Certified Advanced 208-Compliant Vehicle Investigation / Vehicle to Vehicle
Dynamic Science, Inc. / Case Number: 2004-75-046G
2004 Ford F150 pickup
Colorado
April, 2004

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The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points be coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the pre-crash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.

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This remote investigation focused on the Certified Advanced 208-Compliant (CAC) air bag system in a 2004 Ford F150. The case vehicle was being driven by a restrained 29-year-old male. The case vehicle was traveling northbound in the left hand turn lane and was attempting to make a left turn to go west. The case vehicle was struck in the right side by a 2000 Chevrolet Suburban that was traveling southbound. The Ford F150 was then pushed laterally in a southwest direction until the left side of the F150 struck the front of a stopped Ford Explorer. The Ford Explorer was then pushed into a stopped Toyota Camry. The driver of the Ford F150 sustained a minor knee injury. All four vehicles came to rest in the western leg of the intersection. The Ford F150, the Ford Explorer, and the Suburban were towed from the scene. The Camry sustained moderate damage to the front end but was driven from the scene.					
This CAC Vehicle Investigation was identified by the local National Automobile Sampling System (NASS) Primary Sampling Unit (PSU). A CAC vehicle is certified by the manufacturer to be compliant to the Advanced Air Bag portion of Federal Motor Vehicle Safety Standard (FMVSS) No. 208. The case was reported to DSI on May 6, 2004 This was an SCI/NASS combination case.					
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#### **BACKGROUND**

## **Description**

This remote investigation focused on the Certified Advanced 208-Compliant (CAC) air bag system in a 2004 Ford F150. A CAC vehicle is certified by the manufacturer to be compliant to the Advanced Air Bag portion of Federal Motor Vehicle Safety Standard (FMVSS) No. 208. The case vehicle was being driven by a restrained 29-year-old male. The case vehicle was traveling northbound in the left hand turn lane and was attempting to make a left turn to go west. The case vehicle was struck in the right side by a 2000 Chevrolet Suburban that was traveling southbound. The Ford F150 was



Figure 1. Case vehicle, 2004 Ford F150

then pushed laterally in a southwest direction until the left side of the F150 struck the front of a stopped Ford Explorer. The Ford Explorer was then pushed into a stopped Toyota Camry. The driver of the Ford F150 sustained a minor knee injury. All four vehicles came to rest in the western leg of the intersection. The Ford F150, the Ford Explorer, and the Suburban were towed from the scene. The Camry sustained moderate damage to the front end but was driven from the scene.

This CAC Vehicle Investigation was identified by the local National Automobile Sampling System (NASS) Primary Sampling Unit (PSU). The case was reported to DSI on May 6, 2004 This was an SCI/NASS combination case.

## **SUMMARY**

### **Crash Site**

This was a four vehicle collision. The crash occurred in April, 2004 at 1522 hours in the state of Colorado. The crash occurred within the confines of a four-leg intersection. The northern leg of the intersection is comprised of three southbound travel lanes, a westbound turn lane, and three northbound travel lanes. The southern leg of the intersection is comprised of three northbound travel lanes, a westbound turn lane, and three southbound travel lanes. The north and southbound travel lanes are separated by raised curb medians. The western leg of the intersection is comprised of a single westbound travel lane

Figure 2. Approach and two eastbound travel lanes. All the roadways



**Figure 2**. Approach for case vehicle, north (2004 Ford F150)

were dry and level. The speed limit for north and southbound travel was 56 km/h (35 mph).

#### **Pre-Crash**

The case vehicle is a 2004 Ford F150 Heritage 4x4 regular cab pickup (VIN: 2FTRF18W54Cxxxxxx). The case vehicle was being driven by a restrained 29-year-old male (183 cm/72 in, 91 kg/201 lbs). The case vehicle was traveling northbound in the left hand turn lane and was attempting to make a left turn to go west.

The first other vehicle is a 2000 Chevrolet Suburban 4x4 four-door sport utility vehicle (VIN: 3GNFK16T1YGxxxxxx). This vehicle was being driven by a lap and shoulder belt restrained 43-year-old female (173 cm/68 in, 59 kg/130 lbs). The Suburban was traveling southbound in the middle lane approaching the intersection.

