

This file represents a consolidation of multiple files sent by the manufacturer. Please use the bookmarks to navigate to each file. (Each bookmark label is the name of the original file.)

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**From:** Mason, Mary (M.A.)  
**Sent:** Tuesday, July 17, 2018 3:12 PM  
**To:** Lemmer, Brian (B.M.); Sanchez, Jorge (J.); Bravo, Carlos (CUBM.); Gallo Rosas, Abraham (A.G.)  
**Cc:** Wickenheiser, Francis (F.J.); Parrish, Will (W.F.)  
**Subject:** 2013-17 Multi-Vehicle - [REDACTED] [REDACTED] Summary Pages  
**Categories:** CCM

Please review and populate the attached summary page as discussed in today's meeting.



Document:  
[REDACTED]

Thank you!!



Regards,

[REDACTED]  
Sr. Safety Engineer  
ASO Internal Investigations  
Phone: 313-805-6288  
Location: FPS, 5048  
[REDACTED]

Plant	Vehicle Line	Region	Material Change Implementation Date @ Assy Plant	Geometry Change Implementation Date @ Assy Plant
<b>Hermosillo</b>	Fusion	NA / AP / SA / MEA	8/28/2017	
	MKZ	NA / AP / SA / MEA	8/28/2017	
<b>Flat Rock</b>		NA	9/6/2013	
	Continental	NA / AP / SA / MEA	aug 2017 ?	
<b>Valencia</b>	Mondeo	EU / AP / MEA / SA	June 2017?	
<b>St. Petersburg</b>	Mondeo	EU / AP / MEA / SA	?	
<b>Chongqing</b>		AP	12/29/2016	
<b>Oakville</b>	Edge	NA / SA / AP / MEA / EU	8/14/2017	
	MKX	NA / SA / AP / MEA	8/14/2017	
<b>Valencia</b>	S-Max/Galaxy	EU / AP / MEA / SA	June 2017?	
<b>Hangzhou</b>	Taurus (China)	AP	9/20/2016	

\* Edge Diesel Import into NA did not get material change

Vehicle Line	As of December 2017			As of July 2018	
	Region	R/1000	TIS	R/1000	TIS
2014 Fusion	NA	0.15	49		
	SA	9.37	47		
2015 Fusion	NA	0.17	37	0.23	46
	SA	0	35	11.42	44
2016 Fusion	NA			0.12	36
	SA			2.58	35
2017 Fusion	NA			0.03	27
	SA			0	21
2014 Mondeo	AP	12.37	48		
2015 Mondeo	AP	10.48	36	10.07	45
	EU	0.64	34	0.76	43
	Turkey			11.48	38
2016 Mondeo	AP	0.9	24	2.2	33
	EU			0.64	32
	Turkey			3.4	30
2017 Mondeo	EU			0	20
	AP			0.24	21
	Turkey			0	13
2014 MKZ	NA	0.81	48		
2015 MKZ	NA	0.4	36	1.26	45
	AP	2.12	33	4.95	42
2016 MKZ	NA			0.51	36
	AP			5.73	31
2017 MKZ	NA			0.06	27
	AP			0.62	21
2015 Edge	NA	0.48	36	0.77	42
	SA				
	AP	25.65	30	31.26	36
	EU				
	WD			6.2	35
2016 Edge	NA	0.2	24	0.54	30
	SA	0	19	0.75	25
	AP	15.6	27	17.16	33
	EU			0	24
	MEA			0.62	23
	WD			3.46	26
2017 Edge	NA			0.1	18
	SA			0	16
	AP	0.88	15	1.41	21
	EU			0	17
	MEA			0	13
	WD			0	14
2016 MKX	AP	1.57	24	12.15	31
	NA			0.9	37
2017 MKX	AP			0.48	13
	NA			0	17
2015 S-Max/Galaxy	EU	0.12	32	0.11	38
2016 S-Max/Galaxy	EU	0.17	26	0.35	32
2017 S-Max/Galaxy	EU			0	20
2018 S-Max/Galaxy	EU			0	8
2017 Continental	NA			0	27
	AP			0	18
2018 Continental	NA			0	12
	AP			0	12
2016 Taurus (China)	AP			3.68	30
2017 Taurus (China)	AP			1.03	22

 Vehicles Lines Previously actioned under FSA 18503  
 Suspect Vehicle Population under investigation

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**From:** Britton, Eric (E.J.)  
**Sent:** Monday, October 25, 2021 4:30 PM  
**To:** [REDACTED]  
**Subject:** 2015 Fusion - NHTSA Complaint Number 11430685

Dear Mr. [REDACTED] - my name is Eric Britton and I was notified by NHTSA of your complaint involving your 2015 Ford Fusion. I am very sorry about the experience you had with your Ford vehicle. I would like to follow up on your complaint to know more details of what happened. I tried to reach you by phone unsuccessfully. Please feel free to contact me at the phone number below if possible.

Reference NHTSA Complaint:

I was in line at a drive thru and my brakes suddenly went to the floor. I was close to home so I drove carefully having to press the brakes all the way to the floor to stop barely. I did a visual inspection and saw brake fluid coming from my right front brake line. The fluid was everywhere. The dashboard light came on when it happened. Thankfully I was not driving on the highway or this could have been fatal. The car is now 6 years old and I get regular oil changes and inspections along with routine maintenance. I carefully drove it early in the morning to a mechanic close by and it was confirmed that my brake hydraulic hose had ruptured. Mechanic says usually doesn't see happening this early on in car life. I have 75,000 on it. He recommended I replace the other 3 but cannot afford right now. The labor is expensive part. Also. Had to perform a brake bleed and add fluids again and clean up. A little over \$400.00 just for that one side. Brake pads themselves are still good. Tires still good. Hope the others don't happen while driving in faster conditions or in traffic. This is dangerous just hope I am the only one in the car when it does happen. Am planning on saving to fix the other hoses soon. I had zero warning indicators before it occurred. No pops squeaks or noises. It was scary I don't trust my Ford and will not drive further than a close to home range.

*Eric Britton*  
*Ford Motor Company*  
Cell [REDACTED]

---

**From:** Britton, Eric (E.J.)  
**Sent:** Monday, June 15, 2020 7:24 PM  
**To:** Krivtsov, Vasiliy (V.)  
**Cc:** Frankstein, Michael (M.); Landry, Mike (M.P.)  
**Subject:** Brake Jounce Hose  
**Attachments:** Claim Key.xlsx

Vasily, can you please advise your approximate timing to create a 10 yr/150,000 mile risk assessment for 2013-2018 MY Edge/Fusion/MKX/MKZ Brake Jounce Hoses repairs in North America. The global list of responsive claim keys is attached, approx. 700 of these repairs were in NA. These claim keys were identified by searching all jounce hose repairs and then reading them to identify the split/burst jounce hoses. Hoses with bubbles or seepage were not included.

Thanks.

*Eric Britton*  
Government Investigations  
Tel. 313-323-2966  
Cell [REDACTED]

Claim Key











































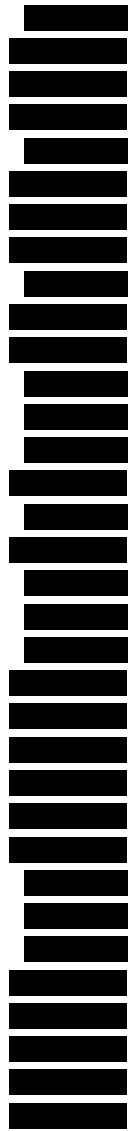












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**From:** Huang, Ed (E.)  
**Sent:** Wednesday, May 26, 2021 12:37 PM  
**To:** Britton, Eric (E.J.)  
**Cc:** Valencia, Frank (F.); Bravo, Carlos (CUBM.); Sanchez, Jorge (J.); Huang, Ed (E.)  
**Subject:** CD4 hose warranty analysis

Eric,

I believe that you are taking the lead on the further analysis of the FNA Fusion/MKZ jounce hose warranty analysis to see if there are any differences between configurations or other parameters that might indicate a difference in claim rates, is that correct?

Please let us know if you need any assistance in this process and thanks for your support!!!

Regards,  
Ed Huang  
Manager, Global Fixed Brake Engineering  
Cell: [REDACTED]  
Email: [ehuang@ford.com](mailto:ehuang@ford.com)



---

**From:** Britton, Eric (E.J.)  
**Sent:** Thursday, July 9, 2020 1:39 AM  
**To:** Landry, Mike (M.P.)  
**Subject:** FW: Brake Hose

I have discussed this data before with Ed and apparently I never made the connection that the 2013-2014 NA Edge was not affected. I knew we had no data. I see now the answer was in in his email.

*Eric Britton*  
Government Investigations  
Tel. 313-323-2966  
Cell [REDACTED]

---

**From:** Huang, Ed (E.) <ehuang@ford.com>  
**Sent:** Wednesday, June 17, 2020 1:59 PM  
**To:** Britton, Eric (E.J.) <ebritton@ford.com>  
**Cc:** Elwell, Thomas (T.J.) <telwell3@ford.com>; Huang, Ed (E.) <ehuang@ford.com>  
**Subject:** RE: Brake Hose

Sorry, I'm not sure why there are so few repairs on 13MY, but it was the same design.

Is it possible that it was a late launch, i.e. 13.95MY and so there was minimal volume for 13MY before 14MY started?

Regards,  
Ed Huang  
Manager, Global Variable Brake Engineering  
Cell: [REDACTED]  
Email: [ehuang@ford.com](mailto:ehuang@ford.com)

---

**From:** Britton, Eric (E.J.) <ebritton@ford.com>  
**Sent:** Wednesday, June 17, 2020 1:52 PM  
**To:** Huang, Ed (E.) <ehuang@ford.com>  
**Cc:** Elwell, Thomas (T.J.) <telwell3@ford.com>  
**Subject:** RE: Brake Hose

Thanks Ed, this is what we need.

Wondering if you know why there are only 10 warranty repairs on the 2013MY Fusion/MKZ? Was the design different? Should we include it in our analysis? Thanks.

Row Labels	2013	2014	2015	2016	2017	Grand Total
Edge			55	109	84	248
Fusion/Mondeo	3	17	23	21	27	91
MKZ	7	26	22	20	15	90
MKX				124	16	140
Fusion					4	4
<b>Grand Total</b>	<b>10</b>	<b>43</b>	<b>100</b>	<b>274</b>	<b>146</b>	<b>573</b>

*Eric Britton*

Government Investigations

Tel. 313-323-2966

Cell [REDACTED]

---

**From:** Huang, Ed (E.) <[ehuang@ford.com](mailto:ehuang@ford.com)>

**Sent:** Wednesday, June 17, 2020 1:41 PM

**To:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>

**Cc:** Elwell, Thomas (T.J.) <[telwell3@ford.com](mailto:telwell3@ford.com)>; Huang, Ed (E.) <[ehuang@ford.com](mailto:ehuang@ford.com)>

**Subject:** RE: Brake Hose

Eric,

Sorry, I don't understand your question regarding 13MY. Do you mean on Fusion/Mondeo and MKZ? The CD4-based Edge and MKX did not start production until 2015.

Here is the timing for implementation of the revised hose designs, see Material Change Implementation Date column for US products. Only the markets affected by the prior FSA received the subsequent robustness action (Geometry Change):

Plant	Vehicle Line	Region	Material Implementation @ Assy
Hermosillo	Fusion	NA / SA / AP / MEA / WD	7/19/2
		Affected Markets	All
	MKZ	NA / AP / MEA / WD	7/19/2
		Affected Markets	All
Flat Rock	Fusion	NA / SA / AP / MEA / WD	No Longer In
	Continental	NA / AP / MEA / WD	2/15/2
		Affected Markets	All
Oakville	Edge	NA / SA / EU / AP / MEA / WD	12/21 Diesel: 1:
		Affected Markets	All
	MKX	NA / AP / MEA / WD	12/21
		Affected Markets	All
Valencia	Mondeo	EU / AP / MEA / WD	6/9/21
		Affected Markets	All
	S-Max/Galaxy	EU / AP / SA / WD	10/5/2
		Affected Markets	All
St. Petersburg	Mondeo	EU / AP / MEA / WD	7/9/21
		Affected Markets	All
Chongqing	Mondeo	China	12/29/
		Affected Markets	Chin
Hangzhou	Edge	China	01/16/
		Affected Markets	Chin
	Taurus	China	3/14/2
		Affected Markets	Chin

Regards,  
Ed Huang  
Manager, Global Variable Brake Engineering  
Cell: [REDACTED]  
Email: [ehuang@ford.com](mailto:ehuang@ford.com)

---

**From:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Sent:** Wednesday, June 17, 2020 12:54 PM  
**To:** Huang, Ed (E.) <[ehuang@ford.com](mailto:ehuang@ford.com)>  
**Cc:** Elwell, Thomas (T.J.) <[telwell3@ford.com](mailto:telwell3@ford.com)>  
**Subject:** Brake Hose

Ed, Tom will be completing the 10yr/150,000mi projection for these vehicles and we need to understand the correct population.

Please see the list of brake hose claims below for the U.S. When were the new hoses implemented in production? Why didn't we have more reports in 2013MY?

Row Labels	2013	2014	2015	2016	2017	Grand Total
Edge			55	109	84	248
Fusion/Mondeo	3	17	23	21	27	91
MKZ	7	26	22	20	15	90
MKX				124	16	140
Fusion					4	4
<b>Grand Total</b>	<b>10</b>	<b>43</b>	<b>100</b>	<b>274</b>	<b>146</b>	<b>573</b>

Thanks for your help.

*Eric Britton*  
Government Investigations  
Tel. 313-323-2966  
Cell [REDACTED]

---

**From:** Parrish, Will (W.F.)  
**Sent:** Wednesday, November 16, 2016 2:36 PM  
**To:** Petrovski, Michael (M.)  
**Subject:** FW: CD391 Brake hose

**Tracking:**                      **Recipient**                      **Read**  
Petrovski, Michael (M.)                      Read: 11/16/2016 4:05 PM

Good morning Mike,

There have been a few inquiries from the AP team on when we will have a follow up review with the larger forum (ASO, etc.). From your perspective, when do you think the team will be ready to come back to CCRG/TRG for an update. Thanks.

*Will Parrish*

Critical Concern Engineer  
Desk: 313-594-2075 / Mobile: [REDACTED]  
PDC GC-D26A / Mail Drop #327  
E-Mail: [wparris1@ford.com](mailto:wparris1@ford.com)

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**From:** Briggs, Bill (B.)  
**Sent:** Sunday, November 06, 2016 8:03 PM  
**To:** Parrish, Will (W.F.)  
**Subject:** CD391 Brake hose

Hi Will,

I have not heard anything recently on the CD391 brake hose. How is the investigation progressing?

Regards,

**Bill Briggs**

CCM AP  
(Critical Concern Manager - Asia Pacific)  
RDC, Geelong, Australia  
Tel: 279-6717 (+61 3 5279 6717)

Mobile: [REDACTED]  
E-mail: [bbriggs1@ford.com](mailto:bbriggs1@ford.com)

---

**From:** Valencia, Frank (F.)  
**Sent:** Friday, July 23, 2021 4:59 PM  
**To:** Sanchez, Jorge (J.)  
**Subject:** FW: Executive Safety TRG: 2013-2018 Fusion/MKZ/Mondeo/S-Max/Galaxy (20-207) <PRIVATE>

**Sensitivity:** Private

See Ed's comments below. Do we have an answer for targeting a subset fusions in NA?

**Frank Valencia**

Manager, Global Variable Brake Engineering  
Ford Motor Company  
Cell Phone: + [REDACTED]



---

**From:** Huang, Ed (E.) <ehuang@ford.com>  
**Sent:** Friday, July 23, 2021 12:52 PM  
**To:** Valencia, Frank (F.) <fvalenci@ford.com>  
**Cc:** Huang, Ed (E.) <ehuang@ford.com>  
**Subject:** RE: Executive Safety TRG: 2013-2018 Fusion/MKZ/Mondeo/S-Max/Galaxy (20-207) <PRIVATE>  
**Sensitivity:** Private

I think we are on the hook from the last TRG to determine if there is any opportunity to target a subset of Fusion/MKZ hoses in NA.

I think you will want to take Chad/Chris/Greg through whatever that latest analysis shows, as they are already aware of the increase in overall projected warranty at 120month/150K miles, but we need to get aligned ahead of the TRG that there is or is not an opportunity to target a subset instead of the whole population at this time.

Regards,  
Ed Huang  
Manager, Global Fixed Brake Engineering  
Cell: [REDACTED]  
Email: [ehuang@ford.com](mailto:ehuang@ford.com)



**From:** Valencia, Frank (F.) <[fvalenci@ford.com](mailto:fvalenci@ford.com)>  
**Sent:** Friday, July 23, 2021 12:49 PM  
**To:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Cc:** Huang, Ed (E.) <[ehuang@ford.com](mailto:ehuang@ford.com)>  
**Subject:** RE: Executive Safety TRG: 2013-2018 Fusion/MKZ/Mondeo/S-Max/Galaxy (20-207) <PRIVATE>  
**Sensitivity:** Private

Eric,

Who is lead presenter for this TRG? Do you need anything from my team between now and then?

Thanks,

**Frank Valencia**  
Manager, Global Variable Brake Engineering  
Ford Motor Company  
Cell Phone: + [REDACTED]



-----Original Appointment-----

**From:** Lambert, Lauralee (L.A.) <[llambe27@ford.com](mailto:llambe27@ford.com)> **On Behalf Of** Ujkashevic, Desi (D.)  
**Sent:** Friday, July 23, 2021 12:18 PM  
**To:** Schop, Christopher (C.D.); Parrish, Will (W.F.); Britton, Eric (E.J.); Gardner, Greg (G.D.); Allard, Christopher (C. E.); Petrovski, Michael (M.); Valencia, Frank (F.); Huang, Ed (E.); Bravo, Carlos (CUBM.); Sanchez, Jorge (J.); Brezee, Shane (S.B.); Landry, Mike (M.P.); Neborg, Kai (K.); Zacharski, Jessica (J.L.); Trent, Matt (M.); Green, Ann (A.D.)  
**Subject:** Executive Safety TRG: 2013-2018 Fusion/MKZ/Mondeo/S-Max/Galaxy (20-207) <PRIVATE>  
**When:** Wednesday, July 28, 2021 8:20 AM-9:00 AM (UTC-05:00) Eastern Time (US & Canada).  
**Where:** WebEx  
**Sensitivity:** Private

**Requester:** Desi Ujkashevic (Lauralee A. Lambert #84-54321 / LLAMBE27)  
*(Region(s): NA, EU)*  
**Alternate Host(s):** Will Parrish and Eric Britton

Join Meeting

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T32MC04

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**From:** Britton, Eric (E.J.)  
**Sent:** Thursday, June 18, 2020 3:17 PM  
**To:** Landry, Mike (M.P.)  
**Subject:** Hose VOQs  
**Attachments:** EDGE FUSION MKX MKZ BRAKE LINE VOQs\_NHTSA\_JUN 8 2020.xlsx

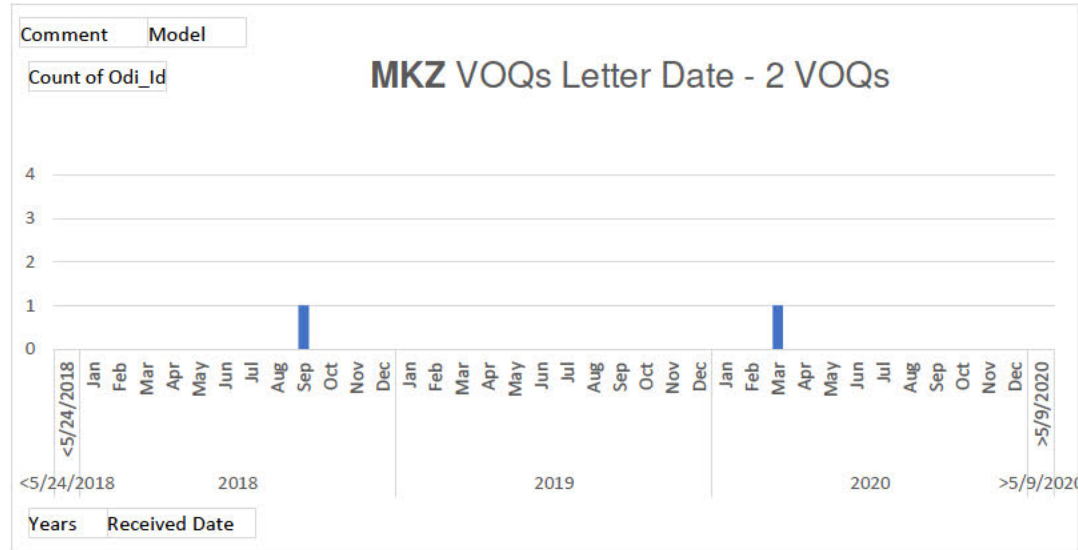
As requested.

*Eric Britton*  
Government Investigations  
Tel. 313-323-2966  
Cell [REDACTED]

Comment	(Multiple Items)
Model	MKZ

Row Labels	Count of Odi_Id
------------	-----------------

<5/24/2018	
<5/24/2018	
<b>2018</b>	<b>1</b>
Jan	
Feb	
Mar	
Apr	
May	
Jun	
Jul	
Aug	
Sep	1
Oct	
Nov	
Dec	
<b>2019</b>	
Jan	
Feb	
Mar	
Apr	
May	
Jun	
Jul	
Aug	
Sep	
Oct	
Nov	
Dec	
<b>2020</b>	<b>1</b>
Jan	
Feb	
Mar	1
Apr	
May	
Jun	
Jul	
Aug	
Sep	
Oct	
Nov	
Dec	
>5/9/2020	
>5/9/2020	
<b>Grand Total</b>	<b>2</b>



Comment	(Multiple Items)
Model	MKX

Row Labels	Count of Odi_Id
------------	-----------------

<5/24/2018

<5/24/2018

2018

Jan  
Feb  
Mar  
Apr  
May  
Jun  
Jul  
Aug  
Sep  
Oct  
Nov  
Dec

2019

1

Jan  
Feb  
Mar  
Apr  
May  
Jun  
Jul  
Aug  
Sep  
Oct  
Nov  
Dec

2020

1

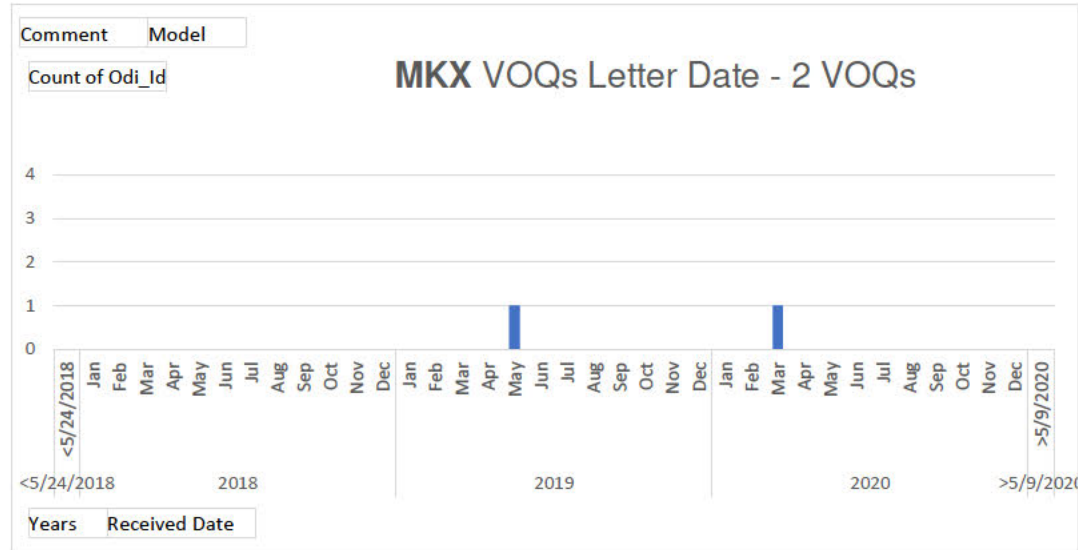
Jan  
Feb  
Mar  
Apr  
May  
Jun  
Jul  
Aug  
Sep  
Oct  
Nov  
Dec

>5/9/2020

>5/9/2020

Grand Total

2



Comment	(Multiple Items)
Model	FUSION

Row Labels	Count of Odi_Id
------------	-----------------

<5/24/2018

<5/24/2018

2018 4

Jan

Feb

Mar

Apr

May 1

Jun

Jul

Aug 1

Sep

Oct 2

Nov

Dec

2019 10

Jan

Feb

Mar

Apr 1

May

Jun 3

Jul 2

Aug

Sep 3

Oct

Nov

Dec 1

2020 1

Jan

Feb 1

Mar

Apr

May

Jun

Jul

Aug

Sep

Oct

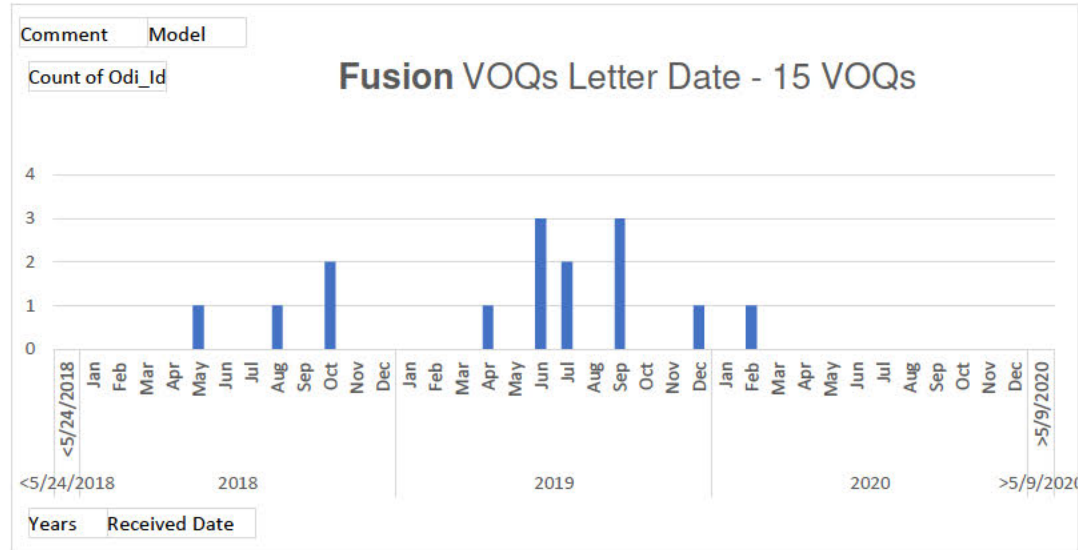
Nov

Dec

>5/9/2020

>5/9/2020

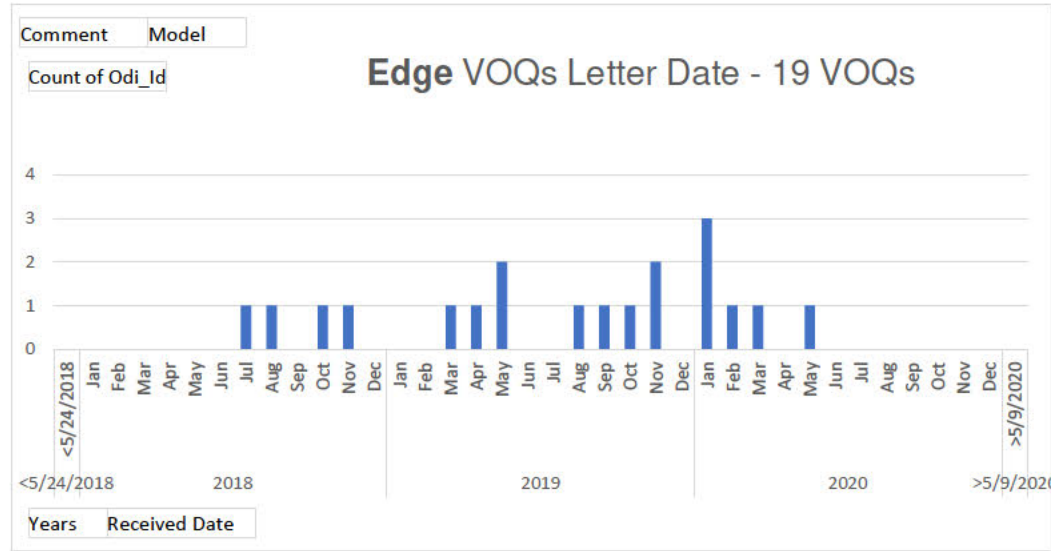
Grand Total 15



Comment	(Multiple Items)
Model	EDGE

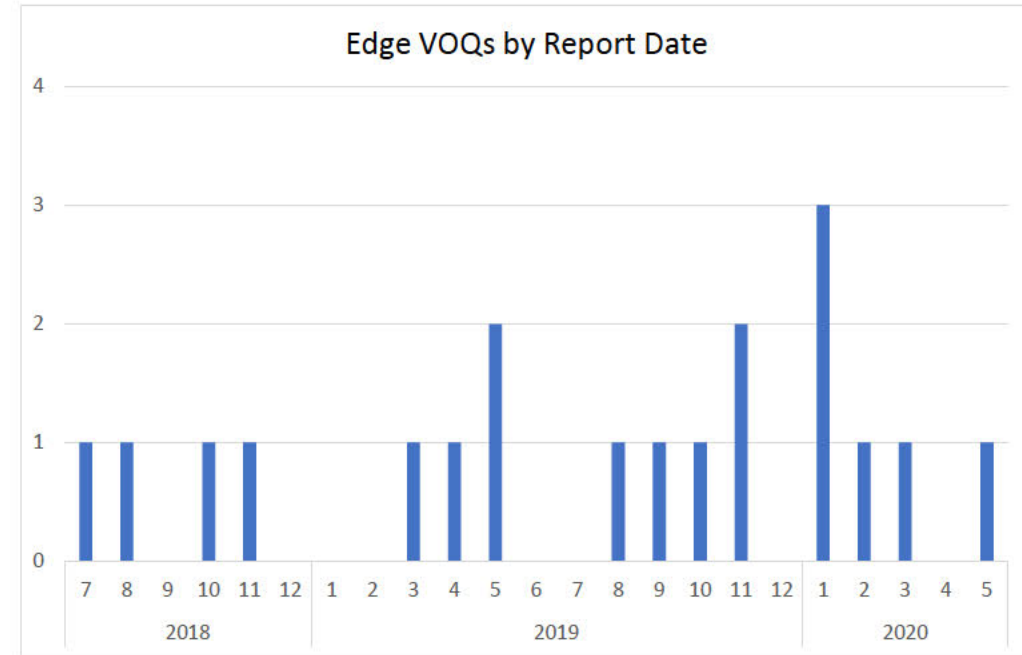
Row Labels	Count of Odi_Id
------------	-----------------

Row Labels	Count of Odi_Id
<5/24/2018	
<5/24/2018	
<b>2018</b>	<b>4</b>
Jan	
Feb	
Mar	
Apr	
May	
Jun	
Jul	1
Aug	1
Sep	
Oct	1
Nov	1
Dec	
<b>2019</b>	<b>9</b>
Jan	
Feb	
Mar	1
Apr	1
May	2
Jun	
Jul	
Aug	1
Sep	1
Oct	1
Nov	2
Dec	
<b>2020</b>	<b>6</b>
Jan	3
Feb	1
Mar	1
Apr	
May	1
Jun	
Jul	
Aug	
Sep	
Oct	
Nov	
Dec	
>5/9/2020	
>5/9/2020	
<b>Grand Total</b>	<b>19</b>



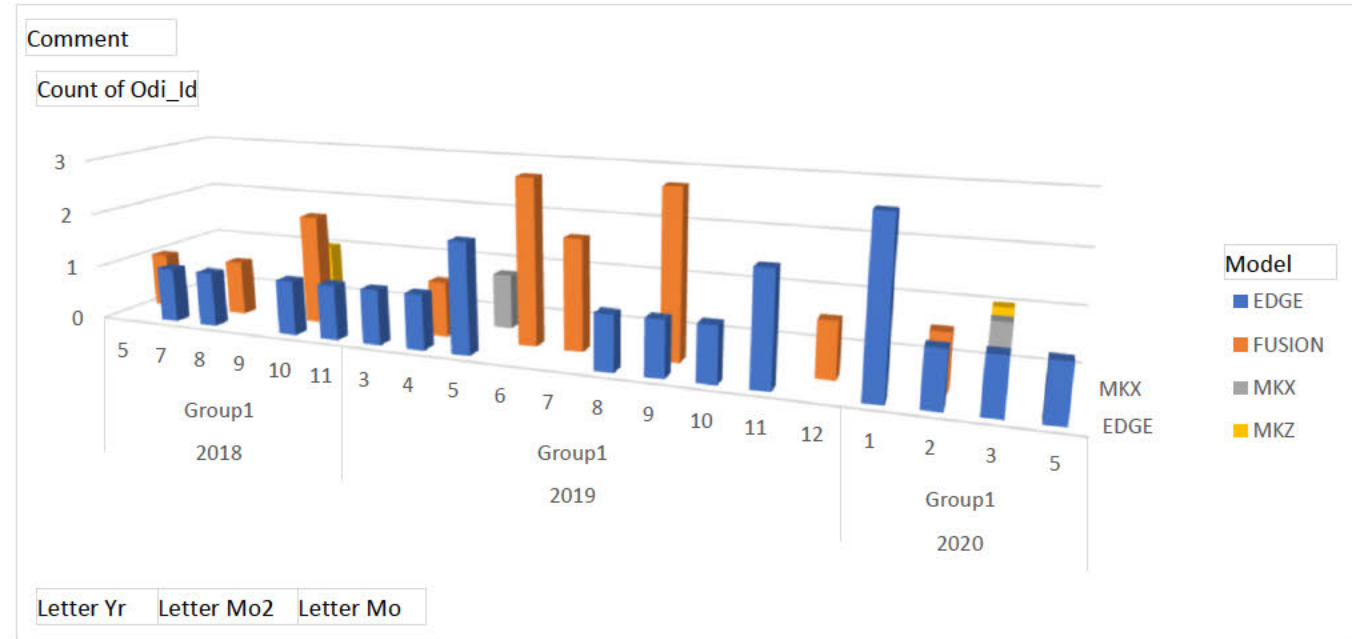
	Prod Yr	Prod Mo
2018	7	1
	8	1
	9	
	10	1
	11	1
	12	
2019	1	
	2	
	3	1
	4	1
	5	2
	6	
	7	
	8	1
	9	1
	10	1
	11	2
	12	
2020	1	3
	2	1
	3	1
	4	
	5	1
Grand Total		16

Row Label:EDGE	FUSION	MKX	MKZ	Grand Total
2018	4	4		9
5		1		1
7	1			1
8	1	1		2
9			1	1
10	1	2		3
11	1			1
2019	9	10	1	20
3	1			1
4	1	1		2
5	2		1	3
6		3		3
7		2		2
8	1			1
9	1	3		4
10	1			1
11	2			2
12		1		1
2020	6	1	1	9
1	3			3
2	1	1		2
3	1		1	3
5	1			1
Grand Total	19	15	2	38



Comment (Multiple Items)

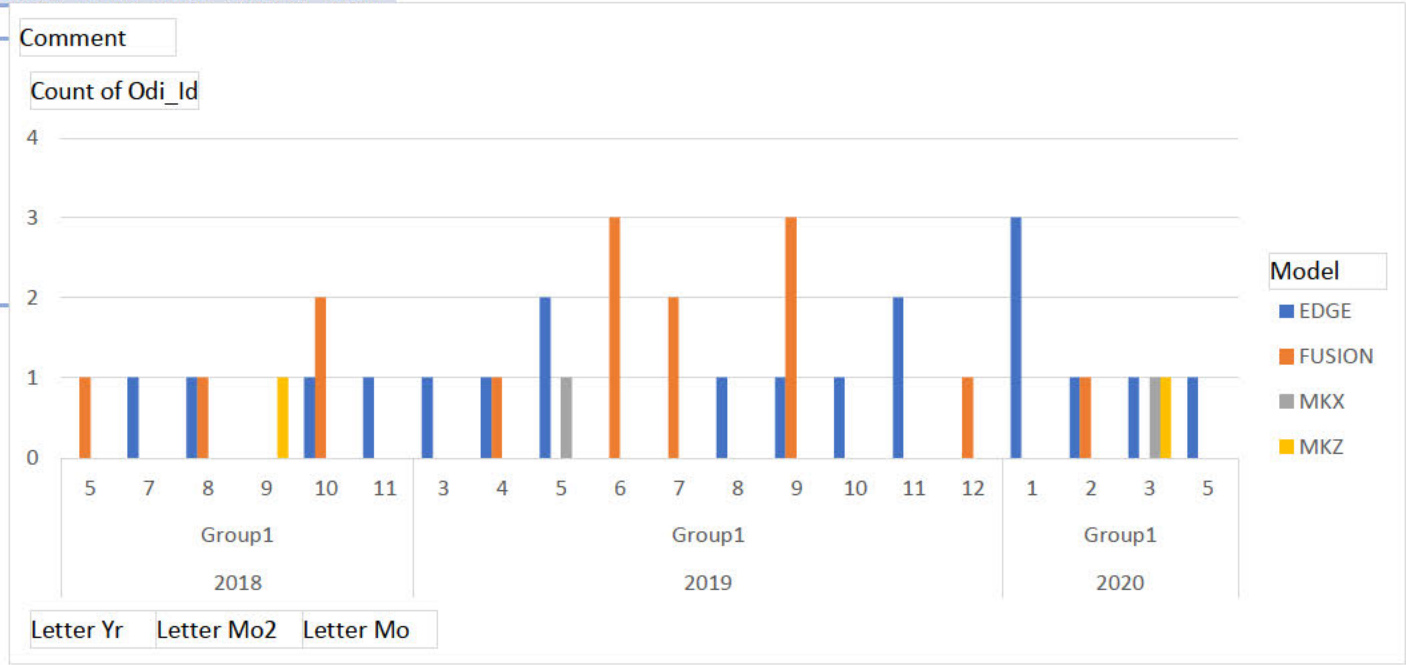
Count of Odi_Id	Column Labels	FUSION	MKX	MKZ	Grand Total
<b>2018</b>	<b>EDGE</b>	<b>4</b>	<b>4</b>	<b>1</b>	<b>9</b>
<b>Group1</b>		<b>4</b>	<b>4</b>	<b>1</b>	<b>9</b>
5		1			1
7		1			1
8		1	1		2
9				1	1
10		1	2		3
11		1			1
<b>2019</b>		<b>9</b>	<b>10</b>	<b>1</b>	<b>20</b>
<b>Group1</b>		<b>9</b>	<b>10</b>	<b>1</b>	<b>20</b>
3		1			1
4		1	1		2
5		2	1		3
6			3		3
7			2		2
8		1			1
9		1	3		4
10		1			1
11		2			2
12			1		1
<b>2020</b>		<b>6</b>	<b>1</b>	<b>1</b>	<b>9</b>
<b>Group1</b>		<b>6</b>	<b>1</b>	<b>1</b>	<b>9</b>
1		3			3
2		1	1		2
3		1		1	3
5		1			1
<b>Grand Total</b>		<b>19</b>	<b>15</b>	<b>2</b>	<b>38</b>



Comment (Multiple Items)

Count of Odi\_Id Column Labels  
 Row Labels EDGE FUSION MKX MKZ Grand Total

Year	Row Labels	EDGE	FUSION	MKX	MKZ	Grand Total
2018	<b>Group1</b>	<b>4</b>				<b>4</b>
	5					
	7	1				1
	8	1				1
	9					
	10	1				1
2019	<b>Group1</b>	<b>9</b>				<b>9</b>
	3	1				1
	4	1				1
	5	2				2
	6					
	7					
	8	1				1
	9	1				1
	10	1				1
	11	2				2
	12					
	2020	<b>Group1</b>	<b>6</b>	<b>1</b>	<b>1</b>	<b>1</b>
1		3				3
2		1	1			2
3		1		1	1	3
5		1				1
<b>Grand Total</b>		<b>19</b>	<b>15</b>	<b>2</b>	<b>2</b>	<b>38</b>



