<< File: 2011 thru 2014 Explorer Alleged Leak at Jounce Hose Comm Symp search from CDR on 07232014.xlsx >>

Steve Matthews Product Concern Analyst Automotive Safety Office

Sent:

Thursday, April 12, 2012 6:37 PM

To:

Subject:

FW: Brake Hoses

Pictures of the ZF tool.

From:

Sent: Tuesday, April 03, 2012 11:33 AM

To:

Subject: FW: Brake Hoses

See Sergio's explanation below.

Senior Manufacturing Engineer ZF Lemforder

Chicago IL

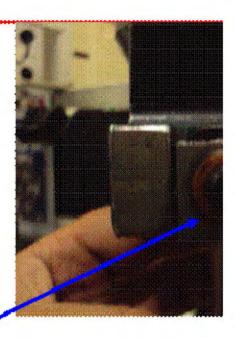
From:

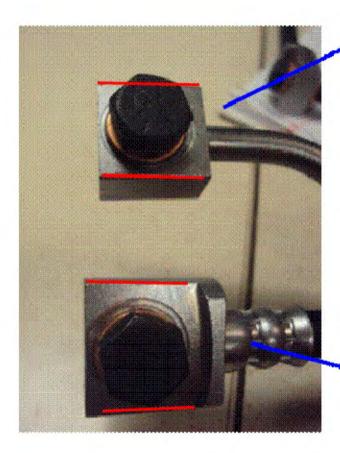
Sent: Tuesday, April 03, 2012 11:06 AM

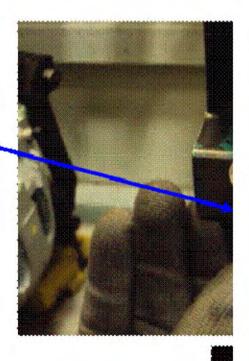
To:

Subject: RE: Brake Hoses

The picture below describes my issue. The top portion of the pictures shows the current production brake hose. The lower portion shows the bottom portion of the new brake hose.







Sent: Tuesday, April 03, 2012 9:54 AM

To Subject: Brake Hoses

Attached are the hose drawings for the ole & new versions. Per my earlier voicemail I checked the dimensions of the brackets and they all appear to be the same so what was the issue with the brackets not fitting the poke yoke check fixture?



Sent:

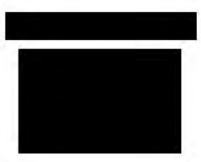
Friday, May 08, 2015 2:42 PM

To:

Subject: Attachments:

005.jpg; 006.jpg; 007.jpg

Photo of the latest incident from the Sacramento PD training fleet.



From:

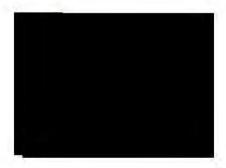
Sent: Thursday, May 07, 2015 3:42 PM

To:

Subject: RE: Contact Information

I'll get the information for those 2. We just had another failure on a 2015 UV. Pictures are attached with VIN.

Thank you,





From

**Sent:** Thursday, May 07, 2015 12:28 PM

To: Subject: RE: Contact Information
Steve,
Here's another one (1FM5KAR6FG

Patrick M. Culkeen



From

Sent: Thursday, May 07, 2015 3:26 PM

10:

Subject: RE: Contact Information

Steve,

Thank you very much for providing the VINs for all of the Explorer Police Interceptors in your fleet. One of the VINs, 1FM5KAR8FG appears to be missing a digit (Ford uses a 17 digit VIN.) Any assistance you can provide is greatly appreciated.

Patrick M. Culkeen



From:

Sent: Mouday ADDI 77 7013 120 PM

To:

Subject: RE: Contact Information

Please see the attached list.

Thank you,

City of Sacramento Fleet Management



Sent: Monday, April 27, 2015 9:38 AM

To:

Subject: RE: Contact Information

First, I would like to thank you and the rest of your team for making our Thursday afternoon meeting so productive. The photographs and videos are very instructive and will assist in our analysis of this issue. We are working across several departments to facilitate swapping out front brake jounce hoses on the other test vehicles and will keep you abreast as information becomes available.

I have one favor to ask. Would you happen to have a list of all the VINs for your 2014 – 2015 Ford Explorer Police Interceptors. We would like to compare any trends we may find in our analysis versus production dates for your vehicles. Thank you very much for your assistance.

#### Patrick M. Culkeen



From:

Sent: Thursday, April 23, 2015 3:55 PM

To:

Subject: RE: Contact Information

Accident avoidance.

Thank you,





Sent: Thursday, April 23, 2015 12:52 PM

To: Steve Barker

Subject: RE: Contact Information

Thank you very much. I can display these during our meeting.

Patrick M. Culkeen

Ford Motor Company

From:

Sent: Thursday, April 23, 2015 3:47 PM

To:

Subject: RE: Contact Information

Pictures of one of the vehicles the brake line separated on.

Thank you,





From:

Sent: Tuesday, April 21, 2015 12:48 PM

To: Subject: RE: Contact Information

Thanks much, I'll see what I can do to get the troops together.

#### Patrick M. Culkeen



From:

Sent: Tuesday, April 21, 2015 3:45 PM

To: Cc:

Subject: RE: Contact Information

Thursday, 11:30 or later will work.