The second other vehicle is a 2002 Ford Explorer XLT 4x4 four-door sport utility vehicle (VIN: 1FMZU73K42Zxxxxxx). This vehicle was being driven by a 53-year-old female (163 cm/64 in, 63 kg/139 lbs). The Explorer was stopped at the intersection facing east.

The third other vehicle is a 1997 Toyota Camry four-door sedan (VIN: JT2BG22K1V0xxxxxx). This



Figure 3. Overview of eastbound trafficway



Figure 4. Approach to area of impact, south

vehicle was being driven by a 60-year-old male. The Camry was stopped behind the Explorer facing east.

### Crash

Prior to impact, the driver of the Ford F150 began making a left turn, intending to travel west. The driver of the southbound Suburban was unable to stop in time and struck the right side of the Ford F150 (02RZEW2). There was 118.0 cm (46.4 in) of direct contact that began 100.0 cm (39.4 in) forward. The maximum crush was located at C2 and measured 17.0 cm (6.7 in). The total velocity change as computed by the WinSmash program was 10.0 km/h (6.2 mph)¹. The longitudinal and lateral components were -3.4 km/h (-2.1 mph) and -9.4 km/h (-5.8 mph), respectively. The impact was moderate and resulted in the deployment of the frontal air bag system in the Ford F150. The EDR-reported longitudinal delta V was estimated to be -6.9 km/h (-3.7 mph)², 55 milliseconds into the crash.

<sup>&</sup>lt;sup>1</sup>WinSmash run added by SCI, borderline recontruction

<sup>&</sup>lt;sup>2</sup>Visual estimate based on delta V trace

The Ford F150 was then pushed laterally in a southwest direction until the left side (10LZEW3) of the F150 struck the front of the stopped Ford Explorer (11FLEE6). There was 212.0 cm (83.5 in) of direct contact to the Ford F150 that began 12.0 cm (4.7 in) forward the rear axle and extended forward. The maximum crush was located at C3 and measured 21.0 cm (8.3 in). The total velocity change as computed by the WinSmash program was 10.0 km/h (6.2 mph). The longitudinal and lateral components were -5.0 km/h (-3.1 mph) and 8.7 km/h (5.4 mph), respectively.

The Ford F150 rotated counterclockwise and there was a second impact between the Ford and the Suburban.

The Explorer was pushed rearward (06BZEW1) and into the front of the stopped Camry (12FYEW1).

All four vehicles came to rest in the western leg of the intersection. The Ford F150, the Ford Explorer, and the Suburban were towed from the scene. The Camry sustained moderate damage to the front end but was driven from the scene.



**Figure 5**. Case vehicle, 2004 Ford F150, left side impact



**Figure 6**. 2000 Chevrolet Suburban (impact to right side of case vehicle, 1<sup>st</sup> impact)

### **Post-Crash**

The driver of the Ford F150 sustained a minor contusion to the right shin. The driver of the Suburban reported pain in her right foot. The driver of the Explorer complained of neck pain. The driver of the Camry did not report any injuries. No one was transported or sought treatment later.

The Ford F150 was equipped with an electronic data recorder (EDR). The EDR was harvested and sent to the SCI office. It was then sent to the Ford Motor Company for interpretation. A summary of the downloaded data can be found in the Frontal Air Bag System section. Acceleration and delta V traces can be found in Attachment 2 of this document.

## VEHICLE DATA -2004 Ford F150 Heritage 4x4 regular cab pickup

The 2004 Ford F150 was equipped with an automatic transmission, 4-wheel drive, 4-wheel anti-lock brakes, air conditioning, power steering, and cloth upholstery

VIN: 2FTRF18W54Cxxxxxx

Odometer: 4,918 km (3,056 miles), per interview

Engine: 4.6 liter, 8 cylinder

Reported Defects: None

Cargo: 16 kg (35 lbs), toolbox, per interview

The 2004 Ford F150 pickup was equipped with BF Goodrich P235/70R16 tires. The specific tire data is as follows:

Tire	Tread	Pressure	Recommended pressure
LF	11 mm (0.43 in)	290 kPa (42 psi)	241 kPa (35 psi)
LR	11 mm (0.43 in)	290 kPa (42 psi)	241 kPa (35 psi)
RF	11 mm (0.43 in)	290 kPa (42 psi)	241 kPa (35 psi)
RR	10 mm (0.39 in)	290 kPa (42 psi)	241 kPa (35 psi)

The front seating positions in the 2004 Ford F150 pickup were comprised of a single, three person bench seat with a folding back. There two outboard positions were equipped with integral head restraints that did not sustain any damage. The seat was adjusted to the rear most track position.

