



2003-2007 Ion, HHR, Solstice, Sky, Opel GT, G2X

ETQ N-TBD

Ignition Switch – Unintended Rotation

Vehicles 840,153

Cost Estimate: \$34.3M (Switch Only)

Locations: US, CAN, MEX

Condition:

Front airbag non-deployment has been identified in certain crash events. In those events the ignition switch had moved from RUN to ACCESSORY or OFF.

Effects: The airbags will not deploy if the ignition has moved from RUN.

Root Cause: The ignition switch torque performance may be below specifications.

Service Bulletin: Bulletin #05-2-35-007 – Inadvertent key turning – issued Oct 2005.

Number of Reports:

- 6 allegations of front airbag nondeployment.
Field incidents involve vehicles going off the road or hitting smaller objects shortly before a more significant impact.
- 9 VOQs for “Ignition Off” while driving.
- 224 application of Service Bulletin (the key insert).

Ignition Switch Change: Increased effort for RUN to ACCESSORY.

Potential Field Remedy: Replace ignition switch.

Potential Field Action Category: Safety Recall

Reports - Potential Unintended Key Rotation – U.S. Only

	Cobalt '05-'07	G5 '07	HHR '06-'07	Ion (A) '03-'07	Sol./Sky '06-'07
Airbag Non-Deploy Incidents (# of vehicle reports)	23	2	2	4	0
Fatalities	8	0	0	5	0
Injuries	16	2	2	0	0
Fatality - Insufficient Information*			0	0	0
Injuries - Insufficient Information*			0	2	0
Inconclusive**			0	2	0
VOQs	28	0	5	3	0
Key Insert (Svc. Bulletin)	246	4	37	182	5
Total	297	6	44	189	5
Vehicle Counts	674,547	64,674	213,247	488,957	55,479
IPTV	0.44	0.09	0.21	0.39	0.09

Data Pull 2/20/14

Included Sources:

GM's Legal
Database (Team
Connect)

NHTSA VOQ
Database

(A) Ion uses Class 2 architecture which does not record in ACCESSORY.

* "Insufficient Information" indicates that additional information is being pursued.

** "Inconclusive" indicates that no additional information can be obtained and the incident can not be included or ruled out.

Note: The above counts represent the best judgment based on available data.

Engineering Problem Resolution (PRTS) Summary Ignition Switch Related

- PRTS issued for the following programs:
 - Chevrolet Cobalt/Pontiac G5 3
 - Chevrolet HHR 0
 - Pontiac Solstice 0
 - Saturn Sky 0
 - Saturn Ion 8 *

Source: Brian Thompson, Engineering Manager, Switches & Controls 2/23/2014

*Includes 3 Field Product Reports

Estimated Vehicles Remaining In Service:

Models	2003	2004	2005	2006	2007
Cobalt Produced			160,785	260,724	253,038
Cobalt In Service			129,774	222,324	225,233
G5 Produced					64,674
G5 In Service					57,567
Pursuit Produced			12,665	26,676	
Pursuit In Service			10,222	22,747	
Models	2003	2004	2005	2006	2007
Ion Produced	107,993	132,330	83,707	110,215	110,515
Ion In Service	74,771	99,733	67,562	93,982	98,371
HHR Produced				124,006	109,592
HHR In Service				105,742	97,550
Solstice Produced				21,273	24,018
Solstice In Service				18,140	21,379
Sky Produced					16,504
Sky In Service					14,690
Opel GT					TBD
Daewoo G2X					

778,562 Prod
 667,868
 Remain In
 Service (86%)

840,153 Prod.
 691,921
 Remain In
 Service (82%)