Received Date	Letter Yr	Letter Mo	Odi_Id	MY	Make	Model	Vin	Accident?	Descr	Incidence Date	Crash	Fire
24-May-18	2018	5	11097721	2015	FORD	FUSION	3FA6P0D92FR		VEHICLE WAS IN MOTION AFTER EXITING THE FREEWAY FROM A 45 MINUTE DRIVE AT 70 MPH. BRAKES NEEDED MORE P	23-May-18	N	N
07/10/18	2018	7	11110647	2016	FORD	EDGE			MY BRAKES WERE SEVERED FROM INSIDE THE ENGINE. I HAD NO BRAKES DRIVING AND I AM IN SALES AND DRIVE	07/03/18	N	N
16-Aug-18	2018	8	11120228	2014	FORD	FUSION	3FA6P0K98ER		FRONT BRAKE HOSES RUPTURED 3 MONTHS APART. LEFT FAILED FIRST. WHILE STOPPED AT A RED LIGHT THE PEDAL G	22-May-18	N	N
08/31/18	2018	8	11123824	2016	FORD	EDGE		Accident	BRAKES FAILED AND ACCIDENT RESULTED	08/22/18	Y	N
13-Sep-18	2018	9	11129392	2014	LINCO	MKZ	3LN6L2J91ER		TL* THE CONTACT OWNS A 2014 LINCOLN MKZ. WHILE DRIVING 35 MPH THE BRAKE PEDAL WAS DEPRESSED AND FAILED	12-Sep-18	N	N
29-Oct-18	2018	10	11143630	2013	FORD	FUSION	3FA6P0K93DR		RANDOM FAILURE OF LEFT FRONT BRAKE HOSE FROM BODY LINE TO BRAKE CALIPER. VEHICLE HAD ONLY 66214 MILE	3-Oct-18	N	N
28-Oct-18	2018	10	11143454	2015	FORD	FUSION	3FA6P0K94FR		I HAD TO REPLACE THE FRONT PASSENGER BRAKE LINE IN 2017 DUE TO A LEAK. LESS THAN A YEAR LATER JULY 2018 T	7-Sep-17	N	N
10/04/18	2018	10	11133287	2015	FORD	EDGE	2FMTK3G93FE		2015 FORD EDGE WITH 45, 250 MILES. I WAS DRIVING ALONG AND WENT TO APPLY MY BRAKES. THE PEDAL WENT TO	09/29/18	N	N
11/20/18	2018	11	11152848	2016	FORD	EDGE			TL* THE CONTACT OWNS A 2016 FORD EDGE. WHILE THE CONTACT'S WIFE WAS DRIVING 25-35 MPH, SHE HEARD AN	10/01/18	N	N
03/26/19	2019	3	11191743	2016	FORD	EDGE			SUDDEN FAILURE OF BRAKES (PEDAL DEPRESSED TO FLOOR) PULLING OUT OF STORE PARKING LOT. FORD REPAIR	03/21/19	N	N
17-Apr-19	2019	4	11196909	2015	FORD	FUSION	3FA6P0HD3FR		RIGHT FRONT BRAKE HOSE BLOWN. ENGINE FLUID LEAK. COOLANT IS ABSORBED BY ENGINE TO COMBUSTION CHAMB	10-Apr-19	N	N
04/11/19	2019	4	11195530	2016	FORD	EDGE			STARTED VEHICLE BY PUSHING THE BRAKE AND HEARD A NOISE. CAR STARTED AND THE BRAKE PEDAL WENT TO	04/07/19	N	N
28-May-19	2019	5	11210287	2016	LINCO	MKX	2LMPJ9JP6GB		3/8/19 RIGHT FRONT BRAKE LINE AT THE CALIPER SPLIT AT 51000 MILES COMPLETE LOSS OF FLUID AND BRAKES WHILE	8-Mar-19	N	N
05/10/19	2019	5	11206889	2017	FORD	EDGE			HI	05/01/19	N	N
05/31/19	2019	5	11217156	2016	FORD	EDGE			WHILE DRIVING THE BRAKES FAILED, PEDAL WENT TO THE FLOOR AND I COULD NOT STOP. DEALER SAID FRONT	05/20/19	N	N
1-Jun-19	2019	6	11217282	2015	FORD	FUSION	3FA6P0HD7FR		UNDER NORMAL DRIVING CONDITIONS ON A SUNDAY EVENING I BEGAN TO NOTICE A DECREASE IN BRAKE PRESSURE	5-May-19	N	N
28-Jun-19	2019	6	11228240	2015	FORD	FUSION	1FA6P0HD7F5		TL* THE CONTACT OWNS A 2015 FORD FUSION. WHILE THE VEHICLE WAS MAKING A U TURN THE BRAKE PEDAL WAS DEF	20-Jun-19	N	N
19-Jun-19	2019	6	11221111	2015	FORD	FUSION	3FA6P0H91FR		OPERATING UNDER NORMAL DRIVING CONDITIONS VEHICLE BRAKE PADDLE DROPPED TO THE FLOOR WHEN STOPPING	17-Jun-19	N	N
10-Jul-19	2019	7	11230669	2014	FORD	FUSION	3FA6P0K92ER		SEPTEMBER 2018 AT 75382 MILES FRONT LEFT BREAK HOSE RUPTURED CAUSING COMPLETE BREAK FAILURE IN JUNE 2	16-Jun-19	N	N
24-Jul-19	2019	7	11234622	2015	FORD	FUSION	3FA6P0K95FR		BACK ON 2/24/2019 I WAS BEHIND A VEHICLE THAT HAD TO SLAM IN THEIR BRAKES. I IMMEDIATELY SLAMMED ON MY BRA	24-Feb-19	Y	N
08/27/19	2019	8	11246635	2016	FORD	EDGE			FRONT DRIVER SIDE BRAKE LINE BURST WHILE DRIVING (APPLYING THE BRAKE DURING A TURN ON A CITY STREET),	08/27/19	N	N
5-Sep-19	2019	9	11253479	2015	FORD	FUSION	3FA6P0K9XFR		I WAS PARKED WITH MY VEHICLE OFF. WHEN I TURNED ON MY VEHICLE AND PUT IT IN REVERSE TO BACK OUT OF MY P	5-Sep-19	N	N
4-Sep-19	2019	9	11253244	2015	FORD	FUSION	3FA6P0K95FR		WHILE MY WIFE WAS IN A DRIVE THRU MOVING FORWARD SLOWLY SHE REPORTED THAT THE RAKE PEDAL DEPRESSE	2-Sep-19	N	N
11-Sep-19	2019	9	11254787	2015	FORD	FUSION	3FA6P0HD9FR		ON WEDNESDAY JULY 3 2019 I NOTICED WHEN I GOT INTO MY CAR IN THE MORNING THAT MY BRAKE PEDAL SEEMED SC	7-Jul-19	N	N
09/21/19	2019	9	11257086	2016	FORD	EDGE	2FMPK4K95GE		RIGHT FRONT BRAKE LINE FAILED RESULTING IN REDUCED BRAKING AND THE PEDAL GOING TO THE FLOOR	09/21/19	N	N
9-Oct-19	2019	10	11267514	2015	FORD	FUSION	3FA6P0H9XFR		ACTUALLY THIS HAPPENED TO ME TWICE. I WAS PARKED AND WHEN I TOUCHED THE BRAKES TO GO INTO REVERSE BU	21-May-19	N	N
16-Oct-19	2019	10	11268990	2016	FORD	EDGE	2FMPK3G92GB		IT BEGAN WITH THE DRIVER SIDE THE BRAKE LINE STARTED LEAKING AND THE BRAKE PEDAL NEEDED TO BE PUSHED T	14-Oct-19	N	N
26-Nov-19	2019	11	11282558	2016	FORD	EDGE	2FMPK4J95GB		MY FIANCE WAS DRIVING HER VEHICLE WHEN SHE PRESSED THE BRAKE AND IT SEEMED TO GO TO THE FLOOR. IT WAS	15-Nov-19	N	N
15-Nov-19	2019	11	11280444	2016	FORD	EDGE	2FMPK3J92GB		LEFT FRONT BRAKE HOSE RUPTURED. I WAS DRIVING AND THE CHECK BRAKE LIGHT CAME ON. ADDED BRAKE FLUID.	9-Nov-19	N	N
31-Dec-19	2019	12	11292271	2015	FORD	FUSION	3FA6P0HDXFR		TL* THE CONTACT OWNS A 2015 FORD FUSION. WHILE DRIVING 25 MPH THE DRIVER'S SIDE BRAKE LINE MALFUNCTIONE	26-Nov-19	N	N
28-Jan-20	2020	1	11302571	2016	FORD	EDGE	2FMPK4AP7GB		11/2018 - WHILE PARKED IN MY DRIVEWAY I PRESSED BRAKE TO START CAR CAR JERKED AND PEDAL WENT TO THE FLO	27-Jan-20	N	N
6-Jan-20	2020	1	11297414	2017	FORD	EDGE	2FMPK4K90HB		WAS DRIVING HOME FROM WORK WHEN I REALIZED MY BRAKE HAD DECOMPRESSED AND WENT ALL THE WAY TO THE F	20-Dec-19	N	N
2-Jan-20	2020	1	11292535	2016	FORD	EDGE	2FMPK4J98GB		TL* THE CONTACT OWNS A 2016 FORD EDGE. WHILE DRIVING THE BRAKES FAILED AND THE BRAKE PEDAL TRAVELED TO	30-Dec-19	N	N
21-Feb-20	2020	2	11310529	2013	FORD	FUSION	3FA6P0HR4DR		TL* THE CONTACT OWNS A 2013 FORD FUSION. THE CONTACT STATED THAT WHILE DRIVING AT 40MPH THE VEHICLE RO	1-Nov-12	N	N
21-Feb-20	2020	2	11310628	2017	FORD	EDGE	2FMPK3J92HB		ON 02/20/2020 WHILE DRIVING THE VEHICLE ON A CITY STREET AND APPROACHING A STOP LIGHT THE BRAKE PEDAL W	20-Feb-20	N	N
28-Mar-20	2020	3	11319596	2015	LINCO	MKZ	3LN6L2J93FR		I JUST HAD MY STATE INSPECTION IN JAN. ON 3.28.20 I GOT INTO THE CAR STARTED IT. I PLACED THE CAR IN REVERSE P	27-Mar-20	N	N
9-Mar-20	2020	3	11317125	2016	LINCO	MKX	2LMTJ8LP9GB		EXITED OFF FREEWAY BRAKE PEDAL POPPED AND WENT ALL THE TO THE FLOOR. I HAD NO BRAKES! RIGHT FRONT B	6-Mar-20	N	N
11-Mar-20	2020	3	11317440	2016	FORD	EDGE	2FMPK4J90GB		ONE EVENING IN MAY 2018 TOOK MY CAR TO GET GAS AND FELT THE BRAKES TOO SOFT. WHEN LEAVING THE GAS STA	7-Mar-20	N	N
8-May-20	2020	5	11323848	2015	FORD	EDGE	2FMTK3J96FB		THE BRAKE HOSE SPLIT WHILE DRIVING. I LOST BRAKE PEDAL. THE PEDAL WENT ALL THE WAY TO THE FLOOR WITH NO	7-May-20	N	N

Injured	Deaths	F_Miles	Cmpt_Descr	Veh_Sp	Comment
		47000	SERVICE BRAKES	70	Y
NULL	NULL	44000	BRAKES (PWS)	45	No VIN
		56500	SERVICE BRAKES	0	Y
NULL	NULL	22000	BRAKES (PWS)	20	No VIN
		55000	SERVICE BRAKES	35	Y
		66	SERVICE BRAKES	20	Y
		35000	SERVICE BRAKES	60	Y
NULL	NULL	44250	BRAKES (PWS)	40	Dealer system diagnostic found
NULL	NULL	173000	BRAKES (PWS)	25	No VIN
NULL	NULL	12080	BRAKES (PWS)	10	No VIN
		103555	SERVICE BRAKES	10	Y
NULL	NULL	62813	BRAKES (PWS)	0	No VIN
		51000	SERVICE BRAKES	30	Y
NULL	NULL	51752	BRAKES (PWS)	10	No VIN
NULL	NULL	40000	BRAKES (PWS)	10	No VIN
		52000	SERVICE BRAKES	60	Y
0	0	69375	SERVICE BRAKES		Y
		87120	SERVICE BRAKES	40	Y
		84143	SERVICE BRAKES	0	Y
			SERVICE BRAKES	35	Y
NULL	NULL	27800	BRAKES (PWS)	45	No VIN
		61000	SERVICE BRAKES	0	Y
		86000	SERVICE BRAKES	5	Y
		75000	SERVICE BRAKES	0	Y
NULL	NULL	48000	BRAKES (PWS)	25	Replaced Brake Booster per SSM
		50554	SERVICE BRAKES	0	POSSIBLE
N		42875	SERVICE BRAKES		No VIN
N		24250	SERVICE BRAKES		No VIN
N		74199	SERVICE BRAKES		No VIN
		86000	SERVICE BRAKES	25	Y
N		75000	SERVICE BRAKES		No VIN
N		45000	SERVICE BRAKES		No VIN
N		38000	SERVICE BRAKES		No VIN
		50000	SERVICE BRAKES	40	Y
		67000	SERVICE BRAKES		No VIN
		66500	SERVICE BRAKES	2	Y
		84000	SERVICE BRAKES	30	Y
		49500		30	
		67000		25	

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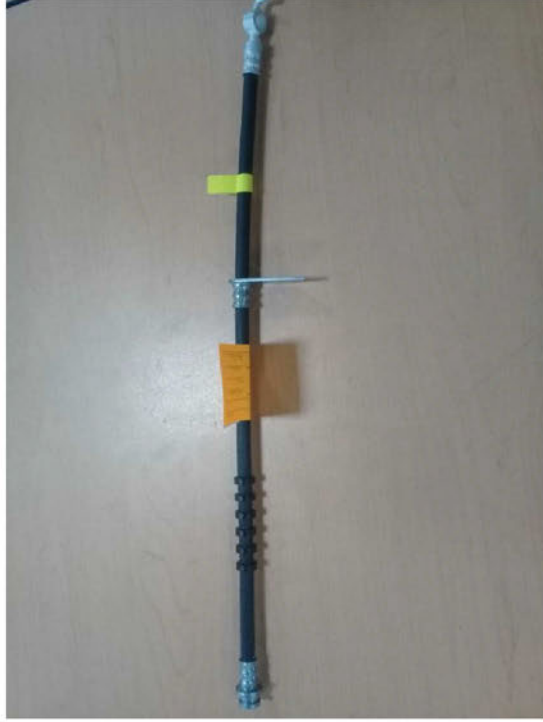
**From:** Britton, Eric (E.J.)  
**Sent:** Tuesday, July 28, 2020 4:35 PM  
**To:** Sanchez, Jorge (J.)  
**Subject:** Jounce Hose

Jorge, did you include Fusion Hybrid in your data search for split hoses? I noticed there are no reports

*Eric Britton*  
Government Investigations  
Tel. 313-323-2966  
Cell [REDACTED]

# PPAP Master Sample

Part number: DG9C-2B557-AG

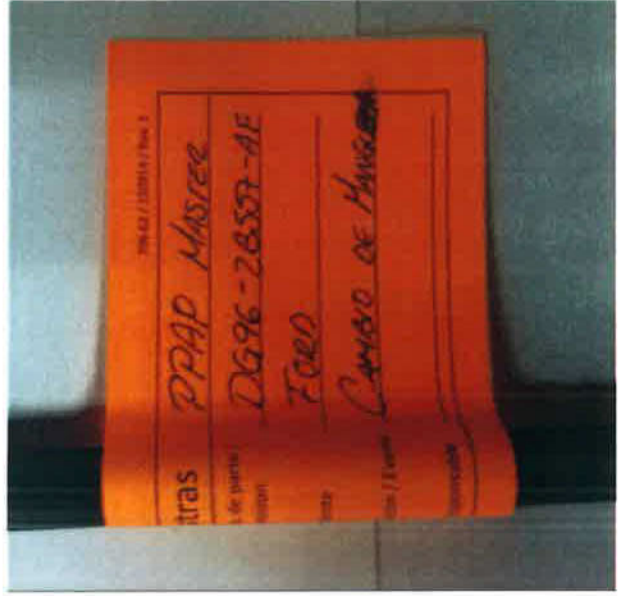


# PPAP Master Sample

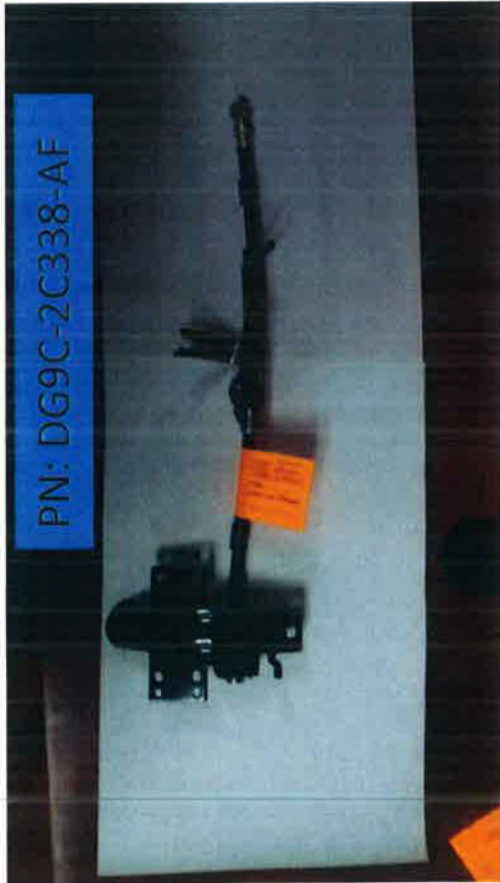
Part number: DG9C-2078-AG



# PPAP Master Sample



# PPAP Master Sample



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**From:** Landry, Mike (M.P.)  
**Sent:** Tuesday, October 12, 2021 5:54 PM  
**To:** Lambert, Lauralee (L.A.)  
**Cc:** Britton, Eric (E.J.); Diaz, Adrian (A.D.)  
**Subject:** Meeting Request: (20-207) 2013-2018 Fusion/MKZ/Mondeo/S-Max/Galaxy Brake Hose Data Review

Lauralee,  
Please set up the following meeting with Desi sometime early next week if possible:

Title: (20-207) 2013-2018 Fusion/MKZ/Mondeo/S-Max/Galaxy Brake Hose Data Review  
Attendees: Desi, Adrian, Me, Eric Britton  
Duration: 30 minutes

Thank you!

Regards,

[REDACTED]  
**Manager, Car & Small Utility Vehicle Investigations**  
**Automotive Safety Office**

**DESK:** (313) 322-9510

**CELL:** [REDACTED]

**E-MAIL:** [mlandry@ford.com](mailto:mlandry@ford.com)



**SUSTAINABILITY**  
**ENVIRONMENT &**  
**SAFETY ENGINEERING**

---

**From:** Lambert, Lauralee (L.A.)  
**Sent:** Wednesday, October 6, 2021 2:12 PM  
**To:** Landry, Mike (M.P.)  
**Cc:** Britton, Eric (E.J.)  
**Subject:** RE: 20-207 Fusion Front Brake Hose Discussion

Meeting scheduled for 10/13 @ 3:00pm.

**Lauralee A. Lambert**

*Executive Assistant to Desi Ujkashevic*  
*Global Director, Automotive Safety Office*  
Ph: 313-84-54321  
Email: [LLAMBE27@ford.com](mailto:LLAMBE27@ford.com)

---

**From:** Landry, Mike (M.P.) <mlandry@ford.com>  
**Sent:** Tuesday, October 5, 2021 5:06 PM  
**To:** Lambert, Lauralee (L.A.) <llambe27@ford.com>  
**Cc:** Britton, Eric (E.J.) <ebritton@ford.com>  
**Subject:** 20-207 Fusion Front Brake Hose Discussion

Lauralee,

Adrian, Eric, and I would like a 30 minute discussion with Desi early next week to cover the subject topic.

Thank you.

*Regards,*

[REDACTED]  
**Manager, Car & Small Utility Vehicle Investigations**  
**Automotive Safety Office**

**DESK:** (313) 322-9510

**CELL:** [REDACTED]

**E-MAIL:** [mlandry@ford.com](mailto:mlandry@ford.com)



**SUSTAINABILITY**  
**ENVIRONMENT &**  
**SAFETY ENGINEERING**

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**From:** Parrish, Will (W.F.)  
**Sent:** Tuesday, April 9, 2019 9:29 PM  
**To:** Caris, John (J.C.)  
**Cc:** Boehk, Karen (K.S.)  
**Subject:** RE: 2013-17 MKZ/MKX Brake Jounce Hose - ASO Mtg Request

**Tracking:**

Recipient	Read
Caris, John (J.C.)	Read: 4/9/2019 9:42 PM
Boehk, Karen (K.S.)	

Understand and agree this need some help. I'll get with the ASO team and look to set up a summary review this week.

*Will Parrish*

Critical Concerns

PDC GC-D26A, Mail Drop #327

Desk: 313-594-2075 / Mobile: [REDACTED]

E-Mail: [wparris1@ford.com](mailto:wparris1@ford.com)

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**From:** Caris, John (J.C.) <jcaris@ford.com>  
**Sent:** Tuesday, April 09, 2019 1:39 PM  
**To:** Parrish, Will (W.F.) <wparris1@ford.com>  
**Cc:** Boehk, Karen (K.S.) <kboehk@ford.com>  
**Subject:** RE: 2013-17 MKZ/MKX Brake Jounce Hose - ASO Mtg Request

Got it. Thanks. I am aware of the situation and have talked to Mike Petrovski a couple times already. Do you think we need to push faster? Perhaps we should review the data together with ASO. As stated, I'm aware of the concern but have not seen data myself. I can push with Mike and Todd if I understand the data better.

BTW, in general, I'd like to see us identify lingering issues in the CCRG process so we (I can help) can press functions for faster turnaround.

Thanks.

Regards,

John Caris  
Director, VCSE Design Assurance  
PDC 1B-A51  
Desk Phone +1 (313) 206-3407  
Cell Phone +1 [REDACTED]

---

**From:** Parrish, Will (W.F.) <[wparris1@ford.com](mailto:wparris1@ford.com)>  
**Sent:** Tuesday, April 9, 2019 1:29 PM  
**To:** Caris, John (J.C.) <[jcaris@ford.com](mailto:jcaris@ford.com)>

Cc: Boehk, Karen (K.S.) <[kboehk@ford.com](mailto:kboehk@ford.com)>

Subject: 2013-17 MKZ/MKX Brake Jounce Hose - ASO Mtg Request

John,

Wanted to make you aware that ASO (Joe W. before he moved, and Mike Landry currently) has requested me to set up an offline meeting with Todd Brown/Uli Koesters. After checking, I've provided feedback that getting a meeting with Todd/Uli would be nearly impossible based on Todd's calendar, likely involvement the smart redesign work, and the fact that Uli was just announced as moving to a new position.

Some background on this item is we have an ongoing investigation item in CCRG for brake jounce hoses in CCRG. Last year FSAs for China & South America were issued for Fusion/Mondeo/Edge. Since then rates have risen on MKX/MKZ vehicles, previously not included. There have been working level meetings on and off with Mike Petrovski's team. However, ASO is looking to push forward faster. My understanding is ASO wanted a meeting with Todd to elevate their concerns.

At this point, I do not plan to pursue setting up a meeting based on the feedback I provided, but am making you aware in case the request comes your way. Thanks.

*Will Parrish*

Critical Concerns

PDC GC-D26A, Mail Drop #327

Desk: 313-594-2075 / Mobile: [REDACTED]

E-Mail: [wparrisl@ford.com](mailto:wparrisl@ford.com)

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**From:** Britton, Eric (E.J.)  
**Sent:** Wednesday, June 3, 2020 6:59 PM  
**To:** Raval, Jody (J.); Parrish, Will (W.F.)  
**Subject:** RE: 2013-2017 Cross Car Line Brake Jounce Hose Leaks

I see the TRG is June 8? Can we make this a joint Safety/Cust Sat. TRG please?

*Eric Britton*  
Government Investigations  
Tel. 313-323-2966  
Cell [REDACTED]

---

**From:** Britton, Eric (E.J.)  
**Sent:** Wednesday, June 3, 2020 9:03 AM  
**To:** Raval, Jody (J.) <jraval1@ford.com>; Parrish, Will (W.F.) <wparris1@ford.com>  
**Subject:** 2013-2017 Cross Car Line Brake Jounce Hose Leaks

Jody, we need a timeslot next week for a global TRG on this subject if possible. China/IMG need to attend. Target is June 16 FRC. Latest is July 1 FRC.

Will, we need to start on the Fact Sheet. Could you schedule that meeting please? I don't see any 14D meetings coming up soon. Thanks.

*Eric Britton*  
Government Investigations  
Tel. 313-323-2966  
Cell [REDACTED]

---

**From:** Huang, Ed (E.)  
**Sent:** Thursday, July 9, 2020 2:01 AM  
**To:** Britton, Eric (E.J.)  
**Cc:** Elwell, Thomas (T.J.); Landry, Mike (M.P.); Huang, Ed (E.)  
**Subject:** RE: Brake Hose

Agreed, let's prioritize the current projections and then circle back quickly for the historical projections.

Regards,  
Ed Huang  
Manager, Global Variable Brake Engineering  
Cell: [REDACTED]  
Email: [ehuang@ford.com](mailto:ehuang@ford.com)

---

**From:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Sent:** Wednesday, July 08, 2020 9:51 PM  
**To:** Huang, Ed (E.) <[ehuang@ford.com](mailto:ehuang@ford.com)>  
**Cc:** Elwell, Thomas (T.J.) <[telwell3@ford.com](mailto:telwell3@ford.com)>; Landry, Mike (M.P.) <[mlandry@ford.com](mailto:milandry@ford.com)>  
**Subject:** RE: Brake Hose

Ed, I can see you sent me this information previously and I overlooked the part about the 2013-2014MY NA Edge was not affected. I also didn't realize the 2013-2015MY NA MKX was not affected. I will have to ask Tom to revise the NA projections on top of everything else we have asked him to do. Given the time constraints, perhaps we should prioritize the current projections over the historical China Edge/Mondeo projections. How do you feel about that?

*Eric Britton*  
Government Investigations  
Tel. 313-323-2966  
Cell [REDACTED]

---

**From:** Huang, Ed (E.) <[ehuang@ford.com](mailto:ehuang@ford.com)>  
**Sent:** Wednesday, June 17, 2020 1:41 PM  
**To:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Cc:** Elwell, Thomas (T.J.) <[telwell3@ford.com](mailto:telwell3@ford.com)>; Huang, Ed (E.) <[ehuang@ford.com](mailto:ehuang@ford.com)>  
**Subject:** RE: Brake Hose

Eric,

Sorry, I don't understand your question regarding 13MY. Do you mean on Fusion/Mondeo and MKZ? The CD4-based Edge and MKX did not start production until 2015.

Here is the timing for implementation of the revised hose designs, see Material Change Implementation Date column for US products. Only the markets affected by the prior FSA received the subsequent robustness action (Geometry Change):

Plant	Vehicle Line	Region	Material Implementation @ Assy
Hermosillo	Fusion	NA / SA / AP / MEA / WD	7/19/2
		Affected Markets	All
	MKZ	NA / AP / MEA / WD	7/19/2
		Affected Markets	All
Flat Rock	Fusion	NA / SA / AP / MEA / WD	No Longer In
	Continental	NA / AP / MEA / WD	2/15/2
		Affected Markets	All
Oakville	Edge	NA / SA / EU / AP / MEA / WD	12/21 Diesel: 1:
		Affected Markets	All
	MKX	NA / AP / MEA / WD	12/21
		Affected Markets	All
Valencia	Mondeo	EU / AP / MEA / WD	6/9/2
		Affected Markets	All
	S-Max/Galaxy	EU / AP / SA / WD	10/5/2
		Affected Markets	All
St. Petersburg	Mondeo	EU / AP / MEA / WD	7/9/2
		Affected Markets	All
Chongqing	Mondeo	China	12/29/
		Affected Markets	Chin
Hangzhou	Edge	China	01/16/
		Affected Markets	Chin
	Taurus	China	3/14/2
		Affected Markets	Chin

Regards,  
Ed Huang  
Manager, Global Variable Brake Engineering  
Cell: [REDACTED]  
Email: [ehuang@ford.com](mailto:ehuang@ford.com)

---

**From:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Sent:** Wednesday, June 17, 2020 12:54 PM  
**To:** Huang, Ed (E.) <[ehuang@ford.com](mailto:ehuang@ford.com)>  
**Cc:** Elwell, Thomas (T.J.) <[telwell3@ford.com](mailto:telwell3@ford.com)>  
**Subject:** Brake Hose

Ed, Tom will be completing the 10yr/150,000mi projection for these vehicles and we need to understand the correct population.

Please see the list of brake hose claims below for the U.S. When were the new hoses implemented in production? Why didn't we have more reports in 2013MY?

Row Labels	2013	2014	2015	2016	2017	Grand Total
Edge			55	109	84	248
Fusion/Mondeo	3	17	23	21	27	91
MKZ	7	26	22	20	15	90
MKX				124	16	140
Fusion					4	4
<b>Grand Total</b>	<b>10</b>	<b>43</b>	<b>100</b>	<b>274</b>	<b>146</b>	<b>573</b>

Thanks for your help.

*Eric Britton*  
Government Investigations  
Tel. 313-323-2966  
Cell [REDACTED]

---

**From:** Elwell, Thomas (T. J.)  
**Sent:** Monday, April 12, 2021 8:12 PM  
**To:** Britton, Eric (E.J.); Krivtsov, Vasilii (V.)  
**Cc:** Landry, Mike (M.P.)  
**Subject:** RE: Brake Jounce Hose

Hi Eric,

No problem adding the new projections. Some of the veh lines/hose locations have a limited number of claims though. If we target Wednesday the 21<sup>st</sup> for a review, will that give you enough time to prep for NHTSA?

Thank you,  
Tom

---

**From:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Sent:** Monday, April 12, 2021 7:22 AM  
**To:** Krivtsov, Vasilii (V.) <[vkritso@ford.com](mailto:vkritso@ford.com)>; Elwell, Thomas (T. J.) <[telwell3@ford.com](mailto:telwell3@ford.com)>  
**Cc:** Landry, Mike (M.P.) <[mlandry@ford.com](mailto:mlandry@ford.com)>  
**Subject:** RE: Brake Jounce Hose

Yes April 23 not March 23. Thanks for catching that.

*Eric Britton*  
Government Investigations  
Cell [REDACTED]

---

**From:** Krivtsov, Vasilii (V.) <[vkritso@ford.com](mailto:vkritso@ford.com)>  
**Sent:** Saturday, April 10, 2021 5:50 AM  
**To:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>; Elwell, Thomas (T. J.) <[telwell3@ford.com](mailto:telwell3@ford.com)>  
**Cc:** Landry, Mike (M.P.) <[mlandry@ford.com](mailto:mlandry@ford.com)>  
**Subject:** RE: Brake Jounce Hose

We'll certainly take care of this, Eric. Did you mean the meeting with NHTSA on April 23? @Tom, pls call me to discuss. --Vasilii

---

**From:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Sent:** Friday, April 9, 2021 1:24 PM  
**To:** Elwell, Thomas (T. J.) <[telwell3@ford.com](mailto:telwell3@ford.com)>; Krivtsov, Vasilii (V.) <[vkritso@ford.com](mailto:vkritso@ford.com)>  
**Cc:** Landry, Mike (M.P.) <[mlandry@ford.com](mailto:mlandry@ford.com)>  
**Subject:** Brake Jounce Hose

Vasily and Tom, in addition to the Fusion/MKZ front brake hose warranty analysis that Tom just completed, can you please evaluate the attached warranty claims for Weibull Analysis? There is a meeting with NHTSA on March 23 to review the North America data. Desi has also requested a TRG to review the global data for all front and rear hoses that were not previously recalled. I am planning to schedule this for the very end of April. Thanks for your help.

2015-2018 Edge Front Hoses NA – Weibull completed prior to recall  
2016-2018 MKX Front Hoses NA – Weibull completed prior to recall

2013-2017 Fusion Front Hoses NA, 188 claims – Weibull completed in March  
2013-2017 MKZ Front Hoses NA, 141 claims – Weibull completed in March

2013-2018 Edge Rear Hoses NA, 19 claims – see attached  
2016-2018 MKX Rear Hoses NA, 9 claims – see attached

2013-2017 Fusion Rear Hoses NA, 17 claims – see attached  
2013-2017 MKZ Rear Hoses NA, 8 claims – see attached

2015-2018 S-Max/Galaxy Front Hoses EU, 29 claims – see attached  
2015-2017 Mondeo Front Hoses EU, 41 claims – see attached  
2015-2018 Edge Front Hoses EU, 3 claims - see attached

*Eric Britton*

Government Investigations

Cell [REDACTED]

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**From:** Britton, Eric (E.J.)  
**Sent:** Friday, July 17, 2020 3:35 PM  
**To:** Krivtsov, Vasiliy (V.); Elwell, Thomas (T.J.)  
**Cc:** Landry, Mike (M.P.); Dunlap, Zachary (Z.); Huang, Ed (E.)  
**Subject:** RE: Brake Jounce Hose

Tom, for benchmarking purposes Engineering has settled on 2013-2018MY C520 Escape and U502 Explorer in NA. Base part numbers are 2078 and 2B557.

*Eric Britton*  
Government Investigations  
Tel. 313-323-2966  
Cell [REDACTED]

---

**From:** Krivtsov, Vasiliy (V.) <[vkritvso@ford.com](mailto:vkritvso@ford.com)>  
**Sent:** Friday, July 17, 2020 9:30 AM  
**To:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>; Elwell, Thomas (T.J.) <[telwell3@ford.com](mailto:telwell3@ford.com)>  
**Subject:** RE: Brake Jounce Hose

But Tom's updates are 120 | 150K.

---

**From:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Sent:** Friday, July 17, 2020 9:28 AM  
**To:** Krivtsov, Vasiliy (V.) <[vkritvso@ford.com](mailto:vkritvso@ford.com)>; Elwell, Thomas (T.J.) <[telwell3@ford.com](mailto:telwell3@ford.com)>  
**Subject:** RE: Brake Jounce Hose

Vasiliy, the data from Solomon is not 120MIS/150k

*Eric Britton*  
Government Investigations  
Tel. 313-323-2966  
Cell [REDACTED]

---

**From:** Krivtsov, Vasiliy (V.) <[vkritvso@ford.com](mailto:vkritvso@ford.com)>  
**Sent:** Friday, July 17, 2020 9:22 AM  
**To:** Elwell, Thomas (T.J.) <[telwell3@ford.com](mailto:telwell3@ford.com)>; Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Subject:** RE: Brake Jounce Hose  
**Importance:** High

**Tom**, why are you reporting only LCL, not both? **Eric**, pls modify Cell R2 from "120MIS" to "120MIS|150K".

-----Original Message-----

From: Elwell, Thomas (T.J.) <[telwell3@ford.com](mailto:telwell3@ford.com)>  
Sent: Friday, July 17, 2020 9:06 AM  
To: Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
Cc: Krivtsov, Vasiliy (V.) <[vkritvso@ford.com](mailto:vkritvso@ford.com)>  
Subject: RE: Brake Jounce Hose

Hi Eric,

Here is what I have so far. I've populated the summary table with the CHN baselines, as well as the NA Edge projections.

From: Britton, Eric (E.J.) <ebritton@ford.com>  
Sent: Friday, July 17, 2020 8:07 AM  
To: Elwell, Thomas (T.J.) <telwell3@ford.com>  
Subject: RE: Brake Jounce Hose

Tom, will you have anything to share at the 9:30 am meeting? If so can you share it with me? Thanks.

Eric Britton

Government Investigations

Tel. 313-323-2966

Cell [REDACTED]

From: Elwell, Thomas (T.J.) <telwell3@ford.com>  
Sent: Tuesday, June 23, 2020 5:11 PM  
To: Britton, Eric (E.J.) <ebritton@ford.com>  
Subject: RE: Brake Jounce Hose

Hi Eric,

Projection attached.

Thank you,

Tom

From: Britton, Eric (E.J.) <ebritton@ford.com>

Sent: Monday, June 22, 2020 11:47 AM  
To: Elwell, Thomas (T.J.) <telwell3@ford.com>  
Subject: RE: Brake Jounce Hose

Thank you.

Eric Britton

Government Investigations

Tel. 313-323-2966

Cell [REDACTED]

From: Elwell, Thomas (T.J.) <telwell3@ford.com>  
Sent: Monday, June 22, 2020 11:31 AM  
To: Britton, Eric (E.J.) <ebritton@ford.com>  
Subject: RE: Brake Jounce Hose

Yes, no problem.

From: Britton, Eric (E.J.) <ebritton@ford.com>  
Sent: Monday, June 22, 2020 11:30 AM  
To: Elwell, Thomas (T.J.) <telwell3@ford.com>  
Subject: RE: Brake Jounce Hose

Tom, will you have this done before the end of the day Tuesday? Desi scheduled a meeting with me Wednesday morning.

Eric Britton

Government Investigations

Tel. 313-323-2966

Cell [REDACTED]

From: Britton, Eric (E.J.)  
Sent: Tuesday, June 16, 2020 4:50 PM  
To: Elwell, Thomas (T.J.) <TELWELL3@ford.com>  
Subject: RE: Brake Jounce Hose

Want me to set up a meeting?

Eric Britton

Government Investigations

Tel. 313-323-2966

Cell [REDACTED]

From: Elwell, Thomas (T.J.) <telwell3@ford.com>  
Sent: Tuesday, June 16, 2020 4:49 PM  
To: Britton, Eric (E.J.) <ebritton@ford.com>  
Subject: RE: Brake Jounce Hose

Thanks, Eric. What is our timing for this one?

From: Britton, Eric (E.J.) <ebritton@ford.com>  
Sent: Tuesday, June 16, 2020 4:46 PM  
To: Frankstein, Michael (M.) <mfrankst@ford.com>; Elwell, Thomas (T.J.) <telwell3@ford.com>  
Cc: Krivtsov, Vasiliy (V.) <vkrivtso@ford.com>  
Subject: RE: Brake Jounce Hose

Here is the list of claim keys with the VIN and model year.

Eric Britton

Government Investigations

Tel. 313-323-2966

Cell [REDACTED]

From: Frankstein, Michael (M.) <mfrankst@ford.com>  
Sent: Tuesday, June 16, 2020 9:55 AM  
To: Elwell, Thomas (T.J.) <telwell3@ford.com>  
Cc: Krivtsov, Vasiliy (V.) <vkritso@ford.com>; Britton, Eric (E.J.) <ebritton@ford.com>  
Subject: FW: Brake Jounce Hose

Hi Tom,

Could you please take care of the projection in question?

Best regards,

Michael Frankstein

GDIA Reliability Analytics

Ford Motor Company

( Telephone: (313) 62-16285

Cell Phone: [REDACTED]

, E-Mail Address: mfrankst@ford.com

From: Krivtsov, Vasiliy (V.) <vkritso@ford.com>  
Sent: Tuesday, June 16, 2020 7:50 AM  
To: Frankstein, Michael (M.) <mfrankst@ford.com>  
Subject: RE: Brake Jounce Hose

What do you think, [REDACTED]?

From: Britton, Eric (E.J.) <ebritton@ford.com>  
Sent: Monday, June 15, 2020 7:24 PM

To: Krivtsov, Vasily (V.) <vkrivtso@ford.com>

Cc: Frankstein, Michael (M.) <mfrankst@ford.com>; Landry, Mike (M.P.) <mlandry@ford.com>

Subject: Brake Jounce Hose

Vasily, can you please advise your approximate timing to create a 10 yr/150,000 mile risk assessment for 2013-2018 MY Edge/Fusion/MKX/MKZ Brake Jounce Hoses repairs in North America. The global list of responsive claim keys is attached, approx. 700 of these repairs were in NA. These claim keys were identified by searching all jounce hose repairs and then reading them to identify the split/burst jounce hoses. Hoses with bubbles or seepage were not included.

Thanks.

Eric Britton

Government Investigations

Tel. 313-323-2966

Cell [REDACTED]

---

**From:** Britton, Eric (E.J.)  
**Sent:** Tuesday, June 16, 2020 4:46 PM  
**To:** Frankstein, Michael (M.); Elwell, Thomas (T.J.)  
**Cc:** Krivtsov, Vasiliy (V.)  
**Subject:** RE: Brake Jounce Hose  
**Attachments:** CD Platform Claim Key\_Model Year.xlsx

Here is the list of claim keys with the VIN and model year.

***Eric Britton***

Government Investigations  
Tel. 313-323-2966  
Cell [REDACTED]


---

**From:** Frankstein, Michael (M.) <mfrankst@ford.com>  
**Sent:** Tuesday, June 16, 2020 9:55 AM  
**To:** Elwell, Thomas (T.J.) <telwell3@ford.com>  
**Cc:** Krivtsov, Vasiliy (V.) <vkritso@ford.com>; Britton, Eric (E.J.) <ebritton@ford.com>  
**Subject:** FW: Brake Jounce Hose

Hi Tom,

Could you please take care of the projection in question?

Best regards,

[REDACTED]  
GDIA Reliability Analytics  
Ford Motor Company  
 Telephone: (313) 62-16285  
Cell Phone [REDACTED]  
 E-Mail Address: [mfrankst@ford.com](mailto:mfrankst@ford.com)

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**From:** Krivtsov, Vasiliy (V.) <[vkritso@ford.com](mailto:vkritso@ford.com)>  
**Sent:** Tuesday, June 16, 2020 7:50 AM  
**To:** Frankstein, Michael (M.) <[mfrankst@ford.com](mailto:mfrankst@ford.com)>  
**Subject:** RE: Brake Jounce Hose

What do you think, [REDACTED]

---

**From:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Sent:** Monday, June 15, 2020 7:24 PM  
**To:** Krivtsov, Vasiliy (V.) <[vkritso@ford.com](mailto:vkritso@ford.com)>  
**Cc:** Frankstein, Michael (M.) <[mfrankst@ford.com](mailto:mfrankst@ford.com)>; Landry, Mike (M.P.) <[mlandry@ford.com](mailto:mlandry@ford.com)>  
**Subject:** Brake Jounce Hose

Vasily, can you please advise your approximate timing to create a 10 yr/150,000 mile risk assessment for 2013-2018 MY Edge/Fusion/MKX/MKZ Brake Jounce Hoses repairs in North America. The global list of responsive claim keys is attached, approx. 700 of these repairs were in NA. These claim keys were identified by searching all jounce hose repairs and then reading them to identify the split/burst jounce hoses. Hoses with bubbles or seepage were not included.

Thanks.

