
			C1513	

Target Date:	Comment:
04/25/2007	<p>4/25/07 Spoke to Service Manager, Matt.</p> <ul style="list-style-type: none"> <li>• FTS will visit dealer to assist with diagnosis on Monday, 4/30/07.</li> </ul>

### Subject\*:

2006 NF SONATA - CHECK ENGINE LIGHT AND ESC LIGHT

### Condition\*:

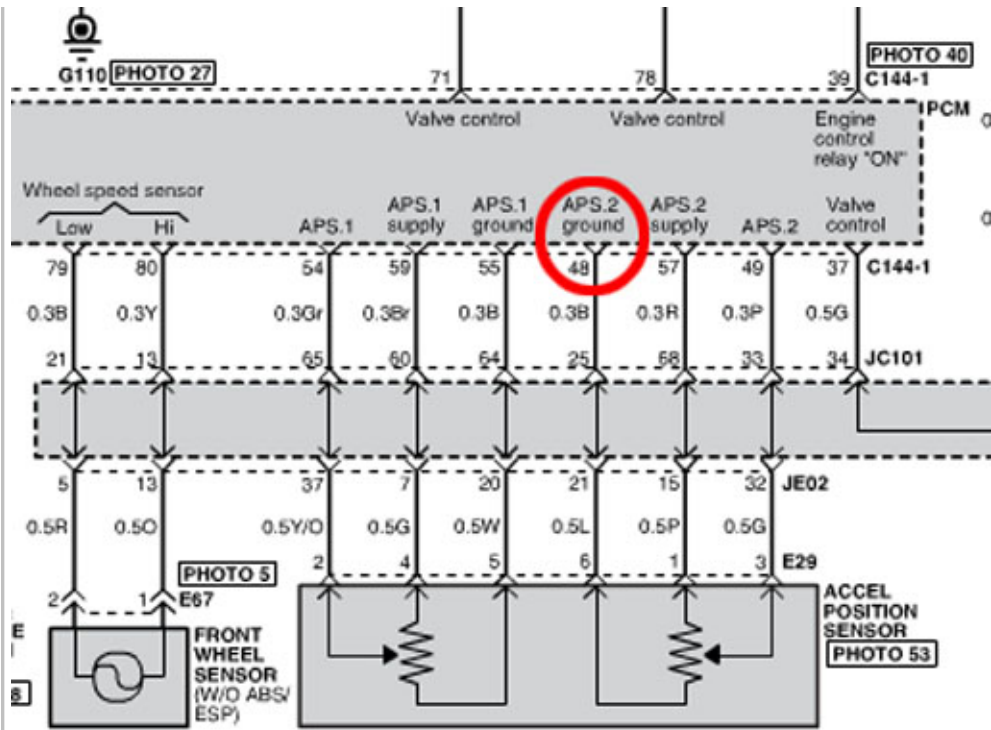
4/25/07 Dealer states, after driving a distance and starting to brake ESC & Check Engine Light come on. Vehicle will then lose performance power. Turn veh off, and restart, lights off, run's OK.

### Vehicle History\*:

CA077	117019	117019	4/16/2007	59,970	JUNCTION BOX ASSY-I/PNL
CA077	116470	116470	3/30/2007	57,621	BODY ASSY-THROTTLE AND/OR GASKE
CA077	112567	112567	12/07/2006	40,048	BULB-HEAD LAMP (RH)
CA077	12567B	112567	12/07/2006	40,048	BULB-HEAD LAMP (RH)
CA077	111432	111432	11/02/2006	34,133	MOTOR & PUMP ASSY-WINDSHIELD WA
CA077	01956A	101956	1/24/2006	6	REPL. FRT CHROME DOOR HANDLE (0
CA077	01034A	101034	12/29/2005	6	FRONT CUPHOLDER FLAP REPL. (05-
CA077	00747A	100747	12/21/2005	5	PCM REPROGRAMMING INSTRUC. (05-
CA077	99829A	099829	11/25/2005	5	INSPECTION SHEET COMPLETION
CA077	99098A	099098	11/07/2005	5	PRE-DELIVERY INSPECTION/SERVICE

### Root Cause Analysis\*:

- At previous visits technician interrogated fault memory and observed diagnostic trouble codes (DTC) P2106 (Electronic throttle control system forced limited power), P2127 (Throttle pedal position sensor "E" circuit low input) and P2138 (Throttle pedal position sensor "D"/"E" voltage correlation).
- At this visit, 2000 miles later, DTC C1513 (brake light switch) was present.
- Tested electrical connections for proper tension at powertrain control module (PCM) connector C144-1 and found loose pin tension at pin #48.



**Corrective Action\*:**

Suggested dealer replace control wiring harness and brake light switch.

**Reason(s) vehicle was not previously repaired:**

Technician did not fully understand DTCs.

**Picture(s) and Attachment(s):**



Hyundai Tech Line



ETM.jpg

Did this action resolve condition?	<input type="radio"/> Yes <input type="radio"/> No
Condition verified by personal inspection of company employee?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Were Photos Taken?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Parts Inspected?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Parts Sent?	<input type="radio"/> Yes <input checked="" type="radio"/> No

**KM8JM12B16UXXXXXX**





## FSE Report

Created by Rodney Helgeson on 12/15/2006 01:15:08 PM.

### \* Required Fields

Submitted by Rodney Helgeson on 12/15/2006 11:52:56 AM. Finalized by Rodney Helgeson on 12/15/2006 11:52:56 AM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
KY005	Tucson	2006	KM8JM12B16U [REDACTED]	8,832	01/06/2006	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
1	N/A	n/a	250189	Diagnostic Assistance	Rodney Helgeson

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
switch	93810-3K000	ELO4	ELO4	999 N/A

Target Date:	Comment:
12/15/2006	(similar concern with XG350 and Santafe 3.5L)

### Subject\*:

2006 TUCSON-- CRUISE CONTROL

### Condition\*:

Intermittently the cruise control will turn off completely while driving. Intermittently cruise will not set

### Vehicle History\*:

KY005 A30281 230281 5/23/2006 1,003 BLADE-REAR WINDOW WIPER  
 KY005 27653A 227653 3/15/2006 2 PRE-DELIVERY INSPECTION/SERVICE

Case No.: 250189 Date & Time Opened: 12/13/2006 05:53 AM by: Neil Pennell

Dealer Code:	KY005	Dealer Name:	GLENN HYUNDAI
Region Code:	C	DPSM:	SCOTT MCLARTY
District Code:	C	Soc. Sec. Number:	
Salutation:	<input type="radio"/> Mr <input type="radio"/> Mrs <input type="radio"/> Ms	First Name:	Ethan
Middle Name:		Last Name:	
Dealer Phone #:	(859) 263-5022	Fax:	(859) 263-5248
Urgency:	Normal	E Mail:	

Model Year:	06	Model:	TUCSON
VIN Check VIN:	KM8JM12B16U [REDACTED]	Miles:	8832
	17 digits		

Part Number:		Production Date:	
Customer Name:		Repair Order #:	
Condition:	Cruise Control Malfunction	Component Code: (UPC)	
Condition Code:	ELO4	Diagnostic Code	

Description:	Cruise Inop. Module and switch replaced. Tech states set light turns on and when set button is pressed, set light flickers on then both go off.
--------------	-------------------------------------------------------------------------------------------------------------------------------------------------

\*replaced the cruise module  
\*replaced the multifunction sw  
\*hi-scan data, brake sw on/off  
\*conn C156 pin 10 = 13.3v in "D" m= should have no voltage  
\*said PRNDL on hi-scan is working.

Mike Ugalde on 12/13/2006 01:20:55 PM:  
Tech states: pin 11 cruise on = 4.5v, press set = 1.5v  
lost phone connection.

**Recommendation:**

James Woolard on 12/14/2006 10:45:30 AM:  
Tech states he had removed pin ten and cruise worked. tech replaced the transaxle range switch and cruise was working fine. Tech states now cruise is intermittent it will set then shut off.

ADV: Monitor voltage at pin 7 and 11 when cruise shuts off.  
<---->

Carl Jennings on 12/13/2006 02:09:24 PM:  
Tech states range switch in adjusted correctly.  
No after market items on car OR led's Brake lights

Adv tech to remove pin 10 @ c156 Does cruise work?  
Check volt on pin 10 = 12v?0v? SD964-1

<---->

Randy Pizarro on 12/13/2006 01:40:04 PM:  
Advise: ck conn MC02, ck conn C56 pin 6, Readjust the PRNDL sw refer to TSB 03-40-013  
<---->

Mike Mcelfresh on 12/13/2006 09:43:40 AM:  
Tech states all pins are as expected except pin-10. He also had a P0708 but it has not reset.  
Pin-10: crank=12v neutral=0.75v running@neutral=0.88v running@drive=12v  
ADV: Tech comparing pin-10 voltage on like unit under same conditions.  
ETM SD964-1

<---->

Neil Pennell on 12/13/2006 06:28:34 AM:  
tech checking module voltages at conn C156 pins 7,2,8, brake switch pins 1,5, pin 10 and VSS signal pin 4.

<---->

**Close**

**Call Status : Open**

Modified on : 12/13/2006 02:09:21 PM by: James Woolard  
12/14/2006 10:40:51 AM - James Woolard

Tech states he had re

replaced the transaxle range switch and cruise was working fine. Tech states now cruise is intermittent it will set then shut off.  
ADV: Monitor voltage at pin 7 and 11 when cruise shuts off.250188

JAMES WOOLARD ON 12/14/2006 10:45:30 AM: TECH STATES HE HAD REMOVED PIN TEN AND CRUISE WORKED. TECH REPLACED THE TRANSAXLE RANGE SW  
STATES NOW CRUISE IS INTERMITTENT IT WILL SET THEN SHUT OFF. ADV: MONITOR VOLTAGE AT PIN 7 AND 11 WHEN CRUISE SHUTS OFF. <----> CARL JENN  
STATES RANGE SWITCH IN ADJUSTED CORRECTLY. NO AFTER MARKET ITEMS ON CAR OR LED'S BRAKE LIGHTS ADV TECH TO REMOVE PIN 10 @ C156 DOES CR  
12V?0V? SD964-1 <----> RANDY PIZARRO ON 12/13/2006 01:40:04 PM: ADVISE: CK CONN MC02, CK CONN C56 PIN 6, READJUST THE PRNDL SW REFER TO T  
12/13/2006 09:43:40 AM: TECH STATES ALL PINS ARE AS EXPECTED EXCEPT PIN-10. HE ALSO HAD A P0708 BUT IT HAS NOT RESET. PIN-10: CRANK=12V NEU  
RUNNING@DRIVE=12V ADV: TECH COMPARING PIN-10 VOLTAGE ON LIKE UNIT UNDER SAME CONDITIONS. ETM SD964-1 <----> NEIL PENNELL ON 12/13/200



# WPC for HMA

PARTS CATALOG PARTS INFORMATION TECHNICAL INQUIRY

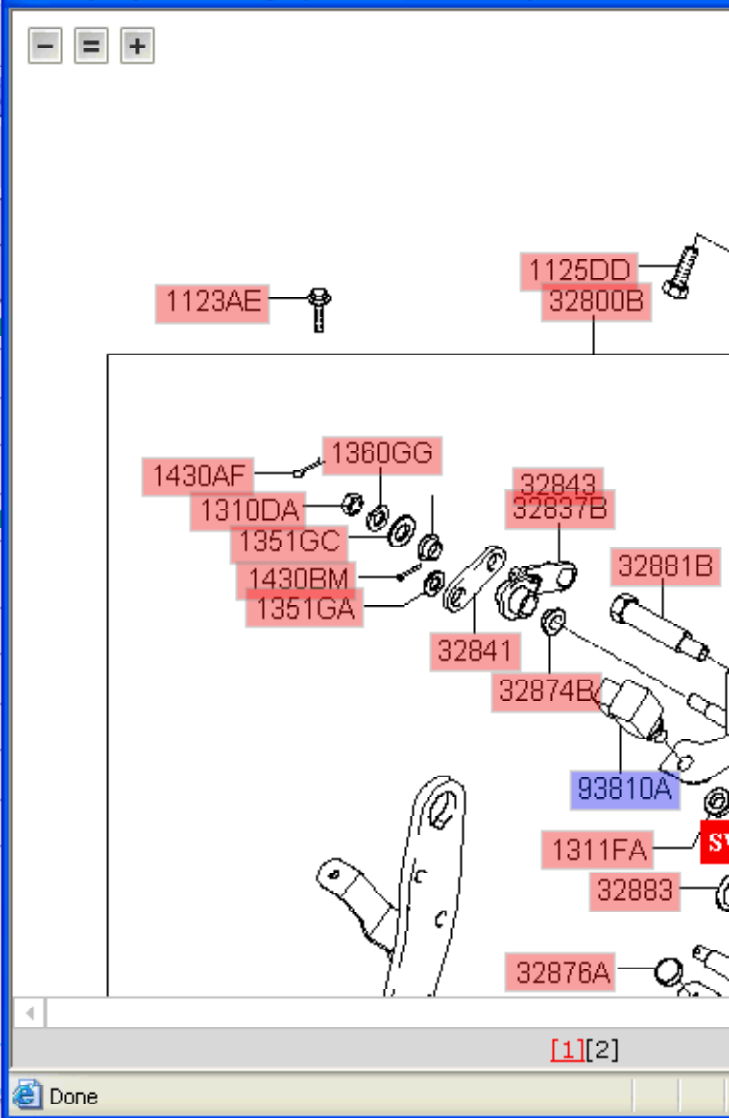
Web Parts Catalog\_Hyundai Motor America Model Selection | Part Searching