Thank you,



From:

Sent: Tuesday April 21, 2015 9:36 AM

To:

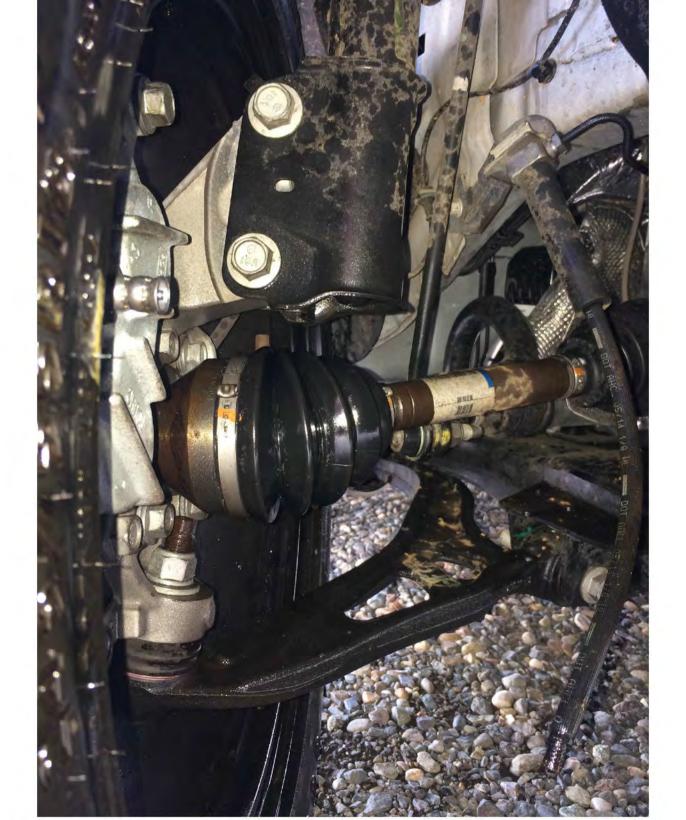
Subject: Contact Information

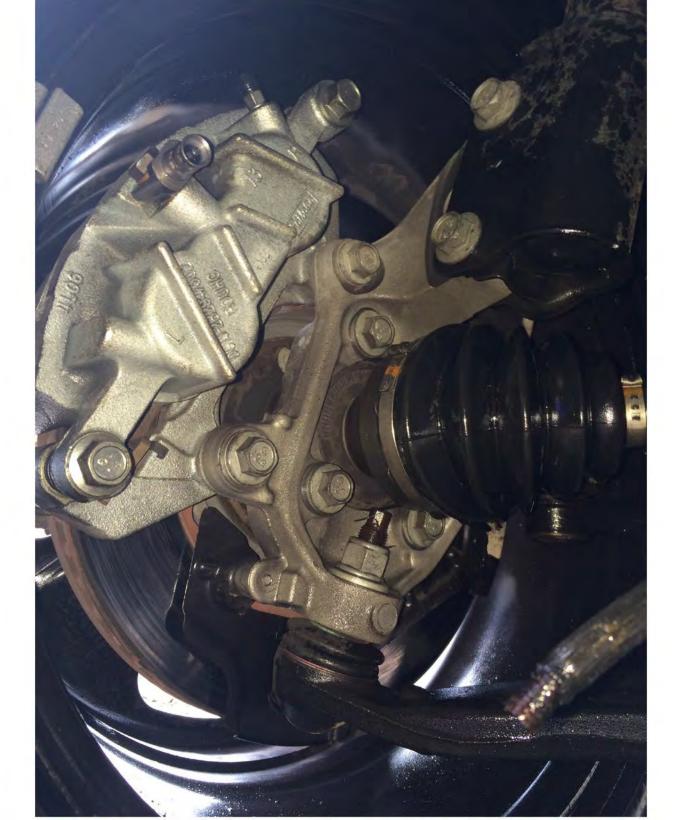
Steve,

I have enclosed my contact information to assist with scheduling our meeting.









Sent:

Friday, April 24, 2015 12:04 PM

To:

Subject:

Attachments:

Photo 2JPG; Photo 1JPG



From:

Sent: Thursday, April 23, 2015 3:47 PM

To:

Subject: RE: Contact Information

Pictures of one of the vehicles the brake line separated on.

Thank you,





From:

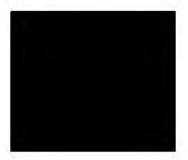
Sent: Tuesday, April 21, 2015 12:48 PM

To:

Subject: RE: Contact Information

Steve,

Thanks much, I'll see what I can do to get the troops together.



From:

Sent: Tuesday, April 21, 2015 3:45 PM

To:

Subject: RE: Contact Information

Thursday, 11:30 or later will work.

Thank you,





From:

Sent: Tuesday, April 21, 2015 9:36 AM

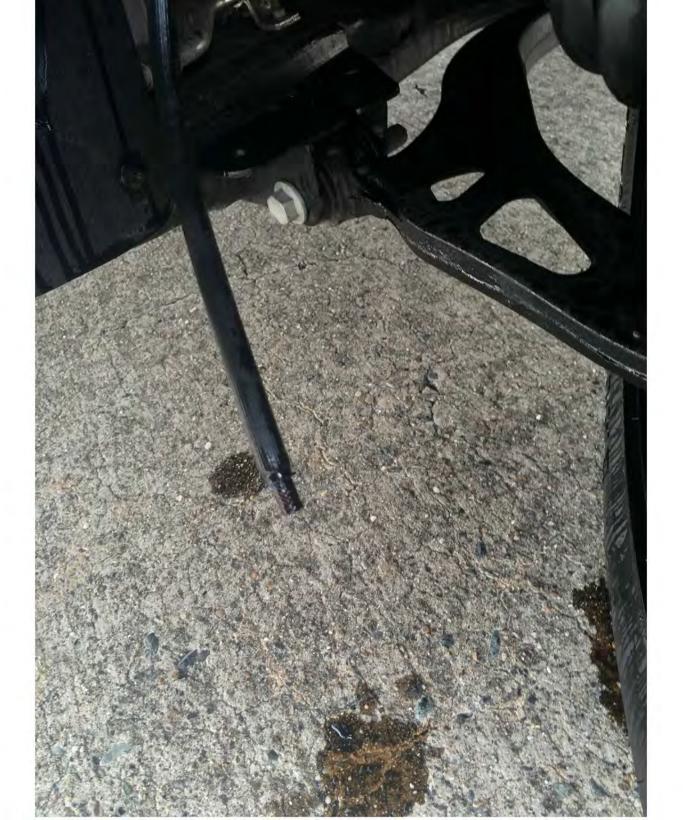
To

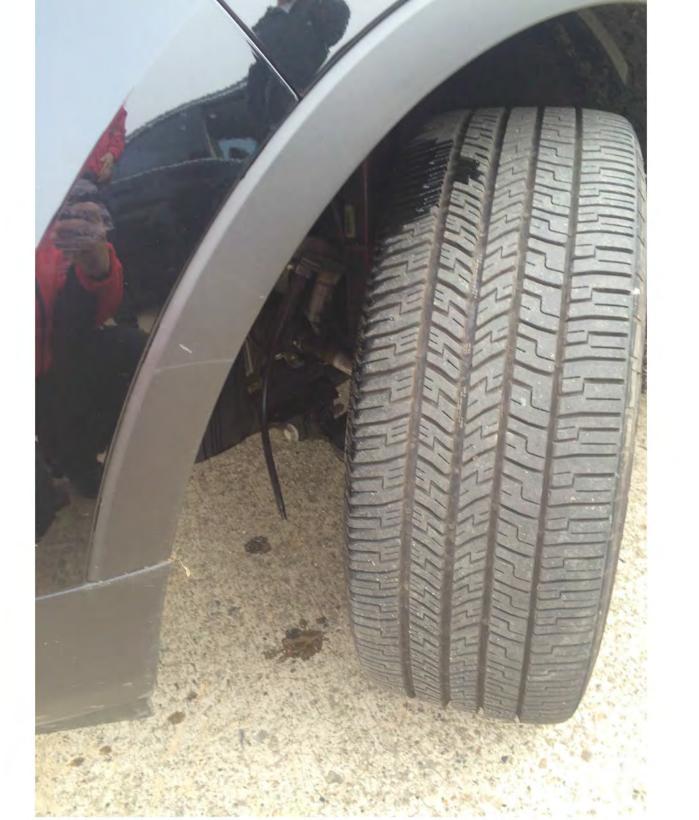
Subject: Contact Information

Steve,

I have enclosed my contact information to assist with scheduling our meeting.







**Sent:** Wednesday, May 06, 2015 5:26 PM

To:

Subject:

Attachments: Controlled Broking Eversion with Collision /

Attachments:

Controlled Braking Exercise.pdf; Collision Avoidance Exercise.pdf; Pursuit Driving

Exercise.pdf

Here are the written description of the training that is done.



sor, V363, D258, D385, D47X, U502, Econoline, CD6

From

Sent: Wednesday, May 06, 2015 12:41 PM

To

Subject: FW: EVOC



Per this morning's discussion, I have received the evasive maneuver descriptions from the Sacramento PD. In the event we want to replicate their setups, these files provide full descriptions.



From

Sent: Tuesday, May 05, 2015 6:02 PM

To

Subject: FW: EVOC



The EVOC images did not attach the first time. Here it is again.

Sgt. Don Crye

# **Controlled Braking Exercise**

PRIOR TO OPERATION OF THIS TRAINING EXERCISE THE INSTRUCTOR STAFF SHOULD REVIEW THE POST SAFETY GÜIDELINES FOR DRIVER TRAINING.

#### Materials Needed

· Law enforcement training vehicle(s).

Thirty 18" traffic cones and sixteen 48" delineators.

- · Cones.
- Delineators.
- Three (3) traffic signal lights (optional)
- · Light control box (optional).
- · Trip device (optional).

Instructor's Note: In lieu of the traffic lights, you may ride with the student and give voice commands or use a radio and call directions.

#### Goal

To teach the student to properly brake a vehicle in a turning maneuver and come to a complete stop within the imposed boundaries.

### **Objectives**

- To allow the student to experience the effect of the forces at work on a rapidly decelerating vehicle in a turning maneuver; especially excessive weight transfer.
- To demonstrate loss of steering ability (loss of rolling friction) should brake lock-up occur in a non-ABS equipped vehicle:
- To allow the student to gain proficiency in properly braking a vehicle under emergency conditions.

#### Introduction

Drives of emergency vehicles will engage in emergency driving situations. These situations will include turning maneuvers as well as straight line driving and reaction to changing situations.

Proper vehicle control may require straight line braking prior to entering a turn.

Straight line braking may not always be possible based on circumstances confronting the driver.

This exercise is designed to present the student with this type of situation and develop those skills necessary for proper vehicle control.

## **Course Description**

The course is on a level, paved area approximately 613' x 46'. It consists of:

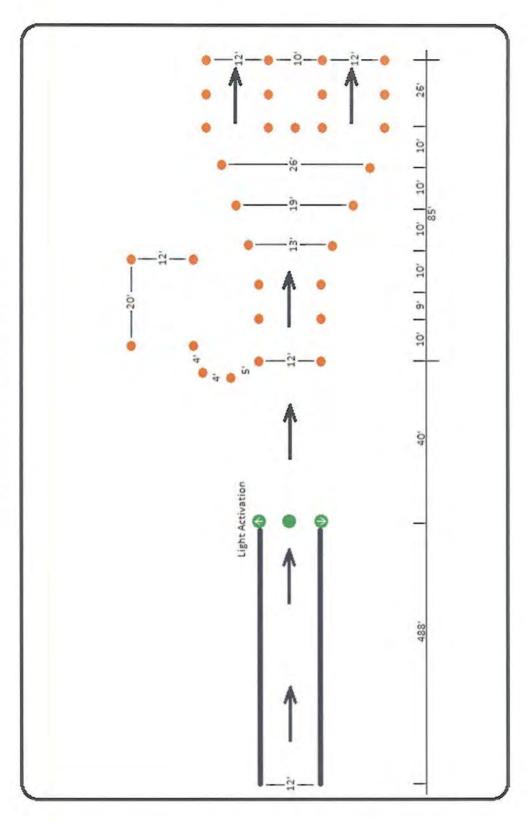
A 488-foot starting and acceleration area.

Single approach lane that is 12 feet wide and 59 feet long.

A lane change zone that widens to 34 feet wide and 40 feet in length.

Two traffic lanes, each 12 feet wide and 26 feet in length, separated by a 10 foot wide lane that is blocked by cones.