***Eric Britton***

Government Investigations

Tel. 313-323-2966

Cell [REDACTED]

Model Year	VIN	Vehicle Line WERS [VL]	Claim Key
2013	3FA6P0H97DR	C/C7	
2013	3FA6P0K9XDR	C/C7	
2013	3FA6P0G7XD	C/C7	
2013	3LN6L2J9XDR	C/C9	
2013	3FA6P0K99DR	C/C7	
2013	3FA6P0K90DR	C/C7	
2013	3FA6P0G7XD	C/C7	
2013	3FA6P0H92DR	C/C7	
2013	3LN6L2J9XDR	C/C9	
2013	3FA6P0K93DR	C/C7	
2013	3LN6L2G97DR	C/C9	
2013	3LN6L2J9XDR	C/C9	
2013	3LN6L2J90DR	C/C9	
2013	3FA6P0D94DR	C/C7	
2013	3FA6P0H94DR	C/C7	
2013	3LN6L2GK8DR	C/C9	
2013	3LN6L2G97DR	C/C9	
2013	3FA6P0K97DR	C/C7	
2013	3FA6P0H95DR	C/C7	
2013	3LN6L2G98DR	C/C9	
2013	3LN6L2GKXD	C/C9	
2013	3FA6P0H92DR	C/C7	
2014	3FA6P0K99ER	C/C7	
2014	3LN6L2J95ER	C/C9	
2014	3FA6P0H92ER	C/C7	
2014	3LN6L2G91ER	C/C9	
2014	1FA6P0HD8E5	C/C7	
2014	3LN6L2GK1ER	C/C9	
2014	3LN6L2G9XER	C/C9	
2014	3LN6L2G9XER	C/C9	
2014	3LN6L2G99ER	C/C9	
2014	3FA6P0H97ER	C/C7	
2014	3LN6L2GK7ER	C/C9	
2014	3LN6L2G90ER	C/C9	
2014	3LN6L2G90ER	C/C9	
2014	3LN6L2G96ER	C/C9	
2014	3LN6L2G97ER	C/C9	
2014	3FA6P0K94ER	C/C7	
2014	3LN6L2G99ER	C/C9	
2014	3LN6L2G99ER	C/C9	
2014	3LN6L2G93ER	C/C9	
2014	3LN6L2G92ER	C/C9	
2014	3LN6L2G9XER	C/C9	
2014	3FA6P0HD5E	C/C7	
2014	3LN6L2J96ER	C/C9	
2014	3FA6P0K90ER	C/C7	
2014	3LN6L2G90ER	C/C9	
2014	3LN6L2G99ER	C/C9	
2014	3LN6L2JK1ER	C/C9	
2014	3LN6L2G9XER	C/C9	
2014	3LN6L2G94ER	C/C9	
2014	3LN6L2G96ER	C/C9	
2014	3FA6P0H91ER	C/C7	
2014	3LN6L2G91ER	C/C9	
2014	3FA6P0H91ER	C/C7	
2014	3FA6P0K9XER	C/C7	
2014	3LN6L2G92ER	C/C9	
2014	3FA6P0H75ER	C/C7	
2014	3LN6L2GK9ER	C/C9	
2014	3FA6P0HD7E	C/C7	
2014	3FA6P0H9XER	C/C7	
2014	3FA6P0H92ER	C/C7	
2014	3LN6L2G9XER	C/C9	
2014	3LN6L2J94ER	C/C9	
2014	3LN6L2JK8ER	C/C9	
2014	3FA6P0D96ER	C/C7	
2014	3FA6P0H99ER	C/C7	
2014	3FA6P0K97ER	C/C7	
2014	3LN6L2G95ER	C/C9	
2014	3FA6P0H91ER	C/C7	
2014	3FA6P0H94ER	C/C7	
2014	3LN6L2G90ER	C/C9	
2014	3LN6L2G99ER	C/C9	
2014	3FA6P0K9XER	C/C7	
2014	3LN6L2G92ER	C/C9	
2014	3LN6L2G92ER	C/C9	
2014	3FA6P0H96ER	C/C7	
2014	3LN6L2J9XER	C/C9	
2014	3LN6L2G97ER	C/C9	
2014	3LN6L2G92ER	C/C9	
2014	3LN6L2J93ER	C/C9	
2014	3FA6P0H93ER	C/C7	
2014	3FA6P0H99ER	C/C7	
2014	3FA6P0H90ER	C/C7	
2014	3LN6L2G92ER	C/C9	
2014	3LN6L2J90ER	C/C9	
2014	3LN6L2J91ER	C/C9	
2014	3LN6L2J97ER	C/C9	
2014	3LN6L2GK9ER	C/C9	
2014	3LN6L2G91ER	C/C9	
2014	3LN6L2G96ER	C/C9	
2014	3LN6L2G95ER	C/C9	
2014	3FA6P0K96ER	C/C7	

2014 3FA6P0H96ER C/C7  
2014 3FA6P0H98ER C/C7  
2014 3FA6P0HD7E C/C7  
2014 3FA6P0HD3E C/C7  
2014 3FA6P0HD3E C/C7  
2014 3LN6L2JK1ER C/C9  
2014 3LN6L2G90ER C/C9  
2014 3LN6L2G91ER C/C9  
2014 3LN6L2G91ER C/C9  
2014 3FA6P0H90ER C/C7  
2014 3LN6L2G95ER C/C9  
2014 3LN6L2G96ER C/C9  
2014 3LN6L2G95ER C/C9  
2014 3FA6P0H99ER C/C7  
2014 3LN6L2G98ER C/C9  
2014 3LN6L2G92ER C/C9  
2014 3FA6P0H94ER C/C7  
2014 3FA6P0K98ER C/C7  
2014 3FA6P0K94ER C/C7  
2014 3LN6L2J94ER C/C9  
2014 3FA6P0HR0E C/C7  
2014 3LN6L2G93ER C/C9  
2014 3LN6L2G90ER C/C9  
2014 3LN6L2G93ER C/C9  
2014 3FA6P0K96ER C/C7  
2014 3FA6P0H9XEF C/C7  
2014 3FA6P0H9XEF C/C7  
2014 3FA6P0K96ER C/C7  
2014 3LN6L2G99ER C/C9  
2014 3LN6L2G99ER C/C9  
2014 3LN6L2G92ER C/C9  
2015 3LN6L2G90FR C/C9  
2015 2FMTK4J93FB C/DQ  
2015 2FMTK4J98FB C/DQ  
2015 2FMTK3J95FB C/DQ  
2015 2FMTK4AP9F C/DQ  
2015 2FMTK3G95F C/DQ  
2015 2FMTK4AP0F C/DQ  
2015 2FMPK4K97FB C/DQ  
2015 2FMTK3K99FB C/DQ  
2015 3FA6P0HD6FF C/C7  
2015 3LN6L2G9XFR C/C9  
2015 2FMTK3G97F C/DQ  
2015 3LN6L2G93FR C/C9  
2015 2FMTK3G98F C/DQ  
2015 2FMTK4J95FB C/DQ  
2015 WF0DXXWPC C/NG  
2015 3LN6L2G94FR C/C9  
2015 3FA6P0H94FR C/C7  
2015 3FA6P0K91FR C/C7  
2015 3FA6P0H71FR C/C7  
2015 3FA6P0K92FR C/C7  
2015 WF0DXXWPC C/NG  
2015 Z6FDXXEECD C/NG  
2015 3LN6L2J98FR C/C9  
2015 WF0DXXWPC C/NG  
2015 WF0EXXWPC C/NG  
2015 3LN6L2J90FR C/C9  
2015 3LN6L2G92FR C/C9  
2015 2FMPK3K99FB C/DQ  
2015 2FMTK4J99FB C/DQ  
2015 3LN6L2J91FR C/C9  
2015 3LN6L2GK2FR C/C9  
2015 3FA6P0G74FR C/C7  
2015 WF0DXXWPC C/NG  
2015 3LN6L2G93FR C/C9  
2015 WF0DXXWPC C/NG  
2015 3FA6P0K98FR C/C7  
2015 3FA6P0K9XFR C/C7  
2015 3FA6P0K92FR C/C7  
2015 3FA6P0H94FR C/C7  
2015 3LN6L2G91FR C/C9  
2015 WF0DXXWPC C/NG  
2015 WF0EXXWPC C/NG  
2015 2FMTK4J88FB C/DQ  
2015 2FMTK4G8XF C/DQ  
2015 3FA6P0HD7FR C/C7  
2015 3FA6P0H97FR C/C7  
2015 3FA6P0HD5FR C/C7  
2015 3FA6P0HD0FR C/C7  
2015 1FA6P0G75F5 C/C7  
2015 2FMTK3G93F C/DQ  
2015 3FA6P0HD8FR C/C7  
2015 2FMPK4K94FB C/DQ  
2015 2FMPK4AP6F C/DQ  
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2015	3LN6L2G95FR	C/C9
2016	3LN6L2GN8G	C/C9
2016	3LN6L2GN2G	C/C9
2017	3LN6L5ENXHR	C/C9
2017	3LN6L5EN7HR	C/C9
2017	3LN6L5EN7HR	C/C9
2017	3LN6L5EN4HR	C/C9
2017	3LN6L5CN1HR	C/C9
2015	3LN6L2M9XFR	C/C9
2015	3LN6L2GN2FR	C/C9
2016	3LN6L2GN7G	C/C9
2016	3LN6L2GN5G	C/C9
2016	3LN6L2G94GR	C/C9
2016	3LN6L2G94GR	C/C9
2017	3LN6L5EN1HR	C/C9
2017	3LN6L5CN3HR	C/C9
2017	3LN6L5CN0HR	C/C9
2016	3LN6L2GN4G	C/C9
2017	3LN6L5CNXH	C/C9
2017	3LN6L5CN1HR	C/C9
2016	3LN6L2GNXG	C/C9
2017	3LN6L5ENXHR	C/C9

---

**From:** Elwell, Thomas (T. J.)  
**Sent:** Thursday, February 11, 2021 2:07 PM  
**To:** Britton, Eric (E.J.)  
**Subject:** RE: Brake Jounce Hose 23-Jun-2020.pptx

Hi Eric,

The upper confidence bound for the MKX will be not be shown if the scale max is 12%...is that ok?

---

**From:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Sent:** Thursday, February 11, 2021 9:04 AM  
**To:** Elwell, Thomas (T. J.) <[telwell3@ford.com](mailto:telwell3@ford.com)>  
**Subject:** FW: Brake Jounce Hose 23-Jun-2020.pptx

Tom, can you change slide 4 and 5 so the vertical scale is the same (12%). Can you do this by the end of the day?

*Eric Britton*  
Government Investigations  
Cell [REDACTED]

---

**From:** Elwell, Thomas (T.J.) <[telwell3@ford.com](mailto:telwell3@ford.com)>  
**Sent:** Thursday, July 23, 2020 12:35 PM  
**To:** Diaz, Adrian (A.D.) <[adiaz41@ford.com](mailto:adiaz41@ford.com)>; Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Subject:** Brake Jounce Hose 23-Jun-2020.pptx

Hi Adrian,

PPT attached with slides. I've shown the summary table, as well as linked the table (I hope) so that it can be opened if needed.

Thank you,  
Tom

---

**From:** Sanchez, Jorge (J.)  
**Sent:** Wednesday, June 24, 2020 8:34 PM  
**To:** Huang, Ed (E.)  
**Cc:** Bravo, Carlos (CUBM.)  
**Subject:** RE: CD4 jounce hoses

Sure, sending the webex now.

Regards,  
Jorge Sánchez

---

**From:** Huang, Ed (E.) <ehuang@ford.com>  
**Sent:** miércoles, 24 de junio de 2020 03:32 p. m.  
**To:** Sanchez, Jorge (J.) <jsanc309@ford.com>  
**Cc:** Bravo, Carlos (CUBM.) <cbravo5@ford.com>; Huang, Ed (E.) <ehuang@ford.com>  
**Subject:** RE: CD4 jounce hoses

Jorge,

Thanks, are you available for a quick Webex right now or later this afternoon to review the file you just sent?

Regards,  
Ed Huang  
Manager, Global Variable Brake Engineering  
Cell: [REDACTED]  
Email: [ehuang@ford.com](mailto:ehuang@ford.com)

---

**From:** Sanchez, Jorge (J.) <jsanc309@ford.com>  
**Sent:** Wednesday, June 24, 2020 4:27 PM  
**To:** Huang, Ed (E.) <ehuang@ford.com>  
**Cc:** Bravo, Carlos (CUBM.) <cbravo5@ford.com>  
**Subject:** RE: CD4 jounce hoses

Hello Ed,

Find attached the requested TIS, it has splits only and the warranty cut off when the field actions took place.

Regards,  
Jorge Sánchez

---

**From:** Huang, Ed (E.) <ehuang@ford.com>

**Sent:** miércoles, 24 de junio de 2020 02:59 p. m.  
**To:** Sanchez, Jorge (J.) <[jsanc309@ford.com](mailto:jsanc309@ford.com)>  
**Cc:** Bravo, Carlos (CUBM.) <[cbravo5@ford.com](mailto:cbravo5@ford.com)>; Huang, Ed (E.) <[ehuang@ford.com](mailto:ehuang@ford.com)>  
**Subject:** RE: CD4 jounce hoses

Also, can you clarify whether the data is filtered for splits only, so that it would be apples-to-apples with the most recent filtered data that you have provided?

Regards,  
Ed Huang  
Manager, Global Variable Brake Engineering  
Cell: [REDACTED]  
Email: [ehuang@ford.com](mailto:ehuang@ford.com)

---

**From:** Huang, Ed (E.) <[ehuang@ford.com](mailto:ehuang@ford.com)>  
**Sent:** Wednesday, June 24, 2020 3:58 PM  
**To:** Sanchez, Jorge (J.) <[jsanc309@ford.com](mailto:jsanc309@ford.com)>  
**Cc:** Bravo, Carlos (CUBM.) <[cbravo5@ford.com](mailto:cbravo5@ford.com)>; Huang, Ed (E.) <[ehuang@ford.com](mailto:ehuang@ford.com)>  
**Subject:** CD4 jounce hoses

Hi Jorge,

Do you have any records of what the MKZ and MKX jounce hose warranty were in China at the time of the separate Mondeo and Edge recalls?

This will be useful in helping to explain why the recall actions were not targeted toward the Lincoln products at that time.

If this info is readily available, can you provide it before 10 am tomorrow morning?

Regards,  
Ed Huang  
Manager, Global Variable Brake Engineering  
Cell: [REDACTED]  
Email: [ehuang@ford.com](mailto:ehuang@ford.com)

---

**From:** Britton, Eric (E.J.)  
**Sent:** Monday, January 11, 2016 8:09 PM  
**To:** Parrish, Will (W.F.)  
**Cc:** Prescott, Amanda (A.B.)  
**Subject:** RE: CD391C jounce hose question

**Follow Up Flag:** Follow Up  
**Flag Status:** Completed

**Categories:** CCM

I thought AP was doing this.

ECI has looked at this for the U.S. and their claims data supports the data that engineering presented. Do we need parts sales for the U.S.?

*Eric Britton*  
**Internal Investigations**  
**Tel. 313-323-2966**  
**Fax: 313-594-2268**

---

**From:** Parrish, Will (W.F.)  
**Sent:** Monday, January 11, 2016 2:57 PM  
**To:** Britton, Eric (E.J.)  
**Cc:** Prescott, Amanda (A.B.)  
**Subject:** FW: CD391C jounce hose question

Eric,  
Other than the claims data from South America, was anyone in ECI looking at the Mondeo/Fusion jounce hoses?

*Will Parrish*  
Critical Concern Engineer  
Desk: 313-594-2075 / Mobile: [REDACTED]  
PDC GC-D26A / Mail Drop #327  
E-Mail: [wparris1@ford.com](mailto:wparris1@ford.com)

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---

**From:** Callahan, Janet (J.)  
**Sent:** Friday, January 08, 2016 10:05 AM  
**To:** Parrish, Will (W.F.)  
**Subject:** CD391C jounce hose question

Will –

Is there someone from CCRG who is pulling the service part sales numbers for the jounce hoses?

Janet Callahan  
Core Brake Flexibles - Tubes and Hoses  
Building 3, Cube 1G137

  
[jherzbel@ford.com](mailto:jherzbel@ford.com)

---

**From:** Britton, Eric (E.J.)  
**Sent:** Wednesday, February 3, 2016 1:07 PM  
**To:** Parrish, Will (W.F.); Page, Kimberly (K.A.)  
**Cc:** Jones, Rick (W.P.)  
**Subject:** RE: CD391C jounce hose question

**Categories:** CCM

Kim, can you refresh my memory, were there any reports in the North America? Also, there is a TRG at 4:30 pm today, feel free to attend if you are available. Thanks.

*Eric Britton*

**Internal Investigations**  
Tel. 313-323-2966  
Fax: 313-594-2268

---

**From:** Parrish, Will (W.F.)  
**Sent:** Monday, January 11, 2016 2:57 PM  
**To:** Britton, Eric (E.J.)  
**Cc:** Prescott, Amanda (A.B.)  
**Subject:** FW: CD391C jounce hose question

Eric,  
Other than the claims data from South America, was anyone in ECI looking at the Mondeo/Fusion jounce hoses?

*Will Parrish*

Critical Concern Engineer  
Desk: 313-594-2075 / Mobile: [REDACTED]  
PDC GC-D26A / Mail Drop #327  
E-Mail: [wparris1@ford.com](mailto:wparris1@ford.com)

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---

**From:** Callahan, Janet (J.)  
**Sent:** Friday, January 08, 2016 10:05 AM  
**To:** Parrish, Will (W.F.)  
**Subject:** CD391C jounce hose question

Will –

Is there someone from CCRG who is pulling the service part sales numbers for the jounce hoses?

Janet Callahan  
Core Brake Flexibles - Tubes and Hoses  
Building 3, Cube 1G137  
313-805-4801  
[jherzbe1@ford.com](mailto:jherzbe1@ford.com)

---

**From:** Britton, Eric (E.J.)  
**Sent:** Wednesday, August 11, 2021 2:47 PM  
**To:** Diaz, Adrian (A.D.); Piña Ocampo, Enrique (EPO.)  
**Cc:** Parker, Valencia (V.L.); Liddle, Preston (P.); Huang, Ed (E.); Leifson, Kirk (K.V.); Landry, Mike (M.P.); Neborg, Kai (K.); Bowlt, Gerard (G.); Valencia, Frank (F.); Sanchez, Jorge (J.); Parrish, Will (W.F.); Moreau, Jerimy (J.C.); O'Connor, Tammy (T.A.)  
**Subject:** RE: EMM Request

Please include Will, Frank, Jorge, Jerimy, and Tammy. Thanks.

*Eric Britton*

Government Investigations  
Cell [REDACTED]

---

**From:** Diaz, Adrian (A.D.) <adiaz41@ford.com>  
**Sent:** Wednesday, August 11, 2021 8:33 AM  
**To:** Piña Ocampo, Enrique (EPO.) <epinaoca@ford.com>  
**Cc:** Parker, Valencia (V.L.) <vmitch4@ford.com>; Liddle, Preston (P.) <pliddle@ford.com>; Huang, Ed (E.) <ehuang@ford.com>; Leifson, Kirk (K.V.) <kleifson@ford.com>; Britton, Eric (E.J.) <ebritton@ford.com>; Landry, Mike (M.P.) <mlandry@ford.com>; Neborg, Kai (K.) <kneborg@ford.com>; Bowlt, Gerard (G.) <gbowlt@ford.com>  
**Subject:** EMM Request

Hi Enrique,

Could you help me to schedule a meeting with the team cc'd? Below the details:

- Title: Front Brake Jounce Hose Capacity and Service Releases
- Purpose: Discuss current capacity of front brake jounce hoses and status of service releases
- Timing: 30 mins
- Early next week

Team... we will provide more details during the meeting.

Eric / Kirk... let me know if there is someone else from the team that needs to be included.

Regards,

**Adrian Diaz (狄安君)** | Assistant Director - Automotive Safety Office |  
| Int'l Phone: +1-313-337-6777 | Mobile: + [REDACTED] |  
| Tie Line: 337-6777 |  
| E-mail: [adiaz41@ford.com](mailto:adiaz41@ford.com) |

---

**From:** Huang, Ed (E.)  
**Sent:** Tuesday, August 10, 2021 5:01 PM  
**To:** Valencia, Frank (F.)  
**Cc:** Huang, Ed (E.)  
**Subject:** RE: Fusion Front Brake Hose Leaks TRG

Thx for sharing, I won't plan to speak up unless you ask me for some historical perspective (of which I only have a slice of it anyway).

Regards,  
Ed Huang  
Manager, Global Fixed Brake Engineering  
Cell: [REDACTED]  
Email: [ehuang@ford.com](mailto:ehuang@ford.com)



---

**From:** Valencia, Frank (F.) <[fvalenci@ford.com](mailto:fvalenci@ford.com)>  
**Sent:** Tuesday, August 10, 2021 11:25 AM  
**To:** Huang, Ed (E.) <[ehuang@ford.com](mailto:ehuang@ford.com)>  
**Subject:** FW: Fusion Front Brake Hose Leaks TRG

FYI

**Frank Valencia**  
Manager, Global Variable Brake Engineering  
Ford Motor Company  
Cell Phone: + [REDACTED]



---

**From:** Gardner, Greg (G.D.) <[ggardne2@ford.com](mailto:ggardne2@ford.com)>  
**Sent:** Monday, August 9, 2021 9:50 AM  
**To:** Valencia, Frank (F.) <[fvalenci@ford.com](mailto:fvalenci@ford.com)>; Allard, Christopher (C. E.) <[callard1@ford.com](mailto:callard1@ford.com)>  
**Subject:** RE: Fusion Front Brake Hose Leaks TRG

Thanks Frank,  
I have reviewed the analysis in the file you sent. I think it is clearly presented so a review prior to the TRG is not required.

# Greg Gardner

Director Underbody Systems

Cell: [REDACTED]

Administrative Assistant: Christine Loriaux ([ckloth@ford.com](mailto:ckloth@ford.com))



---

**From:** Valencia, Frank (F.) <[fvalenci@ford.com](mailto:fvalenci@ford.com)>

**Sent:** Friday, August 6, 2021 4:44 PM

**To:** Gardner, Greg (G.D.) <[ggardne2@ford.com](mailto:ggardne2@ford.com)>; Allard, Christopher (C. E.) <[callard1@ford.com](mailto:callard1@ford.com)>

**Subject:** FW: Fusion Front Brake Hose Leaks TRG

Greg / Chris,

See below and attached. The subject topic will go into a TRG next Wednesday. The team has been monitoring warranty data on the vehicle lines that were not included in the original FSA's. They recently met with NHTSA and both Ford and NHTSA agreed to continue monitoring and they will reconvene in October. A follow up TRG will occur in October. That's the high level summary for next Wednesday's TRG.

Would you like me to bring it into the Design Review or are you OK with pre-reading the attached deck via email?

Thanks,

## Frank Valencia

Manager, Global Variable Brake Engineering

Ford Motor Company

Cell Phone: + [REDACTED]



---

**From:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>

**Sent:** Friday, August 6, 2021 4:16 PM

**To:** Parrish, Will (W.F.) <[wparris1@ford.com](mailto:wparris1@ford.com)>; Sanchez, Jorge (J.) <[jsanc309@ford.com](mailto:jsanc309@ford.com)>; Valencia, Frank (F.) <[fvalenci@ford.com](mailto:fvalenci@ford.com)>; Regis, Leticia (L.R.) <[lregis@ford.com](mailto:lregis@ford.com)>; Trent, Matt (M.) <[mtrent1@ford.com](mailto:mtrent1@ford.com)>; Moreau, Jerimy (J.C.) <[jmoreau@ford.com](mailto:jmoreau@ford.com)>

**Cc:** Krivtsov, Vasiliy (V.) <[vkrivtso@ford.com](mailto:vkrivtso@ford.com)>; Elwell, Thomas (T. J.) <[telwell3@ford.com](mailto:telwell3@ford.com)>; Neborg, Kai (K.) <[kneborg@ford.com](mailto:kneborg@ford.com)>; Landry, Mike (M.P.) <[mlandry@ford.com](mailto:mlandry@ford.com)>; Hupfeld, Martin (MH.) <[mhupfeld@ford.com](mailto:mhupfeld@ford.com)>; Bravo, Carlos (CUBM.) <[cbravo5@ford.com](mailto:cbravo5@ford.com)>; O'Connor, Tammy (T.A.) <[toconnor@ford.com](mailto:toconnor@ford.com)>; Brown, Darren (D.) <[dbrow614@ford.com](mailto:dbrow614@ford.com)>

**Subject:** Fusion Front Brake Hose Leaks TRG

Team, here is my first draft presentation for the August 11th Executive TRG. Please review and let me know if you have any revisions to suggest. We could run through at Tuesday's 14D meeting. I also recommend that you review this with your management before Wednesday.

Lety, I will add your MWATS slides next week.

## Agenda

Issue Description - Eric

Design Differences – Jorge Sanchez

Design Changes, System Interactions and Manufacturing Changes – Eric

10 Year Statistical Projections – Eric with backup from Vasily (Tom Elwell is unable to attend)

Deep Dive Latest Warranty Data - Eric

MWATS Analysis – Lety Regis/Matt Trent

Next Steps - Eric

*Eric Britton*

Government Investigations

Cell [REDACTED]

---

**From:** Elwell, Thomas (T. J.)  
**Sent:** Friday, July 23, 2021 4:01 PM  
**To:** Britton, Eric (E.J.)  
**Subject:** Re: Fusion Jounce Hose

No problem, Eric.

Get [Outlook for iOS](#)

---

**From:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Sent:** Friday, July 23, 2021 3:59:16 PM  
**To:** Elwell, Thomas (T. J.) <[telwell3@ford.com](mailto:telwell3@ford.com)>  
**Subject:** FW: Fusion Jounce Hose

Tom, thanks for completing all the special requests ahead of the NHTSA meeting. I discussed this with Mike yesterday, and we believe Desi will want to see this plot of actual data at the TRG which is currently scheduled for Wednesday. Would you still be able to do this?

*Eric Britton*

Government Investigations  
Cell [REDACTED]

---

**From:** Britton, Eric (E.J.)  
**Sent:** Wednesday, July 21, 2021 10:21 AM  
**To:** Elwell, Thomas (T. J.) <[TELWELL3@ford.com](mailto:TELWELL3@ford.com)>  
**Subject:** RE: Fusion Jounce Hose

I don't know. That might be ideal but I don't know if we will be able to read it.

*Eric Britton*

Government Investigations  
Cell [REDACTED]

---

**From:** Elwell, Thomas (T. J.) <[telwell3@ford.com](mailto:telwell3@ford.com)>  
**Sent:** Wednesday, July 21, 2021 9:15 AM  
**To:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Subject:** RE: Fusion Jounce Hose

No problem, Eric. Do you want these overlaid on the same plot?

---

**From:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Sent:** Wednesday, July 21, 2021 9:12 AM  
**To:** Elwell, Thomas (T. J.) <[telwell3@ford.com](mailto:telwell3@ford.com)>  
**Subject:** Fusion Jounce Hose

Tom, can you please send the plot of the actual data for the Fusion, Edge, MKX and MKZ. Desi has requested to see this next week. Thanks.

*Eric Britton*

Government Investigations

Cell [REDACTED]

---


**From:** Frankstein, Michael (M.)  
**Sent:** Thursday, July 22, 2021 12:31 PM  
**To:** Elwell, Thomas (T. J.); Krivtsov, Vasiliy (V.)  
**Subject:** RE: Fusion Jounce Hose

Which charts were presented yesterday?

Best regards,

  
GDIA Reliability & Safety Analytics  
Ford Motor Company

 **Cell Phone:** 

 **E-Mail Address:** [mfrankst@ford.com](mailto:mfrankst@ford.com)

---

**From:** Elwell, Thomas (T. J.) <[telwell3@ford.com](mailto:telwell3@ford.com)>  
**Sent:** Thursday, July 22, 2021 12:28 PM  
**To:** Krivtsov, Vasiliy (V.) <[vkritvso@ford.com](mailto:vkritvso@ford.com)>; Frankstein, Michael (M.) <[mfrankst@ford.com](mailto:mfrankst@ford.com)>  
**Subject:** RE: Fusion Jounce Hose

Eric has not sent the deck over to NHTSA yet. He is waiting for our follow-up.

Thank you,  
Tom

---

**From:** Krivtsov, Vasiliy (V.) <[vkritvso@ford.com](mailto:vkritvso@ford.com)>  
**Sent:** Wednesday, July 21, 2021 8:32 PM  
**To:** Frankstein, Michael (M.) <[mfrankst@ford.com](mailto:mfrankst@ford.com)>; Elwell, Thomas (T. J.) <[telwell3@ford.com](mailto:telwell3@ford.com)>  
**Subject:** RE: Fusion Jounce Hose

Let's discuss...

---


**From:** Frankstein, Michael (M.) <[mfrankst@ford.com](mailto:mfrankst@ford.com)>  
**Sent:** Wednesday, July 21, 2021 7:59 PM  
**To:** Krivtsov, Vasiliy (V.) <[vkritvso@ford.com](mailto:vkritvso@ford.com)>; Elwell, Thomas (T. J.) <[telwell3@ford.com](mailto:telwell3@ford.com)>  
**Subject:** RE: Fusion Jounce Hose

The attached presentation includes Bivariate Weibull distribution parameter values as requested.

Best regards,

  
GDIA Reliability & Safety Analytics  
Ford Motor Company

 **Cell Phone:** 

 **E-Mail Address:** [mfrankst@ford.com](mailto:mfrankst@ford.com)

---

**From:** Krivtsov, Vasiliy (V.) <[vkritso@ford.com](mailto:vkritso@ford.com)>  
**Sent:** Wednesday, July 21, 2021 4:06 PM  
**To:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>; Landry, Mike (M.P.) <[mlandry@ford.com](mailto:mlandry@ford.com)>; Elwell, Thomas (T. J.) <[telwell3@ford.com](mailto:telwell3@ford.com)>; Frankstein, Michael (M.) <[mfrankst@ford.com](mailto:mfrankst@ford.com)>  
**Subject:** Re: Fusion Jounce Hose

Eric, we'll send you parameters with explanation tomorrow. —Vasiliy

---

**From:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Sent:** Wednesday, July 21, 2021 4:04:08 PM  
**To:** Krivtsov, Vasiliy (V.) <[vkritso@ford.com](mailto:vkritso@ford.com)>; Landry, Mike (M.P.) <[mlandry@ford.com](mailto:mlandry@ford.com)>; Elwell, Thomas (T. J.) <[telwell3@ford.com](mailto:telwell3@ford.com)>  
**Subject:** Fusion Jounce Hose

Mike, Scott requested the Weibull parameters for the Fusion Predicted Event Probability. Vasily explained it is a lognormal model and the parameters are not easily interpreted. Should I send the presentation without this and see if he follows with questions?

Vasily is there an abbreviated list of parameters we can send?

*Eric Britton*  
Government Investigations  
Cell [REDACTED]

---

**From:** Sanchez, Jorge (J.)  
**Sent:** Wednesday, August 11, 2021 3:22 PM  
**To:** Britton, Eric (E.J.)  
**Subject:** RE: Fusion Jounce Hose

These rings helps to protect the hose of the surrounding components, for example wires.

Regards,  
Jorge Sánchez  
+52-1-55-7931-4340  
jsanc309@ford.com

---

**From:** Britton, Eric (E.J.) <ebritton@ford.com>  
**Sent:** miércoles, 11 de agosto de 2021 06:29 a. m.  
**To:** Sanchez, Jorge (J.) <jsanc309@ford.com>  
**Subject:** Fusion Jounce Hose

Jorge, what is the purpose of these plastic rings?



*Eric Britton*  
Government Investigations  
Cell [REDACTED]

---

**From:** Britton, Eric (E.J.)  
**Sent:** Tuesday, September 21, 2021 2:34 PM  
**To:** Regis, Leticia (L.R.)  
**Cc:** Landry, Mike (M.P.); Trent, Matt (M.)  
**Subject:** RE: FUSION Jounce Hose Data - MWATS 2013-2020 MY continuation review  
**Attachments:** message\_v2.rpmsg

Thank you Lety. Can you do one more thing. I am sending a list of 231 claims which only includes USA/Canada filtered by 3 years 36,000 miles. This will address the difference between the Ford and Lincoln warranty. Can you please make one chart including Fusion and MKZ by Engine similar to the chart below. Thanks.



*Eric Britton*  
Government Investigations  
Cell [REDACTED]

---

**From:** Regis, Leticia (L.R.) <lregis@ford.com>  
**Sent:** Tuesday, September 21, 2021 12:38 PM  
**To:** Britton, Eric (E.J.) <ebritton@ford.com>; Trent, Matt (M.) <mtrent1@ford.com>  
**Cc:** Landry, Mike (M.P.) <mlandry@ford.com>  
**Subject:** RE: FUSION Jounce Hose Data - MWATS 2013-2020 MY continuation review

This is the failure breakdown quantity for vehicle line:  
FUSION : 286  
MKZ :177



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The linked image cannot be displayed. The file may have been moved, renamed, or deleted. Verify that the link points to the correct file and location.

Best Regards!

Lety

---

**From:** Britton, Eric (E.J.) <ebritton@ford.com>  
**Sent:** martes, 21 de septiembre de 2021 10:36 a. m.  
**To:** Regis, Leticia (L.R.) <lregis@ford.com>; Trent, Matt (M.) <mtrent1@ford.com>  
**Cc:** Landry, Mike (M.P.) <mlandry@ford.com>  
**Subject:** RE: FUSION Jounce Hose Data - MWATS 2013-2020 MY continuation review

Thank you. How many claims are included in this analysis?

*Eric Britton*

Government Investigations

Cell [REDACTED]

---

From: Regis, Leticia (L.R.) <[lregis@ford.com](mailto:lregis@ford.com)>

Sent: Tuesday, September 21, 2021 9:16 AM

To: Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>; Trent, Matt (M.) <[mtrent1@ford.com](mailto:mtrent1@ford.com)>

Cc: Landry, Mike (M.P.) <[mlandry@ford.com](mailto:mlandry@ford.com)>

Subject: RE: FUSION Jounce Hose Data - MWATS 2013-2020 MY continuation review

Good Morning!

Here you go, this is for FUSION, I'm including two views,

This is one view MY at the bottom



The linked image cannot be displayed. The file may have been moved, renamed, or deleted. Verify that the link points to the correct file and location.

Or Engines at the bottom



The linked image cannot be displayed. The file may have been moved, renamed, or deleted. Verify that the link points to the correct file and location.

This is MKZ, two views as well



The linked image cannot be displayed. The file may have been moved, renamed, or deleted. Verify that the link points to the correct file and location.



The linked image cannot be displayed. The file may have been moved, renamed, or deleted. Verify that the link points to the correct file and location.

Please let me know if this is what you need.

Cheers!

Lety

---

**From:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Sent:** martes, 21 de septiembre de 2021 08:00 a. m.  
**To:** Regis, Leticia (L.R.) <[lregis@ford.com](mailto:lregis@ford.com)>; Trent, Matt (M.) <[mtrent1@ford.com](mailto:mtrent1@ford.com)>  
**Cc:** Landry, Mike (M.P.) <[mlandry@ford.com](mailto:mlandry@ford.com)>  
**Subject:** RE: FUSION Jounce Hose Data - MWATS 2013-2020 MY continuation review

Lety, can you please make one plot for Fusion and one plot for MKZ with the following breakdown:

U.S. and Canada Only  
Engine  
Model Year

Thanks.

*Eric Britton*  
Government Investigations  
Cell [REDACTED]



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T32MC04

---

**From:** Sanchez, Jorge (J.)  
**Sent:** Friday, January 22, 2021 6:39 PM  
**To:** Britton, Eric (E.J.)  
**Subject:** RE: Fusion Jounce Hoses

Hi Eric,

See below, thanks.

Part Number	Material
DG9Z-2078-A/B	PVA
DG9Z-2078- C/D/E/F	PET
HG9Z-2078-C/D/E/F	PET

Regards,  
Jorge Sánchez

---

**From:** Britton, Eric (E.J.) <ebritton@ford.com>  
**Sent:** viernes, 22 de enero de 2021 12:00 p. m.  
**To:** Sanchez, Jorge (J.) <jsanc309@ford.com>  
**Subject:** Fusion Jounce Hoses

Jorge do you know if these service hose part numbers are PVA or PET?

DG9Z-2078-A/B/C/D/E/F  
HG9Z-2078-C/D/E/F

*Eric Britton*  
Government Investigations  
Cell [REDACTED]

---

**From:** Britton, Eric (E.J.)  
**Sent:** Friday, April 23, 2021 4:01 PM  
**To:** Elwell, Thomas (T. J.)  
**Subject:** RE: Fusion/MKZ & Galaxy/Mondeo Jounce Hose

Based on your analysis Fusion has 126 base warranty claims and MKZ has 108 base warranty claims. The remainder are extended warranty.

*Eric Britton*  
Government Investigations  
Cell [REDACTED]

---

**From:** Elwell, Thomas (T. J.) <telwell3@ford.com>  
**Sent:** Thursday, April 22, 2021 3:59 PM  
**To:** Britton, Eric (E.J.) <ebritton@ford.com>  
**Cc:** Krivtsov, Vasiliy (V.) <vkrivtso@ford.com>; Frankstein, Michael (M.) <mfrankst@ford.com>  
**Subject:** Fusion/MKZ & Galaxy/Mondeo Jounce Hose

Hi Eric,

Please find our analysis for Fusion/MKZ USA and Galaxy/Mondeo EU attached. We updated the Fusion/MKZ based on USA-sold claims and population as we discussed yesterday.

Let me know if you need anything else.

Thank you,  
Tom

---

**From:** Moreau, Jerimy (J.C.)  
**Sent:** Monday, September 27, 2021 8:23 AM  
**To:** Britton, Eric (E.J.)  
**Cc:** Parker, Valencia (V.L.)  
**Subject:** RE: Fusion/MKZ Front Brake Jounce Leaks - EMM  
**Attachments:** RE: 20-207 NHTSA Investigation- Fusion Front Brake Hose Leaks Part Pre-Auth Request

Hello Eric – Do you want to capture the latest Part Cost which now includes a new tooling order for this program (see attached email w/part & tooling cost captured in excel file) as one of your slides for the Part Pre-Auth topic?

I have not had this new tooling cost approved yet.

***Jerimy Moreau***

Program Manager, Recall and Service Programs  
Ford Customer Service Division (FCSD)  
Phone (313) 248-8865  
[jmoreau@ford.com](mailto:jmoreau@ford.com)

---

**From:** Britton, Eric (E.J.) <ebritton@ford.com>  
**Sent:** Friday, September 24, 2021 5:02 PM  
**To:** Strachan, Jonathan (J.) <jstrach7@ford.com>; Bravo, Carlos (CUBM.) <cbravo5@ford.com>; Valencia, Frank (F.) <fvalenci@ford.com>; Landry, Mike (M.P.) <mlandry@ford.com>; Trent, Matt (M.) <mtrent1@ford.com>; Regis, Leticia (L.R.) <lregis@ford.com>; Parrish, Will (W.F.) <wparris1@ford.com>; Moreau, Jerimy (J.C.) <jmoreau@ford.com>; O'Connor, Tammy (T.A.) <toconnor@ford.com>; Leifson, Kirk (K.V.) <kleifson@ford.com>; Liddle, Preston (P.) <pliddle@ford.com>; Rehard, Matt (M.J.) <mrehard@ford.com>; Parker, Valencia (V.L.) <vmitch4@ford.com>  
**Subject:** Fusion/MKZ Front Brake Jounce Leaks - EMM

Here is my draft presentation for Tuesday's EMM meeting with Adrian Diaz. Feel free to review it ahead of the meeting and review it with your management.

Agenda

- Provide a status of the Jounce Hose Investigation
- Define Scope/Affected Population
- Discuss Preauthorization
  - Parts release
- Align on next steps towards a recommendation at the next TRG

***Eric Britton***

Government Investigations  
Cell [REDACTED]

---

**From:** Luikart, Tim (T.E.)  
**Sent:** Wednesday, June 2, 2021 2:58 PM  
**To:** Sanchez, Jorge (J.); Britton, Eric (E.J.); Parrish, Will (W.F.); Valencia, Frank (F.); Huang, Ed (E.)  
**Cc:** Bravo, Carlos (CUBM.); Sierra, Jorge (J.L.); Vazquez, Adrian (A.)  
**Subject:** RE: GRID 20-207 Fusion Front Brake Jounce Hose

Site Engineer is Jorge Sierra, Site Manager is Adrian Vazquez. Jorge and Adrian, please support this investigation.

Thank you.

*Tim Luikart*

NA STA Critical Concerns Manager

[tluikart@ford.com](mailto:tluikart@ford.com)

mobile: [REDACTED]



---

**From:** Sanchez, Jorge (J.) <[jsanc309@ford.com](mailto:jsanc309@ford.com)>  
**Sent:** Wednesday, June 2, 2021 9:29 AM  
**To:** Luikart, Tim (T.E.) <[tluikart@ford.com](mailto:tluikart@ford.com)>; Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>; Parrish, Will (W.F.) <[wparris1@ford.com](mailto:wparris1@ford.com)>; Valencia, Frank (F.) <[fvalenci@ford.com](mailto:fvalenci@ford.com)>; Huang, Ed (E.) <[ehuang@ford.com](mailto:ehuang@ford.com)>  
**Cc:** Bravo, Carlos (CUBM.) <[cbravo5@ford.com](mailto:cbravo5@ford.com)>  
**Subject:** RE: GRID 20-207 Fusion Front Brake Jounce Hose

SUPPLIER CODE/Name: DPFNA HC QUERETARO SA DE CV, This is for MKZ and Fusion built at Hermosillo.

Regards,  
Jorge Sánchez  
+52-1-55-7931-4340  
[jsanc309@ford.com](mailto:jsanc309@ford.com)

---

**From:** Luikart, Tim (T.E.) <[tluikart@ford.com](mailto:tluikart@ford.com)>  
**Sent:** miércoles, 2 de junio de 2021 08:16 a. m.  
**To:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>; Parrish, Will (W.F.) <[wparris1@ford.com](mailto:wparris1@ford.com)>; Valencia, Frank (F.) <[fvalenci@ford.com](mailto:fvalenci@ford.com)>; Huang, Ed (E.) <[ehuang@ford.com](mailto:ehuang@ford.com)>  
**Cc:** Sanchez, Jorge (J.) <[jsanc309@ford.com](mailto:jsanc309@ford.com)>; Bravo, Carlos (CUBM.) <[cbravo5@ford.com](mailto:cbravo5@ford.com)>  
**Subject:** RE: GRID 20-207 Fusion Front Brake Jounce Hose

I need the site code please.

*Tim Luikart*

NA STA Critical Concerns Manager

[tluikart@ford.com](mailto:tluikart@ford.com)

mobile: [REDACTED]



---

**From:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Sent:** Wednesday, June 2, 2021 9:15 AM  
**To:** Parrish, Will (W.F.) <[wparris1@ford.com](mailto:wparris1@ford.com)>; Valencia, Frank (F.) <[fvalenci@ford.com](mailto:fvalenci@ford.com)>; Huang, Ed (E.) <[ehuang@ford.com](mailto:ehuang@ford.com)>  
**Cc:** Sanchez, Jorge (J.) <[jsanc309@ford.com](mailto:jsanc309@ford.com)>; Bravo, Carlos (CUBM.) <[cbravo5@ford.com](mailto:cbravo5@ford.com)>; Luikart, Tim (T.E.) <[tluikart@ford.com](mailto:tluikart@ford.com)>  
**Subject:** RE: GRID 20-207 Fusion Front Brake Jounce Hose

Does anyone know who the site STA is for the 2013-2017MY Fusion/MKZ Front Brake Jounce Hose? The supplier is Hitachi. There was a 14D kicked off in the May 25 CCRG Meeting and I also need STA help into a possible deep dive into supplier records for any manufacturing changes. Thanks.

*Eric Britton*

Government Investigations

Cell [REDACTED]

---

**From:** Britton, Eric (E.J.)  
**Sent:** Tuesday, May 25, 2021 11:20 AM  
**To:** Parrish, Will (W.F.) <[wparris1@ford.com](mailto:wparris1@ford.com)>; Valencia, Frank (F.) <[fvalenci@ford.com](mailto:fvalenci@ford.com)>; Huang, Ed (E.) <[ehuang@ford.com](mailto:ehuang@ford.com)>  
**Cc:** Sanchez, Jorge (J.) <[JSANC309@ford.com](mailto:JSANC309@ford.com)>; Bravo, Carlos (CUBM.) <[cbravo5@ford.com](mailto:cbravo5@ford.com)>  
**Subject:** GRID 20-207 Fusion Front Brake Jounce Hose

Will, here is a copy of the CCRG Template. This also serves as the draft TRG presentation.

Frank and Ed, this issue was presented at the NA CCRG this morning and a 14D was kicked off based on the new data update. Let me know if you have any questions ahead of the Executive TRG tomorrow.

Thanks

*Eric Britton*

Government Investigations

Cell [REDACTED]

---

**From:** Sanchez, Jorge (J.)  
**Sent:** Tuesday, July 28, 2020 5:04 PM  
**To:** Britton, Eric (E.J.)  
**Subject:** RE: Jounce Hose

Hi Eric,

Yes it includes all CD391 variants, it is interesting there are no claims for the Hybrid.

Regards,  
Jorge Sánchez

---

**From:** Britton, Eric (E.J.) <ebritton@ford.com>  
**Sent:** martes, 28 de julio de 2020 11:35 a. m.  
**To:** Sanchez, Jorge (J.) <jsanc309@ford.com>  
**Subject:** Jounce Hose

Jorge, did you include Fusion Hybrid in your data search for split hoses? I noticed there are no reports

*Eric Britton*  
Government Investigations  
Tel. 313-323-2966  
Cell [REDACTED]

---

**From:** Sanchez, Jorge (J.)  
**Sent:** Monday, April 24, 2017 7:51 PM  
**To:** Parrish, Will (W.F.)  
**Subject:** RE: Jounce Hose Docs Help

Thank you very much Will.

Best Regards  
Jorge Sánchez  
Ford Motor Company  
Brakes D&R  
Desk: +52-1-55-13-34-01-68  
Cellphone: [REDACTED]  
E-mail: jsanc309@ford.com

---

**From:** Parrish, Will (W.F.)  
**Sent:** lunes, 24 de abril de 2017 02:49 p.m.  
**To:** Sanchez, Jorge (J.)  
**Subject:** RE: Jounce Hose Docs Help

I've attached what was previously sent to me.

*Will Parrish*

Critical Concerns  
Desk: 313-594-2075 / Mobile: [REDACTED]  
PDC GC-D26A / Mail Drop #327  
E-Mail: [wparris1@ford.com](mailto:wparris1@ford.com)

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**From:** Sanchez, Jorge (J.)  
**Sent:** Monday, April 24, 2017 3:42 PM  
**To:** Parrish, Will (W.F.) <[wparris1@ford.com](mailto:wparris1@ford.com)>  
**Subject:** Jounce Hose Docs Help

Hello Will good afternoon,

I hope you are doing great.