### **VEHICLE DAMAGE**

# Exterior Damage - 2004 Ford F150 pickup

Damage Description: Moderate left and right side damage—mainly to the truck

bed

CDC: Impact 1: 02RZEW2

Impact 2: 10LZEW3

Delta V (impact 1)<sup>3</sup>: Total 10.0 km/h (6.2 mph)

Longitudinal -3.4 km/h (-2.1 mph)

Latitudinal -9.4 km/h (-5.8 mph)

Energy 6,398 joules

(4,719 ft lbs)

Delta V (impact 2)<sup>3</sup>: Total 10.0 km/h (6.2 mph)

Longitudinal -5.0 km/h (- 3.1 mph)

Latitudinal 8.7 km/h (5.4 mph)

Energy 11,084 joules

(8,185 ft-lbs)



Figure 7. Right side, Ford F150



Figure 8. Rear left, Ford F150

<sup>&</sup>lt;sup>3</sup>SCI addition, borderline reconstruction

# Interior Damage - 2004 Ford F150 pickup

Interior damage to the Ford pickup was generally limited to normal damage associated with front air bag deployments. There was a burn mark found on the right side of the air bag—near the module/air bag attachment.

# MANUAL RESTRAINT SYSTEMS - 2004 Ford F150 pickup

The Ford F150 was equipped with manual lap and shoulder belts with sliding latch plates for both outboard seat positions. The lap and shoulder belts were equipped with retractor type pretensioners that did actuate during the crash. The middle seat was equipped with a manual lap belt.

## FRONTAL AIR BAG SYSTEM - 2004 Ford F150 pickup

The 2004 Ford F150 Heritage was equipped with the Ford Personal Safety System that includes dual stage driver and a front right passenger air bags, energy management safety seat belt systems with pretensioners, belt buckle usage switches, a front right passenger weight sensor, and a driver's seat track position switch. The passenger's air bag includes an air bag cutoff switch that was in the ON position prior to impact. Side air bags were not available.

The driver was seated in the bench seat facing forward. The seat had been adjusted to the rear most track position. The driver was wearing the available lap and shoulder belt. The anchorage adjuster for the shoulder belt was in the full up position. The seat belt was equipped with a pretensioner that did actuate.

Both front air bags deployed during the crash. It is believed that the air bags deployed during the first impact.

The driver's air bag was mounted in the steering wheel. The module cover had an H-configuration. The top flap measured 20.0 cm (7.9 in) wide by 13.0 cm (5.1 in) high. The bottom flap measured 20.0 cm (7.9 in) high by 9.0 cm (3.5 in) wide. The air bag air bag was generally circular in shape and



Figure 9. Passenger air bag



**Figure 10**. Driver's and front right passenger's air bag

measured 53.0 cm (20.9 in) vertically and 57.0 cm (22.4 in) horizontally. The air bag was equipped with two vent ports (11 and 1 o'clock positions) and two central internal tethers. There was no damage or contacts noted to either the air bag or the module covers. There was a burn mark found on the right side of the air bag—near the module/air bag attachment.

The front right passenger air bag was a mid instrument panel mount. There was a single module flap that was rectangular in shape and measured 41.0 cm (16.1 in) wide by 18.0 cm (7.1 in) high. The air bag was generally rectangular in shape and measured 70.0 cm (27.6 in) vertically and 63.0 cm (24.8 in) horizontally. There were no tethers or vent ports. There was no damage or contacts noted to either the air bag or the module cover.



Figure 11. Burn to right side of driver's air bag



**Figure 12**. Passenger air bag cut off switch set to "ON" position

# Summary of EDR readout<sup>4</sup>

- The EDR-reported longitudinal delta V was estimated to be -6.9 km/h (-3.7 mph), 55 milliseconds into the crash.
- There was a flash code 19 (Crash memory full status code) present when the restraint control module was powered on at Autoliv.
- The restraint control module issued a command to deploy the front airbags and pretensioners. The fire time was 54 ms after algorithm wakeup. The safing sensor closed 1 ms after the microcontroller's deploy decision.
- The passenger front airbag was enabled at the time of the event.
- There were no faults present at the time of the event.
- There were no internal faults recorded.
- The historical faults are listed on the following page.