CHAPTER FOURTEEN 269



CHAPTER FOURTEEN 270

## Procedure to drive course;

The student will drive the exercise at the following speeds:

40 mph

45 mph

50 mph

The student will accelerate up to the desired speed.

The speed will be maintained until reaching the light activation area.

The student will release the throttle, identify the location of the green light and steer the vehicle into the appropriate lane.

At the end of the approach lane the student will then steer the vehicle to the set of approach lanes. The student will bring the vehicle to a complete stop, utilizing threshold braking.

CHAPTER FOURTEEN 271

# Collision Avoidance Exercise

PRIOR TO OPERATION OF THIS TRAINING EXERCISE
THE INSTRUCTOR STAFF SHOULD REVIEW THE
POST SAFETY GUIDELINES FOR DRIVER TRAINING.

#### Materials Needed

Law enforcement training vehicle(s).

Cones

. Delineators.

Three traffic lights (optional)

Light control box (optional)

- Trip device (optional)

Instructor's Note: In lieu of the traffic lights, you may ride with the student and give voice commands or use a radio and call directions.

#### Goal

The student is taught to control a vehicle smoothly, into an evasive maneuver, to avoid an obstacle rather than braking and skidding out of control.

### **Objectives**

- To test driver's reaction and coordination of physical movements.
- To point out hazards of quick turning movements, and/or improper use of brakes.
- To demonstrate weight transfer of a vehicle and the affect of steering control and proper throttle application.
- To emphasize that reaction distances increase as the speed of the vehicle increases.

# **Objectives**

To emphasize to the student that more steering is required as the speed increases.

To train the student in a method of avoiding a traffic collision other than an emergency stop.

## Introduction

Drivers of emergency vehicles are frequently required to execute quick turning movements of lane changes. It is imperative that they have knowledge of their personal reaction time at given speeds and know the vehicle's limitations. The collision avoidance exercise is designed to simulate an obstacle on a highway requiring the driver approaching the obstacle to quickly and carefully change lanes to avoid a collision.

## **Course Description**

The course is on a level, paved area approximately 665' x 48'. It consists of:

A 310-foot starting and acceleration area.

Four approach lanes that are 12 feet wide and 30 feet long.

A second lane change zone that is 75 feet long and 48 feet wide.

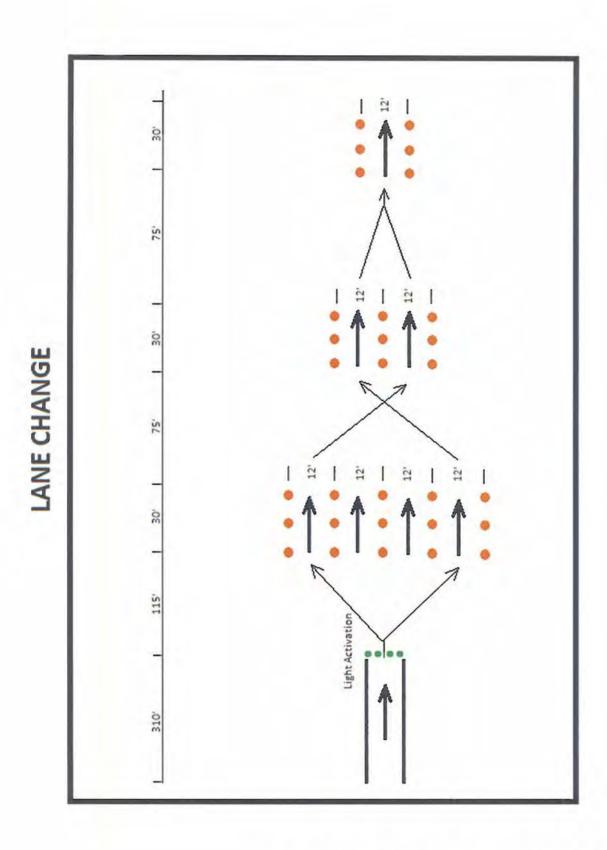
A set of 2 recovery lanes that each 12 feet wide and 30 feet in length.

A third lane change zone that is 75 feet long and 24 feet wide.

A final single braking lane that is 12 feet wide and 30 feet in length.

The traffic lanes are lined with cones.

#### CHAPTER FOURTEEN 273



CHAPTER FOURTEEN 274

# Procedure to drive course;

The student will drive the exercise at the following speeds:

40 mph

45 mph

50 mph

The student will accelerate up to the desired speed.

The speed will be maintained until reaching the light activation area.

The student will release the throttle, identify the location of the green light and steer the vehicle into the appropriate lane.

At the end of the four approach lanes the student will then steer the vehicle to the next set of approach lanes and enter the opposite lane.

The student will then enter the final lane of travel and bring the vehicle to a complete stop, utilizing threshold braking.

# City Street Hazard Complex Exercise (Pursuit Driving)

PRIOR TO OPERATION OF THIS TRAINING EXERCISE THE INSTRUCTOR STAFF SHOULD REVIEW THE POST SAFETY GUIDELINES FOR DRIVER TRAINING.

### Materials Needed

- One law enforcement training vehicle (with radio communication).
- Suspect vehicle (marked or unmarked law enforcement training vehicle).
- Two or more "citizen" vehicles (marked or unmarked law enforcement training vehicle).
- · Cones and delineators.
- · Safety helmets.

#### Goal

- The student will experience the difficulty of pursuing a suspect while maintaining control of their vehicle, being alert to hazards and managing the affects of siren syndrome.
- The student will demonstrate the ability to drive and communicate over the radio when appropriate.

## **Objectives**

 The student will learn how to pursue a suspect while maintaining proper distance, throttle, braking and steering techniques, and be able to recognize hazards during the pursuit and react accordingly.

# Objectives (continued)

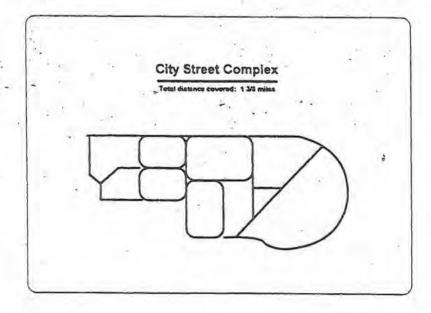
 The student will be introduced to the stresses involved in pursuit situations, and learn to safely control the vehicle.