I was requested to compile all docs reviewed with your team in regards jounce hose investigation, Could you please send me the files you have? I would like to double check and confirm that I'm not missing anything. I highly appreciate your help. Thanks!

Best Regards

Jorge Sánchez  
Ford Motor Company  
Brakes D&R  
Desk: +52-1-55-13-34-01-68  
Cellphone: [REDACTED]  
E-mail: [jsanc309@ford.com](mailto:jsanc309@ford.com)

---

**From:** Britton, Eric (E.J.)  
**Sent:** Thursday, April 28, 2022 9:47 AM  
**To:** Krivtsov, Vasiliy (V.); Elwell, Thomas (T. J.)  
**Cc:** Landry, Mike (M.P.)  
**Subject:** RE: Update for Statistician meeting about front brake hose failure projections

Perfect. Thanks.

*Eric Britton*  
Government Investigations  
Cell [REDACTED]

---

**From:** Krivtsov, Vasiliy (V.) <vkritso@ford.com>  
**Sent:** Thursday, April 28, 2022 9:13 AM  
**To:** Britton, Eric (E.J.) <ebritton@ford.com>; Elwell, Thomas (T. J.) <TELWELL3@ford.com>  
**Cc:** Landry, Mike (M.P.) <mlandry@ford.com>  
**Subject:** RE: Update for Statistician meeting about front brake hose failure projections

Eic/Tom,

Regarding the software name, pls respond as follows:

The bivariate (in time and mileage) failure probability model, described in Section 7.2.3.3 of the following text-book:

M. Modarres, M. P. Kaminsky, V.V. Krivtsov (2016), *Reliability Engineering and Risk Analysis*, 3rd edition, Taylor & Francis, London, ISBN: 978-1498745871.

<https://www.amazon.com/Reliability-Engineering-Risk-Analysis-Practical/dp/1498745873>

Vasiliy

**Vasiliy V. Krivtsov, PhD**  
Director of Reliability Analytics  
The Ford Motor Company  
vkritso@ford.com | 313-323-8711  
[REDACTED]

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]



Vasiliy

---

**From:** Britton, Eric (E.J.) <ebritton@ford.com>  
**Sent:** Wednesday, April 27, 2022 10:14 PM  
**To:** Krivtsov, Vasiliy (V.) <vkritso@ford.com>; Elwell, Thomas (T. J.) <TELWELL3@ford.com>  
**Cc:** Landry, Mike (M.P.) <mlandry@ford.com>  
**Subject:** FW: Update for Statistician meeting about front brake hose failure projections

Tom, can you answer the question from NHTSA

“can Ford provide data set (data source and software name) used for each Ford jounce hose projection performed”

Thanks.

**Eric Britton**

Government Investigations

Cell [REDACTED]

---

**From:** Yandrick, Matthew (NHTSA) <[matthew.yandrick@dot.gov](mailto:matthew.yandrick@dot.gov)>  
**Sent:** Wednesday, April 27, 2022 3:53 PM  
**To:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>; Afety, S (S.) <[safety24@ford.com](mailto:safety24@ford.com)>  
**Cc:** Lee, Michael (NHTSA) <[Michael.Lee@dot.gov](mailto:Michael.Lee@dot.gov)>  
**Subject:** RE: Update for Statistician meeting about front brake hose failure projections

**WARNING:** This message originated outside of Ford Motor Company. Use caution when opening attachments, clicking links, or responding.

Hi Eric,

Thank you for sending the 5/5/22 meeting to discuss the Fusion & MKZ Brake Jounce Hose Projections.

For the meeting can Ford provide data set (data source and software name) used for each Ford jounce hose projection performed?

-Matt



**Matthew Yandrick**

Electronics Engineer, Office of Defects Investigation  
VDD-C Team Lead Detail

Department of Transportation

National Highway Traffic Safety Administration

W46-475

1200 New Jersey Avenue SE., Washington, DC 20590

Office: 202-366-1126

---

**From:** Yandrick, Matthew (NHTSA)  
**Sent:** Friday, April 22, 2022 4:46 PM  
**To:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>; Afety, S (S.) <[safety24@ford.com](mailto:safety24@ford.com)>  
**Subject:** RE: Update for Statistician meeting about front brake hose failure projections

Hi Eric,

Would a meeting the week of May 2-6 work for Ford data analysis group?

The available times for ODI are the following:

Tuesday 3 May: 1130-1300

Wednesday 4 May: 1200-1300, 1400-1600

Thursday 5 May: 1130-1300, 1500-1600

If that week is good, please include the following invitee list

@Yandrick, Matthew (NHTSA) Yandrick, Matthew (NHTSA) <[matthew.yandrick@dot.gov](mailto:matthew.yandrick@dot.gov)>

@Lee, Michael (NHTSA) Lee, Michael (NHTSA) <[Michael.Lee@dot.gov](mailto:Michael.Lee@dot.gov)>

@Kivett, Peter (NHTSA) Kivett, Peter (NHTSA) <[Peter.Kivett@dot.gov](mailto:Peter.Kivett@dot.gov)>

@Charles, Courtney (NHTSA) Charles, Courtney (NHTSA) <[courtney.charles@dot.gov](mailto:courtney.charles@dot.gov)>

@Quandt, Jeff (NHTSA) Quandt, Jeff (NHTSA) <[Jeff.Quandt@dot.gov](mailto:Jeff.Quandt@dot.gov)>

-Matt



**Matthew Yandrick**  
Electronics Engineer, Office of Defects Investigation  
VDD-C Team Lead Detail  
**Department of Transportation**  
**National Highway Traffic Safety Administration**  
**W46-475**  
1200 New Jersey Avenue SE., Washington, DC 20590  
Office: 202-366-1126

---

**From:** Yandrick, Matthew (NHTSA)  
**Sent:** Thursday, April 21, 2022 2:38 PM  
**To:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Subject:** Update for Statistician meeting about front brake hose failure projections

Hi Eric,  
I wanted to give you a quick update, once I meet with our NHTSA statistician, I will send you the invitee list and availability, probably by COB tomorrow.

-Matt



**Matthew Yandrick**  
Electronics Engineer, Office of Defects Investigation  
VDD-C Team Lead Detail  
**Department of Transportation**  
**National Highway Traffic Safety Administration**  
**W46-475**  
1200 New Jersey Avenue SE., Washington, DC 20590  
Office: 202-366-1126

---

**From:** Britton, Eric (E.J.)  
**Sent:** Monday, April 27, 2020 6:32 PM  
**To:** Parrish, Will (W.F.)  
**Subject:** RE: You have been added as an Observer on 14D '2013-18 CD4 Front Brake Jounce Hose Leaks'

Thanks!

*Eric Britton*

Government Investigations

Tel. 313-323-2966

Cell [REDACTED]

---

**From:** Parrish, Will (W.F.) <wparrish1@ford.com>  
**Sent:** Monday, April 27, 2020 2:28 PM  
**To:** Britton, Eric (E.J.) <ebritton@ford.com>  
**Subject:** RE: You have been added as an Observer on 14D '2013-18 CD4 Front Brake Jounce Hose Leaks'

I submitted the VERN to FCSD on Thursday last week and I'm awaiting the results. My understanding is they are prioritizing the once for items going to this Friday's FRC.

The link may be old as the system was migrated sometime around the beginning of the year. Please use this link instead.

<https://www-bpm.app.ford.com/teamworks/executeServiceByName?processApp=FSAE&serviceName=fsaeDashboard>

*Will Parrish*

Critical Concerns

PDC GC-D26A, Mail Drop #327

Desk: 313-594-2075 / Mobile: [REDACTED]

E-Mail: [wparrish1@ford.com](mailto:wparrish1@ford.com)

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**From:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Sent:** Monday, April 27, 2020 2:22 PM  
**To:** Parrish, Will (W.F.) <[wparrish1@ford.com](mailto:wparrish1@ford.com)>  
**Subject:** FW: You have been added as an Observer on 14D '2013-18 CD4 Front Brake Jounce Hose Leaks'

Will, do we have a population yet? I was not able to access this 14D. I got an error message.

*Eric Britton*

Government Investigations

Tel. 313-323-2966

Cell [REDACTED]

---

**From:** [BPMS@ford.com](mailto:BPMS@ford.com) <[BPMS@ford.com](mailto:BPMS@ford.com)>

**Sent:** Wednesday, January 29, 2020 9:45 AM

**To:** Verster, Pieter (J.P.) <[pverste1@ford.com](mailto:pverste1@ford.com)>; Fastje, Justin (.) <[jfastje@ford.com](mailto:jfastje@ford.com)>; Gu, Tao (T.) <[tgu4@ford.com](mailto:tgu4@ford.com)>; Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>; Bardell, Art (.) <[abardell@ford.com](mailto:abardell@ford.com)>; Edelen, Jack (J.M.) <[jedelen@ford.com](mailto:jedelen@ford.com)>; Petrovski, Michael (M.) <[mpetrov2@ford.com](mailto:mpetrov2@ford.com)>; Cooper, Andy (A.H.) <[acoope49@ford.com](mailto:acoope49@ford.com)>; Wu, Jiu Shan (Hill.) <[jwu137@ford.com](mailto:jwu137@ford.com)>; Landry, Mike (M.P.) <[mlandry@ford.com](mailto:mlandry@ford.com)>

**Subject:** You have been added as an Observer on 14D '2013-18 CD4 Front Brake Jounce Hose Leaks'

Hi

CCM Will Parrish(WPARRIS1) has assigned you as an Observer on 14D **2013-18 CD4 Front Brake Jounce Hose Leaks**.

You can view the 14D by clicking [here](#)

Alternatively you can select it from 'My Associated 14Ds' via the Dashboard [here](#)

Please keep this email for your reference and a link to the Dashboard.

---

**From:** Huang, Ed (E.)  
**Sent:** Wednesday, April 22, 2020 3:31 PM  
**To:** Parrish, Will (W.F.)  
**Cc:** Huang, Ed (E.)  
**Subject:** RE: You have been added as an Observer on 14D '2013-18 CD4 Front Brake Jounce Hose Leaks'

Thanks, it works!

Regards,  
Ed Huang  
Manager, Global Variable Brake Engineering  
Cell: [REDACTED]  
Email: [ehuang@ford.com](mailto:ehuang@ford.com)

---

**From:** Parrish, Will (W.F.) <[wparris1@ford.com](mailto:wparris1@ford.com)>  
**Sent:** Wednesday, April 22, 2020 9:35 AM  
**To:** Huang, Ed (E.) <[ehuang@ford.com](mailto:ehuang@ford.com)>  
**Subject:** FW: You have been added as an Observer on 14D '2013-18 CD4 Front Brake Jounce Hose Leaks'

Ed,  
Please the below email for the latest links. The 14D system was upgraded earlier this year, so the older links may no longer work.

*Will Parrish*

Critical Concerns  
PDC GC-D26A, Mail Drop #327  
Desk: 313-594-2075 / Mobile: [REDACTED]  
E-Mail: [wparris1@ford.com](mailto:wparris1@ford.com)

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---

**From:** [BPMS@ford.com](mailto:BPMS@ford.com) <[BPMS@ford.com](mailto:BPMS@ford.com)>  
**Sent:** Wednesday, April 22, 2020 9:32 AM  
**To:** Cruse, Mark (M.) <[mcruse@ford.com](mailto:mcruse@ford.com)>; Tan, Ella (G.) <[gtan1@ford.com](mailto:gtan1@ford.com)>; Zhang, Jason (Pin.) <[pzhang11@ford.com](mailto:pzhang11@ford.com)>; Zhou, Jason (X.Q.) <[xzhou56@ford.com](mailto:xzhou56@ford.com)>; Bunting, Ross (R.) <[rbunting@ford.com](mailto:rbunting@ford.com)>; Xu, Jackie (N.J.) <[nxu4@ford.com](mailto:nxu4@ford.com)>; Diaz, Adrian (A.D.) <[adiaz41@ford.com](mailto:adiaz41@ford.com)>  
**Cc:** Parrish, Will (W.F.) <[wparris1@ford.com](mailto:wparris1@ford.com)>  
**Subject:** You have been added as an Observer on 14D '2013-18 CD4 Front Brake Jounce Hose Leaks'

Hi  
CCM Will Parrish(WPARRIS1) has assigned you as an Observer on 14D **2013-18 CD4 Front Brake Jounce Hose**

**Leaks.**

You can view the 14D by clicking [here](#)

Alternatively you can select it from 'My Associated 14Ds' via the Dashboard [here](#)

Please keep this email for your reference and a link to the Dashboard.

---

**From:** Huang, Ed (E.)  
**Sent:** Tuesday, May 12, 2020 11:38 AM  
**To:** Britton, Eric (E.J.)  
**Cc:** Huang, Ed (E.)  
**Subject:** RE: You have been added as an Observer on 14D '2013-18 CD4 Front Brake Jounce Hose Leaks'  
**Attachments:** FW: MKX MKZ Brake Jounce Hose Data

Yes, it was due to the comparison of cumulative hazard plots on Slide 19.

Regards,  
Ed Huang  
Manager, Global Variable Brake Engineering  
Cell: [REDACTED]  
Email: [ehuang@ford.com](mailto:ehuang@ford.com)

---

**From:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Sent:** Tuesday, May 12, 2020 7:29 AM  
**To:** Huang, Ed (E.) <[ehuang@ford.com](mailto:ehuang@ford.com)>  
**Subject:** FW: You have been added as an Observer on 14D '2013-18 CD4 Front Brake Jounce Hose Leaks'

Ed, do you remember why we decided to include UAE in this 14D?

*Eric Britton*  
Government Investigations  
Tel. 313-323-2966  
Cell [REDACTED]

---

**From:** Parrish, Will (W.F.) <[wparris1@ford.com](mailto:wparris1@ford.com)>  
**Sent:** Wednesday, April 29, 2020 12:19 PM  
**To:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Subject:** RE: You have been added as an Observer on 14D '2013-18 CD4 Front Brake Jounce Hose Leaks'

Eric,

The extract from the VERN came back yesterday, but I found some issues with the population it reflected. It need to be rerun, but based the information in this first run, I'd estimate the population to approximately 74k vehicles (53k in China alone). This includes Lincoln and Ford models in China, Taiwan, S. Korea, & UAE.

*Will Parrish*

Critical Concerns

PDC GC-D26A, Mail Drop #327

Desk: 313-594-2075 / Mobile: [REDACTED]

E-Mail: [wparrish1@ford.com](mailto:wparrish1@ford.com)

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---

**From:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>

**Sent:** Monday, April 27, 2020 2:22 PM

**To:** Parrish, Will (W.F.) <[wparrish1@ford.com](mailto:wparrish1@ford.com)>

**Subject:** FW: You have been added as an Observer on 14D '2013-18 CD4 Front Brake Jounce Hose Leaks'

Will, do we have a population yet? I was not able to access this 14D. I got an error message.

*Eric Britton*

Government Investigations

Tel. 313-323-2966

Cell [REDACTED]

---

**From:** [BPMS@ford.com](mailto:BPMS@ford.com) <[BPMS@ford.com](mailto:BPMS@ford.com)>

**Sent:** Wednesday, January 29, 2020 9:45 AM

**To:** Verster, Pieter (J.P.) <[pverste1@ford.com](mailto:pverste1@ford.com)>; Fastje, Justin (.) <[jfastje@ford.com](mailto:jfastje@ford.com)>; Gu, Tao (T.) <[tgu4@ford.com](mailto:tgu4@ford.com)>; Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>; Bardell, Art (.) <[abardell@ford.com](mailto:abardell@ford.com)>; Edelen, Jack (J.M.) <[jedelen@ford.com](mailto:jedelen@ford.com)>; Petrovski, Michael (M.) <[mpetrov2@ford.com](mailto:mpetrov2@ford.com)>; Cooper, Andy (A.H.) <[acoope49@ford.com](mailto:acoope49@ford.com)>; Wu, Jiu Shan (Hill.) <[jwu137@ford.com](mailto:jwu137@ford.com)>; Landry, Mike (M.P.) <[mlandry@ford.com](mailto:mlandry@ford.com)>

**Subject:** You have been added as an Observer on 14D '2013-18 CD4 Front Brake Jounce Hose Leaks'

Hi  
CCM Will Parrish(WPARRIS1) has assigned you as an Observer on 14D **2013-18 CD4 Front Brake Jounce Hose Leaks**.

You can view the 14D by clicking [here](#)

Alternatively you can select it from 'My Associated 14Ds' via the Dashboard [here](#)

Please keep this email for your reference and a link to the Dashboard.

---

**From:** Britton, Eric (E.J.)  
**Sent:** Tuesday, May 12, 2020 1:46 PM  
**To:** Parrish, Will (W.F.)  
**Subject:** RE: You have been added as an Observer on 14D '2013-18 CD4 Front Brake Jounce Hose Leaks'

Thanks.

*Eric Britton*  
Government Investigations  
Tel. 313-323-2966  
Cell [REDACTED]

---

**From:** Parrish, Will (W.F.) <wparrish1@ford.com>  
**Sent:** Tuesday, May 12, 2020 7:33 AM  
**To:** Britton, Eric (E.J.) <ebritton@ford.com>  
**Subject:** RE: You have been added as an Observer on 14D '2013-18 CD4 Front Brake Jounce Hose Leaks'

Eric, try this link. Also the Extract is attached with the volumes.

[REDACTED]

*Will Parrish*  
Critical Concerns  
PDC GC-D26A, Mail Drop #327  
Desk: 313-594-2075 / Mobile: [REDACTED]  
E-Mail: [wparrish1@ford.com](mailto:wparrish1@ford.com)

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---

**From:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Sent:** Tuesday, May 12, 2020 7:26 AM  
**To:** Parrish, Will (W.F.) <[wparrish1@ford.com](mailto:wparrish1@ford.com)>  
**Subject:** RE: You have been added as an Observer on 14D '2013-18 CD4 Front Brake Jounce Hose Leaks'

I get an error when I try to access the 14D. Are we including Fusion/Mondeo in UAE?

*Eric Britton*

Government Investigations  
Tel. 313-323-2966  
Cell [REDACTED]

---

**From:** Parrish, Will (W.F.) <[wparrish1@ford.com](mailto:wparrish1@ford.com)>  
**Sent:** Wednesday, April 29, 2020 12:19 PM  
**To:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Subject:** RE: You have been added as an Observer on 14D '2013-18 CD4 Front Brake Jounce Hose Leaks'

Eric,

The extract from the VERN came back yesterday, but I found some issues with the population it reflected. It need to be rerun, but based the information in this first run, I'd estimate the population to approximately 74k vehicles (53k in China alone). This includes Lincoln and Ford models in China, Taiwan, S. Korea, & UAE.

*Will Parrish*

Critical Concerns

PDC GC-D26A, Mail Drop #327

Desk: 313-594-2075 / Mobile: [REDACTED]

E-Mail: [wparrish1@ford.com](mailto:wparrish1@ford.com)

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---

**From:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Sent:** Monday, April 27, 2020 2:22 PM  
**To:** Parrish, Will (W.F.) <[wparrish1@ford.com](mailto:wparrish1@ford.com)>  
**Subject:** FW: You have been added as an Observer on 14D '2013-18 CD4 Front Brake Jounce Hose Leaks'

Will, do we have a population yet? I was not able to access this 14D. I got an error message.

*Eric Britton*

Government Investigations

Tel. 313-323-2966

Cell [REDACTED]

---

**From:** [BPMS@ford.com](mailto:BPMS@ford.com) <[BPMS@ford.com](mailto:BPMS@ford.com)>  
**Sent:** Wednesday, January 29, 2020 9:45 AM  
**To:** Verster, Pieter (J.P.) <[pverste1@ford.com](mailto:pverste1@ford.com)>; Fastje, Justin (.) <[jfastje@ford.com](mailto:jfastje@ford.com)>; Gu, Tao (T.) <[tgu4@ford.com](mailto:tgu4@ford.com)>; Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>; Bardell, Art (.) <[abardell@ford.com](mailto:abardell@ford.com)>; Edelen, Jack (J.M.) <[jedelen@ford.com](mailto:jedelen@ford.com)>; Petrovski, Michael (M.) <[mpetrov2@ford.com](mailto:mpetrov2@ford.com)>; Cooper, Andy (A.H.) <[acoope49@ford.com](mailto:acoope49@ford.com)>; Wu, Jiu Shan (Hill.) <[jwu137@ford.com](mailto:jwu137@ford.com)>; Landry, Mike (M.P.) <[mlandry@ford.com](mailto:mlandry@ford.com)>  
**Subject:** You have been added as an Observer on 14D '2013-18 CD4 Front Brake Jounce Hose Leaks'

Hi  
CCM Will Parrish(WPARRIS1) has assigned you as an Observer on 14D **2013-18 CD4 Front Brake Jounce Hose Leaks**.

You can view the 14D by clicking [here](#)

Alternatively you can select it from 'My Associated 14Ds' via the Dashboard [here](#)

Please keep this email for your reference and a link to the Dashboard.

---

**From:** Britton, Eric (E.J.)  
**Sent:** Friday, June 19, 2020 7:37 PM  
**To:** Sanchez, Jorge (J.)  
**Subject:** Split Hoses

Jorge, are you able to create 36 MIS Cumulative TIS for Regions?

NA Edge (combined 15-17MY)  
NA Fusion (combined 13-17MY)  
NA MKX (combined 16-17MY)  
NA MKZ (combined 13-17MY)  
EU S-Max/Galaxy (combined 15-17MY)  
EU Mondeo (combined 15-17)

*Eric Britton*  
Government Investigations  
Tel. 313-323-2966  
Cell [REDACTED]

---

**From:** Sanchez, Jorge (J.)  
**Sent:** Thursday, July 30, 2020 5:31 PM  
**To:** Parrish, Will (W.F.); Petrovski, Michael (M.); Huang, Ed (E.); Bravo, Carlos (CUBM.); Landry, Mike (M.P.); Britton, Eric (E.J.); Brezee, Shane (S.B.); Spencer, Elissa (E.E.); Baker, Zachary (Z.); O'Connor, Tammy (T.A.); Ludington, Julie (J.L.); Newlin, Andrea (A.M.)  
**Subject:** RE: Draft Fact Sheet: 2013-18 Brake Jounce Hoses  
**Attachments:** 19Y02 Fact Sheet draft - Multi Veh. Brake Jounce Hoses.docx

Hello team,

Thank you very much for your support in today's meeting, find attached the latest update.

Regards,  
Jorge Sánchez

---

**From:** Sanchez, Jorge (J.)  
**Sent:** viernes, 17 de julio de 2020 04:05 p. m.  
**To:** Parrish, Will (W.F.) <[wparris1@ford.com](mailto:wparris1@ford.com)>; Petrovski, Michael (M.) <[mpetrov2@ford.com](mailto:mpetrov2@ford.com)>; Huang, Ed (E.) <[ehuang@ford.com](mailto:ehuang@ford.com)>; Bravo, Carlos (CUBM.) <[cbravo5@ford.com](mailto:cbravo5@ford.com)>; Landry, Mike (M.P.) <[mlandry@ford.com](mailto:mlandry@ford.com)>; Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>; Brezee, Shane (S.B.) <[sbrezee@ford.com](mailto:sbrezee@ford.com)>; Spencer, Elissa (E.E.) <[espenc34@ford.com](mailto:espenc34@ford.com)>; Baker, Zachary (Z.) <[zbaker1@ford.com](mailto:zbaker1@ford.com)>; O'Connor, Tammy (T.A.) <[toconnor@ford.com](mailto:toconnor@ford.com)>; Ludington, Julie (J.L.) <[jludingt@ford.com](mailto:jludingt@ford.com)>; Newlin, Andrea (A.M.) <[ANEWLIN@ford.com](mailto:ANEWLIN@ford.com)>  
**Subject:** RE: Draft Fact Sheet: 2013-18 Brake Jounce Hoses

Hello team,

Find attached the link to the latest update. Thanks.

Regards,  
Jorge Sánchez

---

**From:** Sanchez, Jorge (J.)  
**Sent:** jueves, 16 de julio de 2020 04:10 p. m.  
**To:** Parrish, Will (W.F.) <[wparris1@ford.com](mailto:wparris1@ford.com)>; Petrovski, Michael (M.) <[mpetrov2@ford.com](mailto:mpetrov2@ford.com)>; Huang, Ed (E.) <[ehuang@ford.com](mailto:ehuang@ford.com)>; Bravo, Carlos (CUBM.) <[cbravo5@ford.com](mailto:cbravo5@ford.com)>; Landry, Mike (M.P.) <[mlandry@ford.com](mailto:mlandry@ford.com)>; Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>; Brezee, Shane (S.B.) <[sbrezee@ford.com](mailto:sbrezee@ford.com)>; Spencer, Elissa (E.E.) <[espenc34@ford.com](mailto:espenc34@ford.com)>; Baker, Zachary (Z.) <[zbaker1@ford.com](mailto:zbaker1@ford.com)>; O'Connor, Tammy (T.A.) <[toconnor@ford.com](mailto:toconnor@ford.com)>; Ludington, Julie (J.L.) <[jludingt@ford.com](mailto:jludingt@ford.com)>; Newlin, Andrea (A.M.) <[ANEWLIN@ford.com](mailto:ANEWLIN@ford.com)>  
**Subject:** RE: Draft Fact Sheet: 2013-18 Brake Jounce Hoses

Hello team,

Today we updated the Fact Sheet, find the link attached. Thanks for your support.

Regards,  
Jorge Sánchez

---

**From:** Parrish, Will (W.F.) <[wparris1@ford.com](mailto:wparris1@ford.com)>  
**Sent:** lunes, 15 de junio de 2020 04:44 p. m.  
**To:** Huang, Ed (E.) <[ehuang@ford.com](mailto:ehuang@ford.com)>; Bravo, Carlos (CUBM.) <[cbravo5@ford.com](mailto:cbravo5@ford.com)>; Sanchez, Jorge (J.) <[jsanc309@ford.com](mailto:jsanc309@ford.com)>; Edelen, Jack (J.M.) <[jedelen@ford.com](mailto:jedelen@ford.com)>; Landry, Mike (M.P.) <[mlandry@ford.com](mailto:mlandry@ford.com)>; Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>; Brezee, Shane (S.B.) <[sbreeze@ford.com](mailto:sbrezee@ford.com)>; Spencer, Elissa (E.E.) <[espenc34@ford.com](mailto:espenc34@ford.com)>; Baker, Zachary (Z.) <[zbaker1@ford.com](mailto:zbaker1@ford.com)>; O'Connor, Tammy (T.A.) <[toconnor@ford.com](mailto:toconnor@ford.com)>  
**Cc:** Dent, Solomon (S.) <[sdent1@ford.com](mailto:sdent1@ford.com)>  
**Subject:** Draft Fact Sheet: 2013-18 Brake Jounce Hoses  
**Importance:** High

Hi all,

I've copied over the prior fact sheet info and made some changes to the Concern Description from the prior original fact sheet. The rest of the sections are the same as the original. Please review and make comments/edits as appropriate.

Note: I am sharing the fact sheet file via OneDrive that all updated will be shared live with the rest of the team. To edit, simply open the document from this email, make your edits and close. Thanks.

*Will Parrish*

Critical Concerns

PDC GC-D26A, Mail Drop #327

Desk: 313-594-2075 / Mobile: [REDACTED]

E-Mail: [wparris1@ford.com](mailto:wparris1@ford.com)

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---

**From:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Sent:** Thursday, July 23, 2020 4:52 PM  
**To:** Diaz, Adrian (A.D.) <[adiaz41@ford.com](mailto:adiaz41@ford.com)>  
**Subject:** RE: Jounce Hose Outcomes

Adrian, can you look at my clarification in number 2) below please.

*Eric Britton*  
Government Investigations  
Tel. 313-323-2966  
Cell [REDACTED]

REDACTED FOR PRIVILEGE

REDACTED FOR PRIVILEGE

# MKZ/Fusion/Mondeo Update Manual



## Mondeo/Fusion Update Manual

**WARNING:** Before beginning any retrofit procedure in this manual, refer to health and safety warnings in section 100-00 general information. Failure to follow this instruction may result in serious personal injury.

This manual describes update procedures specified by Ford Motor Company for the vehicle. Critical health and safety precautions are included. Anyone who deviates from these instructions risks compromising personal safety or vehicle integrity.

[Refer to "Health and Safety Precautions"](#)

### Section Content

This manual explains required update procedures for Mondeo/Fusion vehicles where front brake hoses ("JG9C-2078/2B557-AA") will be installed.

Following vehicle parts need to be updated:

1. - Front brake jounce hose (Replace).
2. - Front suspension height sensor and harness (Modify).
3. - Front left and right wheel arch liners (Modify).
4. - Front wheels inboard flange weights (Modify).

Parts List:

Description	Part number	Quantity
Right Front Brake Hose	JG9C-2078-AA	1
Left Front Brake Hose	JG9C-2B557-AA	1
Right Washers	W711784-S300	2
Left Washers	W711784-S300	2

This manual is divided into groups, each containing sections numbered based on the component part number. Section contents may include:

- Specifications
  - Fluid capacities, component specifications and torque values not covered in other procedures
- Description and Operation
  - Overview of the system, component locations, and system operation
- Diagnosis and Testing
  - Symptom charts, DTC charts and diagnostic tests
  - See the Diagnosis and Testing Information in this document
- General Procedures
  - Service adjustments, electronic programming and other special procedures

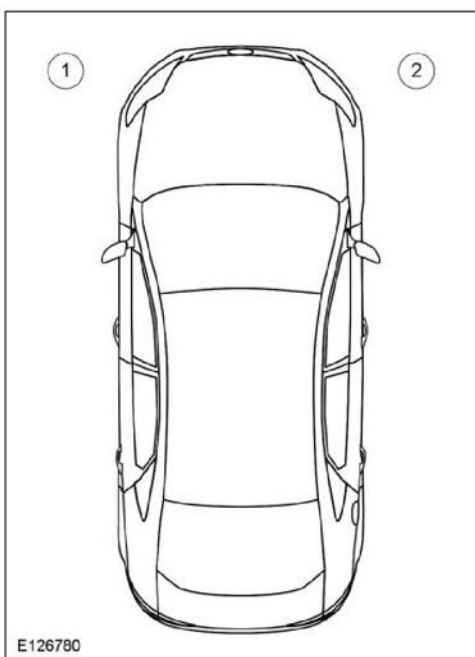
- Removal and Installation
  - Component removal and installation instructions
- Removal
  - Component removal instructions
- Installation
  - Component installation instructions
- Disassembly and Assembly
  - Component disassembly and assembly instructions
- Disassembly and Assembly of Subassemblies
  - Assembly disassembly and assembly instructions

### IMPORTANT INFORMATION

Section number 100-00 General Information contains the following important information (including this document):

- Critical Health and Safety Precautions - service safety precautions applicable to the entire manual. For additional information, refer to: [Refer to "Health and Safety Precautions"](#) (100-00 General Information, Description and Operation).
- For additional information, refer to: [Refer to "Brake and Clutch Systems Health and Safety Precautions"](#) (100-00 General Information, Description and Operation).

### LH and RH Designations



Item	Part Number	Description
1	—	LH (left-hand)
2	—	RH (right-hand)

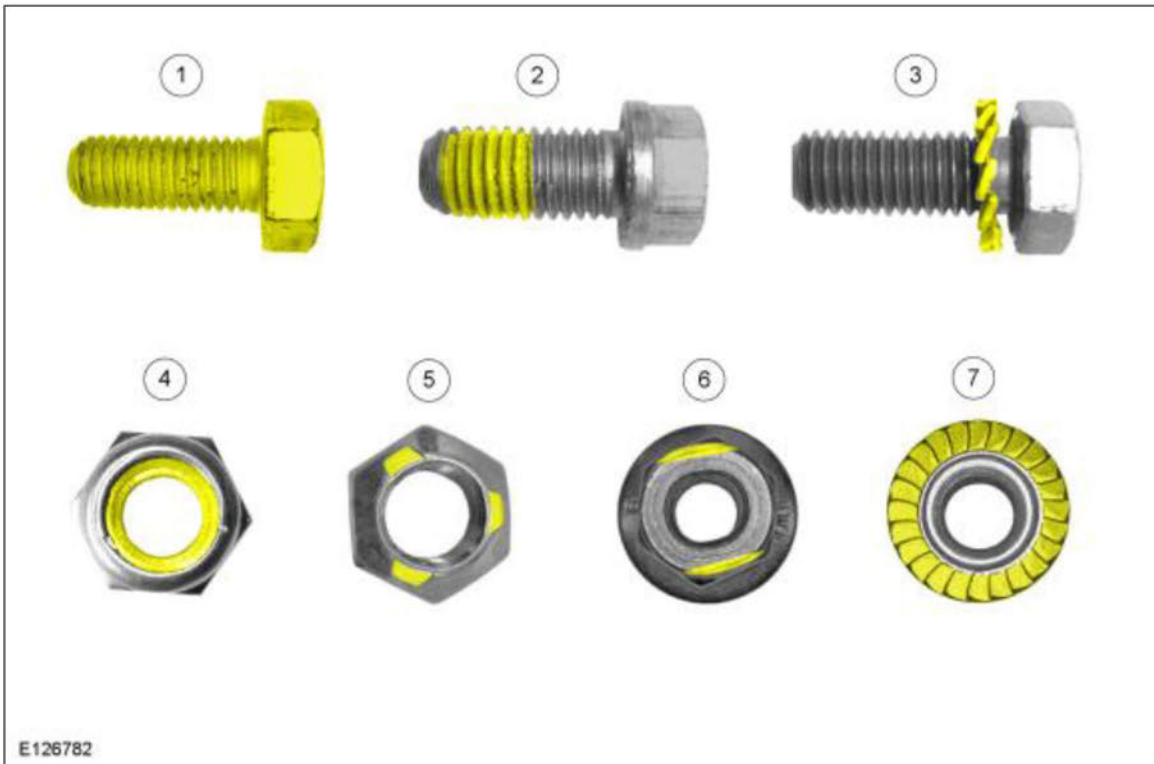
**Standard Practices**

The following rules apply, unless specified differently in the procedure:

**FASTENERS**

- Reuse standard fasteners.
- Replace fasteners with self-locking features.
  - Examples of fastener self-locking coatings or mechanical locking (with the locking features highlighted yellow) are shown in the illustration.
- Replace fasteners with torque angle specifications (those tightened a specified number of degrees).

**Examples of self-locking nuts and bolts**



Item	Part Number	Description
1	—	Completely coated self-locking bolt
2	—	Partially coated self-locking bolt
3	—	Self-locking bolt with a locking washer
4	—	Self-locking nut with a plastic locking insert

5	—	Self-locking nut with thread deformation (3 indentations)
6	—	Self-locking nut with thread deformation (to oval shape)
7	—	Self-locking nut with integrated locking ring

#### THREAD FORMING FASTENERS

The following is a general description of best practices to be followed during handling of thread forming fasteners and mating components.

#### Manual Torque Application

Hand tools are required for installation of a thread forming fastener. Do not use power tools, as the possibility for over-torquing or stripped threads exists. If a fastener is over-torqued, the joint can fail.

#### Hand Start Fasteners in Reverse

To avoid the possibility of cross-threading pre-existing threads during fastener replacement, begin by first hand-inserting the new fastener and rotating counter-clockwise. This reverse rotation allows for the location of existing fastener threads to ensure the fastener does not cross-thread upon thread re-engagement. Once the existing fastener threads are located, hand-start individual fasteners manually until finger tight.

#### Risks of Over-Torque

Consult the Workshop Manual procedure when torquing thread forming fasteners and follow torque specification as listed. Make sure the fastener is fully seated against the mating component with no gap during reassembly.

#### Corrosion

During fastener replacement, inspect both fastener and mating component for signs of rust or other corrosion. If corrosion is found, replace corroded components with new components.

#### Stripped Threads

If internal (mating component) threads or external (fastener) threads appear stripped or galled, replace both fastener and mating component. When tightening, if minimum torque is not reached, internal threads on mating component may have stripped. Remove the fastener to inspect and replace mating component if stripped threads are found.

#### Face Seals

When replacing fasteners, inspect mating component surface for debris, damage, disturbance, wear, or abrasion and replace any seals or gaskets if damage is found.

#### SEALS AND GASKETS

Replace seals and gaskets, unless specified differently in the procedure.

#### EXTERIOR TRIM PARTS

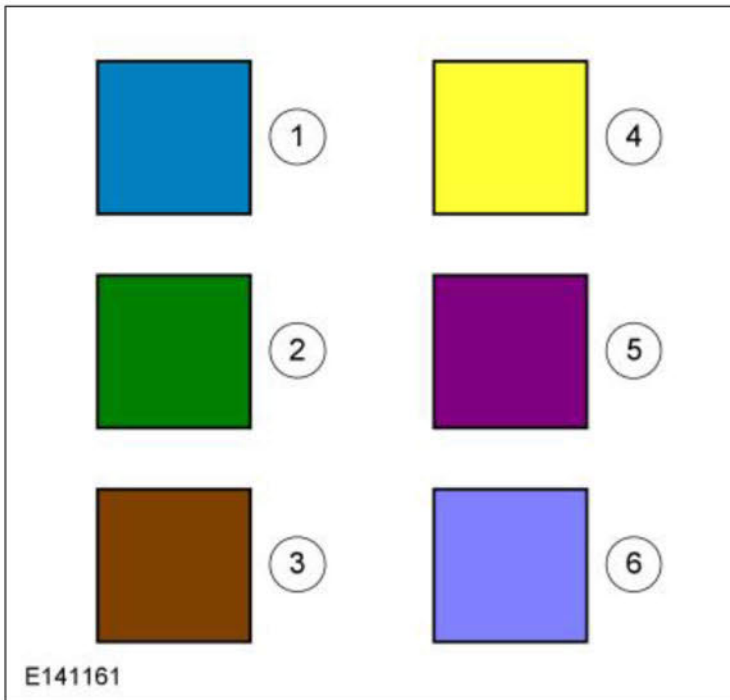
Replace exterior trim parts fastened with glue or adhesive tape, unless specified differently in the procedure.

### Mechanical Procedures

Illustrations in this manual may be used instead of written step instructions. Color-coding (see color scheme illustration) is used to communicate the required step action or actions. Service action icons may be used to add information regarding the required action.

For additional information, [Refer to "Symbols Glossary"](#) (100-00 General Information, Description and Operation).

### Illustration Color-coding



Item	Part Number	Description
1	—	Blue - Target or primary component to be removed/installed (or disassembled/assembled).
2	—	Green - Components that need to be removed prior to or installed after the target/primary.
3	—	Brown - Components that need to be removed prior to or installed after the target/primary.
4	—	Yellow - Components to be set aside for access, but not removed. Also highlighted areas to inspect or adjust.
5	—	Magenta - Electrical connectors and fasteners such as nuts, bolts, clamps, or clips to be: detached, attached, loosened, moved, removed or installed.
6	—	Pale Blue - Special tool(s), general equipment, or common tools used in an uncommon way.

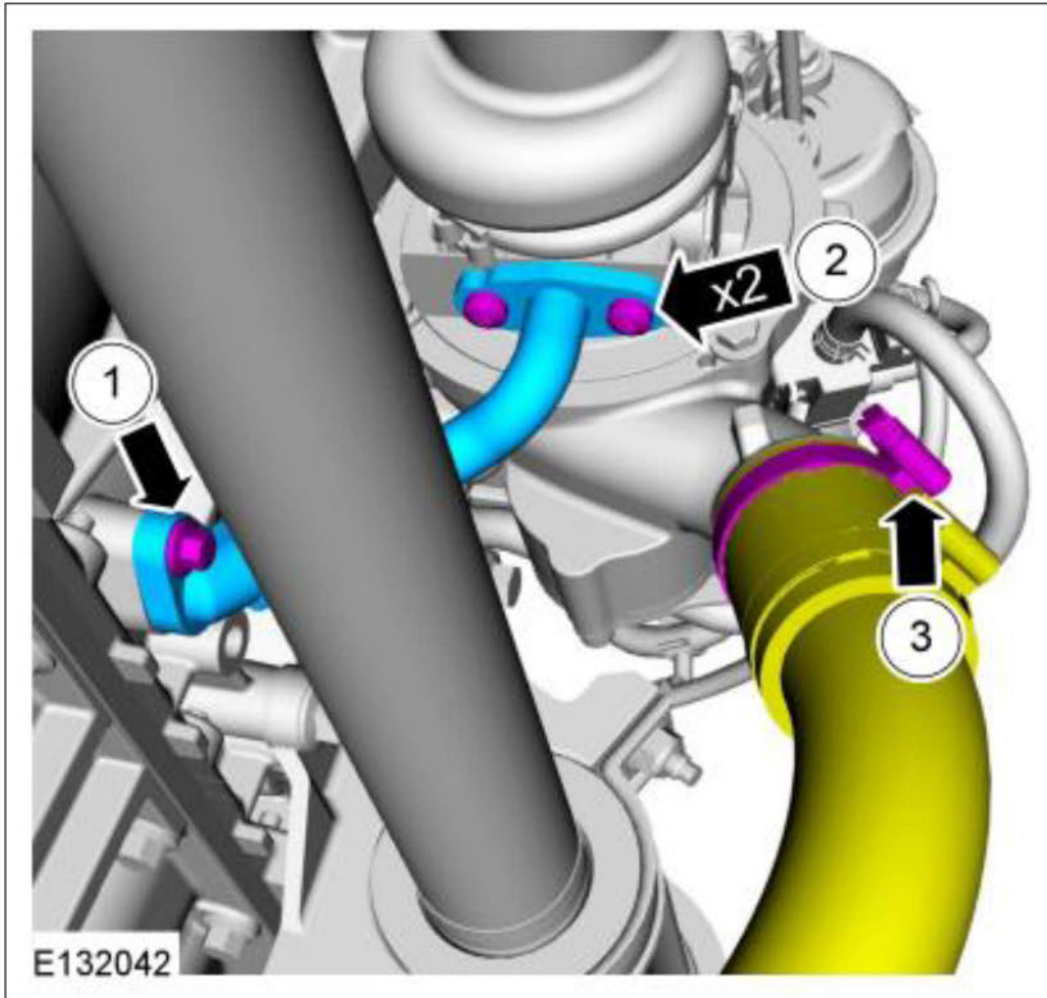
### Other color coding

- Alternating Blue and White - Chemical, adhesive or sealer apply areas
- Red - Sectioned or cut-away areas
- Grey - Background components shown for location information

### ILLUSTRATION TASK SEQUENCE

Components that must be removed or installed in a specific sequence are identified with a numbered callout. Any associated step text is numbered accordingly.