<sup>&</sup>lt;sup>4</sup>Field Report included as Attachment 3

HIS	TORICAL FAULTS (Fa	ults are li	sted in the	order in v	which they	were det	ected)
Pad	lap short to ignition						
1	Key-ons with the fault	present					
	Fault cleared						
Dep	loyment occurrence						
15	Key-ons with the fault	present					
0	Key-ons since fault ha	as not been	present				
PAF	AB high resistance						
12	Key-ons with the fault	present					
2	Key-ons since fault ha	as not been	present				
DRP	T high resistance						
12	Key-ons with the fault	present					
2	2 Key-ons since fault has not been present						
PAP	T high resistance						
12	Key-ons with the fault	present					
2	Key-ons since fault ha	as not been	present				
PAF	AB low leak						
1	Key-ons with the fault	present					
13	Key-ons since fault has not been present						
DRF	AB high resistance						
11	Key-ons with the fault present						
2	Key-ons since fault has not been present						
Misr	natched vehicle ID -	Caused by	/ Autoliv's	incorrect	oadbox se	tup	
2	Key-ons with the fault						
0	Key-ons since fault ha	as not been	present				

### **VEHICLE DATA - 2000 Chevrolet Suburban**

Description: 2000 Chevrolet Suburban 4x4 sport utility

vehicle

VIN: 3GNFK16T1YGxxxxxx

Odometer: 153,149 km (95,165 miles), per repair facility

Engine: 5.3L 8 cylinder

Reported Defects: None

Cargo: None, per inspection

Damage Description: Moderate front end damage. Damage to

bumper, hood, and left front fender.

CDC: Impact 1: 11FYEW1

Impact 2: Unknown

Delta V (impact  $1)^5$ : Total 9.0 km/h (5.6 mph)

Longitudinal -8.5 km/h (-5.3 mph)

Latitudinal 3.1 km/h (1.9 mph)

Energy 12,294 joules

(9,068 ft lbs)



Figure 14. Front left, Chevrolet Suburban



Figure 15. Interior view, Chevrolet Suburban

<sup>&</sup>lt;sup>5</sup>SCI addition

## **VEHICLE DATA - 2002 Ford Explorer**

Description: 2002 Ford Explorer 4x2

VIN: 1FMZU73K42Zxxxxxx

Odometer: 26,459 km (16,440 miles)

Engine: 4.0L (245 CID) 6 cylinder

Reported Defects: None

Cargo: 3 kg (7 lbs), bookcase/sleeping bag

Damage Description: Minor front and rear end damage.

CDC: Impact 1: 11FLEE6 (impact with Ford pickup)

Impact 2: 06BZEW1 (impact with Toyota Camry)

Delta V: Total Unknown

Longitudinal Unknown

Latitudinal Unknown

Energy Unknown



Figure 16. Front left, Ford Explorer



Figure 17. Back right, Ford Explorer

## **VEHICLE DATA - 1997 Toyota Camry**

Description: 1997 Toyota Camry

VIN: JT2BG22K1V0xxxxxx

Odometer: Unknown

Engine: 2.2L 4 cylinder

Reported Defects: None

Cargo: None

Damage Description: Moderate front end damage. Damage to

bumper, bumper fascia, hood, and radiator

support.

CDC: 12FYEW1 (impact with Ford Explorer)

Delta V: Total Unknown

Longitudinal Unknown

Latitudinal Unknown

Energy Unknown



Figure 18. Bumper fascia, Toyota Camry



Figure 19. Front left, Toyota Camry

# OCCUPANT DEMOGRAPHICS - 2004 Ford F150 pickup

Driver

Age/Sex: 29/Male

Seated Position: Front left

Seat Type: Fabric covered bench seat

Height: 183 cm (72 in)

Weight: 91 kg (201 lbs)

Occupation: Unknown

Pre-existing Medical

Condition:

None noted

Alcohol/Drug Involvement: None

Driving Experience: Unknown

Body Posture: Normal, upright

Hand Position: Unknown

Foot Position: Right foot on accelerator,

left on floorboard

Restraint Usage: Lap and shoulder belt

available, used

Air bag: Steering wheel mounted air

bag, deployed

## OCCUPANT DEMOGRAPHICS - 2000 Chevrolet Suburban

Driver

Age/Sex: 43/Female

Seated Position: Front left

Seat Type: Bucket seat. Seat adjusted

to middle track position. Seat back slightly reclined.