#### Introduction

- This exercise is used to demonstrate the inherent difficulty and danger of a pursuit as well as to teach techniques which will improve the student's driving ability.
- The exercise relates to real job performance in that it is something that law enforcement officers may experience.

## Course Description

• The pursuit course covers an area 1,200 feet long and 750 feet wide. The course consists of simulated streets which are marked by traffic cones and old automobile tires. Street widths vary from 20 to 40 feet. The course contains all types of curves and intersections. The course is paved with asphalt.



The course is
equipped with radio
check points in the
form of number
signs mounted on
delineators,
strategically located
about the area.

#### Procedure to Drive Course

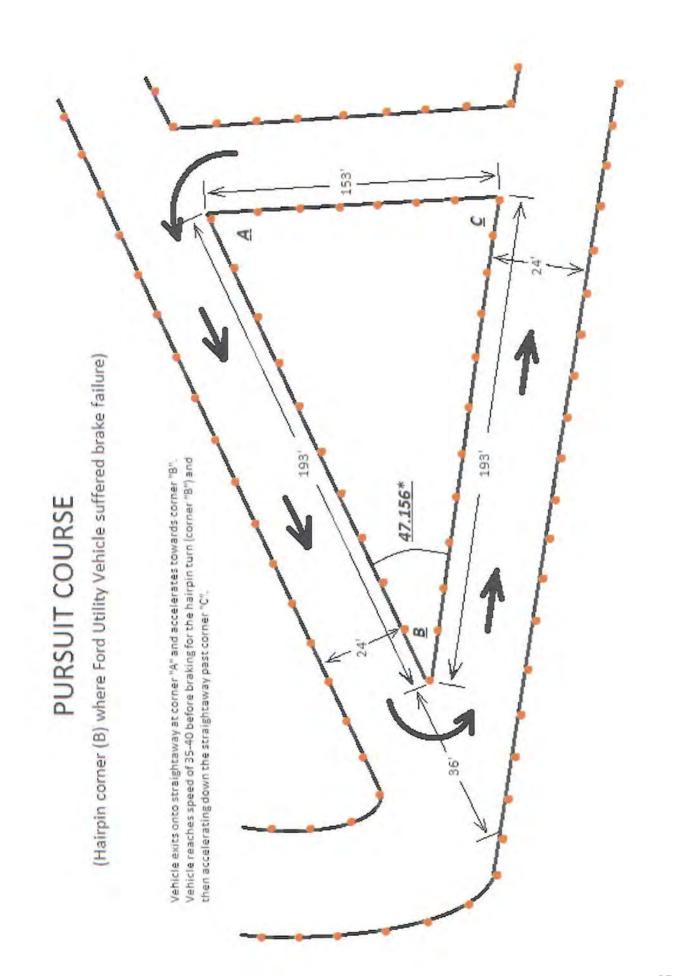
- Two law enforcement training vehicles are utilized, both having special safety equipment, including roll bars. Students and instructors will wear safety helmets and be secured by the use of safety belts and shoulder harnesses.
- One instructor plays the role of the "suspect" with a student as a passenger in one of the training vehicles.
   A second instructor will be the passenger in the other vehicle with a student as the driver.
- The student who is driving and is in pursuit of the "suspect" vehicle will be required to effectively operate the vehicle's emergency equipment and broadcast at radio check points.
- Should the student experience any difficulty, the passenger/instructor will have some control of the vehicle through the use of the auxiliary brake and ignition kill switch.

### Demonstration Phase

The students will be given an on-site explanation of the course and procedures utilized to drive the exercise.

#### Practical Application Phase

- The student will engage in both a practice and an evaluated pursuit.
- The route used is preplanned and is the same for each student.
- The student will pursue the instructor-driven vehicle utilizing the prescribed driving techniques.
- During this exercise, the student will be required to make radio transmissions while driving the vehicle.



Sent:

Wednesday, April 22, 2015 12:35 PM

To:

Subject:

FW: Explorer PI Brakelines



r, V363, D258, D385, D47X, U502, Econoline, CD6

From:

Sent: Tuesday, April 21, 2015 8:17 AM

To:

Subject: Explorer PI Brakelines

This was sent over to me last night, so this is pretty much all I know. I did see a warranty claim on the first VIN listed. Apparently the fleet has been in contact with Randy Freiburger. Can you follow up to see what we can learn about these. Not sure it was included in the report, but apparently the failures have occurred at the training facility. I believe both vehicles listed are 2015 MY.



ODI 10705832 narrative: TL\* THE CONTACT OWNS A 2015 FORD EXPLORER. THE CONTACT STATED THAT THE BRAKE LINE ON THE FRONT PASSENGER AND FRONT DRIVER SIDE FRACTURED. THE VEHICLE WAS TOWED TO A DEALER WHO DIAGNOSED THAT THE FRONT BRAKE LINE NEEDED TO BE REPLACED. AN AUTHORIZED DEALER REPLACED THE FRONT DRIVER AND PASSENGER SIDE BRAKE LINES. THE VEHICLE WAS REPAIRED. THE MANUFACTURER WAS NOTIFIED OF THE FAILURE. THE FAILURE MILEAGE WAS NOT AVAILABLE.

Telephone / email follow-up established that this and another vehicle are police interceptor utilities in the Sacramento City police fleet

1FM5K8AR5FG 1FM5K8AR7FG

A third vehicle belonging to Sacramento Regional Transit was also cited but no VIN provided.

Three failures were reported to us in which the rubber front brake line pulls out of its metal end fitting after a hard maneuver (full steer angle and full front suspension extension). The three failures have all been during full lock steering on closed training courses- the Accident Avoidance maneuver and a pursuit maneuver.