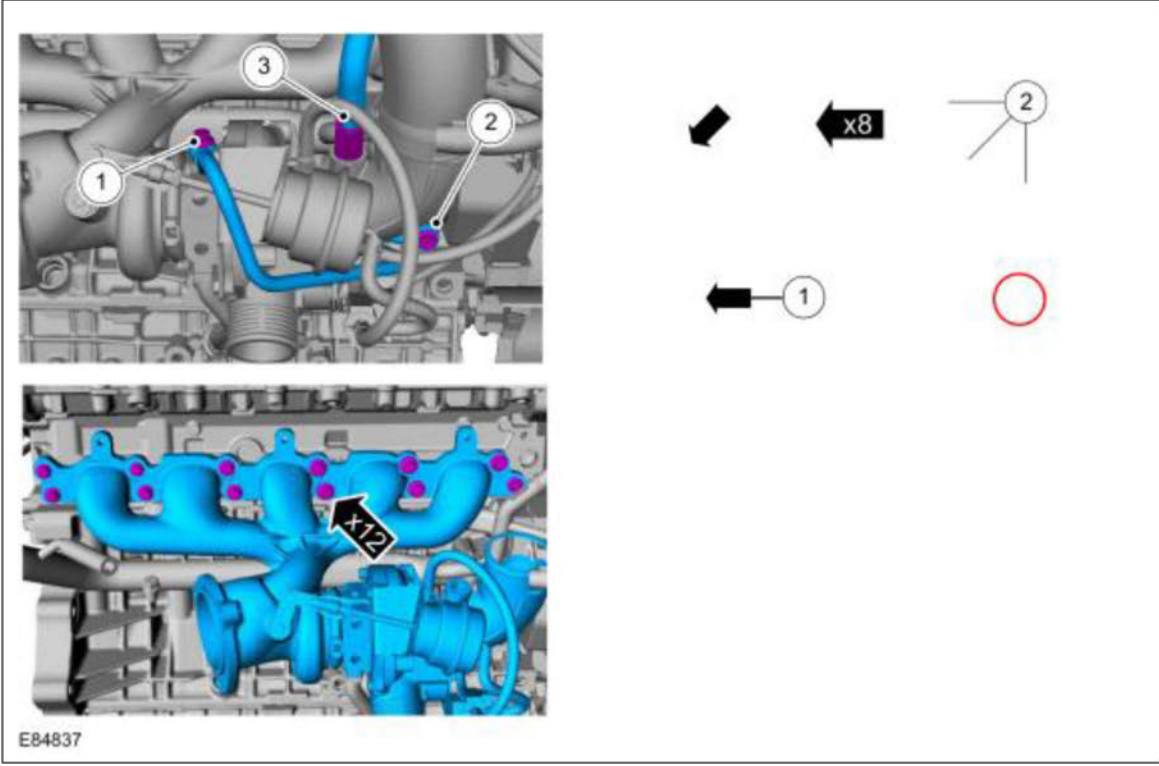
- Simple procedure example showing color-coding and task sequence.



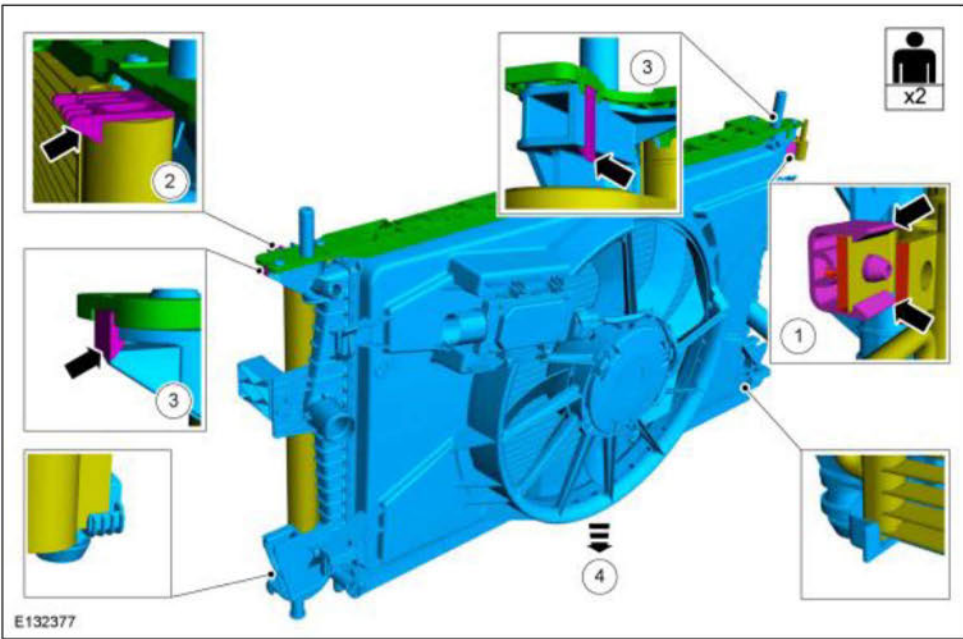
Black arrows are used to draw attention to components (usually fasteners). Arrows with multiples specified (here, x2) identify an identical number of fasteners or items. Callouts (numbers inside circles) show a required sequence or tightening torque.

In the illustration, the callouts indicate the removal sequence, **which is reversed for installation**. The yellow coloring of the hose indicates it is to be positioned aside (not removed). Two identical (magenta-colored) fasteners are indicated by the x2 arrow. The fasteners in this illustration require different torques (same torque for the x2 fasteners) so numbered callouts are used to identify them with torque values in the associated step text. The (magenta-colored) hose clamp is another fastener to be removed.

• Examples of fastener removal sequence and an identical service action for 12 fasteners. Other possible symbols are shown on the right.



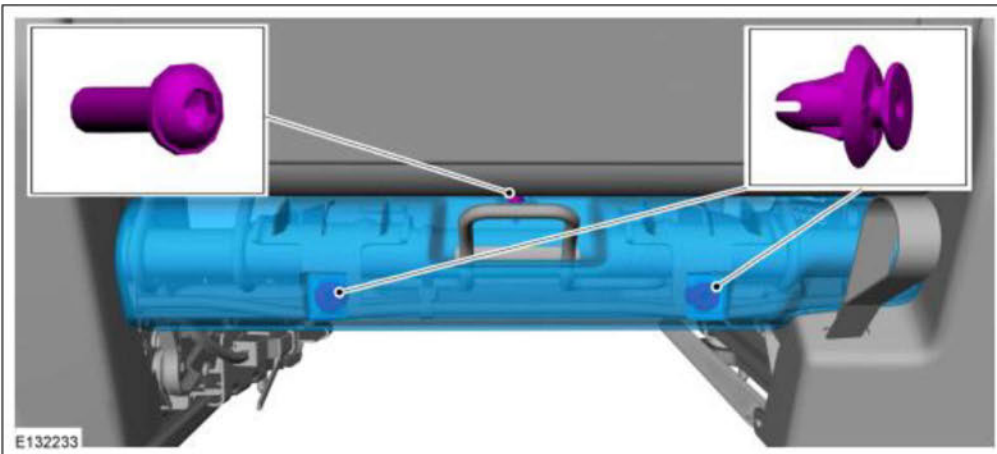
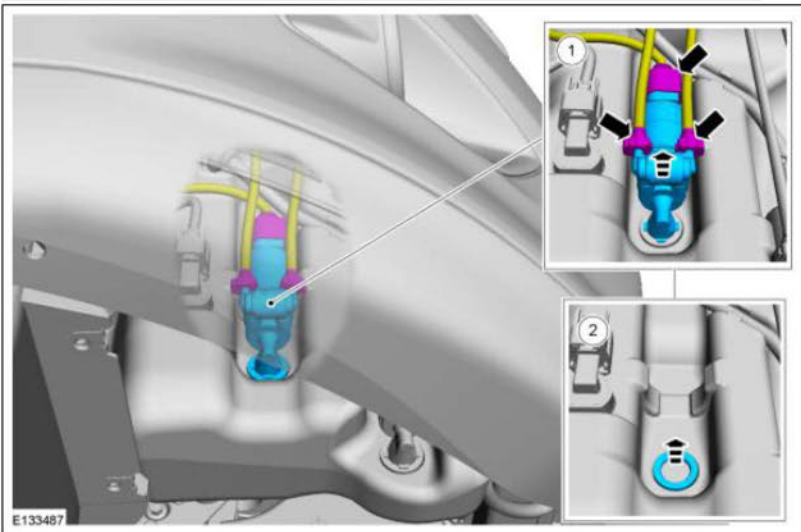
Example of fastener sequence information with two persons required for the service action



### HIDDEN DETAILS

Separate detail boxes or transparent components may be used to show hidden items in an illustration.

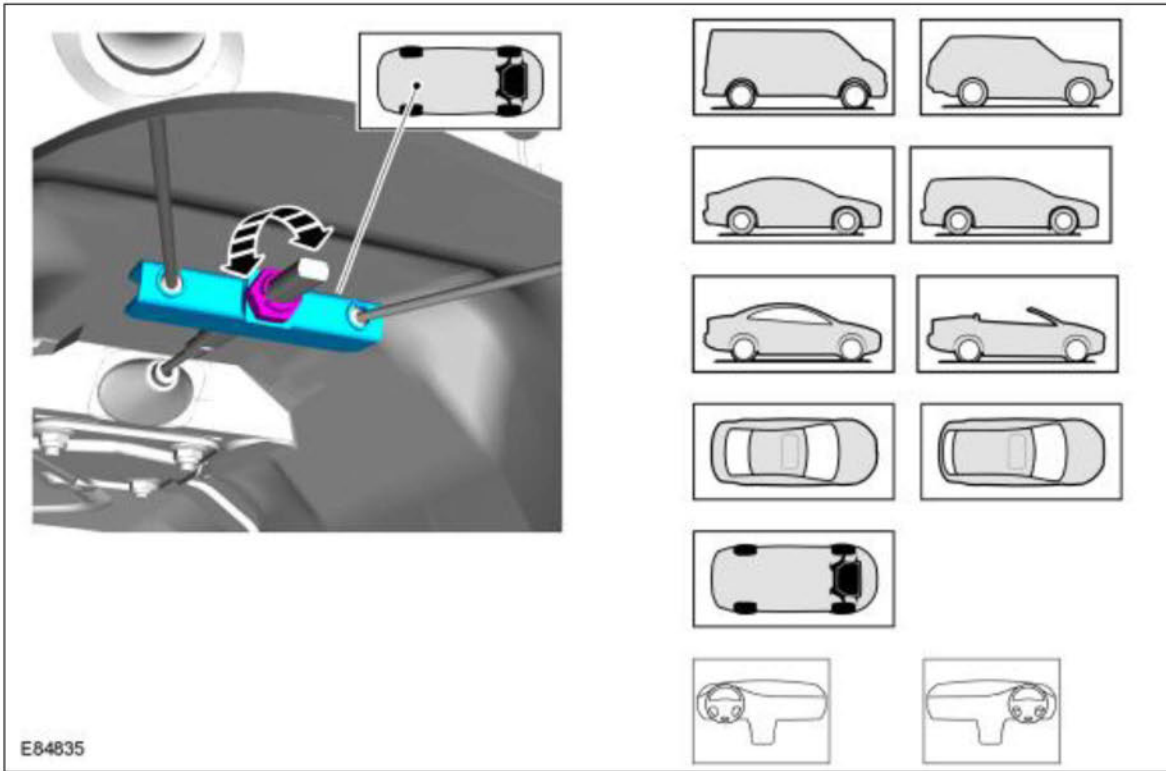
#### Example of hidden fastener information



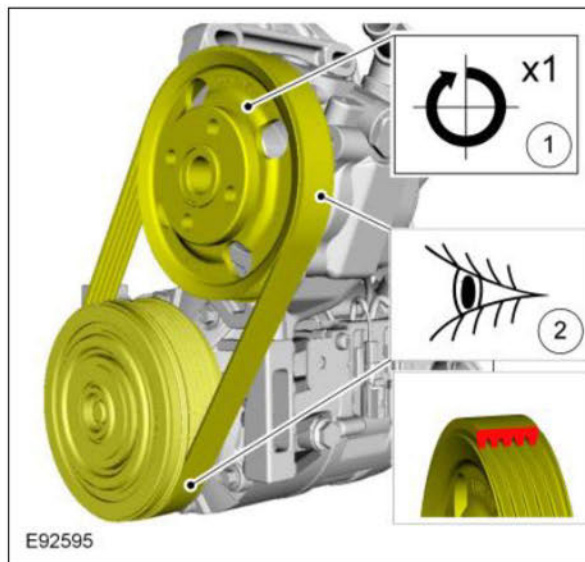
**SERVICE ACTION ICONS**

Service action icons may be used to add information regarding the required action. For additional information, Refer to *"Symbols Glossary"* (100-00 General Information, Description and Operation).

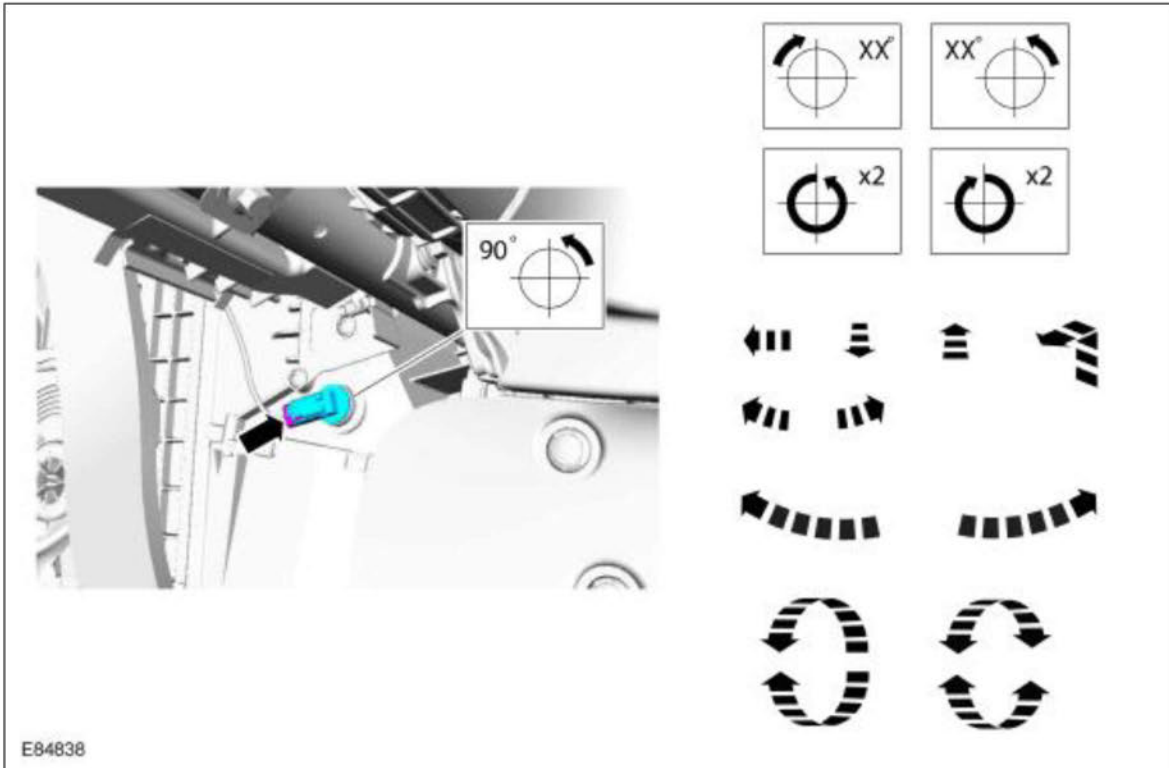
Location symbols show the location of a component or system on the vehicle.



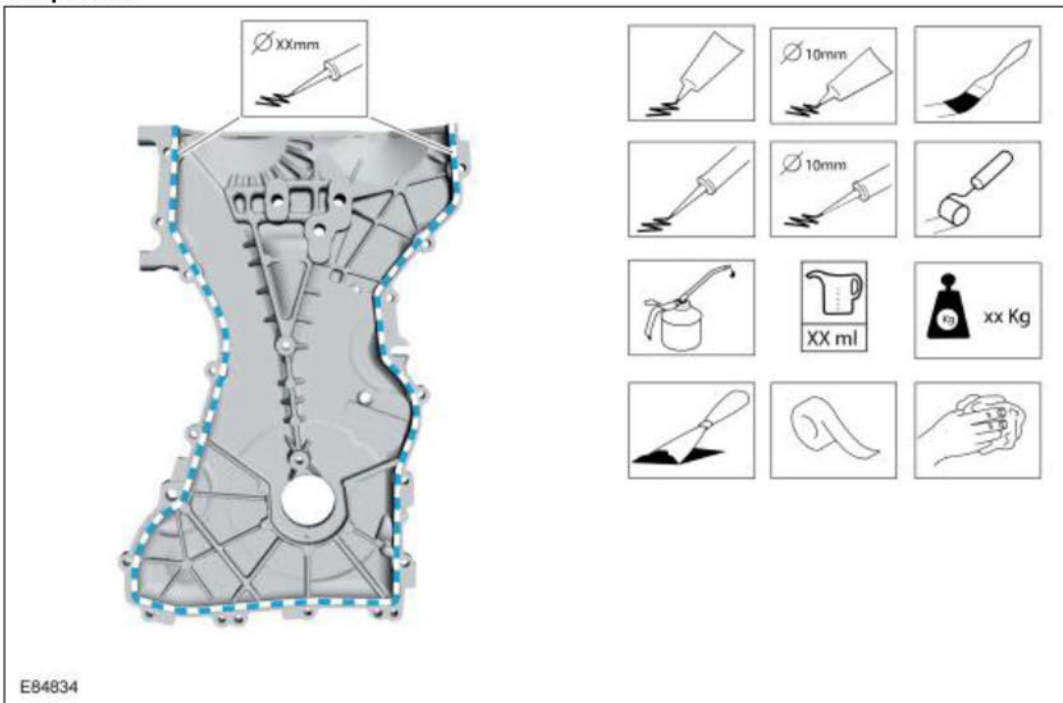
Example of service action icons pointing to highlighted components.



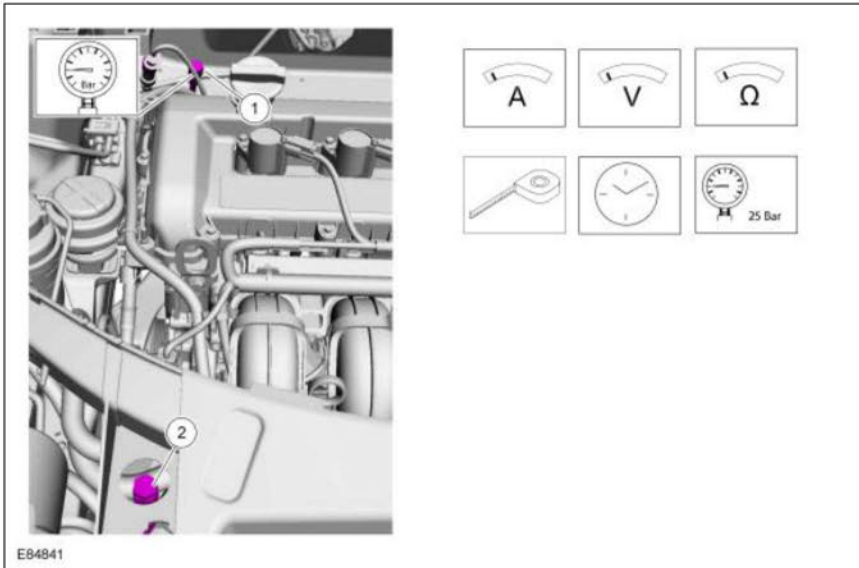
Movement arrows and service action icons show three dimensional or rotational movements.



Instruction symbols are used to apply sealer, lubricant, weight, tape or cleaning detergent to a component.



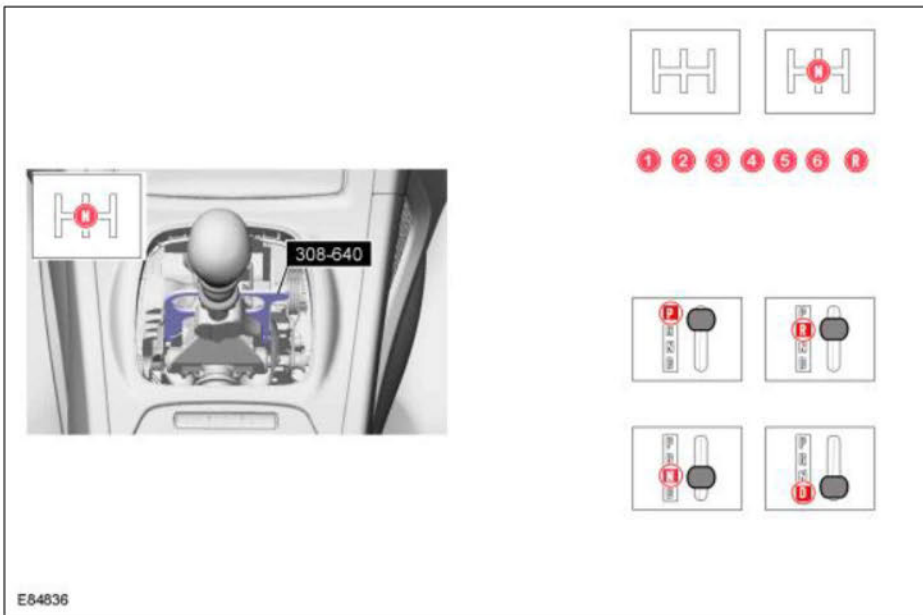
Measurement symbols provide the information required to perform a specific measurement. These symbols may include specific values.



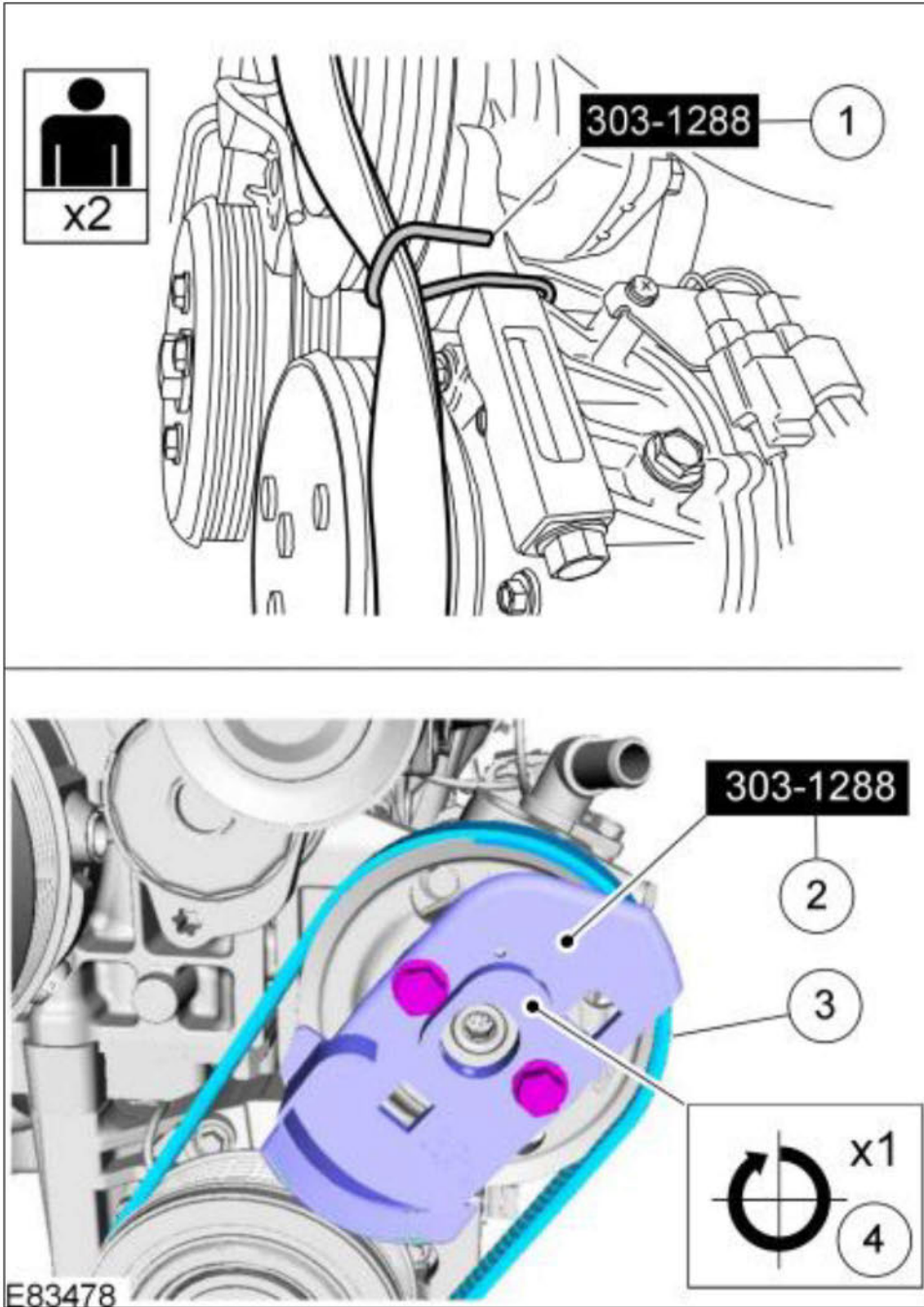
**SPECIAL TOOLS, EQUIPMENT, MATERIALS AND TORQUE VALUES**

When Ford special tools are required for the procedure, the tool and tool number are shown in an illustration. Special tool numbers, general equipment, materials or torque values for the procedure step are shown in the text steps.

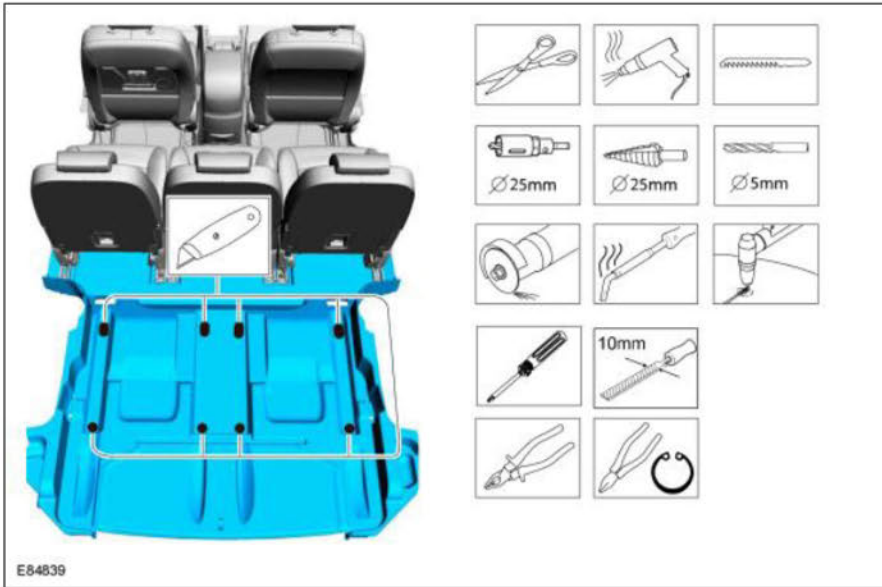
Example of special service tool and symbol used to hold the gear shift in the required gear position. Other possible symbols are shown on the right.



Example of two illustrations used together with sequence steps, service action icons and special service tools



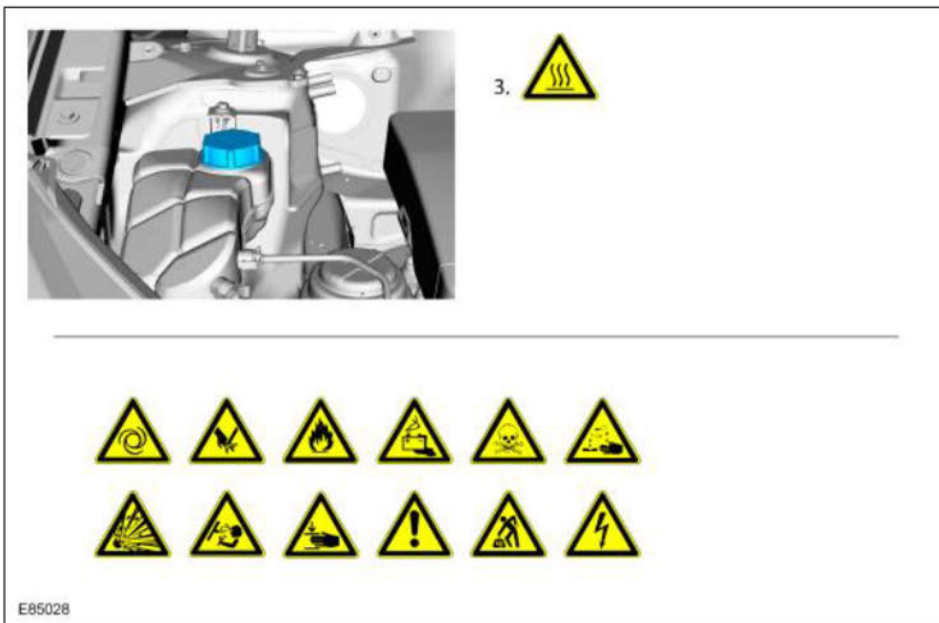
Tool symbols direct the use of standard tools. The tool size or dimension may be specified.



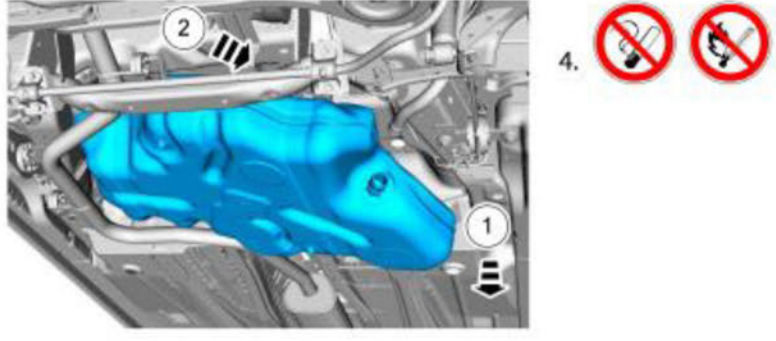
**HEALTH AND SAFETY SYMBOLS**

Some procedures may contain health and safety symbols that are associated with a specific service action. For additional information, refer to: [Symbols Glossary](#) (100-00 General Information, Description and Operation). Always read and understand all health and safety precautions found in Section 100-00 before beginning any procedure. For additional information, refer to: [Health and Safety Precautions](#) (100-00 General Information, Description and Operation).


ISO warning symbols may be used to indicate potential hazards.



**These symbols prohibit various hazardous actions**

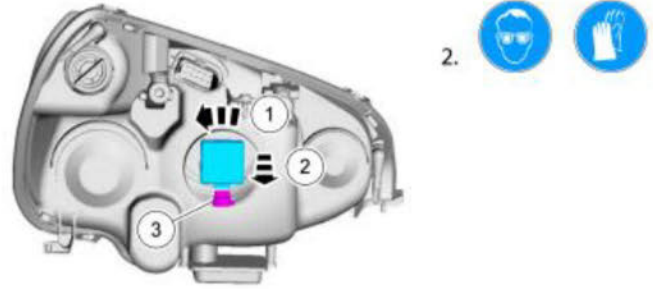


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E85026

**These symbols direct the use of personal protection equipment**



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E85027

## Left Side Front Brake Flexible Hose

### • Vehicle Left Side Update

#### 1. - Front Brake Flexible Hose

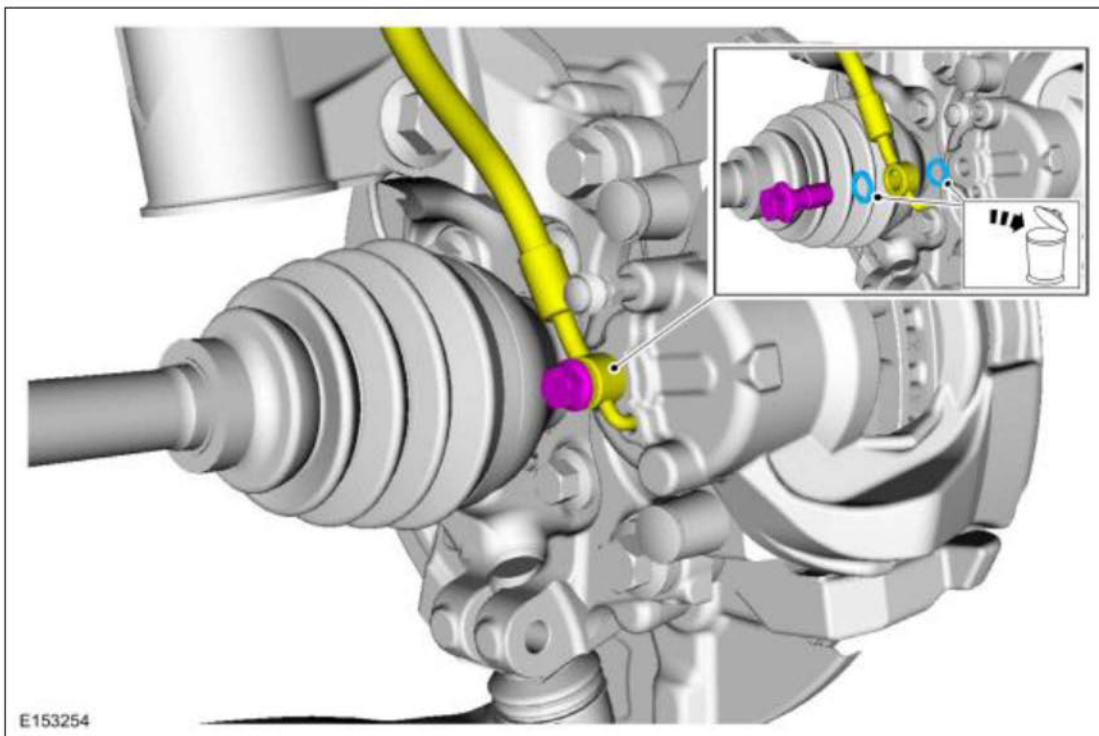
##### Removal

NOTE: Removal steps in this procedure may contain installation details.

1.  **WARNING:** Before beginning any service procedure in this section, refer to Safety Warnings in section 100-00 General Information. Failure to follow this instruction may result in serious personal injury.

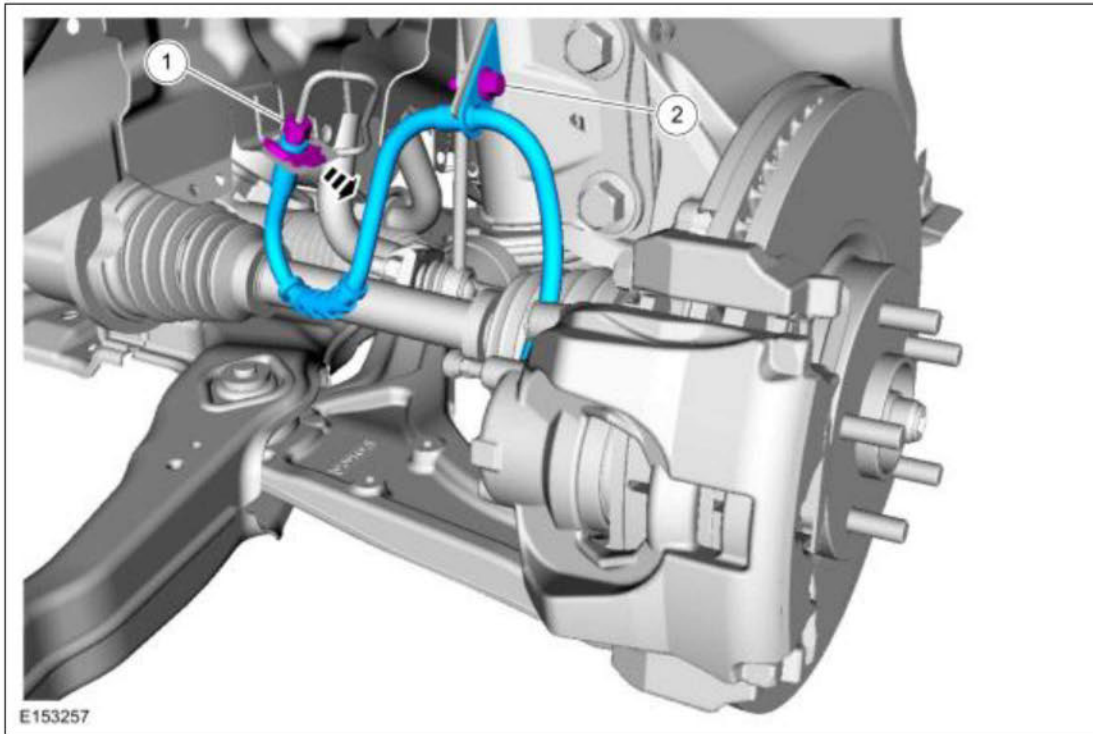
*Refer to "Health and Safety Precautions" (100-00 General Information, Description and Operation).*

2. Remove the wheel and tire.  
*Refer to "Wheel and Tire" (204-04A Wheels and Tires, Removal and Installation).*
3. Remove the flow bolt and detach the front brake hose. Discard the washers.  
*Torque: 25 Nm*



## Left Side Front Brake Flexible Hose

4.
  1. Disconnect the brake tube fitting.  
*Torque: 18 Nm*
  2. Remove the brake flexible hose bracket bolt, the clip and the brake flexible hose.  
*Torque: 18 Nm*



### Installation

1. To install, reverse the removal procedure with **JG9C-2B557-AA** for left side and **JG9C-2078-AA** for right side front brake flexible hoses.
2. Bleed the brake system.  
*Refer to "Brake System Pressure Bleeding"* (206-00 Brake System - General Information, General Procedures).

## Front Suspension Height Sensor

### 2. - Front Suspension Height Sensor and Harness (if equipped).

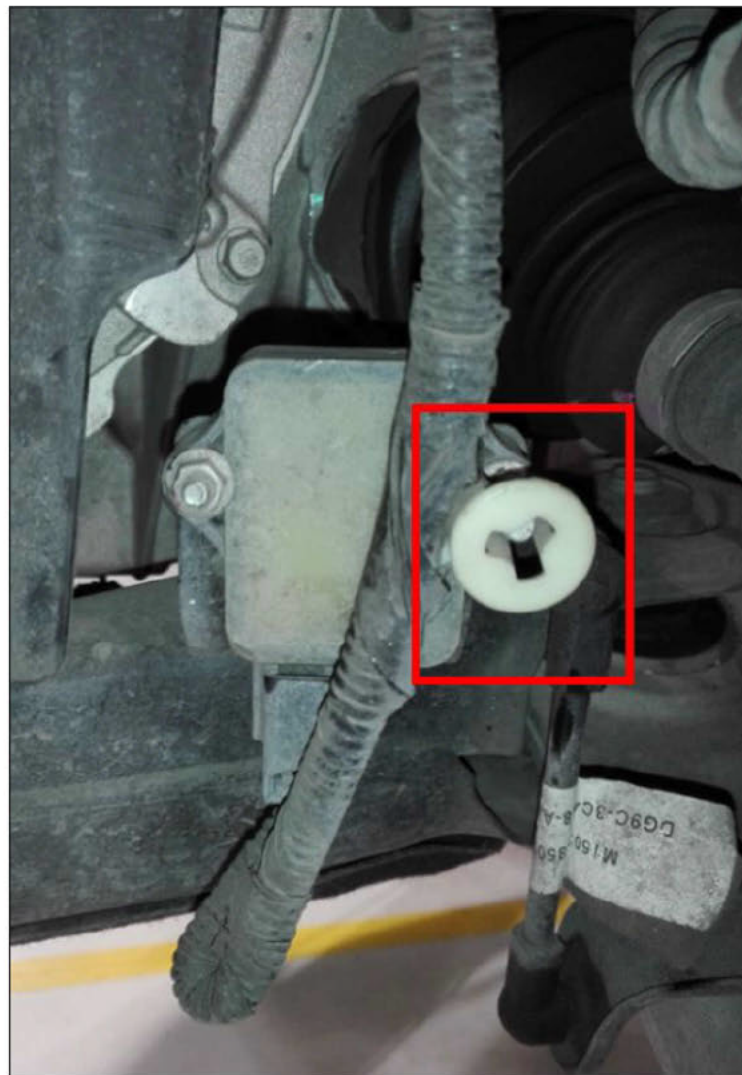
#### Modification

**NOTE:** *Modification steps in this procedure may contain installation details.*

**NOTE:** *The RH and LH height sensor assemblies **cannot** be used on opposite sides of the vehicle.*

1. With the vehicle in NEUTRAL, position it on a hoist.  
*Refer to "[Jacking and Lifting - Overview](#)" (100-02 Jacking and Lifting, Description and Operation).*
2. **NOTE:** *For LH turn steering full left, For RH turn steering full right.*

- Remove wire white clip from the front ride height sensor bolt.



- Cut wire tape.



- Remove front ride height sensor fasteners, locate these in a safe position and proceed with the front fender splash shield modification. [Refer to Front Fender Splash Shield - Modification](#)



## Front Suspension Height Sensor

- Disconnect the front suspension height sensor electrical connector.
- Install longest bolt in the left side hole of the ride height sensor.

*Torque: 9 Nm*



- Install shortest bolt in the right side hole of the ride height sensor.

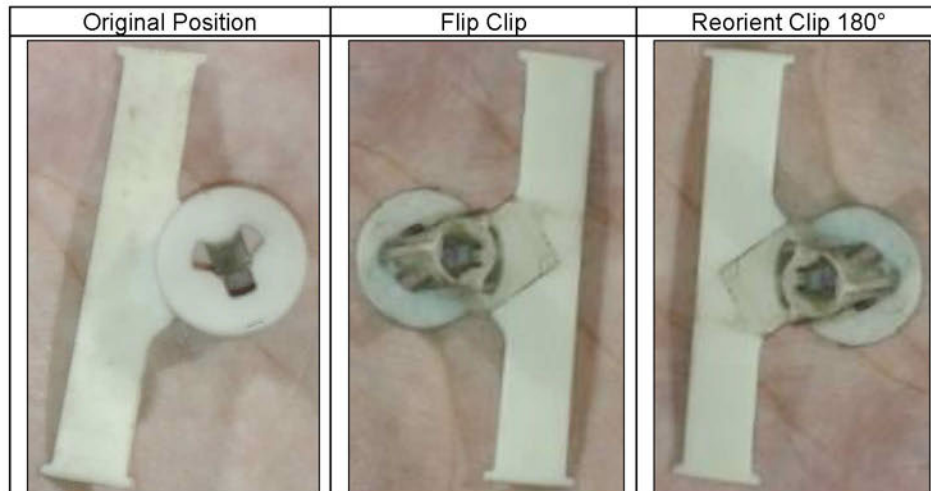
*Torque: 9 Nm*



- Remove tape and white clip.



- Connect the front suspension height sensor electrical connector, flip and reorient white clip 180°.



- Attach white clip to harness with tape in the same spot and install it in the longest bolt.



- Secure harness loop with tape.



3. Calibrate the suspension height sensor. Connect the scan tool and carry out the Ride Height Calibration routine. Follow the scan tool directions.