TUCSON>01/06/2006>NW>NW>U7>LHD>5DOOR WAGON



Part No  Part Name SWITCH

Group	PNC	ITC	Part No
From-To			
20-211	<a href="#">94750</a>		SWITCH ASSY-OIL PRESSUR
08/09/2004 -			9475021030
39-361	<a href="#">36120</a>		SWITCH ASSY-STARTER MAG
08/09/2004 -			3612023002
41-328	<a href="#">93810A</a>		SWITCH ASSY-STOP LAMP[4
04/04/2005 -			<a href="#">938103K000</a>
43-439	<a href="#">46780C</a>		SWITCH HOUSING ASSY
08/09/2004 - 03/19/2006			467802E000
43-452	<a href="#">45956B</a>		SWITCH-INHIBITOR
08/09/2004 -			4270039050
43-462	<a href="#">46222</a>		VALVE-SWITCH



Message Job Completed

Done

Done



**Root Cause Analysis\*:**

Brake switch circuit sending 2 inputs to cruise module when pedal is in up position., Cruise will turn off

**Corrective Action\*:**

Replace brake light switch

**Reason(s) vehicle was not previously repaired:**

n/a

**Picture(s) and Attachment(s):**

n/a

<b>Did this action resolve condition?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<b>Condition verified by personal inspection of company employee?</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No
<b>Were Photos Taken?</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No
<b>Parts Inspected?</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No
<b>Parts Sent?</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No

**KM8JM12B96UXXXXXX**



## FSE Report

Created by Roger LaFleur on 08/06/2007 09:30:28 PM.

### \* Required Fields

Submitted by Roger LaFleur on 08/06/2007 10:56:20 PM. Finalized by Roger LaFleur on 08/06/2007 10:56:20 PM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
NH015	Tucson (JM)	2006	KM8JM12B96U [REDACTED]	26,305	08/19/2005	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
7	High		276693	Diagnostic Assistance	Roger LaFleur

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
Brake Light Switch		BR06	None	03 Service brake system

Target Date:	Comment:
08/06/2007	

### Subject\*:

2006 JM Brake Lights

### Condition\*:

- Customer found that brake lights worked intermittently.
- Technician found loose terminals at the brake light switch connector, technician tighten terminals but condition remained.
- FSE removed brake light switch and found the terminals inside were showing signs of increased heat.
- FSE installed new brake light switch and lights now worked correctly.

### Vehicle History\*:

WBC032 RLAFLEUR1 Hyundai Motor America 8/06/2007  
 RLAFLEUR Warranty Vehicle Information 19:55:15

-----< VEHICLE CLAIM HISTORY >-----

Dealer Code	Claim Number	Repair Order	Repair Date	Repair Mileage	Operation Description
NH015	21366A	021366	3/10/2007	20,514	DRIVER AIRBAG COVER MOD REPL (0
NH009	274694	275237	10/05/2005	10	PRE-DELIVERY INSPECTION/SERVICE

VIN#: KM8JM12B96U Tucson (JM) 2006 Wty Strt DT: 11/05/2005  
 Orig Owner: [REDACTED] DMV Trnsfr DT:  
 Transmission : Automatic  
 Selling Dealer: NH009 AUTOFAIR HYUNDAI

### Root Cause Analysis\*:

Brake light switch internal connection.

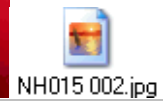
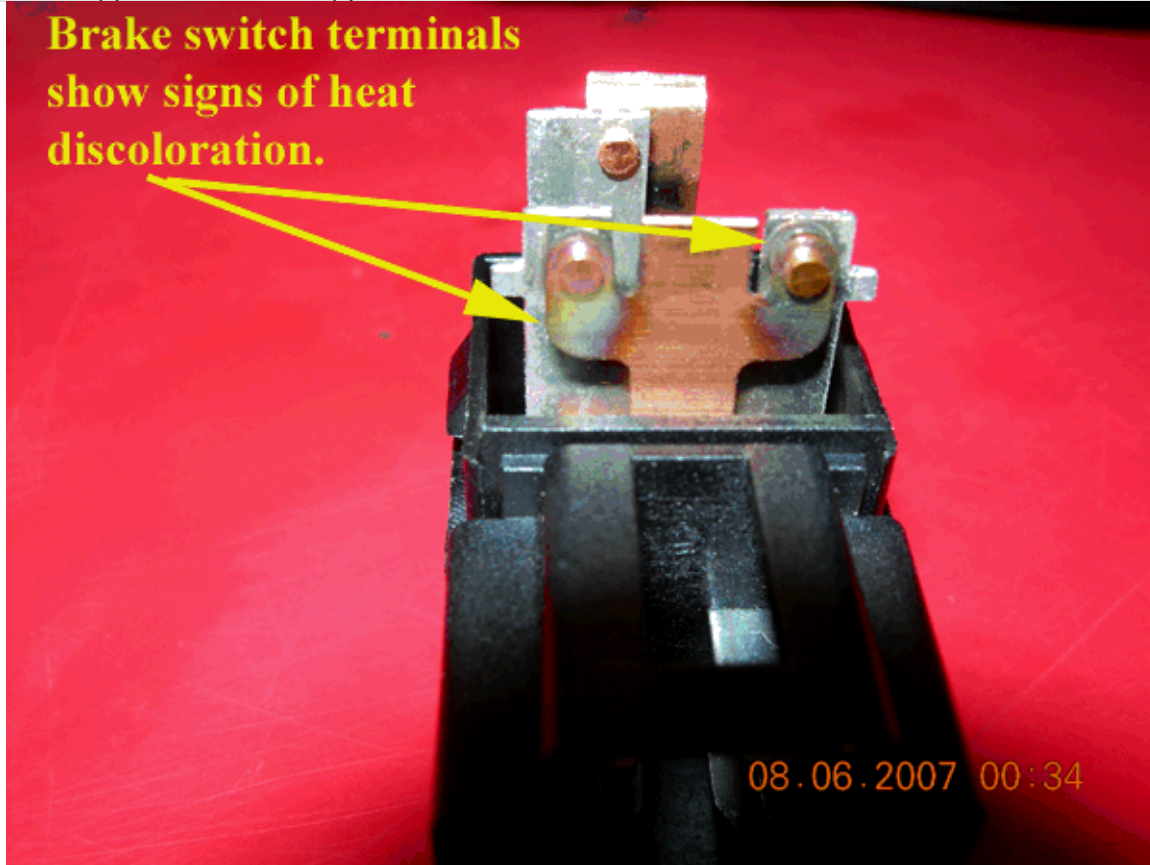
### Corrective Action\*:

Replace brake light switch.

**Reason(s) vehicle was not previously repaired:**

First repair attempt but technician was struggling to repair the vehicle.

**Picture(s) and Attachment(s):**



Did this action resolve condition?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Condition verified by personal inspection of company employee?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Were Photos Taken?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Parts Inspected?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Parts Sent?	<input type="radio"/> Yes <input checked="" type="radio"/> No

**KM8JN12D16UXXXXXX**





## FSE Report

Created by Mike Viljak on 09/06/2007 07:34:18 AM.

### \* Required Fields

Submitted by Mike Viljak on 09/06/2007 08:04:21 AM. Finalized by Rolf Brandt on 11/12/2007 07:52:22 PM.

**This case was opened for 48 days.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
WA019	Tucson (JM)	2006	KM8JN12D16U [REDACTED]	14,250	07/18/2005	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
7	High	958118		Potential Buyback Prevention	Rolf Brandt

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
Brake Light Switch		BR01	C1513	03 Service brake system

Target Date:	Comment:
09/06/2007	<p>9/18/07 Visited dealer to inspect vehicle.</p> <ul style="list-style-type: none"> <li>Vehicle was in a collision and is in a body shop.</li> <li>Interrogated vehicle fault memory and observed C1513 in ESC memory.</li> <li>FSE will return after body repairs are complete.</li> </ul> <p>10/26/07 Spoke to technician, Rob.</p> <ul style="list-style-type: none"> <li>Vehicle has not been back to dealer as of this date.</li> <li>Advised Rob to replace brake light switch when vehicle returns.</li> </ul> <p>11/10/07</p> <ul style="list-style-type: none"> <li>Vehicle has not returned to dealer for service. Case closed.</li> </ul> <p>Link to similar case -----&gt; </p>

**Subject\*:**  
WA019 - 2006 JM - ESC light

**Condition\*:**  
The customer is allowing us one last attempt before pursuing buyback.  
THE VEH HAS BEEN TO WA019 6 TIMES FOR THE ESC LIGHT BEING ON.  
THE DATES AND REPAIR ATTEMPTS ARE AS FOLLOWS:  
06/06/07 @ 12,720 MILES BREAK LAMP SWITCH REPLACED, 05/17/07 12,407 REPLACED  
05/17/07 @ 12,407 MILES REPLACED CONNECTION TO ABS MODULE AND ESC,  
05/04/07 @ 12,158 MILES REPLACED HECL,  
01/25/07 @ 9,919 MILES INSTALLED PRESSURE SENSOR SWITCH  
01/12/07 @ 9,703 TESTED ESC, NO DUPLICATION  
11/08/06 @ 8,398 MILES NO DUPLICATION

**Vehicle History\*:**  
WA019 72183A 172183 6/06/2007 12,720 SWITCH ASSY-STOP LAMP

WA019	71086A	171086	5/14/2007	12,157	HYDRAULIC MODULE ASSY
WA019	67568A	167568	1/25/2007	9,919	SENSOR-PRESSURE
WA019	67569A	167569	1/25/2007	9,919	DRIVER AIRBAG COVER MOD REPL (0
WA032	654381	065438	9/28/2005	13	PRE-DELIVERY INSPECTION/SERVICE
OR523	517106	255054	9/21/2005	0	ESC REPROGRAMMING (05-017)
OR523	518024	255054	9/09/2005	0	JM COMPLIANCE LABEL REPL. (05-

**Root Cause Analysis\*:**

See comments above

**Corrective Action\*:**

See comments above

**Reason(s) vehicle was not previously repaired:**

N/A

**Picture(s) and Attachment(s):**

N/A

**Did this action resolve condition?**  Yes  No

**Condition verified by personal inspection of company employee?**  Yes  No

**Were Photos Taken?**  Yes  No

**Parts Inspected?**  Yes  No

**Parts Sent?**  Yes  No

**KM8JN12D26UXXXXXX**



## FSE Report

Created by Gerri Wright on 03/14/2008 02:06:15 PM.

### \* Required Fields

Submitted by Gerri Wright on 03/14/2008 03:19:43 PM. Finalized by Rolf Brandt on 04/09/2008 09:50:52 PM.

This case was opened for 19 days.

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
WA032	Tucson (JM)	2006	KM8JN12D26U [REDACTED]	32,129	08/12/2005	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
5	Medium	1034517	3242438	Buyback Inspection	Rolf Brandt

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
Brake Light Switch	93810-3K000	BR01	C1513 C1237	11 Electrical system

Target Date:	Comment:
03/14/2008	

### Subject\*:

2006 JM TUCSON - ABS AND ESC LIGHTS ON

### Condition\*:

NUMEROUS REPAIR ATTEMPTS FOR AN ESC LIGHT/ABS LIGHT ILLUMINATION CONCERN. VEHICLE WAS DOWN OVER 50 DAYS WITH 6 REPAIR ATTEMPTS. VEHICLE WAS BROUGHT IN ON 4/29/06 WITH 5,652 MI FOR ESC LIGHT ON AND GRINDING NOISE. TECH FOUND CODES B1282 AND 1283 AND REPLACED G SENSOR. ON 1/6/07 VEH BROUGHT BACK FOR ABS LIGHT ON. CODES B1237 AND C1513 FOUND. DLR REPLACED BRAKE LIGHT SWITCH. ON 1/20/07 VEH BROUGHT BACK FOR ESC LIGHT ON/OFF. DLR SCHEDULED APPT TO REPLACE BRAKE PRESSURE SWITCH. ON 1/27/07 @ 16,947 MI VEH WAS BROUGHT BACK FOR ESC OFF LIGHT ON. TECH COULD NOT DUPLICATE, BUT FOUND CODES C1513 AND C1237. TECH REPLACED BRAKE PRESSURE SENSOR, NOW WORKING NORMALLY. VEH BROUGHT BACK AGAIN ON 2/3/07 FOR ESC LIGHT COMING ON. REPLACED BRAKE PRESSURE SENSOR ASSY. ESC LIGHT CAME BACK ON 2/17/07 @ 17,450 MI. TECH CHECKED BRAKE PEDAL HIGH AND READJUSTED.