The complainant advised that the flexible line looks too short to accommodate full steer input and suspension travel in harsh maneuvers.

He also advised of having spoken to Ford (no details) and having learned that other police fleets were seeing this too. The Ford POC given is Randy Freiburger with Ford on 313-805-3709

**Sent:** Wednesday, May 06, 2015 3:53 PM

To:

Subject:

FW: Jounce Hose

#### Sincerely.



From:

Sent: Wednesday, May 06, 2015 11:52 AM

To: Cc:

Subject: RE: Jounce Hose

No. Tom Bliznick did not have enough time to complete anything.

Tom Castaldi was over yesterday and measured the hose lengths and crimp diameter and arrived at the same numbers as Tom. Tom Castaldi is going to send us reports from the last issue to see if there are any similarities. We gave the hoses to him for your meeting today. We expect Hitachi to produce the report since many of the requirements are theirs – crimp diameter.

## Regards,



From:

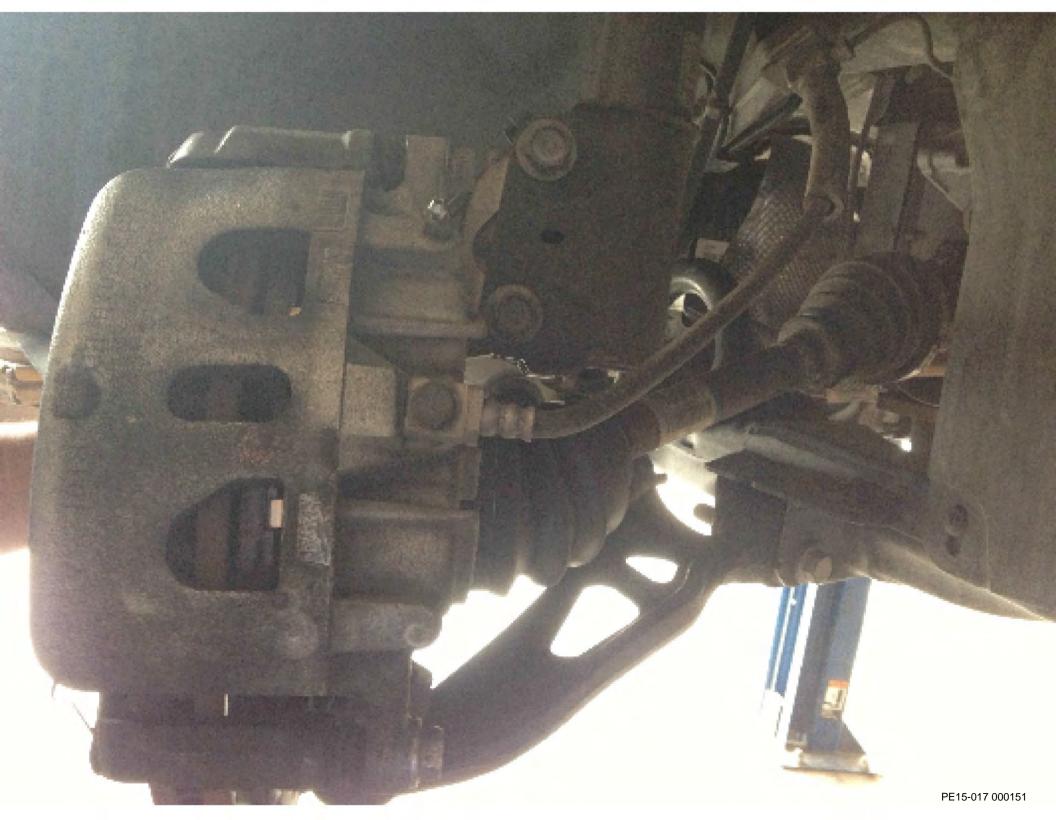
Sent: Wednesday, May 06, 2015 10:28 AM

To:

Subject: Jounce Hose

Do we have an official report of the jounce hoses that you are going to be sending over?







In 2 packages are replacement jounce hoses for the City of Sacramento Police Utility training units. Jocelyn Dunning is going to be working with you to arrange the replacement. Once the parts are replaced can you send the old parts back to me at the address below? It would be helpful if the VIN of the unit was included.

#### Sincerely,



		· FCSO REP IN CALIFY DUNNING  SOUTHN ??
		1
		· CAPT DON DAVIS - MANNING DIVISION
		, POINT CONTACT Steve BANCER
		2015 MY Explorers
		* 2 Hoses coming back
		· 2 UEHICLES ARE 3.7L V6 GAS
		· 3 TOTAL UFHICLES
		* Accident AvaidANCE MANONER
_		· ledal WENT TO Floor
-		· No bruke warning light
		· JAN 2015 threshold braking (sough)
		· Same symptoms as above
	9-	USE of 16 to stop vehicle
		- MARCh 2015
	~	· CORNORING EXERCISE
	,	35-45 uph \$
_	_	· GRAKE TO Floor
_		· All 3 CASES hose SETACH from ColipEn side
		All Life (driver side)
-		
		· Claim is host would not reach when Afferptions to
		RE INSENT OFOSE INTO Black with Stepens AT lack
		All fest to NOT EXCED SOMPH
		" VEHICLE AME EMUNDED (3 IN SERVICE)
		25 MORE IN PROCESS.  [27 Cola ( VEHICLES)
		(C) WHICLES)

### Sacramento questions:

- 1. What order are the various courses run?
- 2. Are there actual dimensions for the entire Pursuit course layout?
- 3. How many laps per driver (all courses)?
- 4. Estimate time needed to complete each course?
- 5. Driver rotation, how long does the car sit idle (soak) between sessions?
- 6. Estimated speeds at braking points on the pursuit course.
  - 7. Is there more than the three described courses run on each vehicle?
  - 8. Do the vehicles have any extra weight in them?
  - 9. What modifications have been performed after receiving them from the dealer?
  - 10. What condition do the brake rotors and pads insulators look like after these events?
  - 11. Do the brakes appear to get very hot or experience any fade during these events? If so what events does this occur on and what is the frequency?

