



U.S. Department
of Transportation

**National Highway
Traffic Safety
Administration**

ODI RESUME

Investigation: PE 15-025
Date Opened: 06/19/2015
Investigator: Peter Ong
Approver: Stephen Ridella
Subject: Air Bag Clockspring Wiring Failure

Date Closed: 12/07/2015
Reviewer: Scott Yon

MANUFACTURER & PRODUCT INFORMATION

Manufacturer: Chrysler (FCA US LLC)
Products: 2007-2012 Jeep Wrangler (left hand drive)
Population: 628,167

Problem Description: Air bag light illumination potentially indicating a faulty clockspring assembly in the driver side air bag electrical circuit. An open clockspring circuit would prevent deployment of the driver air bag.

FAILURE REPORT SUMMARY

	ODI	Manufacturer	Total
Complaints:	499	1,703	2,202
Crashes/Fires:	0	6	6
Injury Incidents:	0	1	1
Number of Injuries:	0	4	4
Fatality Incidents:	0	0	0
Other*:	0	16,955	16,955

*Description of Other: Warranty claims for clockspring related repairs.

ACTION / SUMMARY INFORMATION

Action: Upgrade the investigation to EA15-007 (Engineering Analysis)

Summary:

In its response to ODI's PE15-025 Information Request letter, FCA identified 1,703 consumer complaints, field reports and legal claims responsive to the subject defect condition on the subject Wrangler vehicles. Six of these reports alleged an air bag non-deployment in a crash in which either the air bag warning light was allegedly on or came on afterward the crash, one of which also alleged injuries as a result of the non-deployment. FCA also provided data on other make, model and model year vehicles using the same clockspring.

Additionally FCA provided 16,955 warranty claims related to the replacement of the air bag clockspring wiring assembly. It should be noted that FCA initiated an Extended Warranty Program on the left hand drive MY 2007 Wrangler in late calendar year 2011. 6,777 of these claims are from the MY 2007 left hand drive Wrangler. FCA advises that some of the warranty claims involved clockspring failures that would not affect the air bag operation, for example due to noise, cruise control and/or radio operation issues. Many of these claims involved newer model year subject vehicles. FCA also noted that Wrangler's removable roof and door configuration may make it more susceptible to outdoor water/moisture and dust ingress.

ODI investigated the right hand drive Wrangler in calendar year 2011 for a similar clockspring issue under PE11-019. That investigation led to NHTSA Safety Recall 11V258 on right hand drive model year (MY) 2008-2012 Wranglers. FCA redesigned the remedy clockspring to improve its durability and environmental protection and revised the design of the steering wheel to column shroud.

Base on the data reviewed, this Preliminary Analysis (PE) is being upgraded to an Engineering Analysis (EA). The reports cited above are listed in the public investigative file available at SaferCar.gov under this investigation ID.