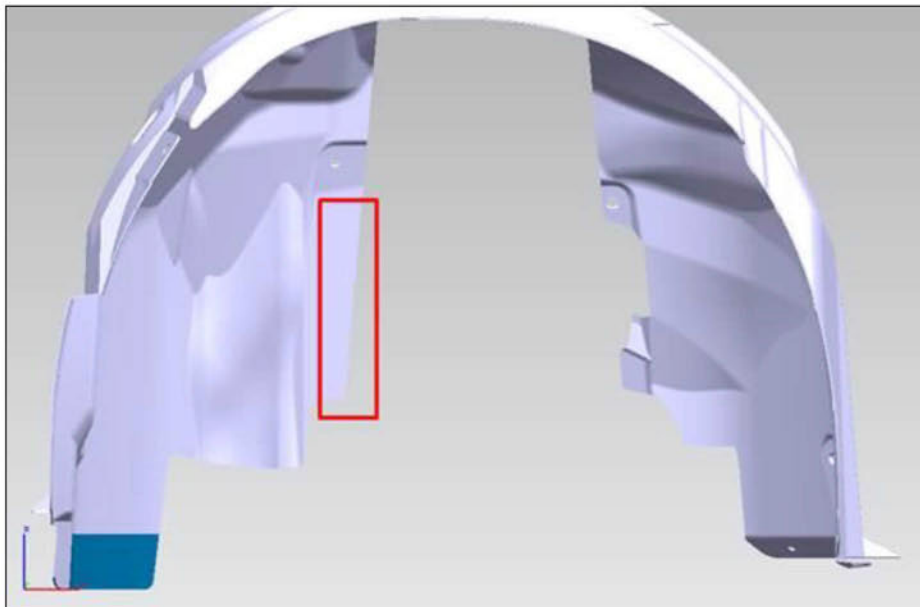
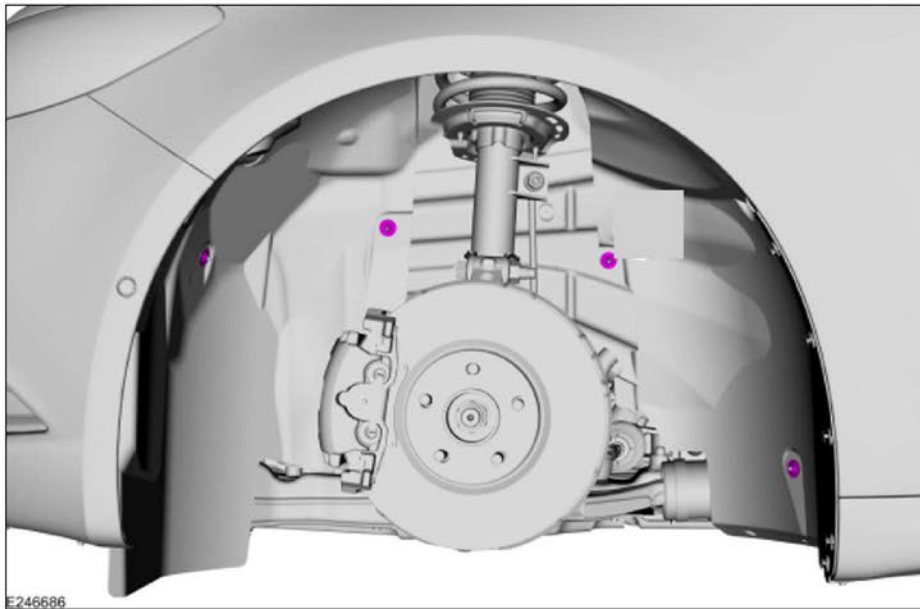
## Front Fender Splash Shield

### 3. - Front Fender Splash Shield

#### Modification

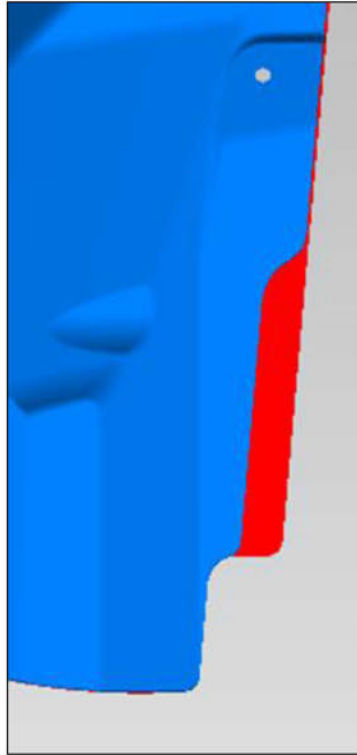
NOTE: LH (left-hand) shown, RH (right-hand) similar.

1. Remove the wheel and tire.  
Refer to: Wheel and Tire (204-04A Wheels and Tires, Removal and Installation).
2. Locate zone to modify.

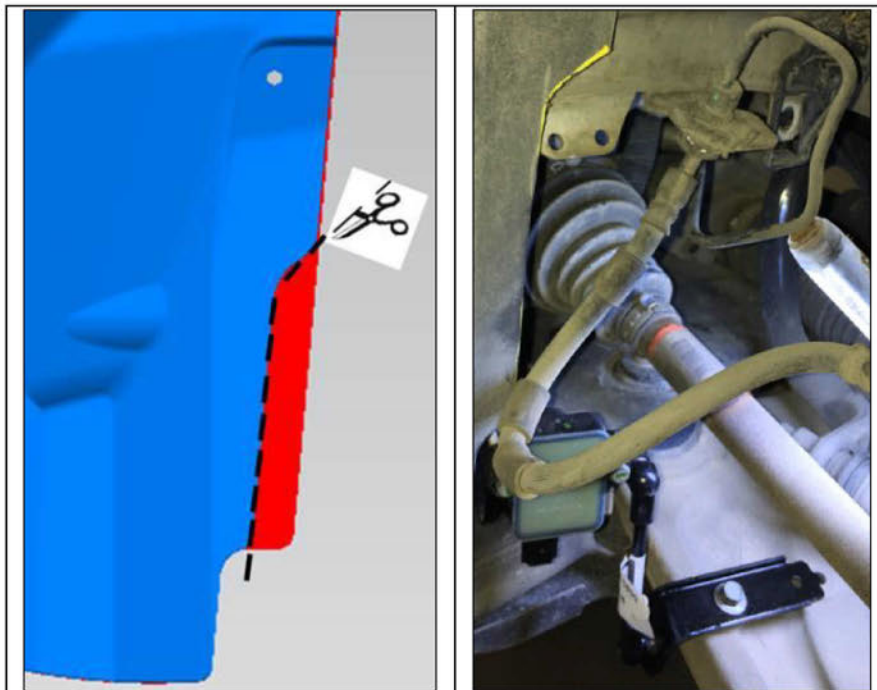


## Front Fender Splash Shield

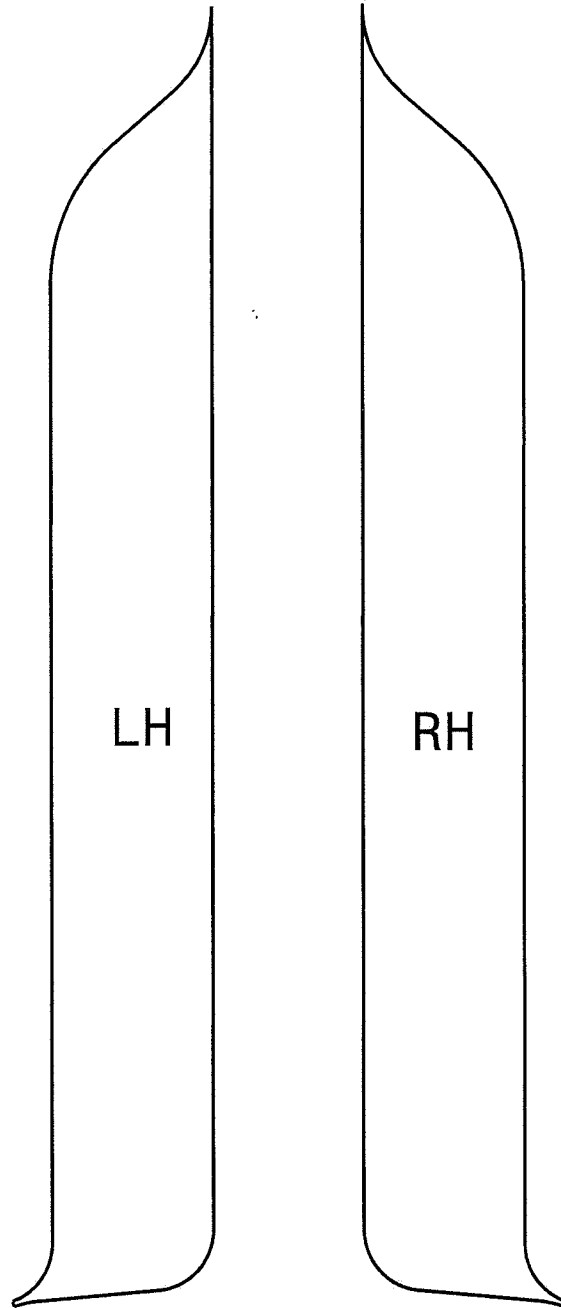
3. Do not remove front fender splash shields to perform the update. Print attached templates, cut right hand and left hand template shown in red and paste these on the respective front fender splash shield.



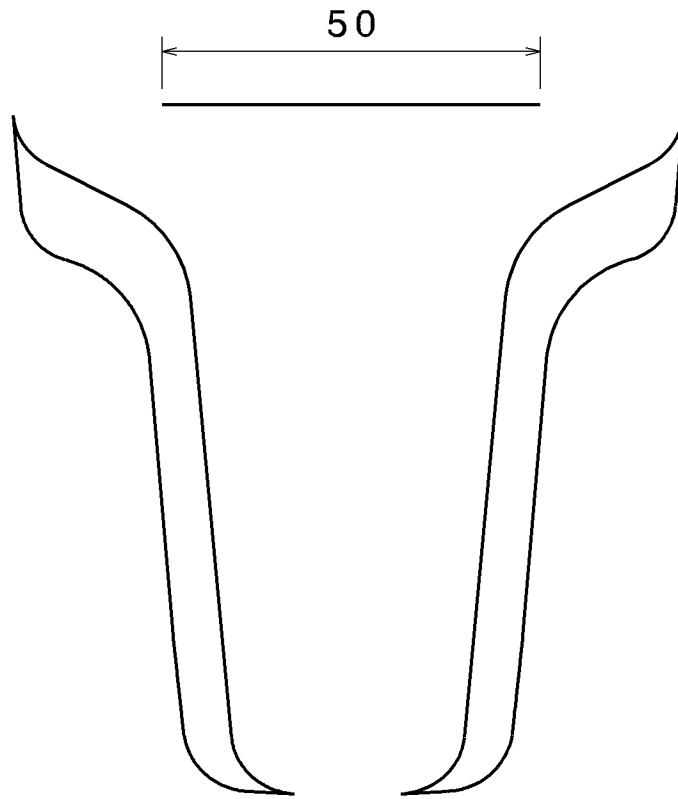
4. Cut geometry with industrial metal cutting scissors and remove burrs or any sharp points from new edge.



• Front Fender Splash Shield Templates



Fusion/Mondeo



MKZ

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**From:** Elwell, Thomas (T. J.)  
**Sent:** Thursday, May 20, 2021 3:26 PM  
**To:** Britton, Eric (E.J.)  
**Subject:** Fusion Hose Stack by PN Causal and Assy Plant.xlsm  
**Attachments:** Fusion Hose Stack by PN Causal and Assy Plant.xlsm

Stack Report Completed

**View** Data Tbl Print

## Options Panel

**TIS Matrices** **Charts**

Stack ▾

Reset Save All

**Chart Print/Save Mode**

Full Report

Chart Only

**Year(s)**

All 2017 2016 2015 2014 2013

**Statistics**

R/1000

**Logic**

Corporate

All Rows

Selected Rows

No Rows View Checked

**Report Specific Selections**

Common Scale

**TIS**

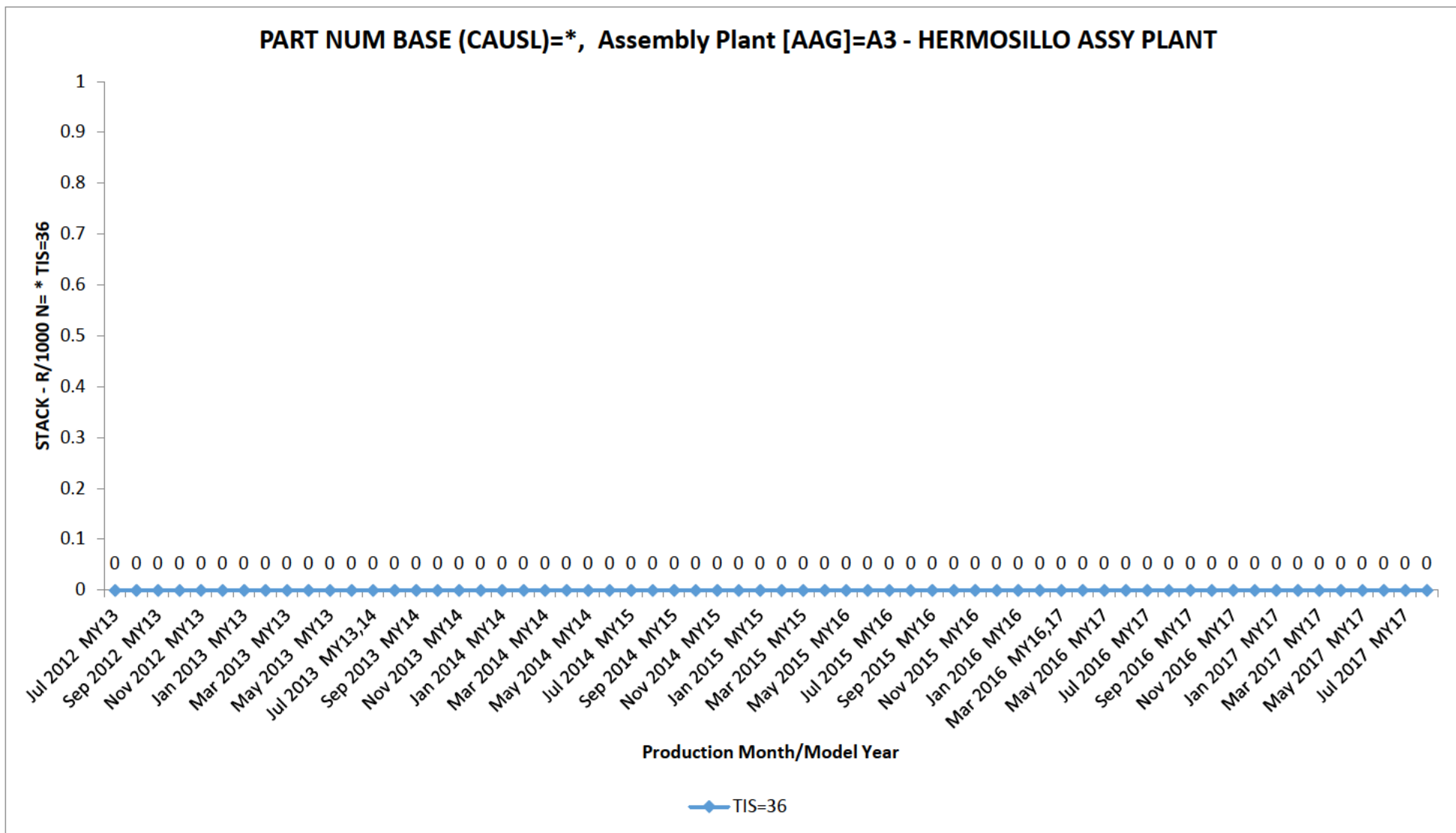
35 36 37 38 39



Model Year = 2017,2016,2015,2014,2013  
Order By = Num Base (Causal),Assembly Plant [AAG]  
TIS Rows Selected = All  
YTD Column Only = No  
Minimum Divisor = 1  
Logic = Corp  
Cost Type = Total Cost Gross  
Descriptions = Yes

### Stack Chart

Print Date: 20 May 2021    Logic: Corporate    Cutoff Date: 30 Apr 2021    Request Name: FUSION BRAKE HOSE TIS BY ASSY PLANT & CAUSAL  
PrintTime: 15:16    TIS: ALL    Min Divisor: 100    Result ID: 49510941  
Statistic: R/1000    Y Value(s): \* @ TIS=36  
Model Years: 2017,2016,2015,2014,2013  
Uniques PART NUM BASE (CAUSL)=\*, Assembly Plant [AAG]=A3 - HERMOSILLO ASSY PLANT

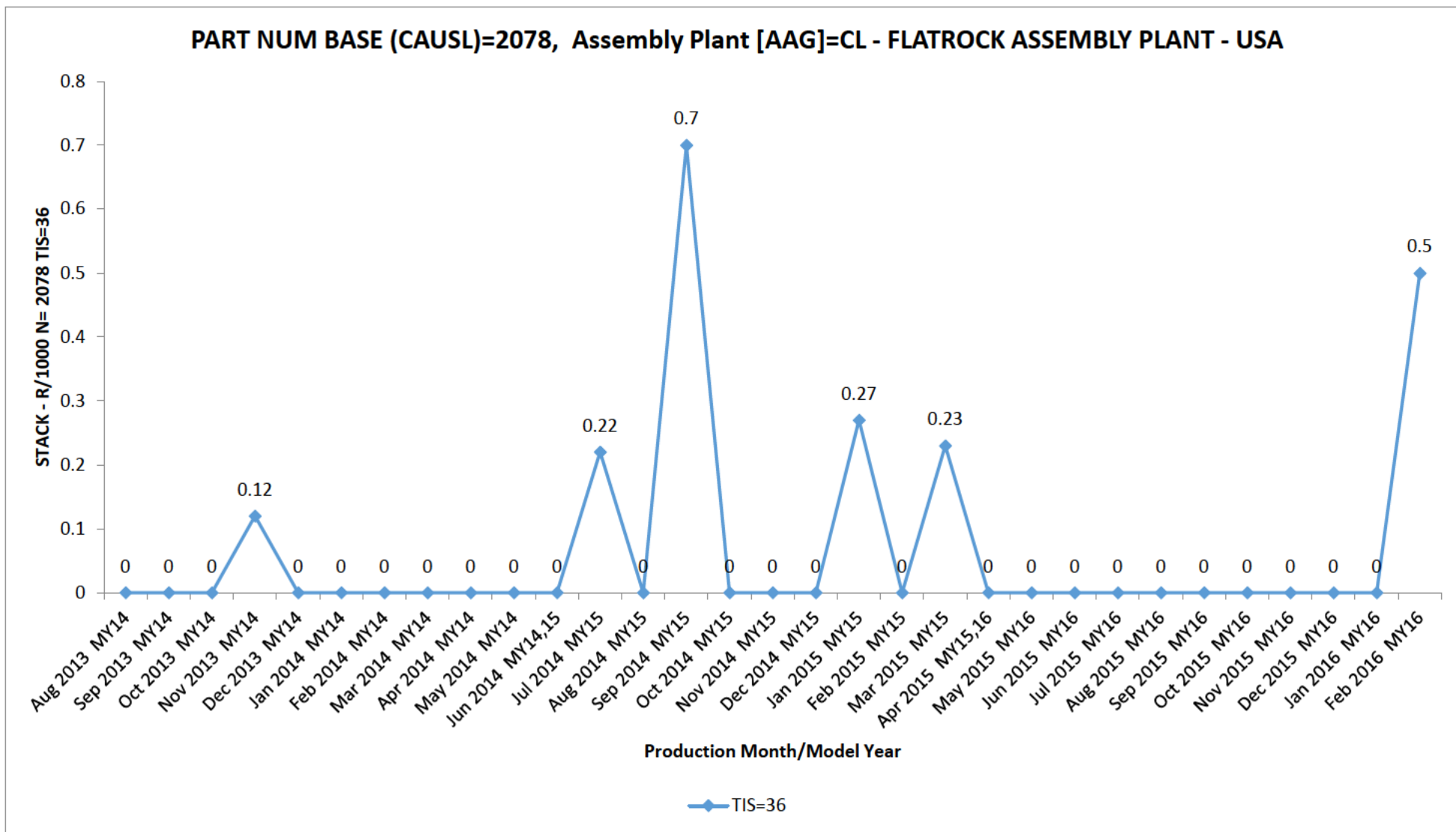


<u>Mode</u>	<u>I Year</u>	<u>MOP</u>	<u>TIS=36</u>
	13	7/1/2012	0
	13	8/1/2012	0
	13	9/1/2012	0
	13	10/1/2012	0
	13	11/1/2012	0
	13	12/1/2012	0
	13	1/1/2013	0
	13	2/1/2013	0
	13	3/1/2013	0
	13	4/1/2013	0
	13	5/1/2013	0
	13,14	6/1/2013	0
	13,14	7/1/2013	0
	14	8/1/2013	0
	14	9/1/2013	0
	14	10/1/2013	0
	14	11/1/2013	0
	14	12/1/2013	0
	14	1/1/2014	0
	14	2/1/2014	0
	14	3/1/2014	0
	14	4/1/2014	0
	14	5/1/2014	0
	14	6/1/2014	0
	15	7/1/2014	0
	15	8/1/2014	0
	15	9/1/2014	0
	15	10/1/2014	0
	15	11/1/2014	0
	15	12/1/2014	0
	15	1/1/2015	0
	15	2/1/2015	0
	15	3/1/2015	0
	15,16	4/1/2015	0
	16	5/1/2015	0
	16	6/1/2015	0
	16	7/1/2015	0
	16	8/1/2015	0
	16	9/1/2015	0

16	10/1/2015	0
16	11/1/2015	0
16	12/1/2015	0
16	1/1/2016	0
16	2/1/2016	0
16,17	3/1/2016	0
16,17	4/1/2016	0
17	5/1/2016	0
17	6/1/2016	0
17	7/1/2016	0
17	8/1/2016	0
17	9/1/2016	0
17	10/1/2016	0
17	11/1/2016	0
17	12/1/2016	0
17	1/1/2017	0
17	2/1/2017	0
17	3/1/2017	0
17	4/1/2017	0
17	5/1/2017	0
17	6/1/2017	0
17	7/1/2017	0
17	8/1/2017	0

### Stack Chart

Print Date: 20 May 2021    Logic: Corporate    Cutoff Date: 30 Apr 2021    Request Name: FUSION BRAKE HOSE TIS BY ASSY PLANT & CAUSAL  
PrintTime: 15:16    TIS: ALL    Min Divisor: 100    Result ID: 49510941  
Statistic: R/1000    Y Value(s): 2078 @ TIS=36  
Model Years: 2017,2016,2015,2014,2013  
Uniques PART NUM BASE (CAUSL)=2078, Assembly Plant [AAG]=CL - FLATROCK ASSEMBLY PLANT



<u>Model</u>	<u>MOP</u>	<u>TIS=36</u>
14	8/1/2013	0
14	9/1/2013	0
14	10/1/2013	0
14	11/1/2013	0.12
14	12/1/2013	0
14	1/1/2014	0
14	2/1/2014	0
14	3/1/2014	0
14	4/1/2014	0
14	5/1/2014	0
14,15	6/1/2014	0
15	7/1/2014	0.22
15	8/1/2014	0
15	9/1/2014	0.7
15	10/1/2014	0
15	11/1/2014	0
15	12/1/2014	0
15	1/1/2015	0.27
15	2/1/2015	0
15	3/1/2015	0.23
15,16	4/1/2015	0
16	5/1/2015	0
16	6/1/2015	0
16	7/1/2015	0
16	8/1/2015	0
16	9/1/2015	0
16	10/1/2015	0
16	11/1/2015	0
16	12/1/2015	0
16	1/1/2016	0
16	2/1/2016	0.5

---

**From:** Elwell, Thomas (T. J.)  
**Sent:** Thursday, May 20, 2021 3:05 PM  
**To:** Britton, Eric (E.J.)  
**Subject:** Fusion Hose Stack by PN Causal.xlsm  
**Attachments:** Fusion Hose Stack by PN Causal.xlsm

Stack Report Completed

**View** Data Tbl Print

## Options Panel

TIS Matrices **Charts**

Stack ▾

Reset Save All

**Chart Print/Save Mode**

Full Report

Chart Only

**Year(s)**

All  
2017  
2016  
2015  
2014  
2013

**Statistics**

R/1000 ▾

**Topic**

Corporate ▾

All Rows

Selected Rows

No Rows View Checked

**Report Specific Selections**

Common Scale



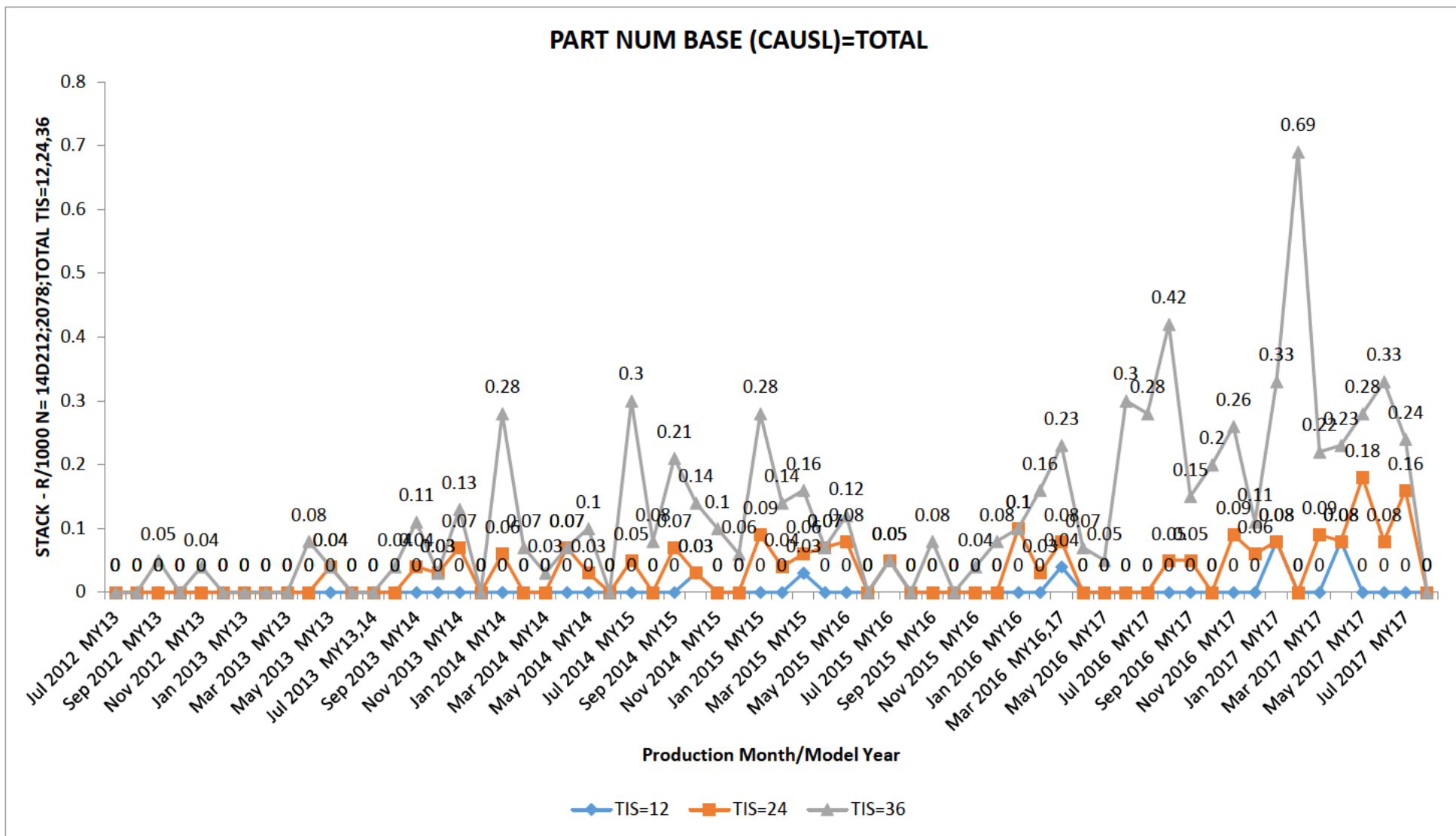
Model Year = 2017,2016,2015,2014,2013  
Order By = Part Num Base (Causal)  
TIS Rows Selected = All  
YTD Column Only = No  
Minimum Divisor = 1  
Logic = Corp  
Cost Type = Total Cost Gross

Descriptions = Yes

### Stack Chart

Print Date: 19 May 2021    Logic: Corporate  
 PrintTime: 15:18    TIS: ALL  
 Statistic: R/1000  
 Model Years: 2017,2016,2015,2014,2013  
 Uniques PART NUM BASE (CAUSL)=TOTAL

Cutoff Date: 30 Apr 2021    Request Name: FUSION BRAKE HOSE TIS  
 Min Divisor: 100    Result ID: 49510938  
 Y Value(s): 14D212;2078;TOTAL @ TIS=12,24,36



Model Year	MOP	TIS=12	TIS=24	TIS=36
13	7/1/2012	0	0	0
13	8/1/2012	0	0	0
13	9/1/2012	0	0	0.05
13	10/1/2012	0	0	0
13	11/1/2012	0	0	0.04
13	12/1/2012	0	0	0
13	1/1/2013	0	0	0
13	2/1/2013	0	0	0
13	3/1/2013	0	0	0
13	4/1/2013	0	0	0.08
13	5/1/2013	0	0.04	0.04
13,14	6/1/2013	0	0	0
13,14	7/1/2013	0	0	0
14	8/1/2013	0	0	0.04
14	9/1/2013	0	0.04	0.11
14	10/1/2013	0	0.03	0.03
14	11/1/2013	0	0.07	0.13
14	12/1/2013	0	0	0
14	1/1/2014	0	0.06	0.28
14	2/1/2014	0	0	0.07
14	3/1/2014	0	0	0.03
14	4/1/2014	0	0.07	0.07
14	5/1/2014	0	0.03	0.1
14,15	6/1/2014	0	0	0
15	7/1/2014	0	0.05	0.3
15	8/1/2014	0	0	0.08
15	9/1/2014	0	0.07	0.21
15	10/1/2014	0.03	0.03	0.14
15	11/1/2014	0	0	0.1
15	12/1/2014	0	0	0.06
15	1/1/2015	0	0.09	0.28
15	2/1/2015	0	0.04	0.14
15	3/1/2015	0.03	0.06	0.16
15,16	4/1/2015	0	0.07	0.07
16	5/1/2015	0	0.08	0.12
16	6/1/2015	0	0	0
16	7/1/2015	0.05	0.05	0.05
16	8/1/2015	0	0	0
16	9/1/2015	0	0	0.08
16	10/1/2015	0	0	0
16	11/1/2015	0	0	0.04

16	12/1/2015	0	0	0.08
16	1/1/2016	0	0.1	0.1
16	2/1/2016	0	0.03	0.16
16,17	3/1/2016	0.04	0.08	0.23
16,17	4/1/2016	0	0	0.07
17	5/1/2016	0	0	0.05
17	6/1/2016	0	0	0.3
17	7/1/2016	0	0	0.28
17	8/1/2016	0	0.05	0.42
17	9/1/2016	0	0.05	0.15
17	10/1/2016	0	0	0.2
17	11/1/2016	0	0.09	0.26
17	12/1/2016	0	0.06	0.11
17	1/1/2017	0.08	0.08	0.33
17	2/1/2017	0	0	0.69
17	3/1/2017	0	0.09	0.22
17	4/1/2017	0.08	0.08	0.23
17	5/1/2017	0	0.18	0.28
17	6/1/2017	0	0.08	0.33
17	7/1/2017	0	0.16	0.24
17	8/1/2017	0	0	0

Report Information Status=Finished Request Number=Descriptor Run Date And Completion Date Job Size=2 Execution  
 Data Selection (Model Year = MY\_ Claim Key Vehicle Line AWS = FUSION[DE],  
 Report Selector Report Name = TIS Destination CSV Name Model Year = Order By = Pa TIS Rows YTD Column  
 Minimum Divisor Selected:100

MATRIX_NO	PROD_MONTH	TIS	R1000	REPAIRS	VEHICLES	COSTS	CPU
3	7/1/2012	12	0	0	168	0	0
3	7/1/2012	24	0	0	168	0	0
3	7/1/2012	36	0	0	168	0	0
3	8/1/2012	12	0	0	4892	0	0
3	8/1/2012	24	0	0	4892	0	0
3	8/1/2012	36	0	0	4892	0	0
3	9/1/2012	12	0	0	21936	0	0
3	9/1/2012	24	0	0	21936	0	0
3	9/1/2012	36	0.05	1	21936	752.57	0.03
3	10/1/2012	12	0	0	26668	0	0
3	10/1/2012	24	0	0	26668	0	0
3	10/1/2012	36	0	0	26668	0	0
3	11/1/2012	12	0	0	24978	0	0
3	11/1/2012	24	0	0	24978	0	0
3	11/1/2012	36	0.04	1	24978	89.46	0
3	12/1/2012	12	0	0	17385	0	0
3	12/1/2012	24	0	0	17385	0	0
3	12/1/2012	36	0	0	17385	0	0
3	1/1/2013	12	0	0	22367	0	0
3	1/1/2013	24	0	0	22367	0	0
3	1/1/2013	36	0	0	22367	0	0
3	2/1/2013	12	0	0	21703	0	0
3	2/1/2013	24	0	0	21703	0	0
3	2/1/2013	36	0	0	21703	126.42	0.01
3	3/1/2013	12	0	0	22048	0	0
3	3/1/2013	24	0	0	22048	0	0
3	3/1/2013	36	0	0	22048	0	0
3	4/1/2013	12	0	0	24362	0	0
3	4/1/2013	24	0	0	24362	33	0
3	4/1/2013	36	0.08	2	24362	794.12	0.03
3	5/1/2013	12	0	0	27511	0	0
3	5/1/2013	24	0.04	1	27511	147.39	0.01
3	5/1/2013	36	0.04	1	27511	147.39	0.01
3	6/1/2013	12	0	0	23107	0	0
3	6/1/2013	24	0	0	23107	0	0
3	6/1/2013	36	0	0	23107	115.14	0
3	7/1/2013	12	0	0	11291	0	0
3	7/1/2013	24	0	0	11291	0	0
3	7/1/2013	36	0	0	11291	376.85	0.03
8	6/1/2013	12	0	0	185	0	0
8	6/1/2013	24	0	0	185	0	0
8	6/1/2013	36	0	0	185	0	0
8	7/1/2013	12	0	0	10711	0	0
8	7/1/2013	24	0	0	10711	0	0
8	7/1/2013	36	0	0	10711	1396.67	0.13
8	8/1/2013	12	0	0	27380	0	0
8	8/1/2013	24	0	0	27380	0	0
8	8/1/2013	36	0.04	1	27380	115	0
8	9/1/2013	12	0	0	28308	0	0

8	9/1/2013	24	0.04	1	28308	200.24	0.01
8	9/1/2013	36	0.11	3	28308	578.69	0.02
8	10/1/2013	12	0	0	35655	0	0
8	10/1/2013	24	0.03	1	35655	256.49	0.01
8	10/1/2013	36	0.03	1	35655	256.49	0.01
8	11/1/2013	12	0	0	30260	0	0
8	11/1/2013	24	0.07	2	30260	319.35	0.01
8	11/1/2013	36	0.13	4	30258	599.64	0.02
8	12/1/2013	12	0	0	21047	0	0
8	12/1/2013	24	0	0	21047	0	0
8	12/1/2013	36	0	0	21047	0	0
8	1/1/2014	12	0	0	17562	0	0
8	1/1/2014	24	0.06	1	17562	121.05	0.01
8	1/1/2014	36	0.28	5	17562	915.97	0.05
8	2/1/2014	12	0	0	30474	0	0
8	2/1/2014	24	0	0	30474	0	0
8	2/1/2014	36	0.07	2	30474	216.84	0.01
8	3/1/2014	12	0	0	30668	0	0
8	3/1/2014	24	0	0	30668	0	0
8	3/1/2014	36	0.03	1	30667	262.26	0.01
8	4/1/2014	12	0	0	13869	0	0
8	4/1/2014	24	0.07	1	13869	91.3	0.01
8	4/1/2014	36	0.07	1	13868	91.3	0.01
8	5/1/2014	12	0	0	30943	0	0
8	5/1/2014	24	0.03	1	30942	84.74	0
8	5/1/2014	36	0.1	3	30942	377.73	0.01
8	6/1/2014	12	0	0	26534	0	0
8	6/1/2014	24	0	0	26534	0	0
8	6/1/2014	36	0	0	26534	0	0
13	6/1/2014	12	0	0	761	0	0
13	6/1/2014	24	0	0	761	0	0
13	6/1/2014	36	0	0	761	0	0
13	7/1/2014	12	0	0	20087	0	0
13	7/1/2014	24	0.05	1	20086	54.46	0
13	7/1/2014	36	0.3	6	20084	897.9	0.04
13	8/1/2014	12	0	0	26077	0	0
13	8/1/2014	24	0	0	26076	0	0
13	8/1/2014	36	0.08	2	26074	230.78	0.01
13	9/1/2014	12	0	0	14579	0	0
13	9/1/2014	24	0.07	1	14578	247.9	0.02
13	9/1/2014	36	0.21	3	14577	698.4	0.05
13	10/1/2014	12	0.03	1	29267	58.5	0
13	10/1/2014	24	0.03	1	29266	58.5	0
13	10/1/2014	36	0.14	4	29262	521.88	0.02
13	11/1/2014	12	0	0	20464	0	0
13	11/1/2014	24	0	0	20462	0	0
13	11/1/2014	36	0.1	2	20459	161.82	0.01
13	12/1/2014	12	0	0	15893	0	0
13	12/1/2014	24	0	0	15892	0	0
13	12/1/2014	36	0.06	1	15891	157.3	0.01
13	1/1/2015	12	0	0	21580	0	0
13	1/1/2015	24	0.09	2	21580	269.3	0.01
13	1/1/2015	36	0.28	6	21579	910.01	0.04
13	2/1/2015	12	0	0	27754	0	0

13	2/1/2015	24	0.04	1	27754	193.99	0.01
13	2/1/2015	36	0.14	4	27752	671.91	0.02
13	3/1/2015	12	0.03	1	31206	186.97	0.01
13	3/1/2015	24	0.06	2	31204	320.09	0.01
13	3/1/2015	36	0.16	5	31198	822.63	0.03
13	4/1/2015	12	0	0	3019	0	0
13	4/1/2015	24	0	0	3019	0	0
13	4/1/2015	36	0	0	3019	0	0
17	4/1/2015	12	0	0	24342	0	0
17	4/1/2015	24	0.08	2	24342	196.67	0.01
17	4/1/2015	36	0.08	2	24340	196.67	0.01
17	5/1/2015	12	0	0	25401	0	0
17	5/1/2015	24	0.08	2	25400	220.25	0.01
17	5/1/2015	36	0.12	3	25399	303.32	0.01
17	6/1/2015	12	0	0	26813	0	0
17	6/1/2015	24	0	0	26813	0	0
17	6/1/2015	36	0	0	26810	0	0
17	7/1/2015	12	0.05	1	18188	88.14	0
17	7/1/2015	24	0.05	1	18187	88.14	0
17	7/1/2015	36	0.05	1	18179	88.14	0
17	8/1/2015	12	0	0	20885	0	0
17	8/1/2015	24	0	0	20883	0	0
17	8/1/2015	36	0	0	20874	0	0
17	9/1/2015	12	0	0	24034	0	0
17	9/1/2015	24	0	0	24032	0	0
17	9/1/2015	36	0.08	2	24028	214.87	0.01
17	10/1/2015	12	0	0	27014	0	0
17	10/1/2015	24	0	0	27013	0	0
17	10/1/2015	36	0	0	27000	0	0
17	11/1/2015	12	0	0	22899	0	0
17	11/1/2015	24	0	0	22897	0	0
17	11/1/2015	36	0.04	1	22882	140.79	0.01
17	12/1/2015	12	0	0	24524	0	0
17	12/1/2015	24	0	0	24523	0	0
17	12/1/2015	36	0.08	2	24508	453.41	0.02
17	1/1/2016	12	0	0	29763	0	0
17	1/1/2016	24	0.1	3	29760	441.2	0.01
17	1/1/2016	36	0.1	3	29739	505.31	0.02
17	2/1/2016	12	0	0	31721	0	0
17	2/1/2016	24	0.03	1	31720	82.26	0
17	2/1/2016	36	0.16	5	31696	624.25	0.02
17	3/1/2016	12	0.04	1	26113	231.7	0.01
17	3/1/2016	24	0.08	2	26110	442.3	0.02
17	3/1/2016	36	0.23	6	26076	1172.47	0.04
17	4/1/2016	12	0	0	2744	0	0
17	4/1/2016	24	0	0	2744	0	0
17	4/1/2016	36	0	0	2742	0	0
21	3/1/2016	12	0	0	165	0	0
21	3/1/2016	24	0	0	164	0	0
21	3/1/2016	36	0	0	149	0	0
21	4/1/2016	12	0	0	11202	0	0
21	4/1/2016	24	0	0	11201	0	0
21	4/1/2016	36	0.09	1	11174	215.65	0.02
21	5/1/2016	12	0	0	18637	0	0

21	5/1/2016	24	0	0	18627	0	0
21	5/1/2016	36	0.05	1	18567	300.44	0.02
21	6/1/2016	12	0	0	20284	0	0
21	6/1/2016	24	0	0	20270	32.91	0
21	6/1/2016	36	0.3	6	20173	956.21	0.05
21	7/1/2016	12	0	0	18136	0	0
21	7/1/2016	24	0	0	18127	0	0
21	7/1/2016	36	0.28	5	17989	750.3	0.04
21	8/1/2016	12	0	0	19159	0	0
21	8/1/2016	24	0.05	1	19148	158.61	0.01
21	8/1/2016	36	0.42	8	19002	1223.12	0.06
21	9/1/2016	12	0	0	19590	0	0
21	9/1/2016	24	0.05	1	19579	121.13	0.01
21	9/1/2016	36	0.15	3	19400	635.67	0.03
21	10/1/2016	12	0	0	10215	0	0
21	10/1/2016	24	0	0	10208	0	0
21	10/1/2016	36	0.2	2	10125	367.32	0.04
21	11/1/2016	12	0	0	11448	0	0
21	11/1/2016	24	0.09	1	11442	113.39	0.01
21	11/1/2016	36	0.26	3	11313	390.37	0.03
21	12/1/2016	12	0	0	17579	0	0
21	12/1/2016	24	0.06	1	17562	169.82	0.01
21	12/1/2016	36	0.11	2	17335	376.35	0.02
21	1/1/2017	12	0.08	1	12079	42	0
21	1/1/2017	24	0.08	1	12062	42	0
21	1/1/2017	36	0.33	4	11857	559.38	0.05
21	2/1/2017	12	0	0	7311	0	0
21	2/1/2017	24	0	0	7305	0	0
21	2/1/2017	36	0.69	5	7188	1046.61	0.14
21	3/1/2017	12	0	0	22777	0	0
21	3/1/2017	24	0.09	2	22753	391.8	0.02
21	3/1/2017	36	0.22	5	22373	1027.76	0.05
21	4/1/2017	12	0.08	1	13326	378.11	0.03
21	4/1/2017	24	0.08	1	13319	378.11	0.03
21	4/1/2017	36	0.23	3	13167	659.08	0.05
21	5/1/2017	12	0	0	10840	0	0
21	5/1/2017	24	0.18	2	10824	325.03	0.03
21	5/1/2017	36	0.28	3	10630	639.11	0.06
21	6/1/2017	12	0	0	12001	0	0
21	6/1/2017	24	0.08	1	11998	89.05	0.01
21	6/1/2017	36	0.33	4	11782	861.05	0.07
21	7/1/2017	12	0	0	12757	0	0
21	7/1/2017	24	0.16	2	12744	308.56	0.02
21	7/1/2017	36	0.24	3	12479	577.01	0.05
21	8/1/2017	12	0	0	1808	0	0
21	8/1/2017	24	0	0	1807	0	0
21	8/1/2017	36	0	0	1772	0	0