### Vehicle History\*:

WA032	817421	081742	9/01/2007	25,838	SWITCH ASSY-STOP LAMP
WA032	762991	076299	1/27/2007	16,947	SENSOR-PRESSURE
WA032	761551	076155	1/20/2007	16,677	DRIVER AIRBAG COVER MOD REPL (0
WA032	758341	075834	1/06/2007	16,359	SENSOR ASSY-OXYGEN LH (UP)
WA032	758342	075834	1/06/2007	16,359	SWITCH ASSY-STOP LAMP
WA032	701091	070109	4/29/2006	5,652	SENSOR-ABS REAR WHEEL SPEED (LH
WA032	651631	065163	9/16/2005	5	PRE-DELIVERY INSPECTION/SERVICE

### Root Cause Analysis\*:

- Interrogated vehicle fault memory and observed diagnostic trouble codes (DTC) C1237 (primary pressure sensor signal) and C1513 (brake switch error)

present.

- Cleared DTCs and depressed brake pedal to illuminate brake lights and raise master cylinder brake pressure to greater than 20 bar. Continued to hold brake pressure for greater than 30 minutes.
- DTCs C1513 and C1237 set after 30 minutes while maintaining conditions above.
- Performed the same test on other known good vehicles (2006 ~ 2008 models) and observed the same results.

VIN : KM8JN12D26U, Maker : HY, Vehicle : TUCSON(JM)  
Model Year : 2006, Engine Type : G 2.7 V6 DOHC  
Date Time : 2008.04.09 10:55:42  
(ECU:N-H-01-04-1.43, Source:N-H-01-04-1.43, Info:N-H-01-04-1.43, VCI:2008 02 29 1.53)

Diagnosis

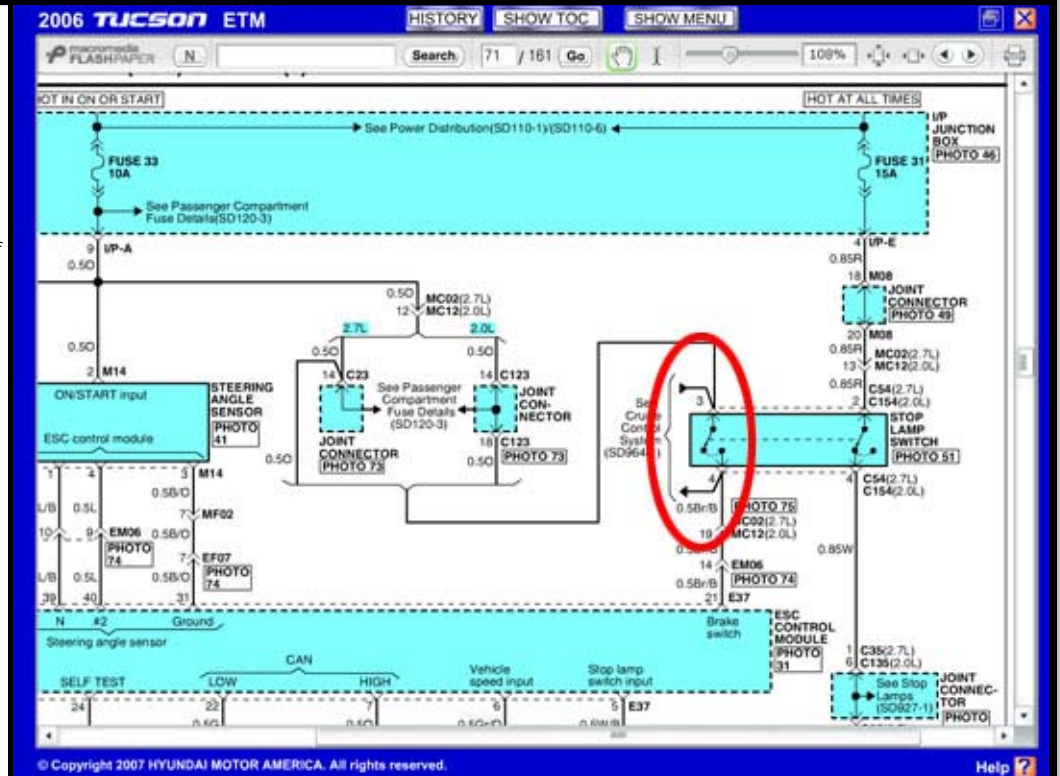
System: ESC/ABS/TC/ESC

### DTC

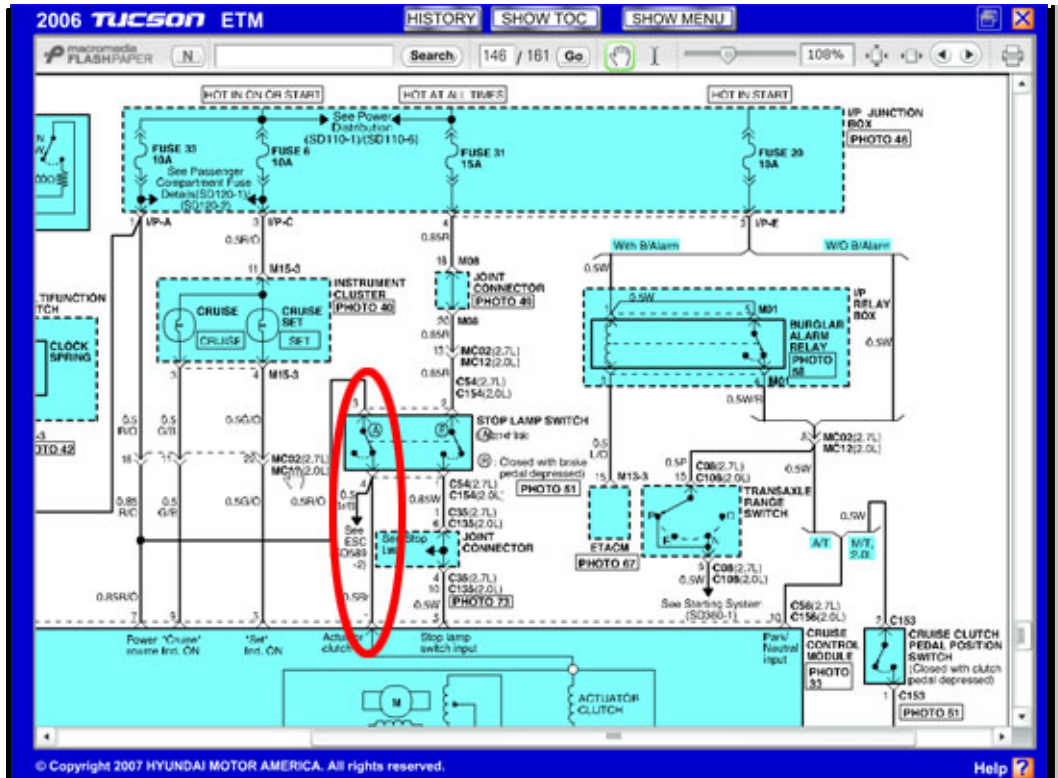
Description	State
C1513 Brake Switch Circuit	
C1237 Primary Pressure Sensor-Signal	

Freeze Frame  
Freeze Frame is NOT supported in this system.

- The picture to the right shows a portion of the wiring diagram (ETM) for the ESC system.
- The area inside the red oval shows the brake switch portion of the brake light switch.
- When the brake pedal was depressed the contact between C54 pins 3 and 4 opened and 0 volts was present at C54 pin 4 and E37 pin 21 (ESC control module).
- The output from brake light switch connector C54 pin 4 connects in parallel to the cruise control module (shown below).



- The picture to the right shows brake switch interface with the cruise control module.
- With the brake pedal depressed 0 volts was observed at pin 1 of C56 cruise control module connector (connector connected or disconnected).
- After the brake pedal was depressed for greater than 30 minutes continuously and DTCs C1513 and C1237 set.
- Cruise control connector C56 was disconnected and a voltage measurement was taken at C56 pin 1 with the brake pedal still depressed. Battery voltage was observed.
- The voltage present at C56 pin 1 was generated from within the ESC control module and is the root cause of the DTCs.



- The picture to the right shows the brake light switch from the incident vehicle.
- The date code stamped on the switch indicates a before counter measure switch.



**Corrective Action\*:**

- Replace brake light switch with post counter measure switch.



- DTCs C1513 and C1237 will set if brake pedal is depressed continuously for greater than 30 minutes and brake pressure is high than 20 bar.
- Performed buyback inspection as per attached checklist (below).
- Vehicle is now ready for pick up by ISG.

**Reason(s) vehicle was not previously repaired:**

Vehicle was operating as designed.

**Picture(s) and Attachment(s):**



1034517 Hintz.xls



Old Switch.jpg.JPG



Cruise Control ETM.jpg



ESC ETM.jpg



Fault Survey.jpg

<b>Did this action resolve condition?</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No
<b>Condition verified by personal inspection of company employee?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<b>Were Photos Taken?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<b>Parts Inspected?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<b>Parts Sent?</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No

**KM8JN12DX7UXXXXXX**





# FSE Report

Created by Joshua Graf on 06/28/2007 07:24:44 AM.

### \* Required Fields

Submitted by Joshua Graf on 06/28/2007 06:06:47 AM. Finalized by Joshua Graf on 06/28/2007 06:06:47 AM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
OK021	Tucson (JM)	2007	KM8JN12DX7U [REDACTED]	3,073	06/28/2007	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
7	High	n/a	n/a	FPOR	Joshua Graf

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
SWITCH ASSY-STOP LAMP	938103K000	BR01		11 Electrical system

Target Date:	Comment:
06/28/2007	

**Subject\*:**  
2007 JM - B1513

**Condition\*:**  
Cust states that the ABS light came on and the brake lights intermittently do not work.

**Vehicle History\*:**

VIN : KM8JN12DX7U [REDACTED]	Tucson (JM) V-6	2007 Total Claims:	4
Dealer:	Claim No:	R/O No:	

A	Delr	Claim#	R/O	No	VR	C/T	R/O	Date	Mileage	OP	Code	Paid	Date	Sts
		OK021	53587A	553587	00	W	6/06/2007	2,632	91001A00			6/07/2007	A	
		OK021	53587E	553587	00	L	6/06/2007	2,679	SLOANAZZ			6/11/2007	A	
		TX068	A49646	049646	00	I	1/12/2007	8	PREDELIV			1/25/2007	A	
		TX068	49646A	049646	00	I	1/12/2007	8	PREDELIV				R	

**Root Cause Analysis\*:**  
Stop lamp switch intermittently open.

**Corrective Action\*:**  
replace stop lamp switch assembly

**Reason(s) vehicle was not previously repaired:**  
n/a

**Picture(s) and Attachment(s):**



07 JM B1513 Brake Switch.bmp

Did this action resolve condition?  Yes  No

Condition verified by personal inspection of company employee?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Were Photos Taken?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Parts Inspected?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Parts Sent?	<input type="radio"/> Yes <input checked="" type="radio"/> No

**KM8JN72D56UXXXXXX**



## FSE Report

Created by Richard Palahunik on 06/20/2007 05:20:50 PM.

### \* Required Fields

Submitted by Richard Palahunik on 06/20/2007 03:04:04 PM. Finalized by Richard Palahunik on 06/20/2007 03:04:04 PM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
NY083	Tucson (JM)	2006	KM8JN72D56U [REDACTED]	9,353	11/03/2005	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
7	High	NA	NA	Diagnostic Assistance	Richard Palahunik

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
SWITCH ASSY-STOP LAMP(4P)	93810 3K000	EN02	C1513	03 Service brake system

Target Date:	Comment:
06/20/2007	<p>FSE observations:</p> <p>Brake lights would illuminate intermittently - stop lamp switch status on GDS would not change from off to on when brake pedal was depressed.</p> <p>When brake lights did illuminate, the GDS still indicated "off" for the stop lamp switch status.</p> <p>NEW SWITCH installed - brake lights illuminated every time while the GDS indicated ON/OFF status every time the brake pedal was depressed and released.</p>

**Subject\*:**  
2006 JM TUCSON - ESC LIGHT ILLUMINATED

**Condition\*:**  
Customer stated the ESC came on while driving and the light would not go off until the car was shut down and restarted.  
DTC C1513 was stored in computer memory.

**Vehicle History\*:**

NY083	56247A	156247	5/15/2007	8,442	STRUT ASSY (BOTH SIDES)
NY083	53562A	153562	4/07/2007	7,315	DRIVER AIRBAG COVER MOD REPL (0
NY083	53562C	153562	4/07/2007	7,315	ARM ASSY-REAR WIPER
NY083	29852A	129852	5/06/2006	11	PRE-DELIVERY INSPECTION/SERVICE

**Root Cause Analysis\*:**  
Stop lamp switch was not operating correctly all the time. At times the brake lights would light other times not.  
Monitoring the stop lamp switch status via the GDS the brake light switch never indicated "on" while the brake pedal was depressed.