1) 2 day TRAINING

157\_ ACC Avoidance

158\_ ACC Avoidance

100 per to Usuph

100 perture deno twice up to Usuph

100 perture deno twice up

2nd - Puporit Instruction goes thru course Student Zitevice thru course 3-5 Min for course -vehicle goes to back of line is nin down time before next up Mar speed 45 Mph

- 2) Nothing spection 1/2 mile Round
- 3) Eay-MIN of 45 MIN Z drivers per vehicle
- 8) JUST ROLL MOGE, NO Added weight
- of NO mods to vehicle on training
- 10) TRAINING wehicle no bloing Wehicles have a Soomiles on them as of 5/13/15
- 14) Most FAR PALLURES OCCUR to during brakeng event

· vehicles have experienced multiple failures · chay training is about 10 miles per day Nick Drondsky - Shop Foreman - Harvold Ford 0: (916) 920-1535 ext 166/140 c: (916) 825-8 27 nick\_dravetsky@harvoldford.com

Doc Ponts

1) Nick how talked with Dean and will ship the parts bak
to Decuborn for analysis. Ford will pay for shipping
and will allow the claim to be paid without the paid
young to the warranty veturn center.

a) It looks like the subber portion of the hose has pulled out of the crimp on the caliper side (baija). As part of the repair, the techs have been adjusting the body side by cutting off the alignment both and twisting it just enough for line extension for a full look full down suspension condition.

WebEx w/Sacramento PD on 15 Explorer 4/23/15 Agenda i) Introductions a) Ford Pot Culkern ASO & Rebecca Shelley - ASO Randy Freiburger - Special Veh Eng Police Pelewillians PDBrakes Eng Scott Citter - PD Brike Eng b) Sacramento PD Stone Barker Fleshyr Capt Davis - Training Don Crye Dawn Stolarow Myr Fleet 2) Background a) Received a phone call from Eveg Magno-HiTTSA Early Warning regarding (3) 2015 My Ford Police Interceptor Explorers had experienced an issue with the front brake journe b) hast year, HtTSA had opened an investigation on Explorer
Police Interceptors for leaking brake hoses.

- The majority of the reports involved vehicles from
the Washington DC Metro Police Dept - Almost all the relicles were built in the first month of Production Parthe 2013 MY (Ment 12) - Ford introduced a new brate hose in 1 '12. 3) General Discussion Topics Vehicle types/ build meriths What is the usage of these vehicles What severe manenvers are performed Frequency

(Over)

3) (ontrued - What did drivers experience? Loss of function,	
- What did diviners experience? Loss of function, pedal drop; illuminated Red Brake hight? - How was the condition identified? - Had the Front brakes been serviced previously?	
	1
	/
	)

This condition has been observed on 3 vehicles

- 1- December 2014 Outside Agency (Rapid Transit?)
  Accident Averdance maneuver, two officers were in the car. The observed decreased brake function and brake pedal Fade. No Red Brake Light was illuminated
- 2 January 2015 Sacramente PD Threshold Braking Maneuver ~ 50 mph
- 3 Mourch 2015 Sacramento PD Cornering Pursuit maneuver ~ 35-40 mph Hear step hairpin turn

Officers observed the front brake hose detached from the baryo fitting (caliper Bnd). All detachments occurred on the driver's side.

Sacrament PD uses 5 metricles for training offices, who have to be evaluated regularly (annually?). There are 27 Explorer P.I's in their fleet.

The learn reviewed the videos of each maneuver and discussed speeds. Sacramento PD mentioned that it appeared that the base was not long enough in a static condition with the weight of the rehule on all four wheels.

PD wants to acquire the parts. We need to coordinate with Harvold Ford to service the relides guidly. Heed to contact Joseph Duning to assist up fants swap.

4/27/15
Eigeneuring Discussion Explorer Police Ful Brake Hores
1) Atkendees Pol Culter Pele Williams Randy Freiburger Mark Tureff Scott Cutter Joselyn Dunning
2) Background - CHB Prol + Down Bule Uma exportenced
- CHP Right Dear Brake Hose experienced a rupture. They sent pouts to been - Zide height sensor wiving contacted the
- Zide height sensor wiring contacted the
on the twin turbo Interceptor That is available
- What do we need:
i) (5) Sets of 12H& LH hoses
i) (5) Sets of 12H& LH hoses ii) Coordinate the replacement of parts to imminize downtime

## Discussion W/Sgt Crye

i) Another brake hose just failed.

- Braking Exercise 50 mph Very Little Lt Turn but RH bose let go at the caliper. Spontaneous failure, instructor driving. Pedal all the way to the floor. He did go of the course.

a) Operational Cycle for Training Vehicles
Pursuit training

Rabbit Car -> Same Car

Pursuit Car -> 100K miles Rotated

2 Days Every Week

1st Day 3 Maneurers

2nd Day Pursuit & Cornering Training

Cintian Training (City Employees)

Instructor Training - I Weeks, Twice A year

They only use 5 Explorers as trainers, they are
not used for any a/ the other training

They are regional tracks/courses

State of California Standards

- 4-5 Hrs of operation/per rehicle/per day

Avoidonnai & Brakery Badery / Brakery Placement Pursuit Course 2-Runs in Explorers, then pursuit

Brake pads changes are done

Flot, Asphalt Roads, well maintained (3) Braking (3) Avoidance (3) have Change Pursuit 2 Student/per

F	r	О	ľ	r	Ì	:

**Sent:** Tuesday, August 05, 2014 5:38 PM

To:

**Subject:** Police Explorer jounce hose

Outcome of the CCRG meeting is that I need to go back in 3 weeks. I had 3 follow up items that were requested.

- 1) MKT hose same as Explorer?
- 2) Any prior brake repairs done on the police units?
- 3) Rubber analysis done at central labs?