**ODI NUMBERS FOR 499 VOQ REPORTS
CITED IN EA OPENING RESUME**

10301886	10319561	10331676	10335017	10335571	10350856	10352503
10355490	10376866	10377329	10381026	10383176	10383888	10389697
10389784	10392819	10392834	10393660	10393783	10394503	10395941
10396012	10396712	10396821	10396822	10403792	10404036	10407120
10407310	10408799	10408913	10409150	10409236	10409996	10411154
10412968	10413178	10415088	10415438	10415855	10415989	10416131
10416220	10416401	10420250	10420598	10420604	10420819	10422421
10425278	10426518	10427668	10430060	10432815	10434883	10435704
10435945	10440648	10441516	10443520	10444120	10444135	10444575
10444792	10445932	10447024	10447348	10448111	10448360	10448526
10448640	10448906	10449173	10449505	10449538	10450644	10452272
10454513	10455483	10455870	10456402	10456476	10457841	10458027
10458546	10460968	10461071	10461138	10461201	10462097	10463179
10464342	10465532	10465615	10465620	10466939	10467119	10468384
10468965	10468969	10470580	10470858	10471816	10471966	10473058
10473960	10474184	10475783	10476576	10476820	10477371	10478378
10478675	10479649	10480589	10481244	10482873	10483832	10483922
10483972	10484661	10484878	10485277	10485343	10486151	10486560
10487945	10488889	10490043	10493527	10493777	10493826	10494588
10496187	10498380	10500562	10500810	10501045	10501079	10502213
10502678	10504285	10504835	10505286	10505389	10505715	10505726
10505979	10507339	10507528	10508069	10508433	10508619	10508634
10508775	10508938	10510112	10510379	10510446	10510805	10511034
10511416	10511739	10512039	10512375	10512408	10512588	10512757
10512852	10513192	10513326	10514383	10514670	10514781	10514786
10515352	10515358	10515651	10516248	10520232	10520270	10520341
10520935	10521876	10522148	10522209	10522822	10524504	10525799
10526304	10526461	10531536	10532101	10532697	10532759	10532951
10534240	10534243	10535399	10536192	10536254	10537258	10537515
10538136	10538554	10542180	10542191	10542263	10543474	10543649
10543652	10543879	10544136	10544140	10544210	10544394	10544578
10544652	10545008	10545191	10546462	10546492	10546552	10546611
10547481	10548030	10548094	10548654	10548820	10549215	10549429
10549896	10549899	10550991	10551518	10551530	10551559	10553566
10553784	10554810	10555206	10555543	10555744	10556801	10556912
10557129	10557447	10557591	10558055	10558571	10558581	10558620
10559222	10559254	10559307	10559807	10560269	10560553	10561086
10561149	10561477	10561554	10561584	10562663	10563146	10563402
10563754	10564352	10564759	10564870	10567000	10567310	10568119
10568229	10568720	10569356	10569466	10575304	10576590	10577172
10577359	10578080	10578106	10578320	10578756	10579650	10582798
10582886	10583165	10583442	10583712	10583773	10584004	10585290
10585431	10586126	10586351	10586407	10586500	10588624	10592388

**ODI NUMBERS FOR 499 VOQ REPORTS
CITED IN EA OPENING RESUME**

10592502	10593172	10593516	10594803	10594900	10594903	10596504
10596521	10596840	10597754	10597971	10598320	10598327	10598444
10598716	10598924	10604497	10604999	10605346	10605464	10605512
10606101	10606434	10607452	10607476	10609633	10609780	10610545
10610918	10615197	10615799	10616010	10616145	10618032	10618879
10620984	10621514	10622427	10626229	10626413	10626785	10627190
10628765	10628999	10629109	10629314	10629374	10630282	10631644
10631740	10633144	10637194	10637704	10637856	10638312	10640287
10640714	10641419	10641751	10641830	10643364	10643376	10644367
10648575	10649142	10650335	10650372	10650396	10651162	10651700
10652613	10653091	10654180	10654688	10659864	10660043	10661949
10663031	10667463	10668356	10668525	10669846	10670522	10670812
10670833	10670860	10672146	10676299	10676371	10676865	10678351
10678624	10678625	10678728	10679315	10679354	10679668	10679809
10680385	10680934	10681683	10683941	10684282	10689627	10689817
10689857	10692489	10693443	10694442	10694651	10700705	10701676
10701758	10701876	10702405	10704301	10704641	10704827	10705628
10706230	10706724	10712018	10713014	10713301	10713890	10715378
10715959	10717022	10721005	10721276	10721344	10721589	10721874
10722123	10722693	10723256	10724436	10724872	10725225	10726588
10726968	10727055	10731227	10732430	10732688	10733388	10734831
10735189	10735714	10735845	10743593	10744015	10744335	10744343
10745012	10745639	10746008	10746267	10746279	10746871	10747266
10747586	10747629	10747958	10748212	10748995	10749411	10749806
10759209	10759404	10759551	10759664	10759866	10759883	10759982
10760237	10760483	10760681	10760982	10761859	10764640	10767498
10775426	10776522	10776584	10777918	10778291	10778423	10778654
10779172	10779861	10781052	10781485	10781495	10781861	10783038
10783543	10785034					