**Corrective Action\*:**  
Replace the stop lamp switch assembly.

**Reason(s) vehicle was not previously repaired:**  
NA

Picture(s) and Attachment(s):



6u323312 Tucson stop lamp switch 001.jpg

Did this action resolve condition?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Condition verified by personal inspection of company employee?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Were Photos Taken?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Parts Inspected?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Parts Sent?	<input checked="" type="radio"/> Yes <input type="radio"/> No

**KM8JN72D56UXXXXXX**



# FSE Report

Created by Rolf Stegemann on 07/24/2007 08:31:39 PM.

### \* Required Fields

Submitted by Rolf Stegemann on 07/24/2007 08:46:16 PM. Finalized by Rolf Stegemann on 07/24/2007 08:46:16 PM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
TX077	Tucson (JM)	2006	KM8JN72D56U [REDACTED]	22,356	12/02/2005	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
3	Low		273725	FPOR	Rolf Stegemann

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
BRAKE SWITCH		EL05		11 Electrical system

Target Date:	Comment:
07/24/2007	

### Subject\*:

2006 JM TUCSON - CRUISE CONTROL INOPERATIVE AT TIMES

### Condition\*:

Customer complains of cruise control "set" light flickering on/off and cruise inoperative when this happens.

### Vehicle History\*:

TX077	36807A	136807	00	W	7/06/2007	22,356	96441R00	7/16/2007	A
TX077	36278B	136278	00	W	6/23/2007	21,861	93770R00	7/02/2007	A
TX077	35485B	135485	00	R	6/04/2007	21,234	61B046R0	6/07/2007	A
GA533	000570	000224	00	I	1/31/2006	5	PREDELIV	1/31/2006	A

### Root Cause Analysis\*:

- Upon further and closer examination, technician found brake switch causing condition even though, current data did not show any signs of malfunction.

### Corrective Action\*:

- Replace brake switch and condition was resolved.

### Reason(s) vehicle was not previously repaired:

Difficult to diagnose

### Picture(s) and Attachment(s):

Did this action resolve condition?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Condition verified by personal inspection of company employee?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Were Photos Taken?	<input type="radio"/> Yes <input checked="" type="radio"/> No

Parts Inspected?  Yes  No

Parts Sent?  Yes  No



**KM8JN72D86UXXXXXX**



# FSE Report

Created by Anita Dellarocca on 08/30/2007 10:01:46 AM.

### \* Required Fields

Submitted by Anita Dellarocca on 08/30/2007 10:02:36 AM. Finalized by Rolf Brandt on 10/19/2007 10:00:16 AM.

**This case was opened for 37 days.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
OR024	Tucson (JM)	2006	KM8JN72D86U [REDACTED]	10,464	12/05/2005	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
7	Low	1071761		VDS	Rolf Brandt

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
Brake Light Switch	39810-3K000	EN02	C1513	03 Service brake system

Target Date:	Comment:
08/30/2007	

### Subject\*:

2006 JM TUCSON - ESC OFF LIGHT ON C1513

### Condition\*:

Customer concern of the "ESC OFF" light comes on usually after the vehicle is stopped with the brakes applied for >20 minutes.

### Vehicle History\*:

VIN : KM8JN72D86U [REDACTED] Tucson (JM) V-6      2006 Total Claims: 8

A	Dealer	Claim#	R/O No	R/O Date	Mileage	Operation Description
	OR024	28495A	028495	8/09/2007	8,843	DRIVER AIRBAG COVER MOD REPL (0
	OR024	24718A	024718	1/05/2007	49,999	SWITCH ASSY-STOP LAMP
	OR024	23378A	023378	10/13/2006	3,473	SENSOR-PRESSURE
	OR024	22972A	022972	9/18/2006	3,197	SWITCH ASSY-STOP LAMP
	OR024	22827A	022827	9/08/2006	2,976	BUCKLE ASSY-REAR SEAT BELT (BOT
	OR024	22827B	022827	9/08/2006	2,976	MODULE ASSY-AUTO TRANS ADD SCAN
	OR024	19050A	019050	1/20/2006	5	PRE-DELIVERY INSPECTION/SERVICE
	OR024	19050B	019050	1/20/2006	5	DEFLECTOR ASSY-SUNROOF

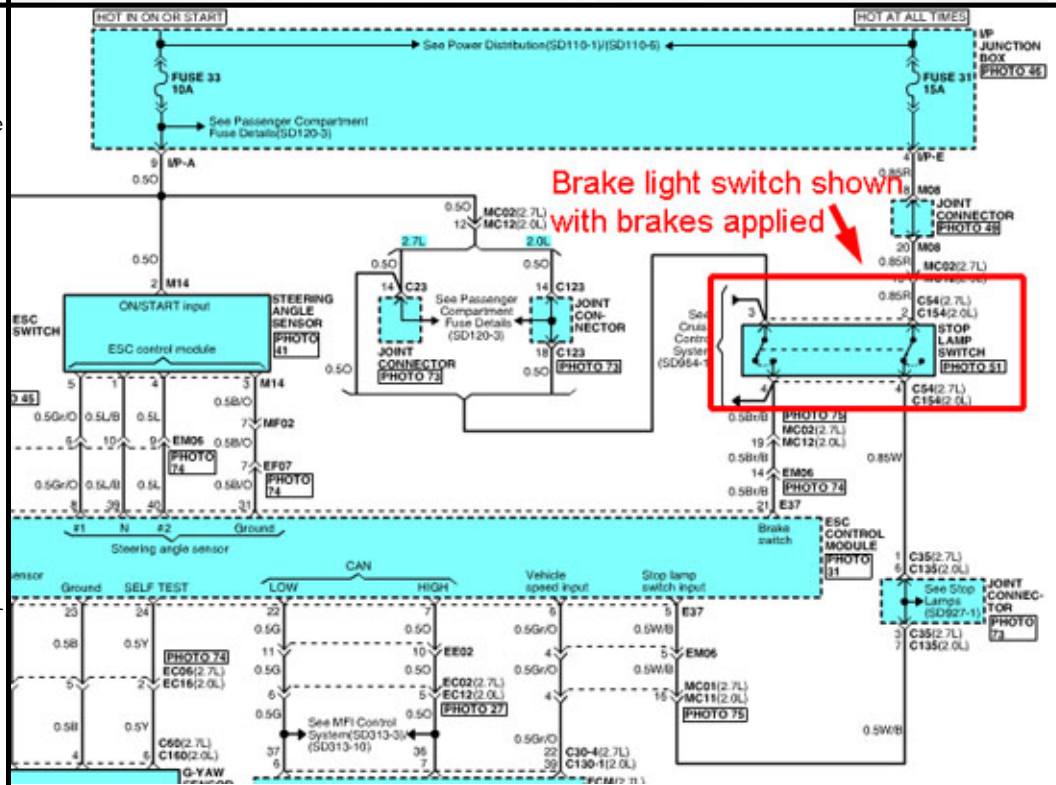
### Root Cause Analysis\*:

- Interrogated vehicle fault memory and observed diagnostic trouble code C1513 (Brake switch error) present. Brake lights worked normally.

- The picture to the right shows the incident vehicle brake light switch.



- The picture to the right is a page from the electrical troubleshooting manual (ETM) that shows brake light switch inputs to the electronic stability control (ESC) control unit.
- The switch between terminals 2 and 4 is the brake light switch that closes when the brakes are applied. Output 12V.
- The switch between terminals 3 and 4 is the brake switch that opens when the brakes are applied. Output 0 V.
- If the ESC control module sees both brake switch and brake light switch in the same state for >500ms and the brake pressure is >20 bar DTC C1513 is set.



- The picture to the right shows the event that set C1513. The

brake light switch is on, the brake switch is on and the brake pressure is >20 bar.

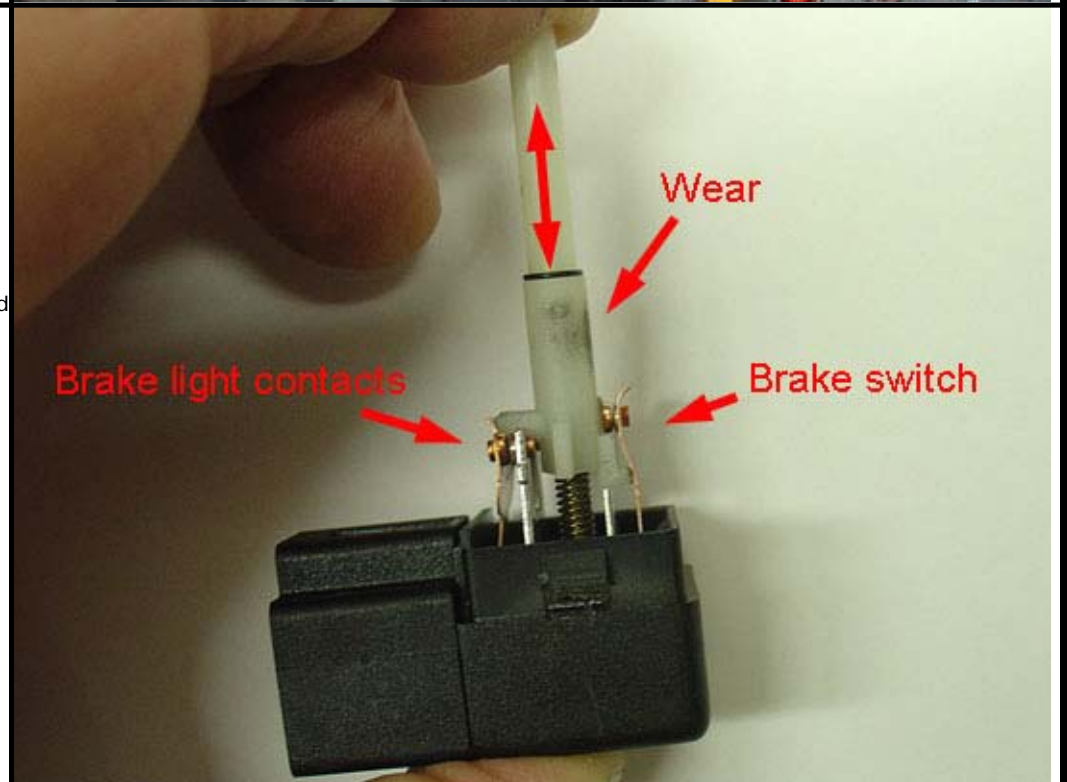
- The brake lights were on during the event.



Brake light switch and Brake pressure

Brake Switch

- The picture to the right shows the internal components of the brake light switch.
- After extended operation the "Brake Switch" contacts closed with, brake pressure present and the brake lights on, causing the DTC to set.



**Corrective Action\*:**

Replaced brake light switch and advised the customer not to hold the brake pedal for extended periods when the vehicle is parked with

the engine running.

**Reason(s) vehicle was not previously repaired:**

- Difficult to duplicate.

**Picture(s) and Attachment(s):**



Switch and Pressure Values.jpg Brake Light Switch.jpg Brake Switch Contacts.jpg

<b>Did this action resolve condition?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<b>Condition verified by personal inspection of company employee?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<b>Were Photos Taken?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<b>Parts Inspected?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<b>Parts Sent?</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No

**KM8NU13C17UXXXXXX**



## FSE Report

Created by Rolf Brandt on 12/03/2008 10:33:15 AM.

### \* Required Fields

Submitted by Rolf Brandt on 12/03/2008 11:27:48 AM. Finalized by Rolf Brandt on 12/03/2008 11:27:48 AM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
WA033	Veracruz (EN)	2007	KM8NU13C17U [REDACTED]	17,601	06/05/2007	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
7	Medium			VDS	Rolf Brandt

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
Brake Light Switch	93810-3K000	EN02	P0504	13 Visibility

Target Date:	Comment:
12/03/2008	

### Subject\*:

2008 EN VERACURZ - WILL NOT SHIFT OUT OF PARK

### Condition\*:

Customer stated vehicle was in drive and the shifter would not shift to neutral or park. Customer used shift interlock override to shift into park. Shifter would not move from the park position.