Thank You

Brake Supervisor, V363, B299, D258, D385, D47X, U502, Econoline, C489 FN3 – HS015

# Police Fleet VINS

VIN V1FM5K8AR0DG V1FM5K8AR1DG 1FM5K8AR0DG 1FM5K8ARXDG .1FM5K8ARXDG .1FM5K8AR7DG 1FM5K8AR7DG 1FM5K8AR7DG	pounce hose stretch  at jounce hose 2 hour (1 hus, 16 has 1651/3351 at jounce hose - 2 hour (1 hus, 16 has 1651/3351 at jounce hose - NO AVS) cas out 1 hose split at jounce hose hose ho AVS 1 at jounce hose at jounce hose at jounce hose at jounce hose 1 at joun	NO AWS CLA
1FM5K8AR6DG 1FM5K8AR5DG 1FM5K8ARXDG	at jounce hose — No AWS at jounce hose — J Limis (1 AWS, 160015) 1 1 11 11	
EGREMUDS EGREMOU	Course VIVI	EGREMOOT. SI
EGREM OU	> SAME VIN	ELGRE MODS 7 V
	SAME REPORT DATE	IFM5K8ARTDG
		- 2 Diff mileage
	- 2 Diff milouise	42802 (007)
	45430 V 46525	16511 (008)
	- One had "hose split in it" our	+ One report LF
	other "bubble in hose" on	other RF
74	reports nique VINS	
. /		

Count of ECI Record ID Model Year	Source Code	Dealer Name	Source Claim Key
2013	GCQIS Ford	FORD MOTOR CO. FPSDGO FLT SVC	EFQCB003
			EGREM002
			EGREM003
			EGREM004
			EGREM005
			EGREM006
			EGREM007
			EGREM008
			EGREM009
			EGREM010
			EGREM011
		FORD MOTOR CO.	
		FPSDGO FLT SVC	
		Total	
	GCQIS Ford Total		
2013 Total			
Grand Total			

I hose split

Jounce hose Stretch

J & bungo boot

J bulge in hose

J at joune hose fitting

J at joune hose

From:

Sent:

To: Subject: Monday, May 11, 2015 5:14 PM

Questions

Here is a list of questions so far please feel free to add to it.



Sacramento questions docx



Foundation Brake Engineering: Explorer/Taurus Police Programs D/U Retail Programs D47X Limo Programs H-567 Programs Transit Programs





### Sacramento questions:

- 1. What order are the various courses run?
- 2. Are there actual dimensions for the entire Pursuit course layout?
- 3. How many laps per driver (all courses)?
- 4. Estimate time needed to complete each course?
- 5. Driver rotation, how long does the car sit idle (soak) between sessions?
- 6. Estimated speeds at braking points on the pursuit course.
- 7. Is there more than the three described courses run on each vehicle?
- 8. Do the vehicles have any extra weight in them?
- 9. What modifications have been performed after receiving them from the dealer?
- 10. What condition do the brake rotors and pads insulators look like after these events?
- 11. Do the brakes appear to get very hot or experience any fade during these events? If so what events does this occur on and what is the frequency?





From:

Sent: Thursday, November 07, 2013 8:24 PM

To:

Subject:

RE: (No Subject)

No to all the only thing I can say is it had track time prior to this test, will bring the parts home for root cause analysis we will owe them an answer ASAP



From:

Sent: Thursday, November 07, 2013 03:18 PM Eastern Standard Time

To: (W.R.)

Subject: RE: (No Subject)

Were the temps high or a different failure mode? Are the hoses typically replaced prior to an event?

Brake Supervisor, V363, B299, D258, D385, D47X, U502, Econoline, C489 FN3 – HS015

From

Sent: Thursday, November 07, 2013 3:04 PM

To:

Subject: FW: (No Subject)

We just failed a brake hose on the utility during the cert, we are scrambling to find one to finish the event nod good news or press Ecoboost explorer

Chassis Foundation Brake Engineering -----Original Message-----

From:

Sent: Thursday, November 07, 2013 02:58 PM Eastern Standard Time

To: Subject:

From:

Sent: Saturday, January 14, 2012 8:35 PM

To:

C (IVI.C.)

Subject:

RE: 2013 U502 Jounce Results

Sensitivity:

Private

Follow Up Flag:

Follow up

Flag Status:

Flagged

Categories:

Yellow Category

We should perform CAD check on tire composite "paddle" that is used for jounce/rebound study for current and 2013 J2 18" brake for U502 to make sure our D-car paddle covers the extremes on all tire sizes.

----Original Appointment----

From

Sent: Friday, January 13, 2012 3:38 PM Subject: 2013 U502 Jounce Results

When: Saturday, January 14, 2012 5:00 PM-6:00 PM (GMT-05:00) Eastern Time (US & Canada).

Where: Telecon Sensitivity: Private

From:	
Sent:	Tuesday, April 21, 2015 3:40 PM
To:	
Subject:	RE: 2015 Ford Explorer Police Interceptor
Interceptor UV	
Original Appointm	ent
From: Sent: Tuesday, April .	21 2015 9:45 AM
To:	21, 2015 8:45 AM
	explorer Police Interceptor
When: Tuesday, April Where: Webex	I 21, 2015 11:30 AM-12:00 PM (UTC-05:00) Eastern Time (US & Canada).
	g of this meeting. The purpose is to discuss contacts with the Sacramento Police Department on ormance. If this time does not work for you, please recommend an alternate.
Patrick Culkeen invite	s you to the following WebEx meeting:
WebEx meeting inform	mation
Meeting Link	
Meeting Number:	
	nis meeting does not require a password.
This meeting may incl video click here:	ude the option for video. The recording of meetings is prohibited. For company policies on using
https://comm.sp.ford	.com/sites/digitalworker/Pages/HowiWorkItem.aspx?UCTitle=to%20use%20Video&UCID=&Page=
2&Section=2.001	
Audio conference info	ormation
FordNet	
US Toll F	
	in? Try these backup numbers:
US Toll FordNet	
	s: https://ford.webex.com/ford/globalcallin.php?serviceType=MC&ED=382947137&tollFree=1

Toll-free dialing restrictions: http://www.webex.com/pdf/tollfree\_restrictions.pdf