Precalc Pr: Cut Off Date=30 / Load Date=18 May 2021

Currency E Generated By=TELWELL3

Minimum I Logic = Corp

Cost Type = Total Cost Gross

Use Group Currency = Distance = Description

CPR	MODEL YEAR	PART NUM BASE (CAUSL)	LOGIC
0	2013	TOTAL	Corporate
0	2013	TOTAL	Corporate
0	2013	TOTAL	Corporate
0	2013	TOTAL	Corporate
0	2013	TOTAL	Corporate
0	2013	TOTAL	Corporate
0	2013	TOTAL	Corporate
0	2013	TOTAL	Corporate
752.57	2013	TOTAL	Corporate
0	2013	TOTAL	Corporate
0	2013	TOTAL	Corporate
0	2013	TOTAL	Corporate
0	2013	TOTAL	Corporate
0	2013	TOTAL	Corporate
89.46	2013	TOTAL	Corporate
0	2013	TOTAL	Corporate
0	2013	TOTAL	Corporate
0	2013	TOTAL	Corporate
0	2013	TOTAL	Corporate
0	2013	TOTAL	Corporate
0	2013	TOTAL	Corporate
0	2013	TOTAL	Corporate
126.42	2013	TOTAL	Corporate
0	2013	TOTAL	Corporate
0	2013	TOTAL	Corporate
0	2013	TOTAL	Corporate
0	2013	TOTAL	Corporate
33	2013	TOTAL	Corporate
397.06	2013	TOTAL	Corporate
0	2013	TOTAL	Corporate
147.39	2013	TOTAL	Corporate
147.39	2013	TOTAL	Corporate
0	2013	TOTAL	Corporate
0	2013	TOTAL	Corporate
115.14	2013	TOTAL	Corporate
0	2013	TOTAL	Corporate
0	2013	TOTAL	Corporate
376.85	2013	TOTAL	Corporate
0	2014	TOTAL	Corporate
0	2014	TOTAL	Corporate
0	2014	TOTAL	Corporate
0	2014	TOTAL	Corporate
0	2014	TOTAL	Corporate
1396.67	2014	TOTAL	Corporate
0	2014	TOTAL	Corporate
0	2014	TOTAL	Corporate
115	2014	TOTAL	Corporate
0	2014	TOTAL	Corporate

200.24	2014 TOTAL	Corporate
192.9	2014 TOTAL	Corporate
0	2014 TOTAL	Corporate
256.49	2014 TOTAL	Corporate
256.49	2014 TOTAL	Corporate
0	2014 TOTAL	Corporate
159.68	2014 TOTAL	Corporate
149.91	2014 TOTAL	Corporate
0	2014 TOTAL	Corporate
0	2014 TOTAL	Corporate
0	2014 TOTAL	Corporate
0	2014 TOTAL	Corporate
121.05	2014 TOTAL	Corporate
183.19	2014 TOTAL	Corporate
0	2014 TOTAL	Corporate
0	2014 TOTAL	Corporate
108.42	2014 TOTAL	Corporate
0	2014 TOTAL	Corporate
0	2014 TOTAL	Corporate
262.26	2014 TOTAL	Corporate
0	2014 TOTAL	Corporate
91.3	2014 TOTAL	Corporate
91.3	2014 TOTAL	Corporate
0	2014 TOTAL	Corporate
84.74	2014 TOTAL	Corporate
125.91	2014 TOTAL	Corporate
0	2014 TOTAL	Corporate
0	2014 TOTAL	Corporate
0	2014 TOTAL	Corporate
0	2015 TOTAL	Corporate
0	2015 TOTAL	Corporate
0	2015 TOTAL	Corporate
0	2015 TOTAL	Corporate
54.46	2015 TOTAL	Corporate
149.65	2015 TOTAL	Corporate
0	2015 TOTAL	Corporate
0	2015 TOTAL	Corporate
115.39	2015 TOTAL	Corporate
0	2015 TOTAL	Corporate
247.9	2015 TOTAL	Corporate
232.8	2015 TOTAL	Corporate
58.5	2015 TOTAL	Corporate
58.5	2015 TOTAL	Corporate
130.47	2015 TOTAL	Corporate
0	2015 TOTAL	Corporate
0	2015 TOTAL	Corporate
80.91	2015 TOTAL	Corporate
0	2015 TOTAL	Corporate
0	2015 TOTAL	Corporate
157.3	2015 TOTAL	Corporate
0	2015 TOTAL	Corporate
134.65	2015 TOTAL	Corporate
151.67	2015 TOTAL	Corporate
0	2015 TOTAL	Corporate

193.99	2015 TOTAL	Corporate
167.98	2015 TOTAL	Corporate
186.97	2015 TOTAL	Corporate
160.05	2015 TOTAL	Corporate
164.53	2015 TOTAL	Corporate
0	2015 TOTAL	Corporate
0	2015 TOTAL	Corporate
0	2015 TOTAL	Corporate
0	2016 TOTAL	Corporate
98.34	2016 TOTAL	Corporate
98.34	2016 TOTAL	Corporate
0	2016 TOTAL	Corporate
110.13	2016 TOTAL	Corporate
101.11	2016 TOTAL	Corporate
0	2016 TOTAL	Corporate
0	2016 TOTAL	Corporate
0	2016 TOTAL	Corporate
88.14	2016 TOTAL	Corporate
88.14	2016 TOTAL	Corporate
88.14	2016 TOTAL	Corporate
0	2016 TOTAL	Corporate
0	2016 TOTAL	Corporate
0	2016 TOTAL	Corporate
0	2016 TOTAL	Corporate
0	2016 TOTAL	Corporate
107.44	2016 TOTAL	Corporate
0	2016 TOTAL	Corporate
0	2016 TOTAL	Corporate
0	2016 TOTAL	Corporate
0	2016 TOTAL	Corporate
0	2016 TOTAL	Corporate
0	2016 TOTAL	Corporate
140.79	2016 TOTAL	Corporate
0	2016 TOTAL	Corporate
0	2016 TOTAL	Corporate
226.71	2016 TOTAL	Corporate
0	2016 TOTAL	Corporate
147.07	2016 TOTAL	Corporate
168.44	2016 TOTAL	Corporate
0	2016 TOTAL	Corporate
82.26	2016 TOTAL	Corporate
124.85	2016 TOTAL	Corporate
231.7	2016 TOTAL	Corporate
221.15	2016 TOTAL	Corporate
195.41	2016 TOTAL	Corporate
0	2016 TOTAL	Corporate
0	2016 TOTAL	Corporate
0	2016 TOTAL	Corporate
0	2017 TOTAL	Corporate
0	2017 TOTAL	Corporate
0	2017 TOTAL	Corporate
0	2017 TOTAL	Corporate
0	2017 TOTAL	Corporate
215.65	2017 TOTAL	Corporate
0	2017 TOTAL	Corporate

0	2017 TOTAL	Corporate
300.44	2017 TOTAL	Corporate
0	2017 TOTAL	Corporate
32.91	2017 TOTAL	Corporate
159.37	2017 TOTAL	Corporate
0	2017 TOTAL	Corporate
0	2017 TOTAL	Corporate
150.06	2017 TOTAL	Corporate
0	2017 TOTAL	Corporate
158.61	2017 TOTAL	Corporate
152.89	2017 TOTAL	Corporate
0	2017 TOTAL	Corporate
121.13	2017 TOTAL	Corporate
211.89	2017 TOTAL	Corporate
0	2017 TOTAL	Corporate
0	2017 TOTAL	Corporate
183.66	2017 TOTAL	Corporate
0	2017 TOTAL	Corporate
113.39	2017 TOTAL	Corporate
130.12	2017 TOTAL	Corporate
0	2017 TOTAL	Corporate
169.82	2017 TOTAL	Corporate
188.18	2017 TOTAL	Corporate
42	2017 TOTAL	Corporate
42	2017 TOTAL	Corporate
139.85	2017 TOTAL	Corporate
0	2017 TOTAL	Corporate
0	2017 TOTAL	Corporate
209.32	2017 TOTAL	Corporate
0	2017 TOTAL	Corporate
195.9	2017 TOTAL	Corporate
205.55	2017 TOTAL	Corporate
378.11	2017 TOTAL	Corporate
378.11	2017 TOTAL	Corporate
219.69	2017 TOTAL	Corporate
0	2017 TOTAL	Corporate
162.52	2017 TOTAL	Corporate
213.04	2017 TOTAL	Corporate
0	2017 TOTAL	Corporate
89.05	2017 TOTAL	Corporate
215.26	2017 TOTAL	Corporate
0	2017 TOTAL	Corporate
154.28	2017 TOTAL	Corporate
192.34	2017 TOTAL	Corporate
0	2017 TOTAL	Corporate
0	2017 TOTAL	Corporate
0	2017 TOTAL	Corporate

IS = Yes

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**From:** Lemmer, Brian (B.M.)  
**Sent:** Wednesday, May 2, 2018 11:28 AM  
**To:** Mason, Mary (M.A.); Parrish, Will (W.F.)  
**Cc:** Lemmer, Brian (B.M.)  
**Subject:** RE: CCRG - MKX Brake Jounce Hose

**Follow Up Flag:** FollowUp  
**Flag Status:** Completed

**Categories:** CCM

Hi Mary,  
I've attached them.

Hi Will,  
F.Y.I.



Warranty  
C:\apb\sdex

CCRG - MKX Report  
C:\Janit\sdex

Thanks

Brian Lemmer

FOM Brake Supervisor

██████████ U.S. Cell

██████████ Mexico Cell

943-7700 internal

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**From:** Mason, Mary (M.A.)  
**Sent:** Tuesday, May 01, 2018 4:10 PM  
**To:** Lemmer, Brian (B.M.)  
**Subject:** CCRG - MKX Brake Jounce Hose

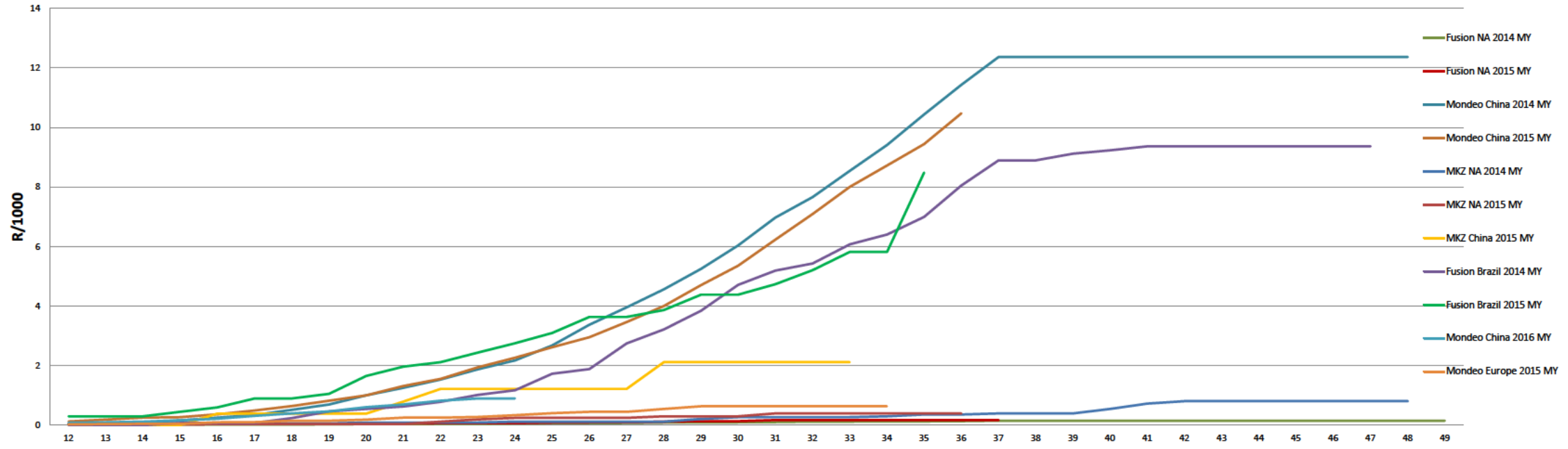
Hello Brian,  
Please forward the warranty stack charts that was reviewed in today's CCRG, including Fusion data.

Thank you.

Regards,

██████████  
Sr. Safety Engineer  
ASO Internal Investigations  
Phone: 313-805-6288  
Location: FPS, 5048  
██████████

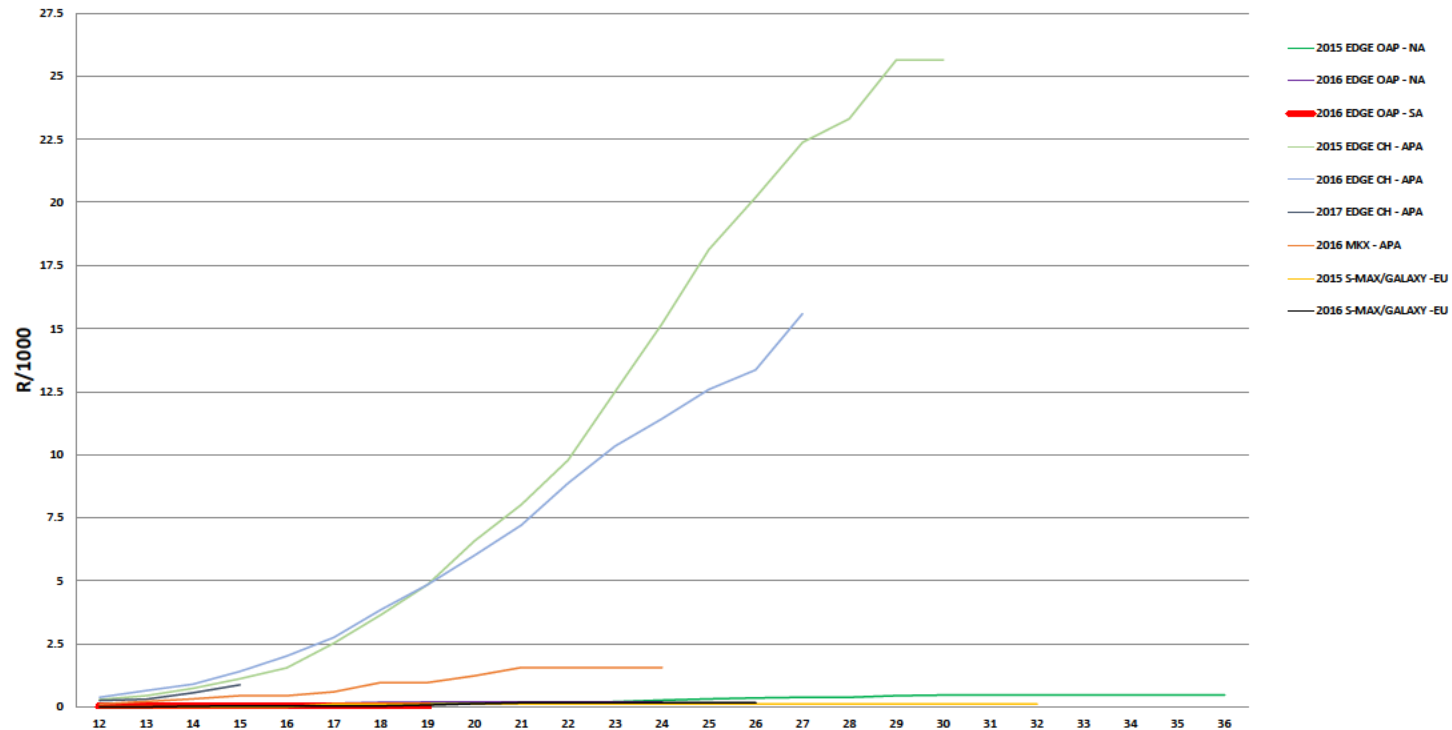
### Front Jounce Hoses



R/1000 FRONT JOUCE HOSES											
TIS	Fusion NA 2014 MY	Fusion NA 2015 MY	Mondeo China 2014 MY	Mondeo China 2015 MY	MKZ NA 2014 MY	MKZ NA 2015 MY	MKZ China 2015 MY	Fusion Brazil 2014 M	Fusion Brazil 2015 M	Mondeo China 2016 MY	Mondeo Europe 2015 MY
12	0.02	0.02	0.06	0.13	0.03	0.04	0	0	0.3	0.08	0.03
13	0.02	0.03	0.06	0.19	0.06	0.04	0	0	0.3	0.1	0.04
14	0.02	0.03	0.09	0.26	0.06	0.04	0	0	0.3	0.12	0.05
15	0.02	0.03	0.16	0.27	0.06	0.04	0	0.08	0.45	0.17	0.05
16	0.02	0.04	0.26	0.37	0.06	0.04	0.39	0.08	0.6	0.22	0.1
17	0.02	0.04	0.35	0.5	0.06	0.04	0.39	0.08	0.9	0.32	0.11
18	0.02	0.04	0.52	0.65	0.06	0.04	0.39	0.24	0.9	0.4	0.15
19	0.03	0.05	0.7	0.83	0.06	0.04	0.39	0.47	1.06	0.47	0.15
20	0.04	0.05	1.01	1.01	0.09	0.04	0.39	0.55	1.66	0.61	0.19
21	0.04	0.06	1.26	1.32	0.09	0.04	0.8	0.63	1.97	0.7	0.26
22	0.05	0.07	1.54	1.56	0.09	0.12	1.22	0.79	2.12	0.83	0.26
23	0.05	0.07	1.88	1.95	0.09	0.2	1.22	1.02	2.44	0.9	0.28
24	0.06	0.07	2.18	2.27	0.12	0.25	1.22	1.18	2.76	0.9	0.34
25	0.07	0.09	2.68	2.62	0.12	0.25	1.22	1.73	3.1	0.9	0.41
26	0.07	0.1	3.38	2.96	0.12	0.25	1.22	1.89	3.64	0.9	0.45
27	0.08	0.1	3.96	3.47	0.12	0.25	1.22	2.75	3.64	0.9	0.45
28	0.09	0.12	4.57	4.01	0.12	0.3	2.12	3.22	3.87	0.9	0.55
29	0.09	0.14	5.26	4.71	0.21	0.3	2.12	3.85	4.39	0.9	0.64
30	0.1	0.14	6.04	5.36	0.27	0.3	2.12	4.72	4.39	0.9	0.64
31	0.11	0.17	6.98	6.24	0.27	0.4	2.12	5.2	4.74	0.9	0.64
32	0.12	0.17	7.67	7.1	0.27	0.4	2.12	5.44	5.21	0.9	0.64
33	0.12	0.17	8.55	8.01	0.27	0.4	2.12	6.08	5.83	0.9	0.64
34	0.13	0.17	9.41	8.73	0.3	0.4	2.12	6.41	5.83	0.9	0.64
35	0.13	0.17	10.44	9.44	0.36	0.4	2.12	7	5.83	0.9	0.64
36	0.14	0.17	11.43	10.48	0.36	0.4	2.12	8.06	5.83	0.9	0.64
37	0.15	0.17	12.37		0.4		2.12	8.9	5.83	0.9	0.64
38	0.15		12.37		0.4		2.12	8.9	5.83	0.9	0.64
39	0.15		12.37		0.4		2.12	9.12	5.83	0.9	0.64

40	0.15		12.37		0.55		9.23			
41	0.15		12.37		0.73		9.37			
42	0.15		12.37		0.81		9.37			
43	0.15		12.37		0.81		9.37			
44	0.15		12.37		0.81		9.37			
45	0.15		12.37		0.81		9.37			
46	0.15		12.37		0.81		9.37			
47	0.15		12.37		0.81		9.37			
48	0.15		12.37		0.81					
49	0.15									

CD4.2 Front Jounce Hoses December 2017

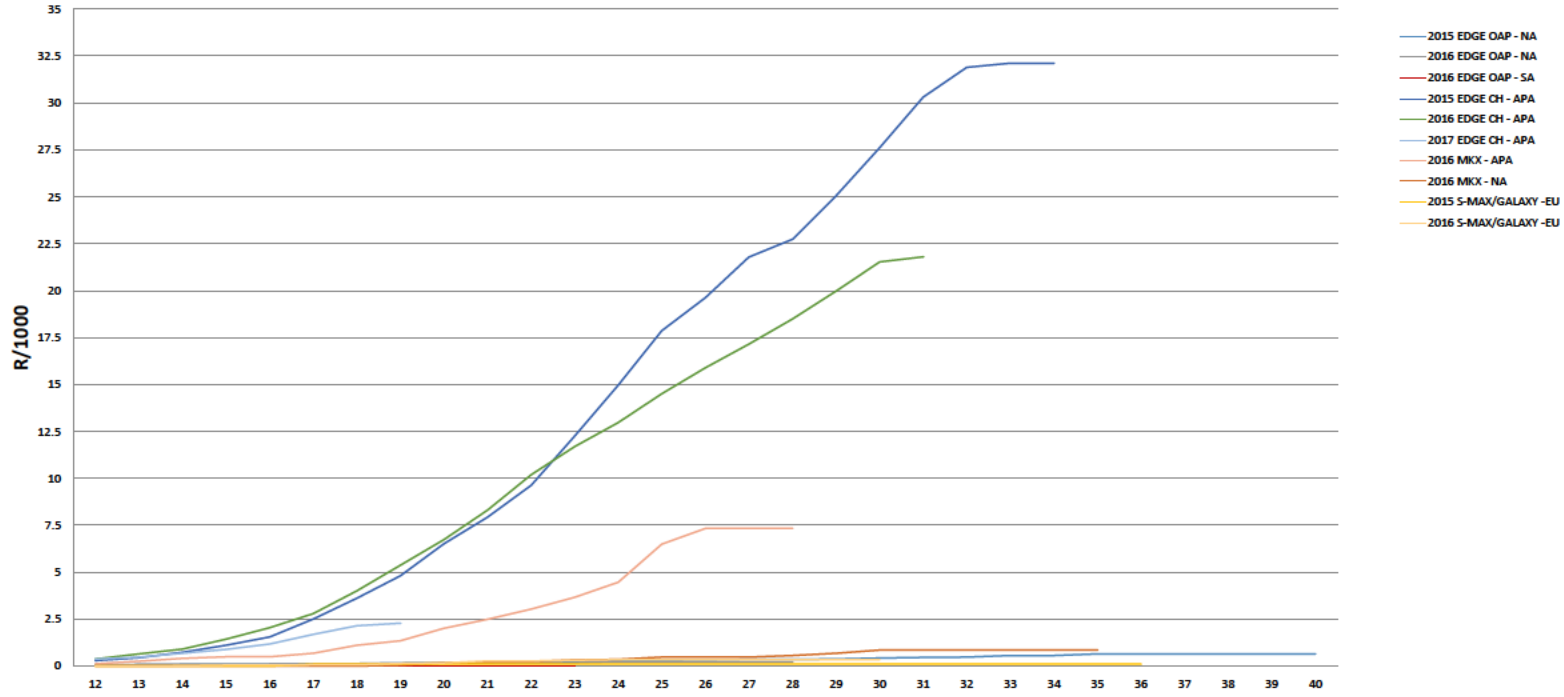


R/1000 FRONT JOUNCE HOSES									
TIS	2015 EDGE OAP - NA	2016 EDGE OAP - NA	2016 EDGE OAP - SA	2015 EDGE CH - APA	2016 EDGE CH - APA	2017 EDGE CH - APA	2016 MKX - APA	2015 S-MAX/GALAXY - EU	2016 S-MAX/GALAXY - EU
12	0.06	0.09	0	0.29	0.39	0.26	0.12	0	0
13	0.07	0.1	0	0.44	0.65	0.3	0.22	0	0
14	0.09	0.1	0	0.74	0.9	0.56	0.32	0	0.02
15	0.09	0.1	0	1.11	1.41	0.88	0.44	0	0.04
16	0.09	0.13	0	1.55	2.01		0.44	0	0.04
17	0.1	0.14	0	2.52	2.75	0.8		0.12	0.04
18	0.12	0.17	0	3.64	3.84		0.96	0.12	0.04
19	0.15	0.2	0	4.84	4.85		0.96	0.12	0.07
20	0.16	0.2		6.57	6		1.23	0.12	0.12
21	0.16	0.2		8.02	7.21		1.57	0.12	0.17
22	0.17	0.2		9.78	8.86		1.57	0.12	0.17
23	0.2	0.2		12.49	10.34		1.57	0.12	0.17
24	0.27	0.2		15.17	11.42		1.57	0.12	0.17
25	0.32			18.13	12.58			0.12	0.17
26	0.35			20.2	13.96			0.12	0.17
27	0.38			22.37	15.6			0.12	
28	0.38			23.31				0.12	
29	0.44			25.85				0.12	
30	0.48			25.65				0.12	
31	0.48							0.12	
32	0.48							0.12	
33	0.48								
34	0.48								
35	0.48								
36	0.48								
37									

38									
39									

EDGE EU ALL 0  
EDGE ME ALL 0  
SMAX-GALAXY 17 0

CD4.2 Front Jounce Hoses 2018



R/1000 FRONT JOUNCE HOSES											
TIS	2015 EDGE OAP - NA	2016 EDGE OAP - NA	2016 EDGE OAP - SA	2015 EDGE CH - APA	2016 EDGE CH - APA	2017 EDGE CH - APA	2016 MKX - APA	2016 MKX - NA	2015 S-MAX/GALAXY - EU	2016 S-MAX/GALAXY - EU	
12	0.06	0.08	0	0.29	0.39	0.38	0.12	0	0	0	
13	0.07	0.09	0	0.44	0.65	0.47	0.26	0	0	0	
14	0.09	0.09	0	0.74	0.91	0.69	0.41	0	0	0.02	
15	0.09	0.09	0	1.1	1.44	0.88	0.49	0	0	0.05	
16	0.09	0.11	0	1.55	2.04	1.18	0.49	0	0	0.05	
17	0.1	0.12	0	2.51	2.79	1.69	0.68	0	0.11	0.07	
18	0.12	0.13	0	3.62	4.01	2.14	1.1	0	0.11	0.07	
19	0.15	0.15	0	4.8	5.37	2.29	1.34	0.05	0.11	0.13	
20	0.17	0.18	0	6.51	6.74		2.02	0.17	0.11	0.17	
21	0.17	0.18	0	7.92	8.3		2.49	0.2	0.11	0.27	
22	0.18	0.18	0	9.63	10.2		3.03	0.24	0.11	0.27	
23	0.21	0.18	0	12.26	11.7		3.67	0.32	0.11	0.31	
24	0.27	0.23		14.97	12.97		4.47	0.36	0.11	0.35	
25	0.3	0.23		17.86	14.5		6.49	0.47	0.11	0.35	
26	0.33	0.23		19.62	15.88		7.33	0.47	0.11	0.35	
27	0.36	0.23		21.79	17.15		7.33	0.47	0.11	0.35	
28	0.36	0.23		22.74	18.5		7.33	0.56	0.11	0.35	
29	0.38			25.06	19.98			0.69	0.11	0.35	
30	0.43			27.61	21.53			0.86	0.11	0.35	
31	0.46			30.3	21.81			0.86	0.11		
32	0.48			31.89				0.86	0.11		
33	0.56			32.12				0.86	0.11		

34	0.56			32.12				0.86	0.11
35	0.65							0.86	0.11
36	0.65								0.11
37	0.65								
38	0.65								
39	0.65								
40	0.65								

EDGE EU ALL 0  
EDGE ME ALL 0  
SMAX-GALAXY 17 0

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**From:** Sanchez, Jorge (J.)  
**Sent:** Tuesday, July 17, 2018 7:02 AM  
**To:** Mason, Mary (M.A.); Bravo, Carlos (CUBM.); Lemmer, Brian (B.M.); Gallo Rosas, Abraham (A.G.); Parrish, Will (W.F.); Wickenheiser, Francis (F.J.)  
**Subject:** RE: CD Platform Hazard Plots  
**Attachments:** CD4.1 CD4.2 CD4.3 TIS Report Jun 15 2018 FR BRK HOSE.xlsx

**Follow Up Flag:** Follow up  
**Flag Status:** Completed

**Categories:** CCM

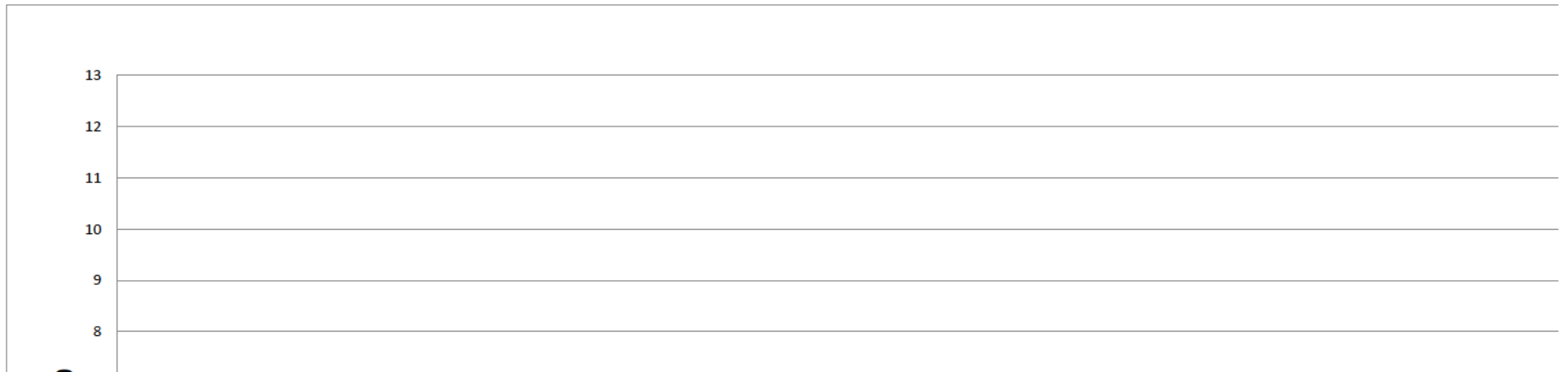
Hello team,

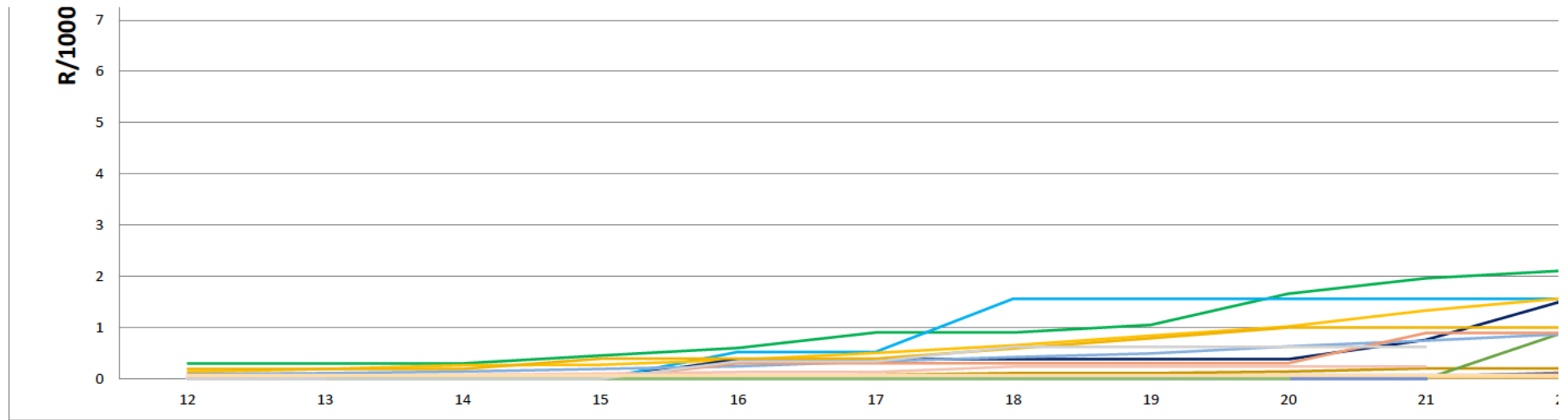
Find attached warranty file updated with CD4.3 information. Thanks.

Best Regards  
Jorge Sánchez  
Ford Motor Company  
Brakes D&R  
Desk: +52-1-55-13-34-01-68  
Cellphone: [REDACTED]  
E-mail: jsanc309@ford.com

<ul style="list-style-type: none"> <li>• Mondeo EU R/1000 includes Turkey</li> <li>• Turkey is a market with higher duty cycle compared to other countries in Europe. It is not unusual to find hazardous objects in roadways such as dead animals, large rocks, missing sewer covers, deep holes, or objects that have fallen from vehicles. Live farm animals can also be found near or in the roadway in rural areas.</li> </ul>	R/1000 Front Brake Hoses		<ul style="list-style-type: none"> <li>• Material change from PVA to PET:</li> <li>* China - December 2016</li> <li>* America - August 2017</li> <li>* Europe - June 2017</li> </ul>					
	Volume: 229,880 Repairs: 52 PVA Braid: 52 PET Braid: 0	Volume: 6,645 Repairs: 70 PVA Braid: 70 PET Braid: 0	Volume: 73,794 Repairs: 48 PVA Braid: 48 PET Braid: 0	Volume: 1,929 Repairs: 15 PVA Braid: 15 PET Braid: 0	Volume: 113,082 Repairs: 1,082 PVA Braid: 1,082 PET Braid: 0	Volume: 2,644 Repairs: 12 PVA Braid: 12 PET Braid: 0		
TIS	Fusion NA 2015 MY	Fusion Brazil 2015 MY	Mondeo EU 2015 MY	Mondeo TUR 2015 MY	Mondeo China 2015 MY	MKZ China 2015 MY		
12	0.02	0.3	0.03	0	0.13	0		
13	0.03	0.3	0.03	0	0.19	0		
14	0.03	0.3	0.03	0	0.26	0		
15	0.03	0.45	0.03	0	0.27	0		
16	0.04	0.6	0.05	0.52	0.37	0.38		

17	0.04	0.9	0.07	0.52	0.5	0.38
18	0.04	0.9	0.11	1.56	0.65	0.38
19	0.05	1.05	0.11	1.56	0.84	0.38
20	0.05	1.66	0.14	1.56	1.02	0.38
21	0.06	1.96	0.2	1.56	1.33	0.76
22	0.07	2.11	0.2	1.56	1.57	1.52
23	0.07	2.41	0.2	1.56	1.95	1.52
24	0.07	2.86	0.23	1.56	2.26	1.52
25	0.1	3.16	0.29	2.09	2.62	1.52
26	0.11	3.92	0.33	3.15	2.94	1.91
27	0.12	3.92	0.33	3.15	3.41	1.91
28	0.14	4.52	0.37	3.15	3.88	2.3
29	0.15	5.13	0.39	3.7	4.46	2.7
30	0.16	5.44	0.4	3.7	5.06	2.7
31	0.18	6.05	0.46	4.29	5.63	3.55
32	0.19	6.99	0.54	5.49	6.34	4.45
33	0.21	7.63	0.57	5.49	7.21	4.95
34	0.21	8.14	0.64	6.97	7.85	4.95
35	0.22	9.95	0.66	6.97	8.54	4.95
36	0.23	10.74	0.66	6.97	9.33	4.95
37	0.23	11.42	0.76	11.48	10.07	4.95
38	0.23	11.42	0.76	11.48	10.07	4.95
39	0.23	11.42	0.76		10.07	4.95
40	0.23	11.42	0.76		10.07	4.95
41	0.23	11.42	0.76		10.07	4.95
42	0.23	11.42	0.76		10.07	4.95
43	0.23	11.42	0.76		10.07	
44	0.23	11.42			10.07	
45	0.23				10.07	
46	0.23					
47						
48						
49						



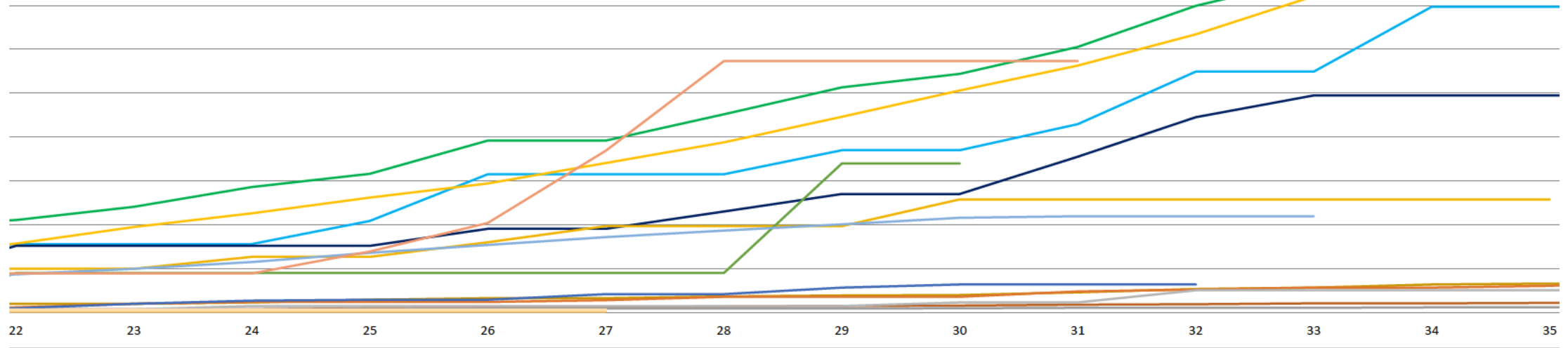


Volume: 25,461 Repairs: 24 PVA Braid: 24 PET Braid: 0	Volume: 328,778 Repairs: 30 PVA Braid: 30 PET Braid: 0	Volume: 5,234 Repairs: 9 PVA Braid: 9 PET Braid: 0	Volume: 84,067 Repairs: 26 PVA Braid: 26 PET Braid: 0	Volume: 2,060 Repairs: 2 PVA Braid: 2 PET Braid: 0	Volume: 116,045 Repairs: 194 PVA Braid: 194 PET Braid: 0	Volume: 3,353 Repairs: 9 PVA Braid: 9 PET Braid: 0	Volume: 28,935 Repairs: 7 PVA Braid: 7 PET Braid: 0	Volume: 305,712 Repairs: 6 PVA Braid: 6 PET Braid: 0
MKZ NA 2015 MY	Fusion NA 2016 MY	Fusion Brazil 2016 MY	Mondeo EU 2016 MY	Mondeo TUR 2016 MY	Mondeo China 2016 MY	MKZ China 2016 MY	MKZ NA 2016 MY	Fusion NA 2017 MY
0.04	0.02	0.19	0.02	0	0.09	0	0.03	0.02
0.04	0.02	0.19	0.02	0	0.11	0	0.03	0.02
0.04	0.02	0.19	0.02	0	0.14	0	0.03	0.02
0.04	0.02	0.39	0.02	0	0.19	0	0.03	0.02
0.04	0.03	0.39	0.02	0	0.24	0.3	0.03	0.03

0.04	0.03	0.39	0.02	0	0.34	0.3	0.03	0.03
0.04	0.03	0.59	0.04	0	0.42	0.3	0.03	0.03
0.04	0.04	0.79	0.04	0	0.49	0.3	0.03	0.03
0.04	0.04	1	0.05	0	0.63	0.3	0.07	0.03
0.04	0.05	1	0.05	0	0.74	0.89	0.07	0.03
0.12	0.06	1	0.1	0.9	0.87	0.89	0.07	0.03
0.2	0.06	1	0.2	0.9	1	0.89	0.07	0.03
0.24	0.07	1.27	0.27	0.9	1.15	0.89	0.15	0.03
0.24	0.08	1.27	0.29	0.9	1.36	1.39	0.15	0.03
0.24	0.09	1.6	0.29	0.9	1.54	2.04	0.15	0.03
0.28	0.09	1.97	0.42	0.9	1.72	3.69	0.15	0.03
0.36	0.09	1.97	0.42	0.9	1.87	5.73	0.15	
0.36	0.09	1.97	0.57	3.4	2.01	5.73	0.15	
0.36	0.1	2.58	0.64	3.4	2.16	5.73	0.23	
0.48	0.11	2.58	0.64		2.2	5.73	0.23	
0.52	0.11	2.58	0.64		2.2		0.51	
0.57	0.11	2.58			2.2		0.51	
0.57	0.12	2.58					0.51	
0.61	0.12	2.58					0.51	
0.71	0.12						0.51	
0.82								
1.01								
1.01								
1.11								
1.11								
1.26								
1.26								
1.26								
1.26								

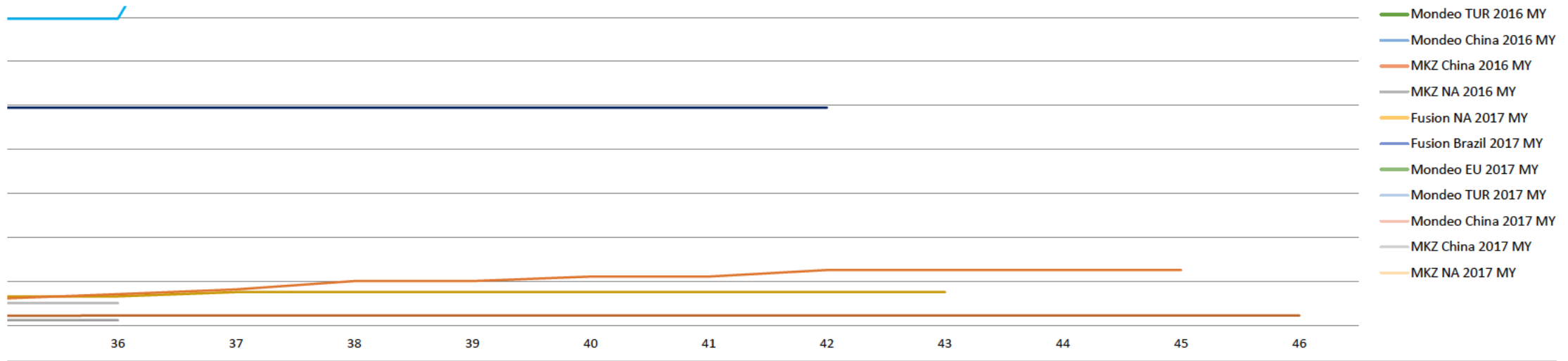
Front Jounce Hoses





Volume: 4,204 Repairs: 0 PVA Braid: 0 PET Braid: 0	Volume: 58,256 Repairs: 0 PVA Braid: 0 PET Braid: 0	Volume: 458 Repairs: 0 PVA Braid: 0 PET Braid: 0	Volume: 102,607 Repairs: 11 PVA Braid: 10 PET Braid: 1	Volume: 17,566 Repairs: 3 PVA Braid: 3 PET Braid: 0	Volume: 46,053 Repairs: 2 PVA Braid: 2 PET Braid: 0	Volume: 18,973 Repairs: 0 PVA Braid: 0 PET Braid: 0	Volume: 3,468 Repairs: 0 PVA Braid: 0 PET Braid: 0	Volume: 15,916 Repairs: 3 PVA Braid: 3 PET Braid: 0
Fusion Brazil 2017 MY	Mondeo EU 2017 MY	Mondeo TUR 2017 MY	Mondeo China 2017 MY	MKZ China 2017 MY	MKZ NA 2017 MY	Continental NA 2017 MY	Continental NA 2018 MY	Continental AP 2017 MY
0	0	0	0.03	0	0.06	0	0	0.29
0	0	0	0.05	0	0.06	0		0.29
0	0		0.07	0	0.06	0		0.29
0	0		0.1	0	0.06	0		0.29
0	0		0.13	0.34	0.06	0		0.29





Volume: 495 Repairs: 0 PVA Braid: 0 PET Braid: 0	Volume: 24,239 Repairs: 53 PVA Braid: 53 PET Braid: 0	Volume: 31,141 Repairs: 15 PVA Braid: 15 PET Braid: 0
Continental AP 2018 MY	Taurus AP 2016 MY	Taurus AP 2017 MY
0	0.08	0.07
	0.08	0.12
	0.13	0.16
	0.17	0.22
	0.3	0.47



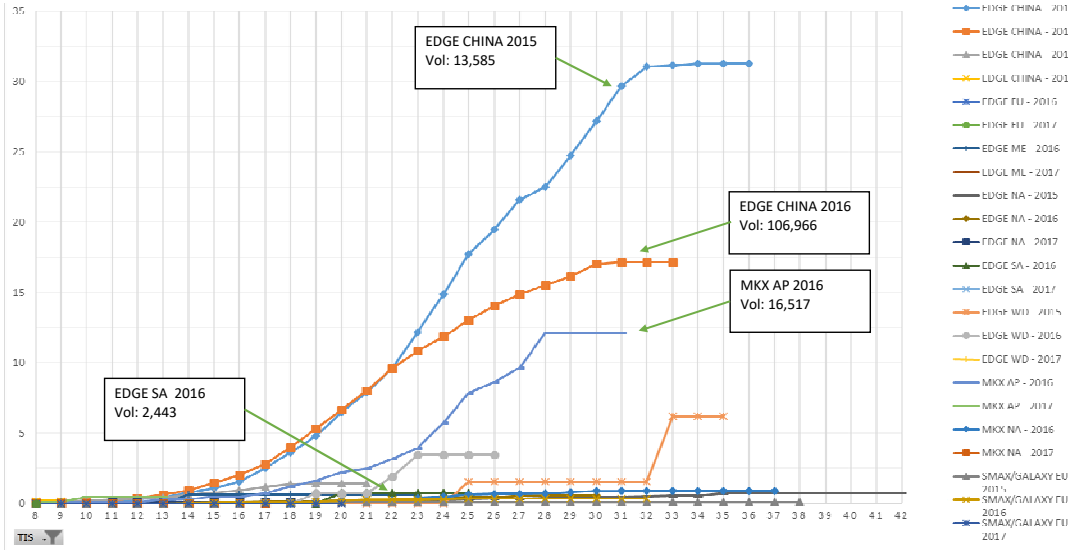
EDGE EUROPE keeps using a premium version of PVA (Low expansion braid) because the current brake module is not able to work with the higher expansion of the PET braid.