### Vehicle History\*:

Campaign not performed

Campaign Code	Campaign Description	Campaign Start Date
085	TRAILER HARNESS REPLC. (TSB# 08-01-015)	10/08/2008

### Warranty Claim History

Dealer Code	Claim Number	Repair Order	Repair Date	Repair Mileage	Operation Description
WA033	42817A	042817	08/22/2007		5PRE-DELIVERY INSPECTION/SERVICE

### Root Cause Analysis\*:

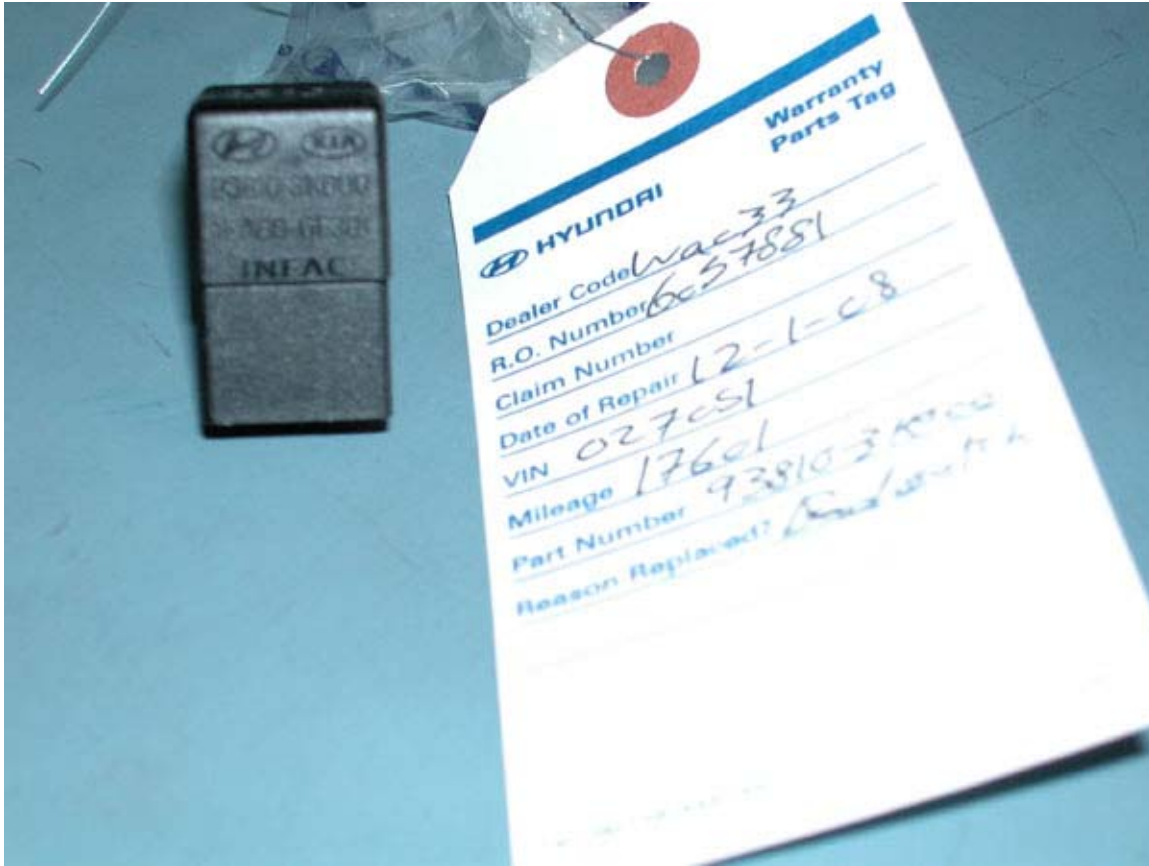
- Technician interrogated vehicle fault memory and observed diagnostic trouble code (DTC) P0504 (Brake Switch "A" / "B" Correlation) was present.
- The picture below shows the front side of the brake light switch.





- The picture below shows the back side of the brake light switch.





**Corrective Action\*:**

- Replaced brake light switch.
- Incident part forwarded to VDS engineer RC.

**Reason(s) vehicle was not previously repaired:**

First repair.

**Picture(s) and Attachment(s):**



VIN.JPG Brake Light Switch Back Side.JPG Brake Light Switch Front Side.JPG Odometer.JPG Vehicle Durability Study 6057881.doc

Did this action resolve condition?  Yes  No

Condition verified by personal inspection of company employee?  Yes  No

Were Photos Taken?  Yes  No

Parts Inspected?  Yes  No

Parts Sent?  Yes  No



**KM8NU13C27UXXXXXX**



## FSE Report

Created by Joshua Graf on 10/07/2008 03:23:30 PM.

### \* Required Fields

Submitted by Joshua Graf on 10/07/2008 04:09:49 PM. Finalized by Joshua Graf on 10/07/2008 04:09:49 PM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
KY020	Veracruz (EN)	2007	KM8NU13C27U [REDACTED]	20,038	05/11/2007	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
5	Medium	N/A	N/A	FPOR	Joshua Graf

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
Switch Assy-Stop Lamp	93810-3K000	BR06	C1513	03 Service brake system

Target Date:	Comment:
10/07/2008	

### Subject\*:

2007 EN Veracruz - ESC Light on C1513

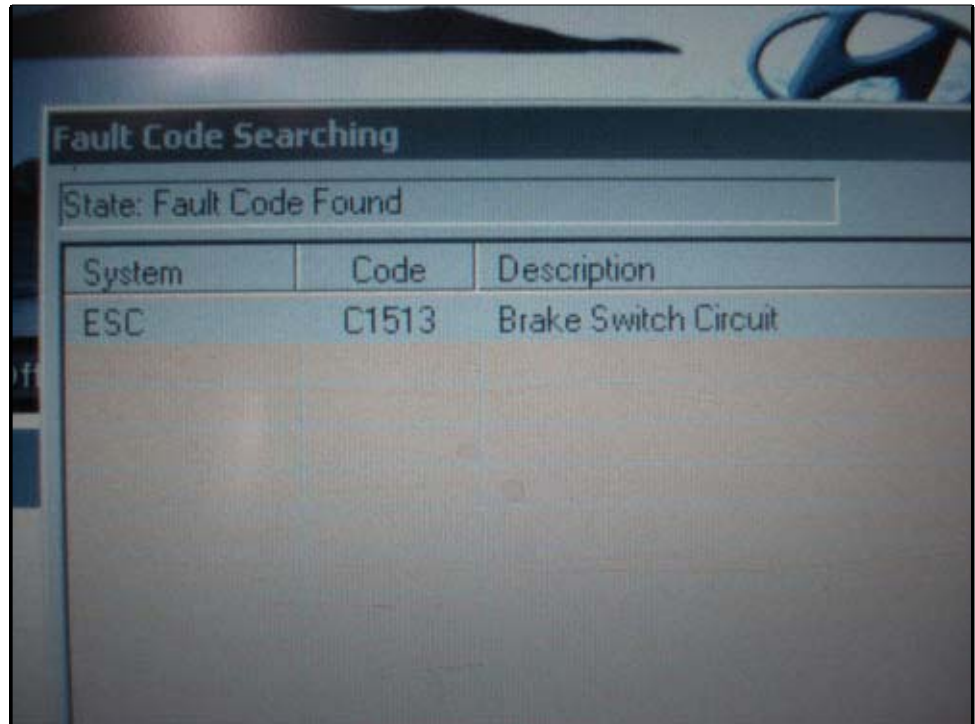
### Condition\*:

Customer states that the ESC light is on. Code C1513 is stored in the ESC module.

### Vehicle History\*:

### Root Cause Analysis\*:

- Code stored in ESC module C1513



- Brake lights are not coming on



**Corrective Action\*:**

Replace brake light switch assembly

**Reason(s) vehicle was not previously repaired:**

n/a

**Picture(s) and Attachment(s):**



9-25-08 054.jpg 9-25-08 056.jpg

<b>Did this action resolve condition?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<b>Condition verified by personal inspection of company employee?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<b>Were Photos Taken?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<b>Parts Inspected?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<b>Parts Sent?</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No

**KM8NU13C58UXXXXXX**



## FSE Report

Created by Arthur Anderson on 07/03/2008 02:44:52 PM.

### \* Required Fields

Submitted by Arthur Anderson on 07/07/2008. Finalized by Arthur Anderson on 07/07/2008 08:10:12 PM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
MD021	Veracruz (EN)	2008	KM8NU13C58U [REDACTED]	7,460	01/12/2008	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
5	Medium			FPOR	Arthur Anderson

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
SWITCH ASSY-STOP LAMP	93810-3K000	EL05	C1513	11 Electrical system

Target Date:	Comment:
07/06/2008	

### Subject\*:

2008 EN VERACRUZ-WON'T SHIFT OUT OF PARK

### Condition\*:

ESC LIGHT COMES ON AND UNABLE TO SHIFT OUT OF PARK AND OTHER GEARS AT TIMES

### Vehicle History\*:

Dealer Code	Claim Number	Repair Order	Repair Date	Repair Mileage	Operation Description
MD021	27393P	217393	4/01/2008	10	PRE-DELIVERY INSPECTION/SERVICE

### Root Cause Analysis\*:

BRAKE LIGHT SWITCH FAILURE

### Corrective Action\*:

REPLACE BRAKE LIGHT SWITCH

### Reason(s) vehicle was not previously repaired:

N/A

### Picture(s) and Attachment(s):

N/A

Did this action resolve condition?  Yes  No

Condition verified by personal inspection of company employee?  Yes  No



Were Photos Taken?  Yes  No

Parts Inspected?  Yes  No

Parts Sent?  Yes  No

**KM8NU73C27UXXXXXX**



## FSE Report

Created by Donna Clark on 11/12/2008 10:04:07 AM.

### \* Required Fields

Submitted by Donna Clark on 11/12/2008 10:07:05 AM. Finalized by Rolf Stegemann on 11/20/2008 10:05:39 AM.

**This case was opened for 7 days.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
TX077	Veracruz (EN)	2007	KM8NU73C27U [REDACTED]	32,000	04/16/2007	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
1	High	3434087	None	Repeat Repair	Rolf Stegemann

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
BRAKE LAMP SWITCH		BR01		03 Service brake system

Target Date:	Comment:
11/12/2008	FSE INSPECTED VEHICLE 11/12/08. THE TWO TIMES THAT SWITCH ASSY STOP LAMP SHOWS IN WARRANTY WAS ONLY ADJUSTMENT. FSE SPOKE WITH BOTH TECHNICIANS THAT PERFORM THE REPAIR AND NEITHER ONE OF THEM REPLACED THE SWITCH. THEY ONLY ADJUSTED IT.

### Subject\*:

2007 EN VERACRUZ - ESC LIGHT ON CODE C1513

### Condition\*:

- ESC LIGHT ON CODE C1513

### Vehicle History\*:

Dealer Code	Repair Order Number	Mileage	Repair Date Open	Operation Description
TX523	017955	0	7/2/2007	STEERING WHEEL CLEAN (07-020)
RI522	017955	1	5/17/2007	XM RADIO ACTIVATION ONLY
TX036	053089	7	7/9/2007	PRE-DELIVERY INSPECTION/SERVIC
TX077	154682	26,582	8/14/2008	SWITCH ASSY-STOP LAMP
TX077	157517	31,684	10/21/2008	SWITCH ASSY-STOP LAMP

### Root Cause Analysis\*:

- FSE INSPECTED VEHICLE. THE TWO TIMES THAT SWITCH ASSY STOP LAMP SHOWS IN WARRANTY WAS ONLY ADJUSTMENT. FSE SPOKE WITH BOTH TECHNICIANS THAT PERFORM THE REPAIR AND NEITHER ONE OF THEM REPLACED THE SWITCH. THEY ONLY ADJUSTED.
- FSE RECOMMENDED TO REPLACE THE SWITCH ASSY STOP LAMP AND RELEASE THE VEHICLE BACK TO CUSTOMER.

### Corrective Action\*:

- REPLACE BRAKE SWITCH

**Reason(s) vehicle was not previously repaired:**

DEALER ONLY ADJUSTED THE BRAKE SWITCH. THE BRAKE SWITCH WAS NEVER REPLACED TO RESOLVE THE C1513

**Picture(s) and Attachment(s):**

<b>Did this action resolve condition?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<b>Condition verified by personal inspection of company employee?</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No
<b>Were Photos Taken?</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No
<b>Parts Inspected?</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No
<b>Parts Sent?</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No

**KMHCN46C06UXXXXXX**



## FSE Report

Created by Rolf Brandt on 11/11/2008 08:44:48 PM.

### \* Required Fields

Submitted by Rolf Brandt on 11/11/2008 08:52:35 PM. Finalized by Rolf Brandt on 11/11/2008 08:52:35 PM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
WA033	Accent (MC)	2006	KMHCHN46C06U [REDACTED]	57,517	11/11/2008	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
7	Medium			VDS	Rolf Brandt

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
Brake Light Switch	93810-3810	EL11	None	11 Electrical system

Target Date:	Comment:
11/11/2008	

### Subject\*:

2006 MC ACCENT - BRAKE LIGHTS DO NOT ILLUMINATE

### Condition\*:

Customer concern of the brake lights do not illuminate.

### Vehicle History\*:

Dealer Code	Claim Number	Repair Order	Repair Date	Repair Mileage	Operation Description
WA033	55992A	055992	10/03/2008	57,517	SWITCH ASSY-STOP LAMP
WA033	55992C	055992	10/03/2008	57,517	VDS REPAIRS ONLY
OR533	PD9701	054452	06/20/2006		7PRE-DELIVERY INSPECTION/SERVICE

### Root Cause Analysis\*:

- Dealer technician diagnosed and observed open circuit in brake light switch.

### Corrective Action\*:

Replaced brake light switch.

### Reason(s) vehicle was not previously repaired:

First repair.