Height: 173 cm (68 in)

Weight: 59 kg (130 lbs)

Occupation: Unknown

Pre-existing Medical None noted

Condition:

Alcohol/Drug Involvement: None

Driving Experience: Unknown

Body Posture: Normal, upright

Hand Position: Unknown

Foot Position: Unknown

Restraint Usage: Lap and shoulder belt

available, used

# **OCCUPANT DEMOGRAPHICS - 2002 Ford Explorer**

Driver

Age/Sex: 53/Female

Seated Position: Front left

Seat Type: Bucket seat. Seat adjusted

to middle track position. Seat back slightly reclined.

Height: 163 cm (64 in)

Weight: 63 kg (139 lbs)

Occupation: Unknown

Pre-existing Medical None noted

Condition:

Alcohol/Drug Involvement: None

Driving Experience: Unknown

Body Posture: Normal, upright

Hand Position: Unknown

Foot Position: Unknown

Restraint Usage: Lap and shoulder belt

available, used

# OCCUPANT DEMOGRAPHICS - 1997 Toyota Camry

Driver

Age/Sex:  $60^6$ /Male

Seated Position: Front left

Seat Type: Unknown

Height: Unknown

Weight: Unknown

Occupation: Unknown

Pre-existing Medical

Condition:

None noted

condition.

Alcohol/Drug Involvement: None

Driving Experience: Unknown

Body Posture: Unknown

Hand Position: Unknown

Foot Position: Unknown

Restraint Usage: Lap and shoulder belt used,

per police report

<sup>&</sup>lt;sup>6</sup>Age added by SCI, obtained from police report

## OCCUPANT INJURIES -2004 Ford F150 pickup

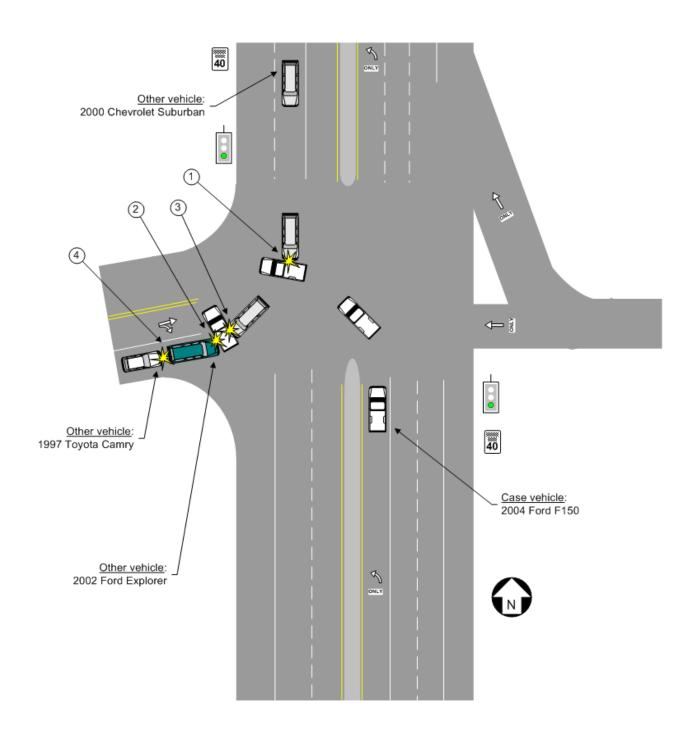
<u>Driver</u>: Injuries obtained from driver interview.

<u>Injury</u> <u>OIC Code</u> <u>Injury Mechanism</u> <u>Confidence Level</u>
Contusion, right knee 890402.1,1 Knee bolster Certain