Material change from PVA to PET  
 EDGE China: January 2017  
 EDGE NA/SA/ME/WD Oakville: August 2017  
 MKX NA/AP: August 2017

Material change from Low Exp PVA to PET  
 SMAX/GALAXY: Plan for September 2018  
 EDGE Europe: Under investigation

**MKX CLAIMS DATA**  
 After the FSA announcement, there has been 49 new repairs in China.

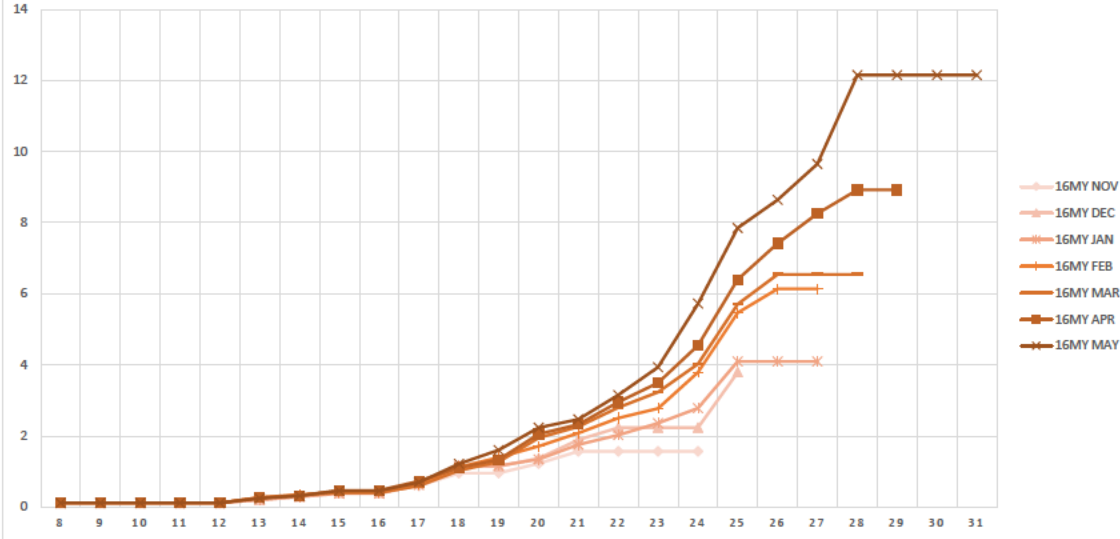
In the 49 reports, technician and customer comments include:  
 Low pedal, cracked hose, oil in the garage, long braking distance, leakage.



	EDGE CHINA				EDGE EU		EDGE ME		EDGE NA			EDGE SA		EDGE WD			MKX AP		MKX NA		SMAX/GALAXY EU			
Volume	13,585	106,966	129,622	53,744	15,370	11,811	3,464	758	139,016	136,012	149,278	2,443	2,558	877	2,906	1,169	16,517	10,312	52,409	31,554	9,158	61,213	47,669	22,602
Repairs	412	1,498	105	2	0	0	1	0	74	35	8	1	0	2	3	0	70	2	24	0	1	17	0	0
PVA	412	1,498	99	0			1		74	35	8	1	0	2	3		70	2	24		1	17		
PET	0	0	6	2			0		0	0	0	0	0	0	0		0	0	0		0	0		
TIS	2015	2016	2017	2018	2016	2017	2016	2017	2015	2016	2017	2016	2017	2015	2016	2017	2016	2017	2016	2017	2015	2016	2017	2018
8	0.07	0.05	0.14	0.19	0	0	0	0	0.02	0.04	0.03	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
9	0.07	0.09	0.16	0.19	0	0	0	0	0.03	0.06	0.03	0	0	0	0	0	0.12	0.1	0	0	0	0	0	0
10	0.07	0.14	0.19		0	0	0	0	0.03	0.07	0.03	0	0	0	0	0	0.12	0.48	0	0	0	0	0	0
11	0.15	0.24	0.25		0	0	0	0	0.06	0.07	0.07	0	0	0	0	0	0.12	0.48	0	0	0	0	0	0
12	0.29	0.39	0.35		0	0	0	0	0.06	0.08	0.07	0	0	0	0	0	0.12	0.48	0	0	0	0	0	0
13	0.44	0.65	0.43		0	0	0	0	0.07	0.09	0.1	0	0	0	0	0	0.25	0.48	0	0	0	0	0	0
14	0.74	0.91	0.6		0	0.62			0.09	0.09	0.1	0	0	0	0	0	0.32		0	0	0	0	0.02	0
15	1.1	1.44	0.76		0	0.62			0.09	0.1	0.1	0	0	0	0	0	0.46		0	0	0	0	0.05	0
16	1.55	2.04	0.93		0	0.62			0.09	0.11	0.1	0	0	0	0	0	0.46		0	0	0	0	0.05	0
17	2.5	2.78	1.18		0	0.62			0.1	0.13	0.1	0	0	0	0	0	0.7		0	0	0.11	0.07	0	0
18	3.61	3.99	1.37		0	0.62			0.12	0.14	0.1	0	0	0	0	0	1.22		0	0	0.11	0.07	0	0
19	4.79	5.32	1.41		0	0.62			0.15	0.16	0	0	0	0	0.73		1.6		0.05		0.11	0.14	0	0
20	6.49	6.65	1.41		0	0.62			0.17	0.18		0.75		0	0.73		2.23		0.15		0.11	0.18	0	0
21	7.9	8.02	1.41		0	0.62			0.17	0.19		0.75		0	0.73		2.47		0.17		0.11	0.26		
22	9.6	9.61			0	0.62			0.18	0.24		0.75		0	1.9		3.15		0.23		0.11	0.26		
23	12.2	10.83			0	0.62			0.21	0.29		0.75		0	3.46		3.93		0.39		0.11	0.28		
24	14.89	11.84			0				0.27	0.39		0.75		0	3.46		5.72		0.46		0.11	0.31		
25	17.74	13.03							0.31	0.42			0.75	1.54	3.46		7.85		0.62		0.11	0.35		
26	19.47	14.07							0.35	0.42				1.54	3.46		8.64		0.67		0.11	0.35		
27	21.6	14.86							0.37	0.54				1.54			9.65		0.67		0.11	0.35		
28	22.52	15.52							0.38	0.54				1.54			12.15		0.73		0.11	0.35		
29	24.76	16.16							0.4	0.54				1.54			12.15		0.8		0.11	0.35		
30	27.21	17.04							0.45	0.54				1.54			12.15		0.9		0.11	0.35		
31	29.69	17.16							0.47					1.54			12.15		0.9		0.11	0.35		
32	31.08	17.16							0.5					1.54					0.9		0.11	0.35		
33	31.17	17.16							0.57					6.17					0.9		0.11			
34	31.26								0.57					6.17					0.9		0.11			
35	31.26								0.73					6.17					0.9		0.11			
36	31.26								0.77										0.9		0.11			
37									0.77										0.9		0.11			
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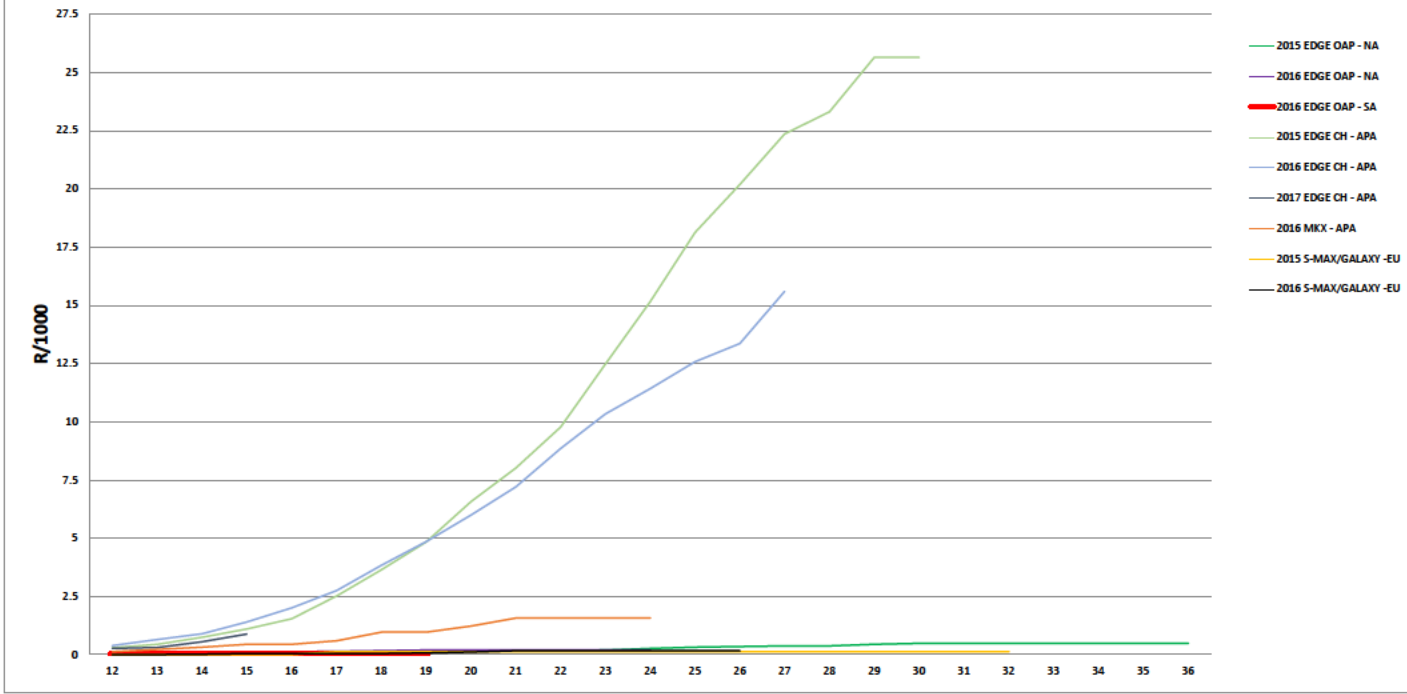
From February to May there have been 49 reported repairs on MKX China Front Hoses.

16MY MKX AP TIS OVER TIME



Cutoff	94		95		96		97		98		99		100				
	NOV-31-2017	DEC-31-2018	JAN-31-2018	FEB-28-2018	MAR-31-2018	APR-30-2018	MAY-31-2018	MAY-31-2018	MAY-31-2018	MAY-31-2018	MAY-31-2018	MAY-31-2018	MAY-31-2018	MAY-31-2018			
	Volume	Repairs	PVA	PET	TIS	2016	2017	2016	2017	2016	2017	2016	2017	2016	2017		
8	16,394	10	10	0	0.12	0.12		0.12	0.12	0.12	0.11	0.12	0.11	0.12	0.1	0.12	0.1
9	5,678	0	15	1	0.12	0.12	0.15	0.12	0.12	0.12	0.11	0.12	0.11	0.12	0.1	0.12	0.1
10	16,427	15	1	0	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.12	0.11	0.12	0.65	0.12	0.48
11	6,770	19	1	0	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.12	0.11	0.12	0.65	0.12	0.48
12	16,455	1	1	0	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.12	0.11	0.12	0.65	0.12	0.48
13	8,056	29	1	0	0.22	0.21	0.2	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.25	0.48	
14	16,473	1	1	0	0.32	0.3	0.29	0.35	0.34	0.34	0.33	0.33	0.33	0.33	0.32		
15	8,970	36	1	0	0.44	0.41	0.38	0.43	0.41	0.41	0.47	0.47	0.47	0.46			
16	16,487	1	1	0	0.44	0.41	0.38	0.43	0.41	0.41	0.47	0.47	0.47	0.46			
17	9,459	49	2	0	0.6	0.68	0.62	0.65	0.6	0.6	0.73	0.73	0.73	0.7			
18	16,502	2	2	0	0.96	1.15	1.16	1.13	1.03	1.11	1.11	1.11	1.11	1.22			
19	9,993	70	2	0	0.96	1.15	1.16	1.4	1.27	1.33	1.33	1.33	1.33	1.6			
20	16,517	2	2	0	1.23	1.37	1.34	1.71	1.95	2.05	2.05	2.05	2.05	2.23			
21	10,312	2	2	0	1.57	1.89	1.76	2.08	2.26	2.32	2.32	2.32	2.32	2.47			
22					1.57	2.23	2.03	2.5	2.8	2.95	2.95	2.95	2.95	3.15			
23					1.57	2.23	2.36	2.77	3.23	3.49	3.49	3.49	3.49	3.93			
24					1.57	2.23	2.78	3.79	4.02	4.55	4.55	4.55	4.55	5.72			
25						3.8	4.1	5.46	5.71	6.4	6.4	6.4	6.4	7.85			
26							4.1	6.14	6.55	7.42	7.42	7.42	7.42	8.64			
27							4.1	6.14	6.55	8.25	8.25	8.25	8.25	9.65			
28									6.55	8.92	8.92	8.92	8.92	12.15			
29										8.92	8.92	8.92	8.92	12.15			
30														12.15			
31														12.15			

CD4.2 Front Jounce Hoses December 2017



R/1000 FRONT JOUCE HOSES									
TIS	2015 EDGE OAP - NA	2016 EDGE OAP - NA	2016 EDGE OAP - SA	2015 EDGE CH - APA	2016 EDGE CH - APA	2017 EDGE CH - APA	2016 MKX - APA	2015 S-MAX/GALAXY -EU	2016 S-MAX/GALAXY -EU
12	0.06	0.09	0	0.29	0.39	0.26	0.12	0	0
13	0.07	0.1	0	0.44	0.65	0.3	0.22	0	0
14	0.09	0.1	0	0.74	0.9	0.56	0.32	0	0.02
15	0.09	0.1	0	1.11	1.41	0.88	0.44	0	0.04
16	0.09	0.13	0	1.55	2.01	0.44	0.44	0	0.04
17	0.1	0.14	0	2.52	2.75	0.6	0.6	0.12	0.04
18	0.12	0.17	0	3.64	3.84	0.96	0.96	0.12	0.04
19	0.15	0.2	0	4.84	4.85	0.96	0.96	0.12	0.07
20	0.16	0.2	0	6.57	6	1.23	1.23	0.12	0.12
21	0.16	0.2	0	8.02	7.21	1.57	1.57	0.12	0.17
22	0.17	0.2	0	9.78	8.86	1.57	1.57	0.12	0.17
23	0.2	0.2	0	12.49	10.34	1.57	1.57	0.12	0.17
24	0.27	0.2	0	15.17	11.42	1.57	1.57	0.12	0.17
25	0.32		0	18.13	12.58			0.12	0.17
26	0.35		0	20.2	13.36			0.12	0.17
27	0.38		0	22.37	15.6			0.12	
28	0.38		0	23.31				0.12	
29	0.44		0	25.65				0.12	
30	0.48		0	25.65				0.12	
31	0.48		0					0.12	
32	0.48		0					0.12	
33	0.48		0						
34	0.48		0						
35	0.48		0						
36	0.48		0						
37			0						
38			0						
39			0						

EDGE EU ALL 0  
 EDGE ME ALL 0  
 SMAX-GALAXY 17 0

---

**From:** Sanchez, Jorge (J.)  
**Sent:** Monday, June 22, 2020 4:53 PM  
**To:** Britton, Eric (E.J.)  
**Subject:** RE: Split Hoses  
**Attachments:** CD Platform 2078 TIS Region.xlsx

Hello Eric,

The complete TIS matrix is attached, find below a summary of the R/1000 values.

	Cummulative R/1000 at 36 MIS				
	2013MY	2014MY	2015MY	2016MY	2017MY
NA Edge	No Data	No Data	0.43	0.94	0.75
NA Fusion	0.02	0.08	0.15	0.08	0.13
NA MKX	No Data	No Data	No Data	1.82	0.96
NA MKZ	0.21	0.32	0.39	0.69	0.36
EU S- Max/Galaxy	No Data	No Data	0	0.16	0.21
EU Mondeo	No Data	0	0.17	0.11	0.04

Regards,  
Jorge Sánchez

---

**From:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Sent:** lunes, 22 de junio de 2020 09:34 a. m.  
**To:** Sanchez, Jorge (J.) <[jsanc309@ford.com](mailto:jsanc309@ford.com)>  
**Subject:** RE: Split Hoses

Jorge, will you be able to complete this by the end of the day Tuesday?

**Eric Britton**  
Government Investigations  
Tel. 313-323-2966  
Cell [REDACTED]

---

**From:** Sanchez, Jorge (J.) <[jsanc309@ford.com](mailto:jsanc309@ford.com)>  
**Sent:** Friday, June 19, 2020 3:45 PM  
**To:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Subject:** RE: Split Hoses

Hi Eric,

Yes, I will work on this.  
Find attached CD platform rears TIS matrix, splits only.

Regards,

Jorge Sánchez

---

**From:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Sent:** viernes, 19 de junio de 2020 02:37 p. m.  
**To:** Sanchez, Jorge (J.) <[jsanc309@ford.com](mailto:jsanc309@ford.com)>  
**Subject:** Split Hoses

Jorge, are you able to create 36 MIS Cumulative TIS for Regions?

NA Edge (combined 15-17MY)  
NA Fusion (combined 13-17MY)  
NA MKX (combined 16-17MY)  
NA MKZ (combined 13-17MY)  
EU S-Max/Galaxy (combined 15-17MY)  
EU Mondeo (combined 15-17)

***Eric Britton***

Government Investigations

Tel. 313-323-2966

Cell [REDACTED]

---

**From:** Sanchez, Jorge (J.)  
**Sent:** Tuesday, June 23, 2020 8:55 AM  
**To:** Britton, Eric (E.J.)  
**Subject:** RE: Split Hoses  
**Attachments:** Claim List 2C338.xlsx

Hi Eric,

Out of 612 claims 34 are splits.

Regards,  
Jorge Sánchez

---

**From:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Sent:** martes, 23 de junio de 2020 07:43 a. m.  
**To:** Sanchez, Jorge (J.) <[jsanc309@ford.com](mailto:jsanc309@ford.com)>  
**Subject:** RE: Split Hoses

How many rear hose repairs do we have? Do you have a claims list?

*Eric Britton*

Government Investigations  
Tel. 313-323-2966  
Cell [REDACTED]

---

**From:** Sanchez, Jorge (J.) <[jsanc309@ford.com](mailto:jsanc309@ford.com)>  
**Sent:** Friday, June 19, 2020 3:45 PM  
**To:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Subject:** RE: Split Hoses

Hi Eric,

Yes, I will work on this.  
Find attached CD platform rears TIS matrix, splits only.

Regards,  
Jorge Sánchez

---

**From:** Britton, Eric (E.J.) <[ebritton@ford.com](mailto:ebritton@ford.com)>  
**Sent:** viernes, 19 de junio de 2020 02:37 p. m.  
**To:** Sanchez, Jorge (J.) <[jsanc309@ford.com](mailto:jsanc309@ford.com)>  
**Subject:** Split Hoses

Jorge, are you able to create 36 MIS Cumulative TIS for Regions?

NA Edge (combined 15-17MY)  
NA Fusion (combined 13-17MY)  
NA MKX (combined 16-17MY)  
NA MKZ (combined 13-17MY)  
EU S-Max/Galaxy (combined 15-17MY)  
EU Mondeo (combined 15-17)

***Eric Britton***

Government Investigations

Tel. 313-323-2966

Cell [REDACTED]

Stack Report Completed

**View** Data Tbl Print

## Options Panel

TIS Matrices **Charts**

Stack ▾

Reset Save All

**Chart Print/Save Mode**

Full Report

Chart Only

**Year(s)**

All  
2017  
2016  
2015  
2014  
2013

**Statistics**

R/1000 ▾

**Logic**

Corporate ▾

All Rows

Selected Rows

No Rows View Checked

### Report Specific Selections

Common Scale

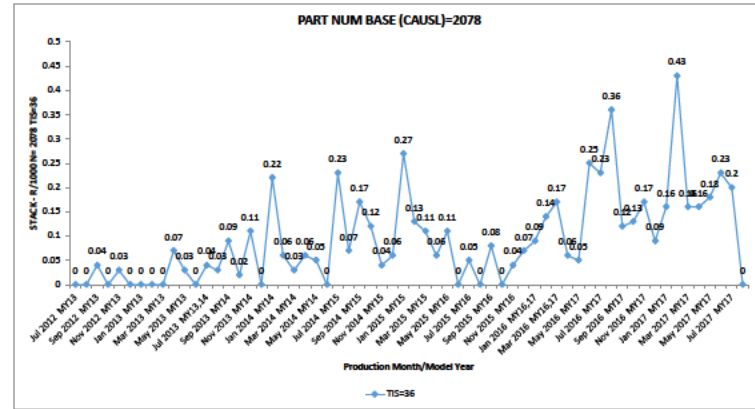


Model Year = 2017,2013,2014,2015,2016  
Order By = Part Num Base (Causal)  
TIS Rows Selected = All  
YTD Column Only = No  
Minimum Divisor = 1  
Logic = Corp  
Cost Type = Total Cost Gross

Descriptions = Yes

Stack Chart

Print Date: 24 May 2021    Logic: Corporate    Cutoff Date: 30 Apr 2021    Request Name: FUSION BRAKE HOSE TIS  
 PrintTime: 10:49    TIS: ALL    Min Divisor: 100    Result ID: 84820827  
 Statistic: R/1000    Y Value[s]: 1078 @ TIS=36  
 Model Years: 2017,2016,2015,2014,2013  
 Uniques: PART NUM BASE [CAUSL]=2078



Model Year	MO	TIS=36
13	7/1/2012	0
13	8/1/2012	0
13	9/1/2012	0.04
13	10/1/2012	0
13	11/1/2012	0.03
13	12/1/2012	0
13	1/1/2013	0
13	2/1/2013	0
13	3/1/2013	0
13	4/1/2013	0.07
13	5/1/2013	0.03
13,14	6/1/2013	0
13,14	7/1/2013	0.04
14	8/1/2013	0.03
14	9/1/2013	0.09
14	10/1/2013	0.02
14	11/1/2013	0.11
14	12/1/2013	0
14	1/1/2014	0.22
14	2/1/2014	0.06
14	3/1/2014	0.03
14	4/1/2014	0.06
14	5/1/2014	0.05
14,15	6/1/2014	0
15	7/1/2014	0.23
15	8/1/2014	0.07
15	9/1/2014	0.17
15	10/1/2014	0.12
15	11/1/2014	0.04
15	12/1/2014	0.06
15	1/1/2015	0.27
15	2/1/2015	0.13
15	3/1/2015	0.11
15,16	4/1/2015	0.06
16	5/1/2015	0.11
16	6/1/2015	0
16	7/1/2015	0.05
16	8/1/2015	0
16	9/1/2015	0.08
16	10/1/2015	0
16	11/1/2015	0.04
16	12/1/2015	0.07
16,17	1/1/2016	0.09
16	2/1/2016	0.14
16,17	3/1/2016	0.17
16,17	4/1/2016	0.06
17	5/1/2016	0.05
17	6/1/2016	0.25
17	7/1/2016	0.23
17	8/1/2016	0.36
17	9/1/2016	0.12
17	10/1/2016	0.13
17	11/1/2016	0.17
17	12/1/2016	0.09
17	1/1/2017	0.16
17	2/1/2017	0.43
17	3/1/2017	0.16
17	4/1/2017	0.16
17	5/1/2017	0.18
17	6/1/2017	0.23
17	7/1/2017	0.2
17	8/1/2017	0

Stack Report Completed

**View** Data Tbl Print

## Options Panel

**TIS Matrices** **Charts**

Stack ▼

Reset Save All

**Chart Print/Save Mode**

Full Report

Chart Only

**Year(s)**

All 2017 2016 2015 2014 2013

**Statistics**

R/1000

**Logic**

Corporate

All Rows

Selected Rows

No Rows View Checked

### Report Specific Selections

Common Scale

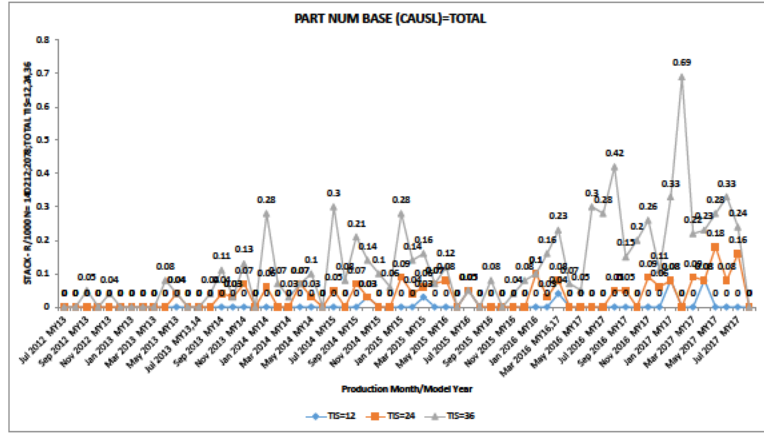


Model Year = 2017,2016,2015,2014,2013  
Order By = Part Num Base (Causal)  
TIS Rows Selected = All  
YTD Column Only = No  
Minimum Divisor = 1  
Logic = Corp  
Cost Type = Total Cost Gross

Descriptions = Yes

Stack Chart

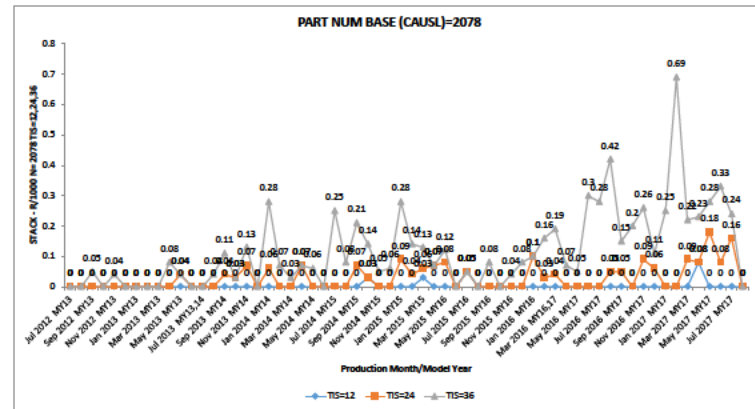
Print Date: 19 May 2021    Logic: Corporate    Cutoff Date: 30 Apr 2021    Request Name: FUSION BRAKE HOSE TIS  
 PrintTime: 15:18    TIS: ALL    Min Divisor: 100    Result ID: 49510938  
 Statistic: R/1000    Y Value(s): 140212;2078;TOTAL @ TIS=12,24,36  
 Model Years: 2017,2016,2015,2014,2013  
 Uniques: PART NUM BASE [CAUSL]=TOTAL



Model Year	MOP	TIS=12	TIS=24	TIS=36
13	7/1/2012	0	0	0
13	8/1/2012	0	0	0
13	9/1/2012	0	0	0.05
13	10/1/2012	0	0	0
13	11/1/2012	0	0	0.04
13	12/1/2012	0	0	0
13	1/1/2013	0	0	0
13	2/1/2013	0	0	0
13	3/1/2013	0	0	0
13	4/1/2013	0	0	0.08
13	5/1/2013	0	0.04	0.04
13,14	6/1/2013	0	0	0
13,14	7/1/2013	0	0	0
14	8/1/2013	0	0	0.04
14	9/1/2013	0	0.04	0.11
14	10/1/2013	0	0.03	0.03
14	11/1/2013	0	0.07	0.13
14	12/1/2013	0	0	0
14	1/1/2014	0	0.06	0.28
14	2/1/2014	0	0	0.07
14	3/1/2014	0	0	0.03
14	4/1/2014	0	0.07	0.07
14	5/1/2014	0	0.03	0.1
14,15	6/1/2014	0	0	0
15	7/1/2014	0	0.05	0.3
15	8/1/2014	0	0	0.08
15	9/1/2014	0	0.07	0.21
15	10/1/2014	0.03	0.03	0.14
15	11/1/2014	0	0	0.1
15	12/1/2014	0	0	0.06
15	1/1/2015	0	0.09	0.28
15	2/1/2015	0	0.04	0.14
15	3/1/2015	0.03	0.06	0.16
15,16	4/1/2015	0	0.07	0.07
16	5/1/2015	0	0.08	0.12
16	6/1/2015	0	0	0
16	7/1/2015	0.05	0.05	0.05
16	8/1/2015	0	0	0
16	9/1/2015	0	0	0.08
16	10/1/2015	0	0	0
16	11/1/2015	0	0	0.04
16	12/1/2015	0	0	0.08
16	1/1/2016	0	0.1	0.1
16	2/1/2016	0	0.03	0.16
16,17	3/1/2016	0.04	0.08	0.23
16,17	4/1/2016	0	0	0.07
17	5/1/2016	0	0	0.05
17	6/1/2016	0	0	0.3
17	7/1/2016	0	0	0.28
17	8/1/2016	0	0.05	0.42
17	9/1/2016	0	0.05	0.15
17	10/1/2016	0	0	0.2
17	11/1/2016	0	0.09	0.26
17	12/1/2016	0	0.06	0.11
17	1/1/2017	0.08	0.08	0.33
17	2/1/2017	0	0	0.68
17	3/1/2017	0	0.09	0.22
17	4/1/2017	0.08	0.08	0.23
17	5/1/2017	0	0.18	0.28
17	6/1/2017	0	0.08	0.33
17	7/1/2017	0	0.16	0.24
17	8/1/2017	0	0	0

Stack Chart

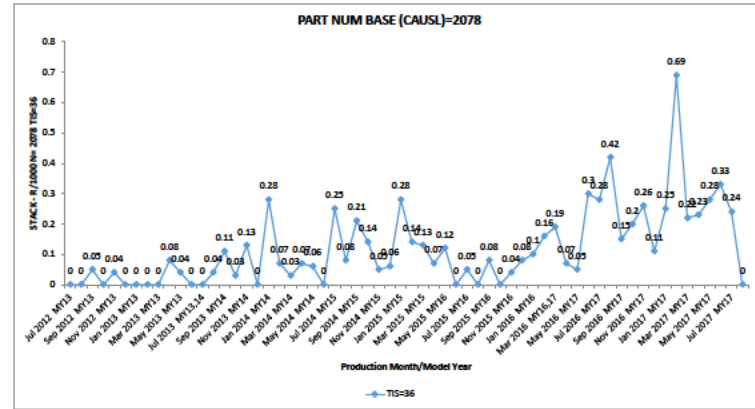
Print Date: 19 May 2021    Logic: Corporate    Cutoff Date: 30 Apr 2021    Request Name: FUSION BRAKE HOSE TIS  
 PrintTime: 13:18    TIS: ALL    Min Divisor: 100    Result ID: 49510938  
 Statistic: R/1000    Y Value[s]: 1078 @ TIS=12,24,36  
 Model Years: 2017,2016,2015,2014,2013  
 Uniques: PART NUM BASE [CAUSL]=2078



Model	Year	MOE	TIS=12	TIS=24	TIS=36
13	7/1/2012	0	0	0	0
13	8/1/2012	0	0	0	0
13	9/1/2012	0	0	0	0.05
13	10/1/2012	0	0	0	0
13	11/1/2012	0	0	0	0.04
13	12/1/2012	0	0	0	0
13	1/1/2013	0	0	0	0
13	2/1/2013	0	0	0	0
13	3/1/2013	0	0	0	0
13	4/1/2013	0	0	0	0.06
13	5/1/2013	0	0.04	0.04	0
13,14	6/1/2013	0	0	0	0
13,14	7/1/2013	0	0	0	0
14	8/1/2013	0	0	0.04	0
14	9/1/2013	0	0.04	0.11	0
14	10/1/2013	0	0.03	0.03	0
14	11/1/2013	0	0.07	0.13	0
14	12/1/2013	0	0	0	0
14	1/1/2014	0	0.06	0.28	0
14	2/1/2014	0	0	0.07	0
14	3/1/2014	0	0	0.03	0
14	4/1/2014	0	0.07	0.07	0
14	5/1/2014	0	0	0.06	0
14,15	6/1/2014	0	0	0	0
15	7/1/2014	0	0	0.25	0
15	8/1/2014	0	0	0.08	0
15	9/1/2014	0	0.07	0.21	0
15	10/1/2014	0.03	0.03	0.14	0
15	11/1/2014	0	0	0.05	0
15	12/1/2014	0	0	0.06	0
15	1/1/2015	0	0.09	0.28	0
15	2/1/2015	0	0.04	0.14	0
15	3/1/2015	0.03	0.06	0.13	0
15,16	4/1/2015	0	0.07	0.07	0
16	5/1/2015	0	0.08	0.12	0
16	6/1/2015	0	0	0	0
16	7/1/2015	0.05	0.05	0.05	0
16	8/1/2015	0	0	0	0
16	9/1/2015	0	0	0.08	0
16	10/1/2015	0	0	0	0
16	11/1/2015	0	0	0.04	0
16	12/1/2015	0	0	0.08	0
16	1/1/2016	0	0.1	0.1	0
16	2/1/2016	0	0.03	0.16	0
16,17	3/1/2016	0	0.04	0.19	0
16,17	4/1/2016	0	0	0.07	0
17	5/1/2016	0	0	0.05	0
17	6/1/2016	0	0	0.3	0
17	7/1/2016	0	0	0.28	0
17	8/1/2016	0	0.05	0.42	0
17	9/1/2016	0	0.05	0.15	0
17	10/1/2016	0	0	0.2	0
17	11/1/2016	0	0.09	0.26	0
17	12/1/2016	0	0.06	0.11	0
17	1/1/2017	0	0	0.25	0
17	2/1/2017	0	0	0.69	0
17	3/1/2017	0	0.09	0.22	0
17	4/1/2017	0.08	0.08	0.23	0
17	5/1/2017	0	0.18	0.28	0
17	6/1/2017	0	0.08	0.33	0
17	7/1/2017	0	0.16	0.24	0
17	8/1/2017	0	0	0	0

Stack Chart

Print Date: 19 May 2021    Logic: Corporate    Cutoff Date: 30 Apr 2021    Request Name: FUSION BRAKE HOSE TIS  
 PrintTime: 13:18    TIS: ALL    Min Divisor: 100    Result ID: 49510938  
 Statistic: R/1000    Y Value[s]: T078 @ TIS=36  
 Model Years: 2017,2016,2015,2014,2013  
 Uniques: PART NUM BASE [CAUSL]=2078



Model Year	MOC	TIS=36
13	7/1/2012	0
13	8/1/2012	0
13	9/1/2012	0.05
13	10/1/2012	0
13	11/1/2012	0.04
13	12/1/2012	0
13	1/1/2013	0
13	2/1/2013	0
13	3/1/2013	0
13	4/1/2013	0.08
13	5/1/2013	0.04
13,14	6/1/2013	0
13,14	7/1/2013	0
14	8/1/2013	0.04
14	9/1/2013	0.11
14	10/1/2013	0.03
14	11/1/2013	0.13
14	12/1/2013	0
14	1/1/2014	0.28
14	2/1/2014	0.07
14	3/1/2014	0.03
14	4/1/2014	0.07
14	5/1/2014	0.06
14,15	6/1/2014	0
15	7/1/2014	0.25
15	8/1/2014	0.08
15	9/1/2014	0.21
15	10/1/2014	0.14
15	11/1/2014	0.05
15	12/1/2014	0.06
15	1/1/2015	0.28
15	2/1/2015	0.14
15	3/1/2015	0.13
15,16	4/1/2015	0.07
16	5/1/2015	0.12
16	6/1/2015	0
16	7/1/2015	0.05
16	8/1/2015	0
16	9/1/2015	0.08
16	10/1/2015	0
16	11/1/2015	0.04
16	12/1/2015	0.08
16	1/1/2016	0.1
16	2/1/2016	0.16
16,17	3/1/2016	0.19
16,17	4/1/2016	0.07
17	5/1/2016	0.05
17	6/1/2016	0.3
17	7/1/2016	0.28
17	8/1/2016	0.42
17	9/1/2016	0.15
17	10/1/2016	0.2
17	11/1/2016	0.26
17	12/1/2016	0.11
17	1/1/2017	0.25
17	2/1/2017	0.68
17	3/1/2017	0.22
17	4/1/2017	0.23
17	5/1/2017	0.28
17	6/1/2017	0.33
17	7/1/2017	0.24
17	8/1/2017	0

Stack Report Completed

**View** Data Tbl Print

## Options Panel

**TIS Matrices** **Charts**

Stack ▾

Reset Save All

**Chart Print/Save Mode**

Full Report

Chart Only

**Year(s)**

All 2017 2016 2015 2014 2013

**Statistics**

R/1000

**Logic**

Corporate

All Rows

Selected Rows

No Rows View Checked

### Report Specific Selections

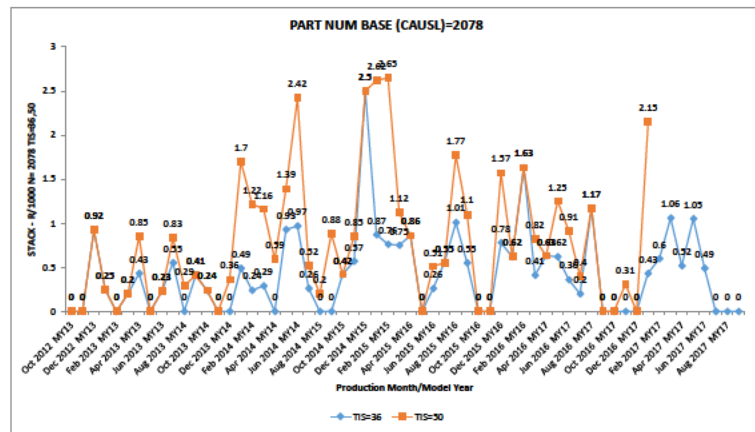
Common Scale



Order By = Part Num Base (Causal)  
TIS Rows Selected = All  
YTD Column Only = No  
Minimum Divisor = 1  
Logic = Corp  
Cost Type = Total Cost Gross

Stack Chart

Print Date: 24 May 2021    Logic: Corporate    Cutoff Date: 30 Apr 2021    Request Name: MKZ BRAKE HOSE TIS  
 PrintTime: 10:43    TIS: ALL    Min Divisor: 100    Result ID: RLR70R76  
 Statistic: R/1000    Y Value[s]: 2078 @ TIS=36,50  
 Model Years: 2017,2016,2015,2014,2013  
 Uniques: PART NUM BASE (CAUSL)=2078



Model	Year	MO	TIS-36	TIS-50
13	10/1/2012	0	0	0
13	11/1/2012	0	0	0
13	12/1/2012	0.92	0.92	0
13	1/1/2013	0.25	0.25	0
13	2/1/2013	0	0	0
13	3/1/2013	0.2	0.2	0
13	4/1/2013	0.43	0.85	0
13	5/1/2013	0	0	0
13	6/1/2013	0.23	0.23	0
13,14	7/1/2013	0.55	0.83	0
14	8/1/2013	0	0.29	0
14	9/1/2013	0.41	0.41	0
14	10/1/2013	0.24	0.24	0
14	11/1/2013	0	0	0
14	12/1/2013	0	0.36	0
14	1/1/2014	0.49	1.7	0
14	2/1/2014	0.24	1.22	0
14	3/1/2014	0.29	1.16	0
14	4/1/2014	0	0.59	0
14	5/1/2014	0.93	1.39	0
14	6/1/2014	0.97	2.42	0
15	7/1/2014	0.26	0.52	0
15	8/1/2014	0	0.2	0
15	9/1/2014	0	0.88	0
15	10/1/2014	0.42	0.42	0
15	11/1/2014	0.57	0.85	0
15	12/1/2014	2.5	2.5	0
15	1/1/2015	0.87	2.62	0
15	2/1/2015	0.76	2.65	0
15	3/1/2015	0.75	1.12	0
16	4/1/2015	0.86	0.86	0
16	5/1/2015	0	0	0
16	6/1/2015	0.26	0.51	0
16	7/1/2015	0.55	0.55	0
16	8/1/2015	1.01	1.77	0
16	9/1/2015	0.55	1.1	0
16	10/1/2015	0	0	0
16	11/1/2015	0	0	0
16	12/1/2015	0.78	1.57	0
16	1/1/2016	0.62	0.62	0
16	2/1/2016	1.63	1.63	0
16,17	3/1/2016	0.41	0.82	0
17	4/1/2016	0.63	0.63	0
17	5/1/2016	0.82	1.25	0
17	6/1/2016	0.36	0.91	0
17	7/1/2016	0.2	0.4	0
17	8/1/2016	1.17	1.17	0
17	9/1/2016	0	0	0
17	10/1/2016	0	0	0
17	11/1/2016	0	0.31	0
17	12/1/2016	0	0	0
17	1/1/2017	0.43	2.15	0
17	2/1/2017	0.6	0	0
17	3/1/2017	1.06	0	0
17	4/1/2017	0.52	0	0
17	5/1/2017	1.05	0	0
17	6/1/2017	0.49	0	0
17	7/1/2017	0	0	0
17	8/1/2017	0	0	0
17	9/1/2017	0	0	0