### Picture(s) and Attachment(s):



Brake Light Switch.JPG

<b>Did this action resolve condition?</b>	<input checked="" type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>
<b>Condition verified by personal inspection of company employee?</b>	<input type="radio"/> <b>Yes</b> <input checked="" type="radio"/> <b>No</b>
<b>Were Photos Taken?</b>	<input checked="" type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>
<b>Parts Inspected?</b>	<input type="radio"/> <b>Yes</b> <input checked="" type="radio"/> <b>No</b>
<b>Parts Sent?</b>	<input type="radio"/> <b>Yes</b> <input checked="" type="radio"/> <b>No</b>

**KMHCN46C36UXXXXXX**





## FSE Report

Created by Ryan Morrison on 11/02/2007 03:43:39 PM.

### \* Required Fields

Submitted by Ryan Morrison on 11/02/2007 05:00:10 PM. Finalized by Ryan Morrison on 11/02/2007 05:00:10 PM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
NV015	Accent (MC)	2006	KMHCHN46C36U [REDACTED]	24,761	11/08/2005	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
7	Medium	N/A	N/A	FPOR	Ryan Morrison

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
BATTERY	00275 15000	EL01	N/A	11 Electrical system

Target Date:	Comment:
11/02/2007	

### Subject\*:

2006 MC ACCENT - BATTERY

### Condition\*:

BATTERY DIES, BRAKE LIGHTS STAY ON AT TIMES.

### Vehicle History\*:

CUSTOMER HAS BROUGHT THE VEHICLE IN TWO OTHER TIMES FOR DEAD BATTERY, AND THEY CLAIMED THAT THE BRAKE LIGHTS REMAINED ON ALL THE TIME. THE DEALER COULD NOT VERIFY THE CONCERN ON THOSE VISITS.

Dealer Code	Claim Number	Repair Order	Repair Date	Repair Mileage	Operation Description
NV015	B26202	126202	6/16/2006	5,941	HORN ASSY (RH)
NV015	C26202	126202	6/16/2006	5,941	MOTOR & FAN ASSY-HEATER BLOWER
NV015	193120	109312	1/11/2006	1	PRE-DELIVERY INSPECTION/SERVICE

### Root Cause Analysis\*:

BATTERY TEST FAILED WITH MIDTRONICS BATTERY TESTER. BRAKE LIGHTS WERE INOPERATIVE, BRAKE SWITCH REMAINS OPEN WITH BRAKES APPLIED.

### Corrective Action\*:

REPLACED BATTERY AND BRAKE SWITCH.

### Reason(s) vehicle was not previously repaired:

INTERMITTENT

### Picture(s) and Attachment(s):

BATTERY FAILED MIDTRONICS TEST.

Micro570 V2.1  
(c) MIDTRONICS

THU 11/01/07  
1:58 PM

RO NUMBER  
184144

LAST 6 OF VIN  
008565

BATTERY TEST

RATING:  
500 CCA

9.97V      OCCA  
REPLACE BATTERY

WARRANTY CODE  
OOVK4-Q01CD

BATTERY AND CHARGING SYSTEM  
PASSED AFTER NEW BATTERY WAS  
INSTALLED.

Micro570 V2.1  
(c) MIDTRONICS

THU 11/01/07  
2:18 PM

BATTERY TEST

RATING:  
500 CCA

12.76V      635CCA  
GOOD BATTERY

STARTER TEST

CRANKING VOLTAGE  
NORMAL: 11.26V

CHARGING TEST

NORMAL

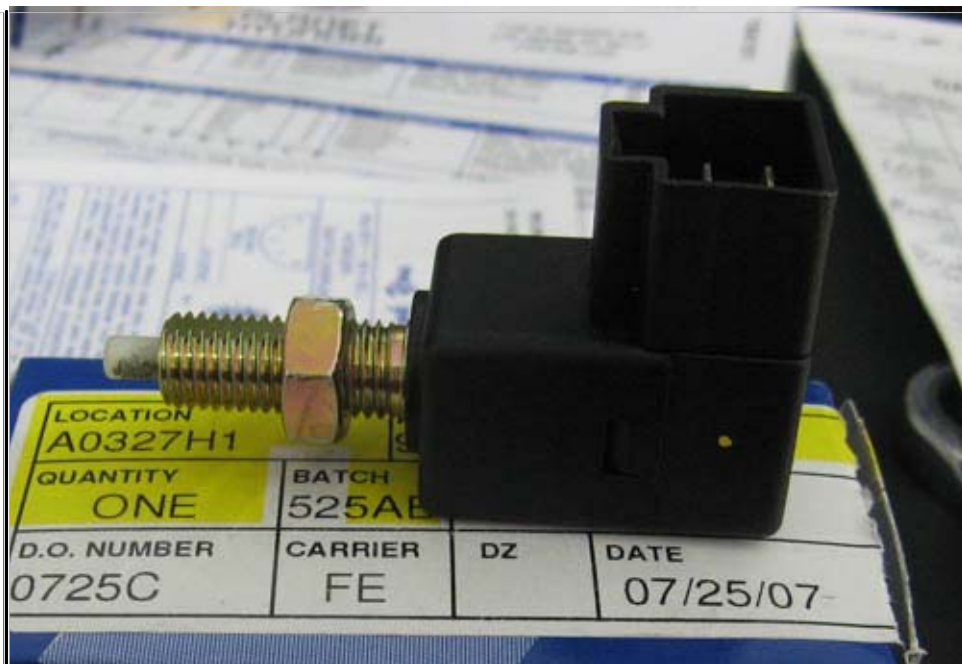
LOAD OFF: 14.24V  
LOAD ON: 13.99V

DIODE RIPPLE  
NORMAL

BATTERY



BRAKE SWITCH, CUSTOMER CLAIMED THE BRAKE LIGHTS STAYED ON AT TIMES AND DISCHARGED THE BATTERY. THIS MAY HAVE CONTRIBUTED TO THE BATTERY REPLACEMENT.



Did this action resolve condition?  Yes  No

Condition verified by personal inspection of company employee?  Yes  No

Were Photos Taken?  Yes  No

Parts Inspected?  Yes  No

Parts Sent?  Yes  No

**KMHIDU46DX8UXXXXXXXX**



## FSE Report

Created by Rolf Brandt on 04/17/2008 06:58:36 PM.

### \* Required Fields

Submitted by Rolf Brandt on 04/17/2008 07:10:29 PM. Finalized by Rolf Brandt on 04/17/2008 07:10:29 PM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
WA036	Elantra (HD)	2008	KMHDU46DX8U [REDACTED]	538	10/09/2007	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
7	Medium			FPOR	Rolf Brandt

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
Brake Light Swtich	93810-3K000	BR01	C1513	03 Service brake system

Target Date:	Comment:
04/17/2008	

### Subject\*:

2008 HD ELANTRA - ESC OFF LIGHT ILLUMINATED (C1513)

### Condition\*:

Customer concern of the ESC OFF light illuminated.

### Vehicle History\*:

Dealer Code	Claim Number	Repair Order	Repair Date	Repair Mileage	Operation Description
WA036	82734A	082734	4/09/2008	588	SWITCH ASSY-STOP LAMP
WA036	82734L	082734	4/09/2008	588	SERVICE LOAN CAR CLAIM
WA036	1229PD	080543	12/27/2007	7	PRE-DELIVERY INSPECTION/SERVICE
OR531	F00422	F00422	12/13/2007	5	REAR BUMPER (WITH R & I)

### Root Cause Analysis\*:

- Interrogated vehicle fault memory and observed diagnostic trouble code (DTC) C1513 (Brake Switch Error) present in the antilock brake (ABS) system.

- The picture to the right shows the incident brake light switch.



- The picture to the right shows the replacement brake light switch.



**Corrective Action\*:**

Replace brake light switch.

**Reason(s) vehicle was not previously repaired:**

First repair.

**Picture(s) and Attachment(s):**



Replacement Brake Light Switch.jpg Incident Brake Light Switch.jpg

<b>Did this action resolve condition?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<b>Condition verified by personal inspection of company employee?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<b>Were Photos Taken?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<b>Parts Inspected?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<b>Parts Sent?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No



**KMHET46CX6AXXXXXX**



# FSE Report

Created by Brenda Beaty on 10/01/2007 02:53:53 PM.

### \* Required Fields

Submitted by Brenda Beaty on 10/01/2007 03:11:48 PM. Finalized by Tony Barbere on 10/09/2007 07:38:32 PM.

**This case was opened for 7 days.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
PA065	Sonata (NF)	2006	KMHET46CX6A [REDACTED]	40,000	06/27/2005	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
1	Medium	1078326		Diagnostic Assistance	Tony Barbere

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
		0000		03 Service brake system

Target Date:	Comment:
10/01/2007	<p>10/2/07 FSE called dealer spoke to SM. 9/17 vehicle was at dealer for ESC DTC C1282 &amp; C1283. Dealer replaced brake switch, released vehicle. Customer returned 9/24 claiming ESC ligh illuminated. Dealer found no DTC stored and no illumination of any dash lamps. Vehicle was released and customer returned stating ESC lamp re-illuminated.</p> <p>FSE asked SM to test drive with customer to verify ESC lamp complaint.</p> <p>10/4/07 DPSM and Service Manager have test driven vehicle seventeen miles. All systems operational. ESC warning lamp did not illuminate. Customer has declined to test drive vehicle with dealer personnel. FSE closing file.</p>

### Subject\*:

2006 NF SONATA, CUSTOMER COMPLAINT OF ESC LAMP ILLUMINATION

### Condition\*:

Customer complaint of dash warning lamp for ESC.

### Vehicle History\*:

Dealer Claim#	R/O No	R/O Date	Mileage	Operation	Description
PA065	25763A	025763	9/19/2007	40,811	SWITCH ASSY-STOP LAMP
PA065	25295A	025295	8/31/2007	38,920	SENSOR ASSY-YAW RATE
VA006	47631Z	147631	10/27/2005	1,750	REPL. LH/RH RECLINER HANDLES (0
VA006	43090Z	143090	8/16/2005	6	PRE-DELIVERY INSPECTION/SERVICE

### Root Cause Analysis\*:

N/A

### Corrective Action\*:

N/A

### Reason(s) vehicle was not previously repaired:

N/A

### Picture(s) and Attachment(s):

--

<b>Did this action resolve condition?</b>	<input type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>
<b>Condition verified by personal inspection of company employee?</b>	<input type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>
<b>Were Photos Taken?</b>	<input type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>
<b>Parts Inspected?</b>	<input type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>
<b>Parts Sent?</b>	<input type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>

**KMHFC46F27AXXXXXX**



# FSE Report

Created by Rolf Brandt on 05/05/2008 10:24:26 PM.

### \* Required Fields

Submitted by Rolf Brandt on 05/05/2008 10:31:19 PM. Finalized by Rolf Brandt on 05/05/2008 10:31:19 PM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
WA033	Azera (TG)	2007	KMHFC46F27A [REDACTED]	6,483	04/30/2007	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
7	Low			VDS	Rolf Brandt

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
Brake Light Switch	98310-3K000	EL11	P0540	11 Electrical system

Target Date:	Comment:
05/05/2008	

#### Subject\*:

2007 TG AZERA - CHECK ENGINE LIGHT P0540

#### Condition\*:

Customer concern of the check engine light is on. No driveability concerns were observed.

#### Vehicle History\*:

N/A

#### Root Cause Analysis\*:

Dealer stated:

SCAN FOR CODES P0540 BRAKE SWITCH CORRELATION INSPECT & NOTED BRAKE LIGHTS DID NOT LIGHT WITH BRAKE PEDAL DEPRESSED. CONFIRMED INTERMITTENT OPEN IN BRAKE LIGHT SWITCH.

#### Corrective Action\*:

Replaced brake light switch.

#### Reason(s) vehicle was not previously repaired:

First repair.

#### Picture(s) and Attachment(s):

N/A

Did this action resolve condition?  Yes  No

Condition verified by personal inspection of company employee?  Yes  No

Were Photos Taken?

	<input type="radio"/> Yes <input checked="" type="radio"/> No
Parts Inspected?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Parts Sent?	<input type="radio"/> Yes <input checked="" type="radio"/> No

**KMHGC46E19UXXXXXX**



## FSE Report

Created by Michael Porter on 10/10/2008 11:02:03 AM.