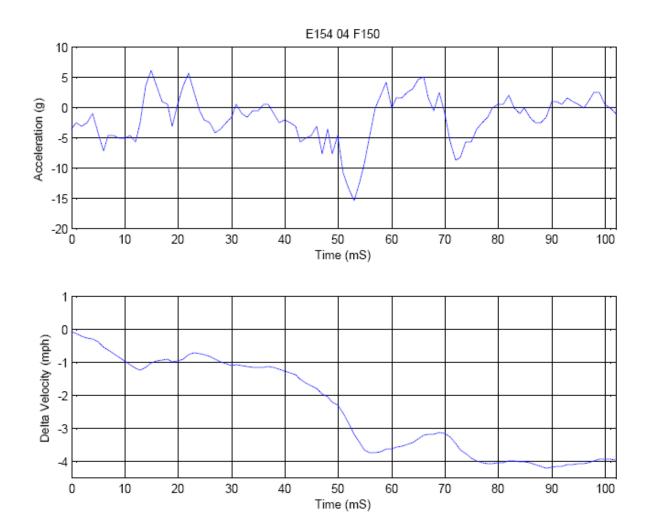
### OCCUPANT KINEMATICS - 2004 Ford F150 pickup

The 29-year-old male driver (183 cm/72 in, 91 kg/201 lbs) of the Ford F150 was sitting in a normal, upright fashion on the fabric covered bench seat. The seat had been adjusted to the rear most track position. The driver was wearing the available lap and shoulder belt. The shoulder belt anchorage was in the full up position. The driver was in the process of making a left hand turn. His right foot was on the accelerator, his left on the floorboard. The driver was actively steering through the left hand turn. At impact, both frontal air bags deployed and the seat belt pretensioners actuated. The driver initiated a trajectory to the front and right side in response to the 2 o'clock direction of force. He contacted the deployed driver's air bag but did not sustain any related injuries. His right knee contacted the lower instrument panel resulting in a minor contusion. He rebounded back into the seat and the restraint system mitigated additional occupant movement in the vehicle as the Ford F150 was pushed into a clockwise rotation. The left side of the Ford F150 then struck the front of the Ford Explorer. The driver responded to the 10 o'clock direction of force by moving to the left. He likely engaged the left interior of the vehicle but did not leave any contact evidence nor did he sustain any related injury. There was a second impact between the case vehicle and the Chevrolet Suburban, but this appeared to be minor and there would have been little occupant movement. The driver exited the vehicle on his own. The police indicated that he was uninjured. He did not seek any medical attention.

# Attachment 1. Scene Diagram



# Attachment 2. Acceleration and delta V traces for Ford F150



# **Attachment 3. Ford Field Report**

REPOR	T INFORMATION	ALLEGED EVENT DESCRIPTION	REPORT ID# E154
ID#	E154	Data not supplied.	HISTORICAL FAULTS (Faults are listed in the
REPORT DATE	05/26/04		Pad lap short to ignition
VEHICL	E INFORMATION		Key-ons with the fault present
MODEL YEAR	04		Fault cleared
NAME	F150		Deployment occurrence
CODE	PN96		15 Key-ons with the fault present
VIN	2FTRF18W54CAxxxxxx		Key-ons since fault has not been present
MILEAGE	Data not supplied		PAFAB high resistance
IDENTIFICATION	20043-75-046		12 Key-ons with the fault present
RESTRAINT	CONTROL MODULE	ALLEGED DAMAGE DESCRIPTION	2 Key-ons since fault has not been present
TYPE	RCM4XP	Data not supplied.	DRPT high resistance
PART#	1L3A-14B321-AD		12 Key-ons with the fault present
SERIAL #	202609xxxxxx		2 Key-ons since fault has not been present
BUILD DATE	February 11, 2004		PAPT high resistance
CUSTO	OMER CONTACT	INVESTIGATION RESULTS	12 Key-ons with the fault present
NAME	<deleted></deleted>	1. There was a flash code 19 (Crash memory full status code) present when the restraint control module	2 Key-ons since fault has not been present
COMPANY	<deleted></deleted>	was	PAFAB low leak
POSITION	Field Investigations	powered on at Autoliv.	Key-ons with the fault present
PHONE	<deleted></deleted>	The restraint control module issued a command to deploy the front airbags and pretensioners. The	13 Key-ons since fault has not been present
EMAIL	<deleted></deleted>	fire tim	DRFAB high resistance
AE	A CONTACT		11 Key-ons with the fault present
NAME	<deleted></deleted>		2 Key-ons since fault has not been present
POSITION	Field Investigations Engineer		Mismatched vehicle ID - Caused by Autoliv's
PHONE	<deleted></deleted>		2 Key-ons with the fault present
EMAIL	<deleted></deleted>		0 Key-ons since fault has not been present
ADDITION	NAL INFORMATION		