### \* Required Fields

Submitted by Michael Porter on 10/10/2008 11:45:39 AM. Finalized by Michael Porter on 10/10/2008 11:45:39 AM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
FL110	Genesis (BH)	2009	KMHGC46E19U [REDACTED]	995	06/19/2008	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
5	Medium			FPOR	Michael Porter

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
Brake Switch	93810-0W000	EN02	P0504	10 Power train

Target Date:	Comment:
10/10/2008	Dealer to contact FSE if vehicle returns with same DTC

### Subject\*:

2009 BH Check Engine light on

### Condition\*:

Check engine light on, DTC P0504 Brake Switch "A"/ "B" Correlation

### Vehicle History\*:

WBC032 MPORTER1 Hyundai Motor America 10/10/2008  
MPORTER Warranty Vehicle Information 08:31:05  
-----< VEHICLE CLAIM HISTORY >-----  
Dealer Claim Repair Repair Repair Operation  
Code Number Order Date Mileage Description  
-----  
FL090 082108 115103 8/21/2008 2 PRE-DELIVERY INSPECTION/SERVICE  
  
VIN#: KMHGC46E19U [REDACTED] Genesis 2009 Wty Strt DT: 9/06/2008  
Orig Owner: \_\_\_\_\_ DMV Trnsfr DT:  
Transmission : Automatic  
Selling Dealer: FL090 DELRAY HYUNDAI

### Root Cause Analysis\*:

Tech unable to duplicate DTC

### Corrective Action\*:

Replaced brake switch as a pro-active measure

### Reason(s) vehicle was not previously repaired:

1st repair

### Picture(s) and Attachment(s):

Did this action resolve condition?



	<input type="radio"/> Yes <input type="radio"/> No
Condition verified by personal inspection of company employee?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Were Photos Taken?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Parts Inspected?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Parts Sent?	<input type="radio"/> Yes <input checked="" type="radio"/> No

**KNDMC233X76XXXXXX**



## FSE Report

Created by Robert Stepanovich on 10/09/2007 08:59:55 PM.

### \* Required Fields

Submitted by Robert Stepanovich on 10/15/2007. Finalized by Robert Stepanovich on 10/15/2007 08:55:30 AM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
MI046	Entourage (EP)	2007	KNDMC233X76[REDACTED]	9,487	09/27/2006	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
5	Medium	N/A	N/A	Diagnostic Assistance	Robert Stepanovich

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
SWITCH ASSY-STOP LAMP[4P]	938103K000	AT03	C1513	10 Power train

Target Date:	Comment:
10/09/2007	

### Subject\*:

2007 EP ENTOURAGE SHIFTER STUCK IN PARK INTERMITTENTLY C1513

### Condition\*:

Customer states that intermittently they cannot shift from the park position. Tech has not been able to duplicate concern.

### Vehicle History\*:

Dealer Code	Claim Number	Repair Order	Repair Date	Repair Mileage	Operation Description
MI046	10865A	010865	9/04/2007	9,287	BODY & SWITCH ASSY-STRG & IGN
MI023	206665	206666	12/07/2006	10	PRE-DELIVERY INSPECTION/SERVICE

### Root Cause Analysis\*:

Tech found C1513 for stop lamp switch stored in ESC module. An inoperative brake lamp switch could also cause shifter to stick in park intermittently.

### Corrective Action\*:

Tech replaced and adjusted brake lamp switch

### Reason(s) vehicle was not previously repaired:

First Visit

### Picture(s) and Attachment(s):

N/A

<b>Did this action resolve condition?</b>	<input checked="" type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>
<b>Condition verified by personal inspection of company employee?</b>	<input type="radio"/> <b>Yes</b> <input checked="" type="radio"/> <b>No</b>
<b>Were Photos Taken?</b>	<input type="radio"/> <b>Yes</b> <input checked="" type="radio"/> <b>No</b>
<b>Parts Inspected?</b>	<input checked="" type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>
<b>Parts Sent?</b>	<input type="radio"/> <b>Yes</b> <input checked="" type="radio"/> <b>No</b>

**KNDMC233076XXXXXX**



## FSE Report

Created by Rodney Helgeson on 08/24/2007 10:29:44 AM.

### \* Required Fields

Submitted by Rodney Helgeson on 08/24/2007 08:37:37 AM. Finalized by Rodney Helgeson on 08/24/2007 08:37:37 AM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
WI027	Entourage (EP)	2007	KNDMC233076 [REDACTED]	12	09/28/2006	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
7	High	N/A	N/A	FPOR	Rodney Helgeson

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
switch	93810-3K000	AT03		11 Electrical system

Target Date:	Comment:
08/24/2007	

### Subject\*:

2007 EP ENTOURAGE-- SHIFTER STUCK IN PARK

### Condition\*:

Vehicle will not shift out of park, brake light switch plunger is stuck

### Vehicle History\*:

WI023	48714A	048714	7/30/2007	45	FRONT BUMPER (3 COAT PEARL)
WI023	48664A	048664	7/27/2007	12	SWITCH ASSY-STOP LAMP
WI023	48537A	048537	7/24/2007	10	PRE-DELIVERY INSPECTION/SERVICE
WI023	48537B	048537	7/24/2007	10	CLIP-TRIM
WI023	48537C	048537	7/24/2007	10	CHARGING BATTERY-ADJUSTMENT

### Root Cause Analysis\*:

internal issue

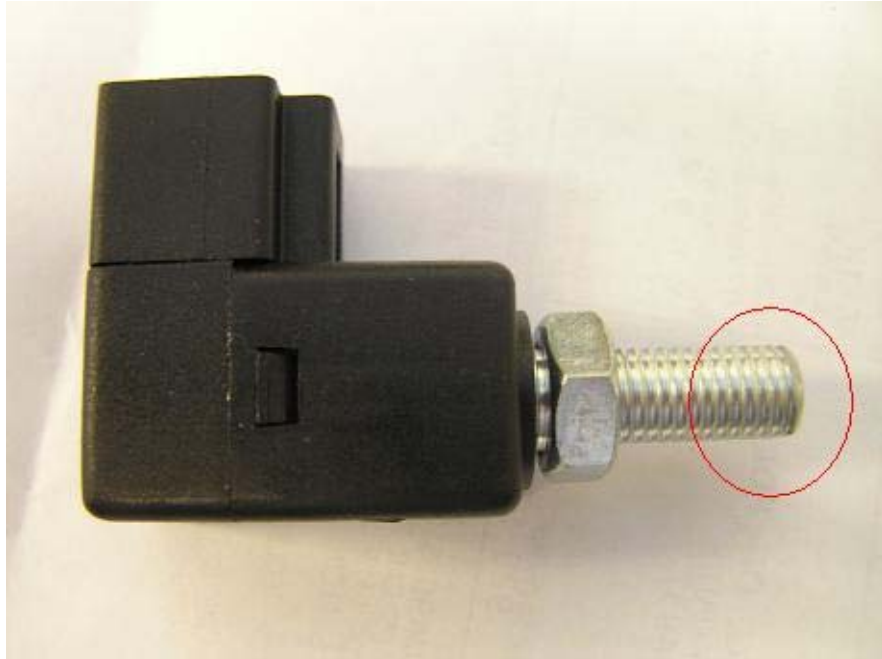
### Corrective Action\*:

Replace brake light switch

### Reason(s) vehicle was not previously repaired:

n/a

### Picture(s) and Attachment(s):



P8240087.JPG



P8240089.JPG P8240088.JPG

<b>Did this action resolve condition?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<b>Condition verified by personal inspection of company employee?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<b>Were Photos Taken?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<b>Parts Inspected?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No
<b>Parts Sent?</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No

**KNDMC233476XXXXXX**





## FSE Report

Created by Ryan Morrison on 08/09/2007 10:48:44 PM.

### \* Required Fields

Submitted by Ryan Morrison on 08/10/2007. Finalized by Ryan Morrison on 08/10/2007 06:33:33 AM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
NV020	Entourage (EP)	2007	KNDMC233476 [REDACTED]	18,782	02/21/2006	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
7	Medium	N/A	N/A	FPOR	Ryan Morrison

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
BRAKE SWITCH	93810 3K000	BR01	C1513	03 Service brake system

Target Date:	Comment:
08/09/2007	

### Subject\*:

2007 EP ENTOURAGE- BRAKE SWITCH, C1513

### Condition\*:

ABS CODE C1513, BRAKE SWITCH IS INOP, BRAKE LIGHTS WORK.

### Vehicle History\*:

Dealer Code	Claim Number	Repair Order	Repair Date	Repair Mileage	Operation Description
NV020	46690A	146690	5/03/2007	16,155	MODULE ASSY-ENGINE CONTROL
NV020	44414D	144414	3/23/2007	14,548	COMPRESSOR ASSY (**)
NV020	39457B	139457	12/15/2006	11,286	RR DOOR POWER SWITCH REPL (06-0
NV015	A20442	120442	4/29/2006	1	PRE-DELIVERY INSPECTION/SERVICE

### Root Cause Analysis\*:

BRAKE SWITCH INOP.

### Corrective Action\*:

REPLACED BRAKE SWITCH

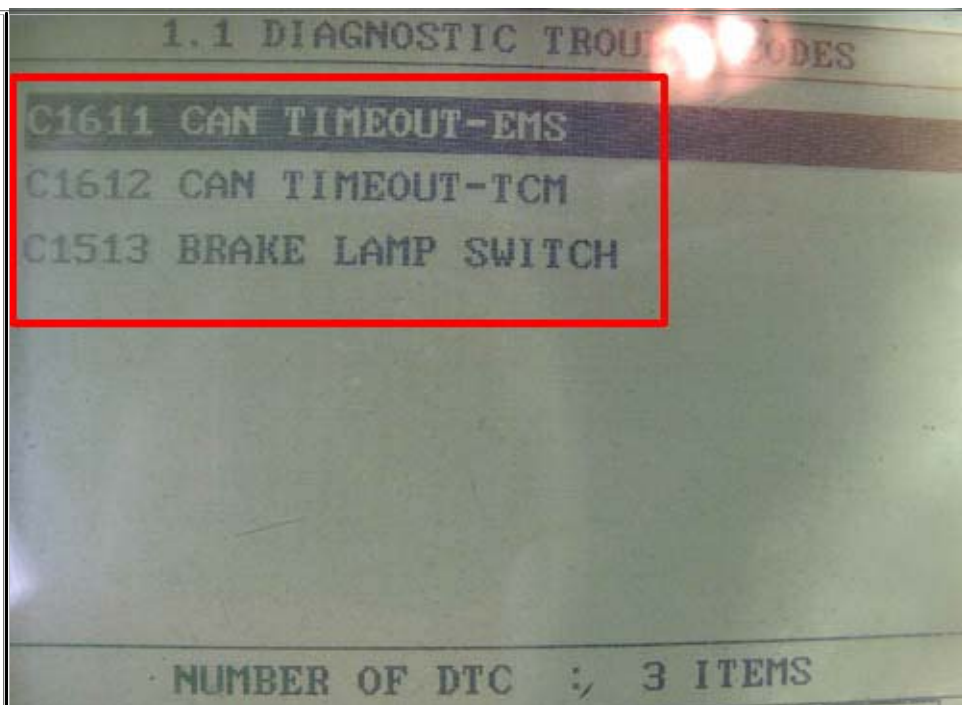
### Reason(s) vehicle was not previously repaired:

N/A

### Picture(s) and Attachment(s):

--

CODES SET.



BRAKE LIGHTS OPERATE NORMALLY.



BRAKE SWITCH, GOLD COLORED.



BRAKE SWITCH DATA SHOWS OFF,  
WHEN BRAKE PEDAL IS PRESSED.



MVI\_0725.avi

Did this action resolve condition?  Yes  No

Condition verified by personal inspection of  
company employee?  Yes  No

Were Photos Taken?  Yes  No

Parts Inspected?  Yes  No

Parts Sent?  Yes  No

**KNDMC233676XXXXXX**



## FSE Report

Created by Roger LaFleur on 05/04/2007 10:36:01 AM.

### \* Required Fields

Submitted by Roger LaFleur on 05/04/2007 11:04:43 AM. Finalized by Roger LaFleur on 05/04/2007 11:04:43 AM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
ME002	Entourage (EP)	2007	KNDMC233676 [REDACTED]	22,650	02/01/2006	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
7	High		264115	Potential Buyback Prevented	Roger LaFleur

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
Brake Light Switch	93810-3K000	EL11	C1513	11 Electrical system

Target Date:	Comment:
05/04/2007	

### Subject\*:

2007 EP Entourage Brake Lights

### Condition\*:

- Brake lights stop working and check engine light comes on with code C1513
- Technician check pin tension and wiring, all look good.
- Technician found brake light switch inoperative.
- Technician has installed 3 brake light switches for this concern so far.

### Vehicle History\*:



KNDMC233676 [REDACTED].xls

### Root Cause Analysis\*:

FTS talked to HMA and concern is under investigation.

### Corrective Action\*:

Replace brake light switch.

### Reason(s) vehicle was not previously repaired:

Dealer continues to get affected parts.

### Picture(s) and Attachment(s):



ME002 004.jpg ME002 002.jpg ME002 003.jpg

<b>Did this action resolve condition?</b>	<input checked="" type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>
<b>Condition verified by personal inspection of company employee?</b>	<input checked="" type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>
<b>Were Photos Taken?</b>	<input checked="" type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>
<b>Parts Inspected?</b>	<input checked="" type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>
<b>Parts Sent?</b>	<input checked="" type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>

**KNDMC233676XXXXXX**



## FSE Report

Created by Roger LaFleur on 05/04/2007 10:36:01 AM.

### \* Required Fields

Submitted by Roger LaFleur on 05/04/2007 11:04:43 AM. Finalized by Roger LaFleur on 05/04/2007 11:04:43 AM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
ME002	Entourage (EP)	2007	KNDMC233676 [REDACTED]	22,650	02/01/2006	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
7	High		264115	Potential Buyback Prevented	Roger LaFleur

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
Brake Light Switch	93810-3K000	EL11	C1513	11 Electrical system

Target Date:	Comment:
05/04/2007	

### Subject\*:

2007 EP Entourage Brake Lights

### Condition\*:

- Brake lights stop working and check engine light comes on with code C1513
- Technician check pin tension and wiring, all look good.
- Technician found brake light switch inoperative.
- Technician has installed 3 brake light switches for this concern so far.

### Vehicle History\*:



KNDMC233676 [REDACTED].xls

### Root Cause Analysis\*:

FTS talked to HMA and concern is under investigation.

### Corrective Action\*:

Replace brake light switch.

### Reason(s) vehicle was not previously repaired:

Dealer continues to get affected parts.

### Picture(s) and Attachment(s):



ME002 004.jpg ME002 002.jpg ME002 003.jpg



<b>Did this action resolve condition?</b>	<input checked="" type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>
<b>Condition verified by personal inspection of company employee?</b>	<input checked="" type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>
<b>Were Photos Taken?</b>	<input checked="" type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>
<b>Parts Inspected?</b>	<input checked="" type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>
<b>Parts Sent?</b>	<input checked="" type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>

**KNDMC233776XXXXXX**



## FSE Report

Created by Eric Sim on 07/12/2007 09:47:10 AM.

### \* Required Fields

Submitted by Eric Sim on 07/12/2007 10:03:26 AM. Finalized by Eric Sim on 07/12/2007 10:03:26 AM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
CA182	Entourage (EP)	2007	KNDMC233776 [REDACTED]	5	10/19/2006	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
7	Medium			FPOR	Eric Sim

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
		BR06		11 Electrical system

Target Date:	Comment:
07/12/2007	

#### Subject\*:

2007 EP ENTOURAGE - SHIFTER WILL NOT COME OUT OF PARK

#### Condition\*:

- SHIFTER WILL NOT COME OUT OF PARK

#### Vehicle History\*:

- BRAND NEW VEHICLE IN DEALER INVENTORY

#### Root Cause Analysis\*:

- TECHNICIAN STATED THAT THE PLUNGER WAS STUCK AND WOULD NOT COME OUT
- FSE INSPECTED THE VEHICLE AND THE PLUNGER WAS OPERATING AS DESIGNED
- TECHNICIAN IS GOING TO REPLACE THE BRAKE SWITCH DUE TO THE FACT THAT HE HAD WITNESSED THE PLUNGER GETTING STUCK

#### Corrective Action\*:

- REPLACE BRAKE SWITCH

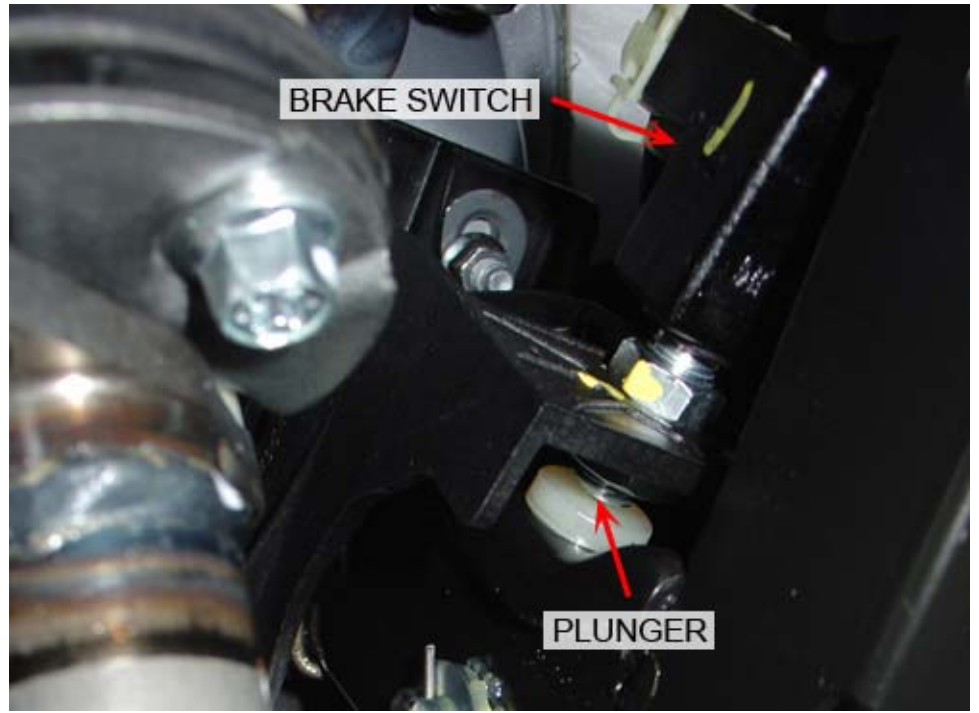
#### Reason(s) vehicle was not previously repaired:

N/A

#### Picture(s) and Attachment(s):

--	--

- PICTURE TO THE RIGHT SHOWS THE BRAKE SWITCH AND THE PLUNGER LOCATED TOWARDS THE BOTTOM



Did this action resolve condition?  Yes  No

Condition verified by personal inspection of company employee?  Yes  No

Were Photos Taken?  Yes  No

Parts Inspected?  Yes  No

Parts Sent?  Yes  No

**KNDMC233876XXXXXX**



## FSE Report

Created by Ron McKendrick on 05/12/2008 11:43:00 AM.

### \* Required Fields

Submitted by Ron McKendrick on 05/12/2008 11:47:49 AM. Finalized by Richard Palahunik on 05/20/2008 04:44:46 PM.

**This case was opened for 7 days.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
PA057	Entourage (EP)	2007	KNDMC233876 [REDACTED]	8,487	10/19/2006	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
7	Medium	1069226	274056 276519	Buyback Inspection	Richard Palahunik

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
SWITCH ASSY-STOP LAMP	93810 3k000	EN02	B1513 - C1513	10 Power train

Target Date:	Comment:
05/12/2008	<p>AFTER INSPECTION. <b>IMPORTANT</b>&gt; PLEASE HAVE DEALER GENERATE A <b>FINAL REPAIR ORDER STIPULATING CUSTOMER BUYBACK COMPLAINT!!!!</b> (Please indicate if repair needed or no problem found – car operating as designed.), AND FAX IT TO - CONSUMER AFFAIRS / EASTERN REGION - <b>ATTN. RON MCKENDRICK AT 609-395-7335 THANKS</b></p> <p>FSE observations: vehicle inspected 5/20/08 @ 10808 miles.</p> <p>multiple repairs for brake light switch - were documented. Rear doors on this van are manual doors (NO POWER) door operation was OK - no sticking or binding noted while opening during the inspection.</p> <p>FSE noted - drivers door rear release handle felt slightly stiff one time while evaluating the door operation - lube all release handles and latches with silicone spray.</p>

**Subject\*:**  
2007 EP > ENTOURAGE - STOP LAMP SWITCH

**Condition\*:**  
BUYBACK INSPECTION - repurchased for Gear shift operation and rear sliding door operation.

### Vehicle History\*:

Dealer Name	Dealer Code	Repair Date Open	Nature Description	Cause Description	Operation Description	Mileage	Repair Order Number	Labor	Parts	Repair Date Close
MIKE KELLY HYUNDAI	PA057	3/13/2008	WARNING LIGHT ON	IMPROPER ADJUSTMENT	ECM UPGRADE 07-36-007 AND 07-3	8,487	680799	31.5	0	3/13/2008
MIKE KELLY HYUNDAI	PA057	11/14/2007	INOPERATIVE	POOR CONTACT & SHORT	MODULE ASSY-ENGINE CONTROL ADD	4,606	672519	18.9	0	11/14/2007
MIKE KELLY	PA057	8/8/2007	INOPERATIVE	POOR CONTACT &	SWITCH ASSY-STOP LAMP	1,334	665511	18.9	9.66	8/8/2007

HYUNDAI				SHORT						
MIKE KELLY HYUNDAI	PA057	8/7/2007	WARNING LIGHT ON	POOR CONTACT & SHORT	SWITCH ASSY-PARK BRAKE	1,241	664834	18.9	0	8/7/2007
MIKE KELLY HYUNDAI	PA057	8/1/2007	WARNING LIGHT ON	POOR CONTACT & SHORT	SWITCH ASSY-PARK BRAKE	1,241	664834	-18.9	0	8/1/2007
MIKE KELLY HYUNDAI	PA057	8/1/2007	WARNING LIGHT ON	POOR CONTACT & SHORT	SWITCH ASSY-PARK BRAKE	1,241	664834	18.9	0	8/1/2007
MIKE KELLY HYUNDAI	PA057	7/30/2007	INOPERATIVE	INCORRECT PART	SERVICE LOAN CAR CLAIM	1,241	664834	0	0	8/7/2007
MIKE KELLY HYUNDAI	PA057	7/23/2007	INOPERATIVE	POOR CONTACT & SHORT	SWITCH ASSY-STOP LAMP	921	663468	18.9	9.34	7/23/2007
MIKE KELLY HYUNDAI	PA057	6/4/2007	SHUDDERING , VIBRATION	RUSTY, CORRODED	REAR BRAKE DISC MACHINING (BOT	303	658768	69.3	0	6/4/2007
MIKE KELLY HYUNDAI	PA057	6/4/2007	SHUDDERING , VIBRATION	BROKEN, SPLIT, TORN	BRAKE DISC MACHINING (BOTH SID	303	658768	69.3	0	6/4/2007
BOWSER HYUNDAI	PA073	1/25/2007	Nature Code	Cause Code	PRE-DELIVERY INSPECTION/SERVI C	8	010407	72	0	1/25/2007

**Root Cause Analysis\*:**

Several stop lamp switch assemblies were not making proper contact to allow the circuit to activate

Manual rear doors were operating as expected no sticking or binding noted.

**Corrective Action\*:**

The stop lamp switch was changed several times - the current stop lamp switch is operating as designed - the gear shifter is operating as expected and desired.

Lube all door release handles - weather strips and hinges.

**Reason(s) vehicle was not previously repaired:**

Did not expect to have multiple defective stop lamp switch assemblies.

**Picture(s) and Attachment(s):**

no

Did this action resolve condition?  Yes  No

Condition verified by personal inspection of company employee?  Yes  No

Were Photos Taken?  Yes  No

Parts Inspected?  Yes  No

Parts Sent?  Yes  No

**KNDMC233876XXXXXX**





## FSE Report

Created by Richard Palahunik on 08/17/2007 10:11:20 AM.

### \* Required Fields

Submitted by Richard Palahunik on 08/17/2007 07:27:02 AM. Finalized by Richard Palahunik on 08/17/2007 07:27:02 AM.

**This case was opened for 1 day.**

Dealer Code*	Model*	Year*	VIN*	Mileage*	Prod. Date	Route to
PA057	Entourage (EP)	2007	KNDMC233876 [REDACTED]	1,334	10/19/2006	FTS

Severity Code*	Priority*	CA Case #	Tech. Case #	Assistance Type	FSE Name*
10	High	1069226	276519	Diagnostic Assistance	Richard Palahunik

Part Name	Part Number	P.C. Code#*	Diag Code#*	TREAD Cat.*
SWITCH ASSY-STOP LAMP(4P)	938103K000	EN02	B1513	11 Electrical system

Target Date:	Comment:
08/17/2007	

### Subject\*:

2007 EP ENTOURAGE - WILL NOT SHIFT OUT OF PARK - ESC LIGHT ON

### Condition\*:

Customer stated the ESC light is on and the vehicle will not shift out of park at times

### Vehicle History\*:

PA057	65511A	665511	8/08/2007	1,334	SWITCH ASSY-STOP LAMP
PA057	664834	664834	7/30/2007	1,241	SERVICE LOAN CAR CLAIM
PA057	63468B	663468	7/23/2007	921	SWITCH ASSY-STOP LAMP
PA057	58768C	658768	6/04/2007	303	BRAKE DISC MACHINING (BOTH SIDE
PA057	58768D	658768	6/04/2007	303	REAR BRAKE DISC MACHINING (BOTH
PA073	010407	010407	1/25/2007	8	PRE-DELIVERY INSPECTION/SERVICE

### Root Cause Analysis\*:

Stop lamp switch - poor / intermittent contact inside switch.

### Corrective Action\*:

Replace stop lamp switch assembly.

Part was retained at dealer.

### Reason(s) vehicle was not previously repaired:

Difficult to reproduce condition. Dealer was only able to reproduce one time.

### Picture(s) and Attachment(s):

NA

Did this action resolve condition?  Yes  No

Condition verified by personal inspection of  Yes  No

**company employee?**

**Were Photos Taken?**  Yes  No

**Parts Inspected?**  Yes  No

**Parts Sent?**  Yes  No